

PCI 5.1.1 Physical Reverse Flow at Moffat interconnection point (IE/UK)

TRA-A-829	Project	Pipeline including CS	Non-FID
Update Date	22/09/2020		Advanced
Description	Physical Reverse Flow at the Moffat interconnection point, which is currently uni-directional, supporting forward flow only from UK to IE, the Isle of Man and Northern Ireland (onshore). The planned capacity is 139 GWh/d.		
PRJ Code - PRJ Name	PRJ-G-001 - Physical Reverse Flow at Moffat interconnection point (IE/UK)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Moffat	Gas Networks Ireland	2022	IE	Y-UKm	139.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
Gas Networks Ireland	100%	Promoter	Gas Networks Ireland	Part of NDP
		Operator	Gas Networks Ireland	Yes (GNI, Network Development Plan 2017)
		Host Country	Ireland	NDP Number
		Status	Planned	NDP Release Date
		Website	Project's URL	NDP Website
			Currently PCI	No
			Priority Corridor(s)	NSIW

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		11/2018	Considered TPA Regime	Regulated
Feasibility	06/2017	11/2018	Considered Tariff Regime	Regulated
FEED	06/2020	12/2020	Applied for Exemption	No
Permitting	01/2021	12/2021	Exemption Granted	Not Relevant
Supply Contracts		06/2021		
FID		12/2021		
Construction	01/2022	12/2022	Exemption in entry direction	0.00%
Commissioning	2022	2022	Exemption in exit direction	0.00%
Grant Obtention Date	14/03/2017	14/03/2017		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Interconnector 2		750	194	29	0
Total			194	29	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Results and recommendations from the feasibility study were communicated to stakeholders and industry in Q1 2019.The project can now progress into FEED stage. The FEED commencement date has been adjusted by 12 months to allow sufficient time to progress an application to the next CEF call for proposals.

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	The PCI of which this action is an element would benefit the operators of supply sources in Ireland by facilitating access to the UK and continental markets. In particular the progression of PCI 5.1.1 would be seen as a key enabler for PCI 5.3 Shannon LNG Terminal, by facilitating access to the UK market. This would help Ireland's security of supply position in terms of the N-1 standard.

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(1) Yes, we have applied for CEF and we have received a decision
Grants for studies	Yes
Grants for studies amount	Mln EUR 0.9
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

Moffat Physical Reverse Flow

TRA-N-1064	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Non-Advanced
Description	Physical Reverse Flow at the Moffat interconnection point, which is currently uni-directional, supporting forward flow only from UK to IE, the Isle of Man and Northern Ireland (onshore). The planned capacity is 139GWH/d. The scope for this project from the National Grid perspective is limited to modifications to the receiving AGI at Moffat. There are not envisaged to be any other modifications to National Grid infrastructure, in particular no additional pipeline or compressor capability.		
PRJ Code - PRJ Name	PRJ-G-001 - Physical Reverse Flow at Moffat interconnection point (IE/UK)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Moffat	National Grid Gas plc	2020	Y-UKm	UK	139.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
GNI (UK) Limited	100%	Promoter	National Grid Gas plc	Part of NDP	No ((4) there is no obligation at national level for such a project to be part of the NDP)
		Operator	National Grid Gas plc		
		Host Country	United Kingdom	NDP Number	
		Status	Planned	NDP Release Date	
		Website		NDP Website	
				Currently PCI	No
				Priority Corridor(s)	NSIW

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	06/2017	11/2018	Considered Tariff Regime	Regulated
FEED	06/2019	12/2019	Applied for Exemption	No
Permitting	01/2020	12/2020	Exemption Granted	No
Supply Contracts				
FID		12/2020	Exemption in entry direction	100.00%
Construction	01/2021	12/2021	Exemption in exit direction	0.00%
Commissioning	2020	2020		
Grant Obtention Date	14/03/2017	14/03/2017		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	Results and recommendations from the feasibility study will be communicated to stakeholders and industry in Q1 2019. Following this, the project will progress into FEED stage. The FEED commencement date has been adjusted by 5 months to allow for communication of Feasibility Study results to take place. This adjustment will be made feasible by building on the initial conceptual design work undertaken as part of the Feasibility Study.

Benefits	
Main Driver	Others
Main Driver Explanation	The PCI of which this action is an element would benefit the UK through improvements in Security of Supply and would also benefit the operators of supply sources in Ireland by facilitating access to the UK and continental markets. In particular the progression of PCI 5.1.1 would be seen as a key enabler for PCI 5.3 Shannon LNG Terminal, by facilitating access to the UK market. This would help Ireland's security of supply position in terms of the N-1 standard
Benefit Description	

CBCA	
Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Bidirectional Austrian-Czech Interconnector (BACI)

TRA-A-21	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Advanced
Description	The Bidirectional Austrian Czech Interconnection (BACI) will be a new infrastructure directly connecting the Austrian and Czech market. It will be connected to the existing Czech transmission system via CS Břeclav (NET4GAS s.r.o.) and to the Austrian transmission system via Baumgarten (GAS CONNECT AUSTRIA GmbH). The project BACI will enable capacity transmission for the first time between these two EU Member States and it will facilitate better market integration between Austria and the Czech Republic. The project BACI will also increase the overall flexibility of the Czech, Austrian and also Polish system by diversification of gas supply routes and by connecting UGSs in the Czech Republic and Austria.		
PRJ Code - PRJ Name	PRJ-G-002 - Bidirectional Austrian - Czech Interconnection (BACI)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Poštorná / Reintal	Gas Connect Austria GmbH	2024	AT	CZ	201.42 GWh/d
	Gas Connect Austria GmbH	2024	CZ	AT	201.42 GWh/d

Sponsors		General Information		NDP and PCI Information	
Pipeline on Austrian territory		Promoter	<i>GAS CONNECT AUSTRIA GmbH</i>	Part of NDP	<i>Yes (NDP 2019 - 2028)</i>
GAS CONNECT AUSTRIA GmbH	100%	Operator	<i>Gas Connect Austria GmbH</i>	NDP Number	<i>GCA 2015/01a</i>
Pipeline on Czech territory		Host Country	<i>Austria</i>	NDP Release Date	<i>11/02/2019</i>
NET4GAS, s.r.o	100%	Status	<i>Planned</i>	NDP Website	<i><u>NDP URL</u></i>
		Website	<i><u>Project's URL</u></i>	Currently PCI	<i>No</i>
				Priority Corridor(s)	<i>NSIE</i>

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2014	Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting	04/2021	09/2021	Exemption Granted	Not Relevant
Supply Contracts		11/2021		
FID		07/2021		
Construction	01/2022	05/2024	Exemption in entry direction	0.00%
Commissioning	2024	2024	Exemption in exit direction	0.00%
Grant Obtention Date	30/04/2015	30/04/2015		

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Austrian Side	The technical load factor of the pipeline is confidential and must not be published. Conversion from Nm ³ (0°) to kwh with GCV of 11.19 AT side is TRA-N-021 and CZ side is TRA-N-133 Electric driven compressor	800	49		0
Czech Side	Conversion from Nm ³ (0°) to kwh with GCV of 11.19 AT side is TRA-N-021 and CZ side is TRA-N-133	800	12		0
Total			61		
Fulfilled Criteria					

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	According to the footnote of the 3rd PCI list the implementation of BACI as a PCI is conditional upon the outcome of the pilot project 'Trading Regional Upgrade" (TRU). Currently the one-year long pilot phase of TRU service is ongoing. The commissioning year (and the entire time-schedule was changed to 2024.

Benefits

Main Driver	Others
Main Driver Explanation	Market Integration
Benefit Description	The project BACI will ensure transmission capacity between the two member states and will facilitate better market integration and security of gas supply also for adjacent countries. It contributes to the diversification of gas supply and the increased transportation opportunities to and from countries like Hungary, Poland, Germany, Italy, France, Slovenia, Croatia and Slovakia and access to new and existing trading markets. The project BACI will enhance the market development due to access to underground gas storages both on the Austrian and Czech side and therefore will enhance the market development by providing peak regulation and the flexibility of gas flow. BACI is a key element in creating a well-functioning internal market in the CEE region due to access to existing and new import infrastructures such as a new LNG terminal in Poland and Croatia, Nord Stream and unconventional gas sources. With BACI the region would become less vulnerable in case of supply disruption.

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(1) Yes, we have applied for CEF and we have received a decision
Grants for studies	Yes
Grants for studies amount	Mln EUR 0.1
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

Bidirectional Austrian Czech Interconnection (BACI)

TRA-A-133	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Advanced
Description	The transmission system operators of the Czech Republic (NET4GAS, s.r.o.) and Austria (GAS CONNECT AUSTRIA GmbH) are cooperating on a joint project Bidirectional Austrian Czech Interconnection (BACI). The project BACI aims at establishing the first direct connection between the Czech Republic and Austria. The pipeline is planned to be connected at CS Břeclav (NET4GAS s.r.o.) and at CS Baumgarten (GAS CONNECT AUSTRIA GmbH) to the existing transmission systems of both countries.		
PRJ Code - PRJ Name	PRJ-G-002 - Bidirectional Austrian - Czech Interconnection (BACI)		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Poštorná / Reintal	NET4GAS, s.r.o.	2024	AT	CZ	201.42 GWh/d
			Comment: Entry from AT to CZ		
	NET4GAS, s.r.o.	2024	CZ	AT	201.42 GWh/d
			Comment: Exit from CZ to AT		

Sponsors		General Information		NDP and PCI Information	
Austria		Promoter	NET4GAS, s.r.o.	Part of NDP	Yes (CZ NDP 2019-2028 (approved))
GAS CONNECT AUSTRIA GmbH	100%	Operator	NET4GAS, s.r.o.	NDP Number	TRA-N-133
Czech Republic		Host Country	Czechia	NDP Release Date	31/10/2018
NET4GAS, s.r.o.	100%	Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		05/2009	Considered TPA Regime	Regulated
Feasibility	03/2012	02/2014	Considered Tariff Regime	Regulated
FEED	03/2012	10/2020	Applied for Exemption	No
Permitting	05/2015	10/2021	Exemption Granted	Not Relevant
Supply Contracts		11/2021		
FID			Exemption in entry direction	0.00%
Construction	01/2023	04/2024	Exemption in exit direction	0.00%
Commissioning	2024	2024		
Grant Obtention Date	30/04/2015	30/04/2015		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Břeclav (CZ) - Poštorná/Reintal (CZ/AT)	CZ side	800	12		2024
Total			12		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	0
Delay Explanation	

Expected Gas Sourcing

Norway, Russia

Benefits

Main Driver	Others
Main Driver Explanation	Competition, Market Integration
Benefit Description	The aim of BACI is to bring competition into the Austrian gas market which could help to decrease gas prices in Austria (and connected markets like Italy). In the last couple of months, the spreads between the German hub (i.e. Gaspool) and the Austrian VP have been above 2 €/MWh. For the Austrian VP/Czech market, the recent spreads are around 1.5 €/MWh, which fully justifies the need to further market integration between the Czech Republic and Austria.

Barriers

Barrier Type	Description
Permit Granting	Permitting obstacles
Market	Shippers mainly buy transmission capacity in monthly and daily auctions and are not interested in booking long-term capacity which traditionally covers investment in infrastructure.
Regulatory	Low rate of return
Regulatory	Lack of proper transposition of EU regulation

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(1) Yes, we have applied for CEF and we have received a decision
Grants for studies	Yes
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	Yes
Comments	TEN-E, 92 942 EUR
General Comments	

Interconnection Croatia/Slovenia (Lučko - Zabok - Jezerišće - Sotla)

TRA-N-86	Project	Pipeline including CS	Non-FID
Update Date	21/09/2020		Advanced
Description	New pipeline which will upgrade the existing interconnection Croatia/Slovenia. Along with the existing interconnection Karlovac-Lučko-Zabok-Rogatec, a new gas pipeline system has been planned which would significantly increase the capacity of the interconnection of the Croatian and the Slovenian gas transmission systems in this direction. Considering almost all existing and new supply directions in the surrounding region and the Croatian storage potentials this opens significant transit potentials in both directions. Along this transit route, it is planned to upgrade the capacity to 5 bcm/y.		
PRJ Code - PRJ Name	PRJ-G-003 - Interconnection Slovenia-Croatia (Gas pipeline Lučko-Zabok-Rogatec)		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Rogatec	Plinacro Ltd	2021	SI	HR	40.80 GWh/d
	Plinacro Ltd	2023	HR	SI	162.00 GWh/d
	Plinacro Ltd	2023	SI	HR	121.20 GWh/d

Sponsors		General Information		NDP and PCI Information	
Plinacro	100%	Promoter	Plinacro Ltd	Part of NDP	Yes (2018-2027)
		Operator	Plinacro Ltd	NDP Number	1.9, 1.10, 1.11
		Host Country	Croatia	NDP Release Date	15/12/2017
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.26.1.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	09/2014	12/2014
FEED	01/2020	01/2020
Permitting	01/2020	01/2020
Supply Contracts		01/2020
FID		01/2020
Construction	01/2020	01/2023
Commissioning	2021	2023
Grant Obtention Date	01/04/2020	01/04/2020

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations						
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
BS Rakitje-Zabok			700	26		2023
Jezerisce-Sotla			700	8		2023
Lučko-BS Rakitje			700	10		2021
Zabok-Jezerisce			700	25		2023
Total				69		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The project increases the integration of the Croatian gas market with the European gas market, the current interconnection capacity is limited to 1.5 bcm/y. The pipeline will have the reverse flow, so gas can flow from LNG Krk or IAP to Slovenia and further to Central Europe expected to result in reduced end-user energy prices providing the security of supply increasing the capacity along the route providing enhanced access to Baumgarten and the Italian gas market providing an additional import of gas achievement of benefits of the open gas market This project is expected to contribute to the provision of gas supply to potential customers in the Central Europe countries
Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	
Expected Gas Sourcing	
Caspian Region, Russia, LNG (HR,QA), IAP project, Baumgarten	
Benefits	
Main Driver	Market Demand
Main Driver Explanation	The current capacity is limited;the section from Lučko to Rogatec up to 1.5 bcm/y.Increasing capacity by 5 bcm opens the possibility for importing more gas from the Baumgarten. In addition, the source of the gas, in the near future) is going to be the gas from the LNG solution on the island of Krk as well as from the Ionian – Adriatic Pipeline toward Slovenia and the neighbouring countries. In this case the current pipeline capacity would not be sufficient; therefore it is envisaged to be increased. By doubling the pipeline, it is possible to use both the existing and future Croatian UGSs. The construction of this interconnection is vital for the security of supply of both the Croatian market and other markets in the SE region.
Benefit Description	It will be significantly increase the capacity of the interconnection of the Croatian and Slovenian gas transmission systems in both directions. It will increase the capacity along the route, provide enhanced access to Baumgarten and Italien gas market. The most important impacts and benefits of this project: 1. It provides security of supply for Croatia (N-1 criterion has not been met!) and a reverse flow (from Croatia to Slovenia) 2. It provides access to the gas markets of Austria and Italy via the Slovenian system 3. It provides import and significant transit of gas from the direction of Italy and Austria to CEE and SEE countries (Hungary, Bosnia and Herzegovina, Serbia...) 4. It provides significant transit of gas from LNG terminal, Ionian-Adriatic Pipeline or other sources towards Slovenia, Austria and Italy as well as the countries in their surrounding 5. It facilitates market integration
Barriers	
Barrier Type	Description
Financing	Availability of funds and associated conditions

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Letter of Intent	Signed between Plinacro and Plinovodi	Yes	22/05/2014
Memorandum of Understanding	Signed among Plinacro, Plinovodi and Gas Connect Austria	Yes	28/12/2014

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 0.5</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Upgrade of Rogatec interconnection (M1A/1 Interconnection Rogatec)

TRA-N-390	Project	Pipeline including CS	Non-FID
Update Date	13/02/2020		Advanced
Description	Adjustment of the operating parameters of the transmission system of the Croatian TSO, increasing the transmission capacity and enabling bidirectional operation in the frame of the bidirectional gas route Austria - Slovenia - Croatia. The project is a part of the PCI 6.26 Cluster Croatia - Slovenia - Austria at Rogatec.		
PRJ Code - PRJ Name	PRJ-G-003 - Interconnection Slovenia-Croatia (Gas pipeline Lučko-Zabok-Rogatec)		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Rogatec	Plinovodi d.o.o.	2021	HR	SI	40.80 GWh/d
	Plinovodi d.o.o.	2023	HR	SI	121.20 GWh/d
	Plinovodi d.o.o.	2023	SI	HR	162.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Plinovodi	100%	Promoter	Plinovodi d.o.o.	Part of NDP	Yes (TYNDP for the period 2019-2028)
		Operator	Plinovodi d.o.o.	NDP Number	C12
		Host Country	Slovenia	NDP Release Date	26/11/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.26.6 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2015	Considered TPA Regime	Regulated
Feasibility	04/2015	05/2015	Considered Tariff Regime	Regulated
FEED	07/2020	07/2022	Applied for Exemption	No
Permitting	07/2021	12/2022	Exemption Granted	No
Supply Contracts		12/2023		
FID		09/2021	Exemption in entry direction	0.00%
Construction	07/2022	12/2023	Exemption in exit direction	0.00%
Commissioning	2021	2023		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Upgrade of Rogatec interconnection	The length is 3.8 km.	800	4		0
Total			4		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	The project will provide security of supply for Croatia and Slovenia and a reverse flow (from Croatia to Slovenia). It will provide access to/from the gas markets of Austria and Italy via the Slovenian system. It will provide import and significant access to Krk LNG and IAP pipeline: contributing to the security of supply and benefits of the open gas market.

Expected Gas Sourcing

Caspian Region, Russia, LNG (HR)

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Also essential contribution to Security of supply.
Benefit Description	

CBCA	
Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

LNG Evacuation Pipeline Kozarac-Slobodnica

TRA-N-1058	Project	Pipeline including CS	Non-FID
Update Date	21/09/2020		Advanced
Description	Gas pipeline Kozarac - Slobodnica jointly with gas pipeline sytem Zlobin - Bosiljevo - Sisak-Kozarac and with gas pipeline Omišalj-Zlobin makes LNG Main Evacuation Pipeline connecting LNG from the LNG solution on the island of Krk with Central Eastern European counties. The pipeline system is a continuation of the existing Hungary – Croatia interconnection (gas pipeline Varosföld-Dravaszerdahely-Donji Miholjac-Slobodnica) will be connected to the future Ionian Adriatic Pipeline (IAP) will be connected to the future LNG solution in Omišalj It will be the "backbone" of the Croatian gas system.		
PRJ Code - PRJ Name	PRJ-G-004 - Krk LNG terminal with connecting and evacuation pipelines towards Hungary and beyond		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Croatia LNG	Plinacro Ltd	2027	LNG_Tk_HR	HR	82.00 GWh/d
Dravaszerdahely	Plinacro Ltd	2027	HR	HU	82.00 GWh/d
	Plinacro Ltd	2027	HU	HR	135.85 GWh/d

Sponsors		General Information		NDP and PCI Information	
Plinacro	100%	Promoter	Plinacro Ltd	Part of NDP	Yes (2018-2027)
		Operator	Plinacro Ltd	NDP Number	1.32
		Host Country	Croatia	NDP Release Date	15/12/2017
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	09/2015	10/2016	Considered Tariff Regime	Regulated
FEED	01/2023	01/2023	Applied for Exemption	No
Permitting	09/2014	01/2023	Exemption Granted	No
Supply Contracts		01/2024		
FID		01/2024	Exemption in entry direction	0.00%
Construction	01/2024	01/2027	Exemption in exit direction	0.00%
Commissioning	2027	2027		
Grant Obtention Date	24/11/2015	24/11/2015		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Kozarac-Slobodnica		800	128		2027
Total			128		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Project depend on LNG project

Expected Gas Sourcing

Caspian Region, LNG (), it will be gas from Croatia transport system, Croatian UGS and all import routes (LNG and IAP)

Benefits	
Main Driver	Market Demand
Main Driver Explanation	This gas pipeline passes only through the territory of the Republic of Croatia. However, it has regional significance since it is the main evacuation gas pipeline from the LNG solution on the island of Krk towards Hungary and it is its main role. This gas pipeline increases utilisation of the interconnection with Hungary so it has influence on Hungary but also further on Slovakia and Ukraine. The gas pipeline shall be also significant for third countries; Serbia, Bosnia and Herzegovina by constructing interconnection with these countries.
Benefit Description	The project is the main gas pipeline for transport of LNG from the terminal on the island of Krk as well as from other possible sources, such as gas from the Ionian-Adriatic Pipeline , towards CEE and SEE countries. At the same time, in addition to already constructed interconnection gas pipeline with Hungary, Slobodnica-Donji Miholjac-Dravaszerdahely, it presents the Croatian part of the strategic transregional gas pipeline connection Adriatic-Baltic the aim of which is to connect the Polish and Croatian LNG terminal. The most important impacts and benefits of this project: 1. It provides viable and secure supply of CEE and SEE countries, which are heavily dependent on the Russian gas and jeopardized by the Russian giving up on the South Stream project and the announcement regarding termination of gas transmission via Ukraine after 2019 2. It provides diversification of supply (also in case the previously mentioned threats fail to occur) and thereby competitiveness and lower price

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 1.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

LNG evacuation pipeline Omišalj - Zlobin (Croatia)

TRA-F-90	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	The pipeline is the connection of the LNG on the Krk island with the existing Croatian gas transmission system. Gas pipeline Omišalj-Zlobin jointly with gas pipeline system Zlobin - Bosiljevo - Sisak-Kozarac and with gas pipeline Kozarac-Slobodnica makes LNG Main Evacuation Pipeline connecting LNG from the LNG solution on the island of Krk with Central Eastern European counties. The pipeline is a continuation of the existing Hungary – Croatia interconnection (gas pipeline Varosföld-Dravaszerdahely-Donji Miholjac-Slobodnica). It will be the "backbone" of the Croatian gas system.		
PRJ Code - PRJ Name	PRJ-G-004 - Krk LNG terminal with connecting and evacuation pipelines towards Hungary and beyond		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Croatia LNG	Plinacro Ltd	2020	LNG_Tk_HR	HR	81.51 GWh/d
Dravaszerdahely	Plinacro Ltd	2020	HR	HU	40.76 GWh/d

Sponsors		General Information		NDP and PCI Information	
Plinacro	100%	Promoter	Plinacro Ltd	Part of NDP	Yes (2018-2027)
		Operator	Plinacro Ltd	NDP Number	1.18
		Host Country	Croatia	NDP Release Date	15/12/2017
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.5.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	09/2015	10/2016	Considered Tariff Regime	Regulated
FEED	10/2015	03/2017	Applied for Exemption	No
Permitting	07/2009	01/2019	Exemption Granted	No
Supply Contracts		01/2019		
FID		06/2019	Exemption in entry direction	0.00%
Construction	06/2019	12/2020	Exemption in exit direction	0.00%
Commissioning	2020	2020		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Omišalj-Zlobin		800	18		2020
Total			18		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Project will connect several, in the future exceptionally important, points of the Croatian gas transmission system. It is the future strategic gas transmission connector of great significance and is an integral part of the North – South European Corridor named as the North-South (Baltic – Adriatic) Gas Connection. Its purpose is linking the Polish and the Croatian LNG (Liquefied Natural Gas) solutions. This gas pipeline (as well as all the pipelines to which it connects and the associated gas nodes) will provide gas transmission in all directions, i.e. it will satisfy all transmission requirements and will maximise the value of the IAP and LNG projects in Croatia and the region. In addition, it will increase the use of the existing system and the new interconnection with Hungary.

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	Yes, we have submitted an investment request and have received a decision
Submissin Date	14/10/2016
Decision Date	10/04/2017
Website	CBCA URL
Countries Affected	Croatia, Hungary, Ukraine
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(1) Yes, we have applied for CEF and we have received a decision
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	Yes
Grants for works amount	Mln EUR 16.4
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

LNG evacuation pipeline Zlobin-Bosiljevo-Sisak-Kozarac

TRA-N-75	Project	Pipeline including CS	Non-FID
Update Date	21/09/2020		Advanced
Description	Gas pipeline Zlobin - Bosiljevo - Sisak – Kozarac jointly with gas pipeline Omišalj-Zlobin and gas pipeline Kozarac-Slobodnica makes LNG Main Evacuation Pipeline connecting LNG from the LNG solution on the island of Krk with Central Eastern European counties. The pipeline is a continuation of the existing Hungary – Croatia interconnection (gas pipeline Varosföld-Dravaszerdahely-Donji Miholjac-Slobodnica) will be connected to the future Ionian Adriatic Pipeline (IAP) will be connected to the future LNG solution in Omišalj It will be the "backbone" of the Croatian gas system.		
PRJ Code - PRJ Name	PRJ-G-004 - Krk LNG terminal with connecting and evacuation pipelines towards Hungary and beyond		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Croatia LNG	Plinacro Ltd	2027	LNG_Tk_HR	HR	27.17 GWh/d
Dravaszerdahely	Plinacro Ltd	2027	HR	HU	54.34 GWh/d

Sponsors		General Information		NDP and PCI Information	
Plinacro	100%	Promoter	Plinacro Ltd	Part of NDP	Yes (2018-2027)
		Operator	Plinacro Ltd	NDP Number	1.19, 1.20, 1.21
		Host Country	Croatia	NDP Release Date	15/12/2017
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	09/2015	10/2016	Considered Tariff Regime	Regulated
FEED	06/2018	04/2019	Applied for Exemption	No
Permitting	07/2009	01/2025	Exemption Granted	No
Supply Contracts		01/2025		
FID		01/2025		
Construction	01/2025	01/2027	Exemption in entry direction	0.00%
Commissioning	2027	2027	Exemption in exit direction	0.00%
Grant Obtention Date	24/11/2015	24/11/2015		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Bosiljevo - Sisak		800	102		2027
Kozarac - Sisak		800	20		2027
Zlobin - Bosiljevo		800	58		2027
Total			180		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	The preparatory work will be performed in phases, depending on the development of the LNG project,

Expected Gas Sourcing

Caspian Region, LNG (HR,QA), it will be gas from Croatia transport system, Croatian UGS and all import routes (LNG and IAP)

Comments about the Third-Party Access Regime

TPA regime is not defined yet, Exemption Regime possibly

Benefits

Main Driver	Market Demand
Main Driver Explanation	This gas pipeline passes only through the territory of the Republic of Croatia. However, it has regional significance since it is the main evacuation gas pipeline from the LNG solution on the island of Krk towards Hungary and it is its main role. This gas pipeline increases utilisation of the interconnection with Hungary so it has influence on Hungary but also further on Slovakia and Ukraine. The gas pipeline shall be also significant for third countries; Serbia, Bosnia and Herzegovina by constructing interconnection with these countries.
Benefit Description	The project is the main gas pipeline for transport of LNG from the terminal on the island of Krk as well as from other possible sources, such as gas from the Ionian-Adriatic Pipeline , towards CEE and SEE countries. At the same time, in addition to already constructed interconnection gas pipeline with Hungary, Slobodnica-Donji Miholjac-Dravaszerdahely, it presents the Croatian part of the strategic transregional gas pipeline connection Adriatic-Baltic the aim of which is to connect the Polish and Croatian LNG terminal. The most important impacts and benefits of this project: 1. It provides viable and secure supply of CEE and SEE countries. 2. It provides diversification of supply (also in case the previously mentioned threats fail to occur) and thereby competitiveness and lower price.

Barriers

Barrier Type	Description
Others	Directly connected and depending on the LNG project on the island of Krk
Financing	Availability of funds and associated conditions

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>14/10/2016</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>10/04/2017</i>	Grants for studies amount	<i>Mln EUR 1.2</i>
Website	<i>CBCA URL</i>	Grants for works	<i>Yes</i>
Countries Affected	<i>Croatia, Hungary, Ukraine</i>	Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

LNG terminal Krk 1st phase

LNG-F-82	Project	LNG Terminal	FID
Update Date	22/09/2020		Advanced
Description	The import terminal for the liquefied natural gas (LNG) will be situated in Omišalj on the Island of Krk, Republic of Croatia. The project is planned to be developed in two phases - in first phase as FSRU and in second phase as onshore LNG terminal. First phase is planned to be developed as FSRU solution, with correspondent capacity of up to 2.6 bcm/y.		
PRJ Code - PRJ Name	PRJ-G-004 - Krk LNG terminal with connecting and evacuation pipelines towards Hungary and beyond		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Croatia LNG	LNG Hrvatska d.o.o.	2021	LNG_Tk_HR	HR	81.50 GWh/d
	Comment: FSRU vessel with connecting pipeline Omišalj-Zlobin of capacity up to 2,6 bcm/y as 1st phase of the project				

Sponsors		General Information		NDP and PCI Information	
HEP d.d.	85%	Promoter	LNG Hrvatska d.o.o.	Part of NDP	Yes (DESETOGODISNJI PLAN RAZVOJA PLINSKOG TRANSPORTNOG SUSTAVA REPUBLIKE HRVATSKE 2018. - 2027.)
Plinacro d.o.o.	15%	Operator	LNG Hrvatska d.o.o.		
		Host Country	Croatia	NDP Number	LNG terminal on the island of Krk
		Status	In Progress	NDP Release Date	01/11/2017
		Website	Project's URL	NDP Website	NDP URL
				Currently PCI	Yes (6.5.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		04/2017	Considered TPA Regime	Regulated
Feasibility	07/2012	01/2014	Considered Tariff Regime	Regulated
FEED	03/2017	12/2017	Applied for Exemption	No
Permitting	10/2013	04/2019	Exemption Granted	No
Supply Contracts		01/2019		
FID		01/2019		
Construction	01/2019	12/2020	Exemption in entry direction	0.00%
Commissioning	2021	2021	Exemption in exit direction	0.00%
Grant Obtention Date	18/12/2017	18/12/2017		

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
<i>The import terminal for the liquefied natural gas(LNG) on the Island of Krk</i>	<i>Yes</i>	<i>1st phase</i>	<i>2.6</i>	<i>140,000</i>	<i>7.12</i>	<i>140,000</i>	<i>up to 2,6 bcm/y due to technical limitation of entry point into TS</i>	<i>2021</i>	<i>20</i>

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	All specific criteria are fulfilled by this project

Delays since last TYNDP	
Delay Since Last TYNDP	None
Delay Explanation	In comparison with last TYNDP, the project is rescheduled with new beginning of operation from 1st January 2021.

Expected Gas Sourcing

Gas sourcing will be decided by LNG terminal capacity users, who will have the freedom to arrange gas supplies and gas origin

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Importance of LNG terminal in Croatia is in possibility of providing natural gas to multiple countries in the region. Countries included: Hungary, Slovenia, Austria, Italy, Germany, Czech Republic, Slovak Republic, former Yugoslav Republic of Macedonia, Albania, Kosovo, Serbia, Montenegro, Bosnia and Herzegovina, Ukraine, Romania, and Bulgaria. Gas supply in the region is heavily dependent on one supply source and therefore LNG terminal in Croatia represents a major diversification gas supply route in the region.
Benefit Description	Project benefits include: providing diversity of supply of natural gas, providing security of supply of natural gas, introducing the ecologically sound energy source in the region, reducing CO ₂ emissions in the region, facilitating economic development, etc.

Barriers

Barrier Type	Description
Permit Granting	N/A
Political	N/A
Others	N/A
Market	Current market interest is lower than planned. It is expected higher capacity booking in the future.

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
CESEC MoU	Memorandum of Understanding	Yes	10/07/2015
The Three Seas initiative	Connecting Central and Eastern European economies and infrastructure from North to South of Europe, in order to complete the single European market.	Yes	25/08/2016

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>09/07/2016</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>12/10/2016</i>	Grants for studies amount	<i>Mln EUR 6.2</i>
Website	<i>CBCA URL</i>	Grants for works	<i>Yes</i>
Countries Affected	<i>Croatia, Hungary</i>	Grants for works amount	<i>Mln EUR 101.4</i>
Countries Net Cost Bearer	<i>Croatia</i>	Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
		Comments	<i>At European level, funding programme IPF TA (Western Balkans Investment Framework) financed – Conceptual Solution, Feasibility Study, EIA/SIA and Conceptual Design in amount of 1 mil €</i>
		General Comments	

LNG terminal Krk 2nd phase

LNG-N-815	Project	LNG Terminal	Non-FID
Update Date	09/12/2019		Advanced
Description	The import terminal for the liquefied natural gas (LNG) will be situated in Omišalj on the Island of Krk, Republic of Croatia. The project is planned to be developed in two phases - in first phase as FSRU and in second phase as onshore LNG terminal. Second phase is planned to be developed as onshore terminal with capacity of 7 bcm/y.		
PRJ Code - PRJ Name	PRJ-G-004 - Krk LNG terminal with connecting and evacuation pipelines towards Hungary and beyond		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Croatia LNG	LNG Hrvatska d.o.o.	2027	LNG_Tk_HR	HR	109.20 GWh/d
Comment: Onshore LNG terminal with a correspondent annual send-out capacity of interconnection pipeline HR-HU as 2nd phase of the project					

Sponsors		General Information		NDP and PCI Information	
HEP d.d.	85%	Promoter	LNG Hrvatska d.o.o.	Part of NDP	Yes (DESETOGODISNJI PLAN RAZVOJA PLINSKOG TRANSPORTNOG SUSTAVA REPUBLIKE HRVATSKE 2018. - 2027.)
Plinacro d.o.o.	15%	Operator	LNG Hrvatska d.o.o.		
		Host Country	Croatia	NDP Number	LNG terminal on the island of Krk
		Status	Planned	NDP Release Date	01/11/2017
		Website	Project's URL	NDP Website	NDP URL
				Currently PCI	Yes (6.5.6 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		04/2017	Considered TPA Regime	Regulated
Feasibility	07/2012	01/2014	Considered Tariff Regime	Regulated
FEED	03/2016	08/2016	Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2027	2027		
Grant Obtention Date	27/03/2015	27/03/2015		

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
The import terminal for the liquefied natural gas(LNG) on the Island of Krk	Yes	2nd phase	4.4	120,000	12.05	160,000	Onshore LNG terminal with a correspondent annual send-out capacity of interconnection pipeline HR-HU	2027	50

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	All specific criteria are fulfilled by this project

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	In comparison with last TYNDP, the project is planned for year 2027.

Expected Gas Sourcing

Gas sourcing will be decided by LNG terminal capacity users, who will have the freedom to arrange gas supplies and gas origin

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Importance of LNG terminal in Croatia is in possibility of providing natural gas to multiple countries in the region. Countries included: Hungary, Slovenia, Austria, Italy, Germany, Czech Republic, Slovak Republic, former Yugoslav Republic of Macedonia, Albania, Kosovo, Serbia, Montenegro, Bosnia and Herzegovina, Ukraine, Romania, and Bulgaria. Gas supply in the region is heavily dependent on one supply source and therefore LNG terminal in Croatia represents a major diversification gas supply route in the region.
Benefit Description	Project benefits include: providing diversity of supply of natural gas, providing security of supply of natural gas, introducing the ecologically sound energy source in the region, reducing CO ₂ emissions in the region, facilitating economic development, etc.

Barriers

Barrier Type	Description
Permit Granting	N/A
Political	N/A
Others	N/A
Market	Current market interest is lower than planned. It is expected higher capacity booking in the future.

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
CESEC MoU	Memorandum of Understanding	Yes	10/07/2015
The Three Seas initiative	Connecting Central and Eastern European economies and infrastructure from North to South of Europe, in order to complete the single European market.	Yes	25/08/2016

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
		Comments	<i>At European level, funding programme IPF TA (Western Balkans Investment Framework) financed – Conceptual Solution, Feasibility Study, EIA/SIA and Conceptual Design in amount of 1 mil €</i>
		General Comments	

Poland - Slovakia Gas Interconnection (PL section)

TRA-F-275	Project	Pipeline including CS	FID
Update Date	22/06/2020		Advanced
Description	The main goal of the project is to create an important part of the North-South gas interconnections in Central-Eastern Europe by implementing a missing interconnection between the transmission systems in Poland and Slovakia and, thus, increase the security of gas supplies in Central-Eastern Europe through the diversification of supply sources and routes, as well as integration of Sub-Carpathian Market Area and enhancing market functionality. The project consists of Poland-Slovakia Interconnector and relevant internal transmission investments in Poland to ensure full functionality of the Interconnection.		
PRJ Code - PRJ Name	PRJ-G-008 - Poland – Slovakia Gas Interconnection		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Interconnector PL - SK	GAZ-SYSTEM S.A.	2021	PL	SK	143.90 GWh/d
	GAZ-SYSTEM S.A.	2021	SK	PL	174.50 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gas Transmission Operator GAZ-SYSTEM S.A.	100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	Yes (National Ten-Year Transmission System Development Plan 2018-2027)
		Operator	GAZ-SYSTEM S.A.	NDP Number	N/A
		Host Country	Poland	NDP Release Date	
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.2.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	08/2011	07/2013	Considered Tariff Regime	Regulated
FEED	10/2014	11/2018	Applied for Exemption	No
Permitting	10/2015	06/2018	Exemption Granted	Not Relevant
Supply Contracts				
FID		04/2018	Exemption in entry direction	0.00%
Construction	12/2017	09/2021	Exemption in exit direction	0.00%
Commissioning	2021	2021		
Grant Obtention Date	18/12/2017	18/12/2017		

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
PL-SK Interconnection - Polish section		1,000	59		0
Pogórska Wola - Tworzeń pipeline		1,000	168		0
Strachocina - Pogórska Wola pipeline		1,000	98		0
Tworóg - Tworzeń pipeline		1,000	56		0
Total			381		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Market integration: - Creation of a well-integrated and functioning market in the CEE region. SoS: - Mitigation of exposure to supply disruptions in CEE countries; - Reduction of dependence on gas supplies from Russia in the CEE region. Competition: - Reduction of price differences between the CEE and North-West regions; - Enhanced access to new sources of supply in the CEE region (LNG, NO supplies). d) Sustainability - Reduction of emissions in the CEE region by promoting natural gas in national economies.

Delays since last TYNDP

Delay Since Last TYNDP
Delay Explanation

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	Increase of SoS in the CEE region. Integration of gas infrastructure in the CEE region by constructing a cross-border Interconnection between PL and SK that is currently missing. Sustainability
Benefit Description	Implementation of PL-SK Interconnection will have an impact on: creating the cross-border capacity between Poland and Slovakia by establishing a large transportation corridor that will allow for flexible transport of gas in Central Europe within the North-South axis; increasing the security of gas supply and diversification of supply routes for the CEE region; improving European gas grid interconnection; increasing the security and reliability of the cross-border gas transmission between Slovakia and Poland (contribution to N-1 standard in Poland and Slovakia); creating a robust, well-functioning internal market in Slovakia and Poland and promote the competition.

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Agreement between the Government of the Republic of Poland and the Government of the Slovak Republic for cooperation on the implementation of the project of a gas pipeline connecting the Polish transmission system and Slovak transmission system.	In Comments	Yes	11/06/2014

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>31/10/2013</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>28/11/2014</i>	Grants for studies amount	<i>Mln EUR 2.3</i>
Website	<i>CBCA URL</i>	Grants for works	<i>Yes</i>
Countries Affected		Grants for works amount	<i>Mln EUR 52.5</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>Yes</i>
			<i>Structural Funds (Operational Programme Infrastructure and Environment 2014-2020):</i>
		Comments	<i>- Pogórska Wola - Tworzeń;</i> <i>- Strachocina - Pogórska Wola;</i> <i>- Tworóg - Tworzeń.</i>
		General Comments	

Poland - Slovakia interconnection

TRA-F-190	Project	Pipeline including CS	FID
Update Date	22/09/2020		Advanced
Description	Construction of a missing interconnection between Slovak and Polish transmission system will contribute to establishing a well-functioning internal gas market via diversification of gas routes and sources. Security of supply will be thus enhanced decreasing producers concentration in the affected region.		
PRJ Code - PRJ Name	PRJ-G-008 - Poland – Slovakia Gas Interconnection		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Interconnector PL - SK	eustream, a.s.	2021	PL	SK	143.96 GWh/d
	Comment: Commissioning has been postponed to 12/2021				
	eustream, a.s.	2021	SK	PL	174.59 GWh/d
Comment: Commissioning has been postponed to 12/2021					

Sponsors	General Information	NDP and PCI Information
eustream, a.s. 100%	Promoter eustream,a.s. (a joint-stock company)	Part of NDP Yes (National Development Plan 2019-2028)
	Operator eustream, a.s.	NDP Number 4.1.1.1.-PL-SK gas interconnection
	Host Country Slovakia	NDP Release Date 30/11/2018
	Status In Progress	NDP Website NDP URL
	Website Project's URL	Currently PCI Yes (6.2.1 (2020))
		Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		05/2013	Considered TPA Regime	Regulated
Feasibility	05/2011	07/2013	Considered Tariff Regime	Regulated
FEED	10/2015	04/2019	Applied for Exemption	No
Permitting	08/2015	09/2018	Exemption Granted	No
Supply Contracts		12/2019		
FID		04/2018	Exemption in entry direction	0.00%
Construction	05/2018	12/2020	Exemption in exit direction	0.00%
Commissioning	2021	2021		
Grant Obtention Date	18/12/2017	18/12/2017		

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Slovak section	Existing compressor station at Veľké Kapušany will be modified in order to reach the most optimal technical solution without creation of stranded assets.	1,000	106	0	2021
Total			106	0	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Construction of new interconnection between markets enables new trade exchange between these two countries or even other countries in the region. This will force the markets into price convergence process – its effectiveness is dependent on the interconnector’s capacity relative to national consumptions and various trade barriers. Creating new transport routes and access to new gas sources lowers these prices and thus benefits all consumers on the market by lower prices. Most of the European countries are able to cover only a small or minimal fraction of their gas consumption by indigenous production. There is a large historical dependence on Russian supplies of gas which concentrates the risks mostly around one supply source. Considering gas as an energy source it is vitally important to diversify supply sources in order to prevent security risks. Robust infrastructure helps to mitigate these risks. Gas as a clean fossil fuel, with low emissions represents sustainable energy source.

Delays since last TYNDP	
Delay Since Last TYNDP	Yes
Delay Explanation	1) Necessity to prolong public procurement proceeding due to the request of tenderers for extension of time period for submission of the initial tender bids. 2) Prolongation of the tendering process caused by postponement of documentation submission by the winning bidder resulted in delay of detailed engineering. 3) Delay in deliveries of pipelines

Expected Gas Sourcing
Caspian Region, Norway, LNG (QA,US), Turkish hub, Adriatic and Black sea sources, Southern Corridor,

Benefits	
Main Driver	Others
Main Driver Explanation	1, Increase of SoS in the CEE region and potentially also in the Baltic region after constructing gas infrastructure between Poland and Baltic states Integration of gas infrastructure in the CEE region by constructing a currently missing cross-border interconnection between PL and SK. 2, Price convergence based on new gas supply sources and routes 3. Decrease of market concentration on producers side 4, Decrease of carbon emissions
Benefit Description	

Barriers	
Barrier Type	Description
Permit Granting	- Long term and difficult permitting process with regional counties - Project unfriendly approach by local citizens relating to acceptance of the Project with significant impact on land acquisition in spite of many public consultations and public meetings
Financing	Availability of funds and associated conditions
Market	Lack of market support
Regulatory	Low rate of return

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Agreement between the Government of the Slovak Republic and the Government of the Republic of Poland for cooperation on the implementation of the project of a gas pipeline connecting the Slovak transmission system and Polish transmission system	Intergovernmental agreement	Yes	22/11/2013

CBCA	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>
Submission Date	<i>31/10/2013</i>
Decision Date	<i>28/11/2014</i>
Website	<i>CBCA URL</i>
Countries Affected	<i>Czechia, Hungary, Poland, Slovakia, Ukraine</i>
Countries Net Cost Bearer	
Additional Comments	<i>CAPEX is modified because of a decision not to construct new compressor units at Velké Kapušany but to technologically modify the existing compressor station at Velké Kapušany. This will have a positive impact on CAPEX.</i>

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 2.2</i>
Grants for works	<i>Yes</i>
Grants for works amount	<i>Mln EUR 55.2</i>
Intention to apply for CEF	<i>No, we do not plan to apply</i>
Other Financial Assistance	<i>Yes</i>
Comments	<i>TEN – E : EU Commission Decision C (2012)8546 granting financial aid for the project "Study : Pre – feasibility study for the Gas Interconnector Poland – Slovakia (Identification of the business case and preparation of pre-feasibility study)" (action duration: 01.03.2011 – 31.05.2013).</i>
General Comments	

Enhancement of Latvia-Lithuania interconnection (Lithuania's part)

TRA-A-342	Project	Pipeline including CS	Non-FID
Update Date	30/01/2020		Non-Advanced
Description	The aim of the Project is to increase the capacity of the gas systems between Latvia and Lithuania, ensure safe and reliable natural gas supply and achieve more effective use of the infrastructure and better integration of the gas markets of the Baltic States, Finland and overall BEMIP region. In addition, better conditions will be provided for the region of the use of Latvia’s Inčukalns underground gas storage facility. After the implementation of the project, the capacity to Latvia will be increased up to 130.47 GWh/ day and to Lithuania up to 119.53 GWh/ day.		
PRJ Code - PRJ Name	PRJ-G-010 - Latvia - Lithuania interconnection		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Kiemenai	AB Amber Grid	2023	LV	LT	54.43 GWh/d
	AB Amber Grid	2023	LT	LV	62.87 GWh/d

Sponsors		General Information		NDP and PCI Information	
AB Amber Grid	100%	Promoter	AB Amber Grid	Part of NDP	Yes (Ten-Year Network Development Plan 2018-2027)
		Operator	AB Amber Grid	NDP Number	n/a
		Host Country	Lithuania	NDP Release Date	23/08/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (8.2.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	10/2017	09/2018	Considered Tariff Regime	Regulated
FEED	09/2018	04/2019	Applied for Exemption	No
Permitting	05/2019	01/2020	Exemption Granted	No
Supply Contracts		04/2023		
FID		10/2020	Exemption in entry direction	0.00%
Construction	10/2020	04/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The project will remove the exsisting bottleneck of supply limitations and create the adequate infrastructure to fully use the benefits of other infrastructure as well as contribute to the implementation of internal energy market of the Baltic States, Finland and overall BEMIP region. It will ensure safe and reliable supply of gas. The project will contribute to the enhancement of sustainable gas flow and increase of diversification of sources in the region.

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	Referring to the results of the Feasibility study for the project (carried out in 2018) the project's implementation time shedule has been adjusted accordingly.

Expected Gas Sourcing	
Russia, LNG (NO)	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Increased gas flows between Latvia and Lithuania.
Benefit Description	The enhancement of the bi-directional capacity between Latvia and Lithuania will increase the opportunities for a cross-border trade, higher usage of Latvia's UGS and ensure safe and reliable natural gas supply, flexibility of the transmission systems both in Lithuania and Latvia and better integration of the gas markets of the Baltic States, Finalnd and overall BEMIP region.

CBCA	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>
Submissin Date	<i>04/03/2019</i>
Decision Date	<i>30/05/2019</i>
Website	<i><u>CBCA URL</u></i>
Countries Affected	<i>Estonia, Finland, Latvia, Lithuania</i>
Countries Net Cost Bearer	<i>Latvia;#Lithuania</i>
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(2) Yes, we have applied for CEF, but we have not received a decision yet</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>Yes</i>
Grants for works amount	<i>Mln EUR 7.3</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Enhancement of Latvia-Lithuania interconnection (Latvian part)

TRA-A-382	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project is aimed at increase of the interconnection capacity between Latvia and Lithuania in order to secure necessary gas flows demanded by the market. On Latvian side it provides for increase of maximal operation pressure in the transmission system to 50 bar. This solution was selected as the most efficient by the feasibility study completed in 2018. On Lithuanian side it is planned to increase the capacity of Kiemenai metering station and adjust piping of Panevėžys gas compressor station. After compection of the project the interconnection capacity will reach 130.47 GWh/day from Lithuania to Latvia and 119.53 GWh/d from Latvia to Lithuania.		
PRJ Code - PRJ Name	PRJ-G-010 - Latvia - Lithuania interconnection		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Kiemenai	Conexus Baltic Grid	2023	LV	LT	54.43 GWh/d
	Conexus Baltic Grid	2023	LT	LV	62.87 GWh/d

Sponsors		General Information		NDP and PCI Information	
JSC "Conexus Baltic Grid"	100%	Promoter	JSC "Conexus Baltic Grid"	Part of NDP	No ((4) there is no obligation at national level for such a project to be part of the NDP)
		Operator	Conexus Baltic Grid		
		Host Country	Latvia	NDP Number	
		Status	Planned	NDP Release Date	
		Website	Project's URL	NDP Website	
				Currently PCI	Yes (8.2.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	10/2017	09/2018	Considered Tariff Regime	Regulated
FEED	06/2018	12/2020	Applied for Exemption	No
Permitting	06/2018	06/2022	Exemption Granted	No
Supply Contracts		08/2022		
FID		01/2020		
Construction	01/2020	06/2023	Exemption in entry direction	0.00%
Commissioning	2023	2023	Exemption in exit direction	0.00%
Grant Obtention Date	30/03/2018	30/03/2018		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Interconnection between Latvia and Lithuania is a bottleneck . By implementing this project regional market integration, security of supply and competition will be improved. In addition, upgrading of gas transmission system will reduce possible leaks, thus contributing towards susstanability

Delays since last TYNDP
Delay Since Last TYNDP
Delay Explanation

Expected Gas Sourcing
Russia, LNG ()

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Main driver of the project will be increased gas flows between Lithuania and Latvia.
Benefit Description	The enhancement of bi-directional capacity between Latvia and Lithuania could increase opportunities for cross-border trade, access to Incukalns UGS for Lithuania and Poland, security of supply, market integration, flexibility of gas transmission systems of Latvia and Lithuania etc.

Barriers	
Barrier Type	Description
Market	Lack of market maturity
Market	Lack of market support
Financing	Availability of funds and associated conditions

CBCA	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>
Submissin Date	<i>04/03/2019</i>
Decision Date	<i>30/05/2019</i>
Website	<u>CBCA URL</u>
Countries Affected	<i>Estonia, Finland, Latvia, Lithuania</i>
Countries Net Cost Bearer	<i>Lithuania</i>
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision;#(2) Yes, we have applied for CEF, but we have not received a decision yet</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>Yes</i>
Grants for works amount	<i>Mln EUR 7.3</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	<i>We have received funds from CEF for studies and have submitted application for works</i>

Balticconnector

TRA-F-895	Project	Pipeline including CS	FID
Update Date	22/11/2019		Advanced
Description	New bidirectional offshore pipeline (Inkoo-Paldiski, DN500, 80 bar) of 80 km, plus 55 km onshore pipeline in EE (Kiili-Paldiski pipeline, DN 700, 55 bar) and 20 km onshore pipeline in FI (Siuntio-Inkoo pipeline, DN500, 80 bar) including metering and compressor stations at both ends with a daily nominal capacity of 7.2 mcm/day. The power of each compressor station is about 10 MW.		
PRJ Code - PRJ Name	PRJ-G-011 - Interconnection Estonia – Finland		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Balticconnector / Paldiski (EE)	Elering AS	2019	EE	FI/BAC	32.00 GWh/d
	Comment: ntry/exit capacity will be approximately 40% of final capacity until the commissioning of Estonian compressor stations (until june 2020)				
	Elering AS	2019	FI/BAC	EE	32.00 GWh/d
	Comment: ntry/exit capacity will be approximately 40% of final capacity until the commissioning of Estonian compressor stations (until june 2020)				
	Elering AS	2020	EE	FI/BAC	48.00 GWh/d
	Comment: after compressor station commissioning entry/exit capacity will be 100%				
	Elering AS	2020	FI/BAC	EE	48.00 GWh/d
	Comment: after compressor station commissioning entry/exit capacity will be 100%				

Sponsors	General Information	NDP and PCI Information
EE Kiili pressure reduction station	Promoter	Part of NDP
Elering AS100%	Operator	Yes (EESTI GAASIÜLEKANDEVÕRGU ARENGUKAVA 2019-2028)
EE Kiili-Paldiski pipeline	Host Country	NDP Number
Elering AS100%	Status	paragraph 3.2
EE Paldiski metering and Compressor station	Website	NDP Release Date
Elering AS100%		03/03/2019
FI-EE Inkoo-Paldiski Offshore pipeline		NDP Website
Elering AS50%		NDP URL
		Currently PCI
		No
		Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime
Pre-Feasibility		12/2005	Considered TPA Regime
Feasibility	01/2006	12/2006	Regulated
FEED	01/2016	02/2016	Considered Tariff Regime
Permitting	12/2012	01/2019	Regulated
Supply Contracts		05/2018	Applied for Exemption
FID		10/2016	No
Construction	11/2017	12/2019	Exemption Granted
Commissioning	2019	2020	Not Relevant
Grant Obtention Date	21/10/2016	21/10/2016	Exemption in entry direction
			0.00%
			Exemption in exit direction
			0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
EE Onshore	Kiili-Paldiski onshore pipeline, Paldiski compressor station	700	55	10	0
Offshore	Inkoo-Paldiski offshore pipeline (Estonian section)	500	40		0
Total			95	10	

Delays since last TYNDP

Delay Since Last TYNDP
Delay Explanation

Expected Gas Sourcing

Russia, LNG (WO)

Benefits

Main Driver	Regulation-Interoperability
Main Driver Explanation	Balticconnector will lift Finland out of the current energy isolation and will provide Finland an opportunity to join in the European single gas market and to terminate the derogations on the EU gas market legislation.
Benefit Description	Project has several qualitative and quantitative benefits, such as inccrease in energy security, price convergence in the region, development of the energy market etc.

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>06/04/2016</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>22/04/2016</i>	Grants for studies amount	<i>Mln EUR 0.8</i>
Website	<i><u>CBCA URL</u></i>	Grants for works	<i>Yes</i>
Countries Affected	<i>Finland, Latvia</i>	Grants for works amount	<i>Mln EUR 98.0</i>
Countries Net Cost Bearer	<i>Estonia</i>	Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Balticconnector Finnish part

TRA-F-928	Project	Pipeline including CS	FID
Update Date	22/11/2019		Advanced
Description	New bidirectional offshore pipeline (Inkoo-Paldiski, DN500, 80 bar) of 80 km, plus 50 km onshore pipeline in Estonia (Kiili-Paldiski pipeline, DN 700, 55 bar) and 20 km onshore pipeline in Finland (Siuntio-Inkoo pipeline, DN500, 80 bar) including metering and compressor stations at both ends with a daily nominal capacity of 7.2 mcm/day. The power of each compressor station is about 10 MW.		
PRJ Code - PRJ Name	PRJ-G-011 - Interconnection Estonia – Finland		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Balticconnector / Siuntio (FI)	Baltic Connector Oy	2019	FI	FI/BAC	32.00 GWh/d
			Comment: The capacity will be 40 % (full capacity 80) until the Estonian compressor station is completed.		
	Baltic Connector Oy	2019	FI/BAC	FI	32.00 GWh/d
			Comment: The capacity will be 40 % (full capacity 80) until the Estonian compressor station is completed.		
	Baltic Connector Oy	2020	FI	FI/BAC	48.00 GWh/d
Balticconnector / Paldiski (EE)			Comment: New capacity increments after Estonian CS is completed with remaining capacity increment (60%)		
	Baltic Connector Oy	2020	FI/BAC	FI	48.00 GWh/d
			Comment: New capacity increments after Estonian CS is completed with remaining capacity increment (60%)		
Balticconnector / Paldiski (EE)	Baltic Connector Oy	2019	EE	FI/BAC	32.00 GWh/d

Comment: The capacity will be 40 % (full capacity 80) until the Estonian compressor station is completed.				
Baltic Connector Oy	2019	FI/BAC	EE	32.00 GWh/d
Comment: The capacity will be 40 % (full capacity 80) until the Estonian compressor station is completed.				
Baltic Connector Oy	2020	EE	FI/BAC	48.00 GWh/d
Comment: New capacity increments after Estonian CS is completed with remaining capacity increment (60%)				
Baltic Connector Oy	2020	FI/BAC	EE	48.00 GWh/d
Comment: New capacity increments after Estonian CS is completed with remaining capacity increment (60%)				

Baltconnector / Paldiski (EE)

Sponsors		General Information		NDP and PCI Information	
FI Inkoo metering and compressor station		Promoter	Baltic Connector Oy	Part of NDP	No ((2) no NDP exists in the country)
Baltic Connector OY	100%	Operator	Baltic Connector Oy	NDP Number	
FI Inkoo-Siuntio pipeline		Host Country	Finland	NDP Release Date	
Baltic Connector OY	100%	Status	In Progress	NDP Website	
FI-EE Inkoo-Paldiski Offshore pipeline		Website	Project's URL	Currently PCI	No
Baltic Connector OY	50%			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	01/2006	12/2006	Considered Tariff Regime	Regulated
FEED	01/2016	05/2017	Applied for Exemption	No
Permitting	12/2012	05/2018	Exemption Granted	No
Supply Contracts		10/2017		
FID		10/2016	Exemption in entry direction	0.00%
Construction	12/2017	12/2019	Exemption in exit direction	0.00%
Commissioning	2019	2020		
Grant Obtention Date	21/10/2016	21/10/2016		

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
FI Onshore	Inkoo-Siuntio pipeline, Inkoo compressor station	500	20	10	0
Offshore	Inkoo-Paldiski offshore pipeline (the whole pipeline is 80 km)	500	40		0
Total			60	10	

Delays since last TYNDP

Delay Since Last TYNDP
Delay Explanation

Expected Gas Sourcing

Russia, LNG (LT)

Benefits	
Main Driver	Regulation-Interoperability
Main Driver Explanation	Balticconnector will lift Finland out of the current energy isolation and will provide Finland an opportunity to join in the European single gas market and to terminate the derogations on the EU gas market legislation.
Benefit Description	Project has several qualitative and quantitative benefits, such as increase in energy security, price convergence in the region, development of the energy market etc.

CBCA	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>
Submissin Date	<i>06/04/2016</i>
Decision Date	<i>22/04/2016</i>
Website	<i>CBCA URL</i>
Countries Affected	<i>Finland, Latvia</i>
Countries Net Cost Bearer	<i>Estonia</i>
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 4.6</i>
Grants for works	<i>Yes</i>
Grants for works amount	<i>Mln EUR 89.5</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Gaspipeline Brod - Zenica

TRA-N-224	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Gaspipeline Brod-Zenica is the project that will enable new supply route for BiH providing diversified and reliable natural gas supply. Except for the above, the realization of the project will contribute to the development of the gas market in the northern part of Bosnia and Herzegovina. Gas pipeline route Brod Gas pipeline will be be-directional and together with the Project Southern Interconnection (TRA-N-851) will create a part of EC Gas Ring. Project is in connection with Project Slobodnica-Bosanski Brod (TRA-N-66) located in Croatia.		
PRJ Code - PRJ Name	PRJ-G-013 - North Interconnection of BiH and Croatia		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Slobodnica- Bosanski Brod-Zenica	BH Gas d.o.o.	2025	BA	HR	35.00 GWh/d
	Comment: Technical entry capacity from Croatia to BIH is 162 GWh/d				
	BH Gas d.o.o.	2025	HR	BA	162.00 GWh/d
Comment: Technical exit capacity from BIH to Croatia is 35 GWh/d					

Sponsors		General Information		NDP and PCI Information	
BH-Gas	100%	Promoter	BH-Gas d.o.o.	Yes (Framework Energy Strategy of BiH until 2035, 2018 and Strategic Plan and Program of FBiH, 2009)	
		Operator	BH Gas d.o.o.		
		Host Country	Bosnia Herzegovina	NDP Number	PTG1
		Status	Planned	NDP Release Date	29/08/2018
		Website	Project's URL	NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		02/2006	Considered TPA Regime	Not Applicable
Feasibility	01/2020	01/2021	Considered Tariff Regime	Regulated
FEED	02/2021	02/2022	Applied for Exemption	No
Permitting	02/2021	01/2023	Exemption Granted	No
Supply Contracts		01/2024		
FID		01/2022	Exemption in entry direction	0.00%
Construction	03/2024	09/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Brod-Zenica	Total length includes branches to the cities along the route	500	140	0	2025
Total			140	0	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	YES
Delay Explanation	Regarding the fact that the part of this project runs through Republic of Srpska Entity, the main obstacle is lack of political support of the RS official representatives, as well as lack of primary gas legislation at the state level in accordance with the Third Energy Package. Also,existing natural gas market is not able to cover assessed project cost related to preliminary activities.

Expected Gas Sourcing

Algeria, Caspian Region, Norway, Russia, LNG (HR), UGS in neighboring and other countries

Comments about the Third-Party Access Regime

It is expected that TPA regime and Tariff methodology will be covered by gas primary legislation, all in accordance with Third Package.

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Project will directly increase N-1 for Bosnia and Herzegovina and enable flexibility of the natural gas system in BiH.
Benefit Description	Project will enable route and supply source diversification for BiH as well as development of natural gas market and integration BiH gas market in regional gas network. Project will increase SoS for BiH (currently N-1=0). Project will enable introducing gas in energy consumption sector (residential, industrial and specially existing Oil refinery in Brod). Switching from traditional fuels to using natural gas means significant reducing CO2, SO2 and NOx emissions.

Barriers

Barrier Type	Description
Permit Granting	Projects runs through the two BiH entities and procedures of providing necessary consents and permits could need much time, having in mind that Competent authority did in BiH not formed yet.
Political	Lack of primary gas legislation in accordance with Third Energy Package, as well as consensus at the state level.
Financing	Availability of funds and associated conditions
Market	Lack of market support
Regulatory	Lack of proper transposition of EU regulation

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	MIn EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	MIn EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	No
		Comments	<i>Grant of 1 MEUR for FS, EIA, SIA and CBA was approved in WBIF round 6, Dec. 2011, but this grant was not relized, but it was withdrawn because of subsequent lack of the entity of Republic of Srpska support. Due to Measures Imposed to BiH by EnC Ministerial Council in Oct 2015, BH-Gas projects are not eligible for applying to WBIF.</i>
		General Comments	<i>Having in mind that BiH is not MS, but Energy Community Contracting Party, BH-Gas is not in possition to apply to CEF. Once if this criterium will be changed, we will use this opportunity.</i>

Interconnection Croatia -Bosnia and Herzegovina (Slobodnica- Bosanski Brod)

TRA-N-66	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	The pipeline covers the countries Croatia and Bosnia and Herzegovina and it will be the part of Energy Community Ring. The pipeline goes from Slavonski Brod (Slobodnica) in Croatia, it will cross the Sava river to Bosanski Brod in Bosnia and Herzegovina with further extension to Zenica.		
PRJ Code - PRJ Name	PRJ-G-013 - North Interconnection of BiH and Croatia		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Slobodnica- Bosanski Brod-Zenica	Plinacro Ltd	2025	BA	HR	162.00 GWh/d
	Plinacro Ltd	2025	HR	BA	162.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
B&H, Bosanski Brod - Zenica		Promoter	Plinacro Ltd	Part of NDP	Yes (2018-2027)
BH Gas	100%	Operator	Plinacro Ltd	NDP Number	1.15
Croatia, Slobodnica-Bosanski Brod (border)		Host Country	Croatia	NDP Release Date	15/12/2017
Plinacro	100%	Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	01/2020	01/2020	Considered Tariff Regime	Regulated
FEED	01/2020	01/2020	Applied for Exemption	No
Permitting	01/2020	01/2020	Exemption Granted	No
Supply Contracts		01/2021		
FID		01/2022	Exemption in entry direction	0.00%
Construction	01/2022	01/2023	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Slobodnica - Bosanski Brod		700	6		2024
Total			6		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	The start of the construction has been postponed until 2020.
Delay Explanation	Environmental impact assessment has expired. Environmental impact assessment of the project of the northern interconnection pipeline between Croatia and B&H shall be conducted again. Also, location permit for has expired as well. New request for the issuing of the location permit should be submit to the ralevant body.

Expected Gas Sourcing

Russia, LNG (HR)

Benefits

Main Driver	Market Demand
Main Driver Explanation	<p>This project is of great interest for the development of the natural gas sector in B&H, as its implementation would provide new route of supply B&H with gas, with a possibility of diversification of supply sources and increase in security of supply of the existing transportation system of B&H, and especially in the circumstances of the natural gas supply of the refineries Brod and Modrica and planned power plant (PP) Zenica and CCGT Kakanj, as well as the expansion of the market and increase in the competitiveness of natural gas. The construction of this gas pipeline would enable the B&H gas transmission system to connect with the Croatian gas transmission system through the pipeline from Slavonski Brod to Donji Miholjac, and then with the Hungarian pipeline. It will connect BH market to the new LNG in Croatia and Baumgarten via Slovenia.</p>
Benefit Description	<p>It will be new interconnection, new entry point and transmission route for the needs of BH; it will be SoS and diversification of supply route for Bosnia and Herzegovina. It will enable BH access to Croatian UGS. This project is an interconnection of the gas systems of Croatia and Bosnia and Herzegovina on the route Slobodnica-Brod-Zenica. The most important impacts and benefits of this project: 1. It provides viability and security of supply of Bosnia and Herzegovina; 2. It provides diversification of supply routes and sources for the market of Bosnia and Herzegovina; 3. It provides development of the gas market in Bosnia and Herzegovina; 4. Introducing an environmentally more acceptable energy source (replacement for firewood, coal, fuel oil and complementary generation to renewable energy, and the potential for new CCGT and PP); 5. Reducing CO2 and SO2 emissions in the B&H and region and facilitating economic development.</p>

Barriers

Barrier Type	Description
Political	<p>This project is politically very sensitive and depends on the agreement with Republika Srpska and agreements within B&H and its TSOs (BH Gas and GasRES)</p>

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of understanding	MoU between Plinacro and Bh Gas	No	27/04/2017
Memorandum of understanding	signed between Plinacro and BH Gas	Yes	26/06/2006
Letter of Intent	between Plinacro and BH Gas for all projects of interconnection	Yes	06/04/2011

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Southern Interconnection pipeline BiH/CRO

TRA-N-851	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Southern Interconnection pipeline BIH/CRO (Posusje-Novı Travnık with main branch to Mostar) is the project that will enable a new supply route for B&H providing a diversified and reliable natural gas supply such as LNG, Caspian, Middle East and other gas sources. Project will be bi-directional and together with realization of gas pipeline Brod - Zenica (TRA-N-224) will create a part of EC Gas Ring.		
PRJ Code - PRJ Name	PRJ-G-014 - South Interconnection of BiH and Croatia		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Posušje	BH Gas d.o.o.	2023	BA	HR	38.00 GWh/d
	Comment: Technical entry capacity from Croatia to BiH is 73 GWh/d				
	BH Gas d.o.o.	2023	HR	BA	73.00 GWh/d
Comment: Technical exit capacity from BiH to Croatia is 38 GWh/d					

Sponsors		General Information		NDP and PCI Information	
BH-Gas	100%	Promoter	BH-GAS d.o.o.	Yes (Framework Energy Strategy BiH until 2035, 2018 and Strategic Plan and Programme of FBiH, 2009)	
		Operator	BH Gas d.o.o.		
		Host Country	Bosnia Herzegovina		
		Status	Planned	NDP Number	No 10 in Framework Energy Strategy BiH until 2035 and PTG2 in SPP
		Website	Project's URL	NDP Release Date	29/08/2018
				NDP Website	NDP URL
				Currently PCI	No
			Priority Corridor(s)	SGC	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		10/2013	Considered TPA Regime	Not Applicable
Feasibility	08/2019	08/2020	Considered Tariff Regime	Regulated
FEED	08/2019	01/2021	Applied for Exemption	No
Permitting	08/2020	01/2022	Exemption Granted	No
Supply Contracts		02/2022		
FID		01/2021	Exemption in entry direction	0.00%
Construction	03/2022	09/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Posusje - Novi Travnik with branch to Mostar	Total lenght of main route Posusje - Novi Travnik is 114 km; Total lenght of branch to Mostar is 48 km.	500	162	0	2023
Total			162	0	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Algeria, Caspian Region, Norway, Russia, LNG (HR), UGS in neighboring and other countries

Comments about the Third-Party Access Regime

It is expected that TPA regime and Tariff methodology will be covered by gas primary legislation in accordance with Third Energy Package.

Benefits	
Main Driver	Others
Main Driver Explanation	Currently BiH gas system is isolated and depending of one supply route. With the realization of this Project, natural gas systems of BiH and Croatia will be interconnected. Main goal is to establish new supply route for BiH providing reliable and diversified natural gas supply increasing security of supply. Having in mind limited capacity and age of the existing supply route, South Interconnector in the near future could become the only supply route for Federation of BiH/BiH. Because of the urgency of realization of this Project, Government of Federation of BiH issued Conclusion V. No. 853/2017 on Strategic importance of the Project. Project is contained in Comprehensive Energy Strategy BiH 2035 which is adopted in August 2018.
Benefit Description	Capacity of the existing system is jeopardise by intetion to connect a new consumers in RS reducing gas quantities for FBiH. In this case consumers in Federation of BiH will directly depend on the realization of this project. Project will improve import route and supply source diversification. Lower usage of traditional fuels in energy consumption sectors (residential and industrial) means significant protection of BiH forestry and decreasing CO2, SO2 and NOx emissions.

Barriers	
Barrier Type	Description
Political	Lack of primary gas legislation in accordance with Third Energy Package.
Regulatory	Lack of proper transposition of EU regulation
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>Yes</i>
			<i>0,40 Million EUR from WBIF, PFS finalized in October 2013;</i>
			<i>0,141 Million EUR from CONNECTA, CBA finalized in May 2018,</i>
		Comments	<i>approx 0,418 Million EUR from USAID for FS and ESIA preparation, in progress</i>
			<i>approx 1,0 Million EUR for Preliminary Design and Tender Dossier from EC, in progress</i>
		General Comments	

Interconnection Croatia-Bosnia and Herzegovina (South)

TRA-A-302	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	South Interconnection of Croatia and B&H - the pipeline is a new supply route for Bosnia and Herzegovina that will enable the reliable and diversified natural gas supply. The pipeline will enable the flow of IAP to Bosnia and Herzegovina.		
PRJ Code - PRJ Name	PRJ-G-014 - South Interconnection of BiH and Croatia		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Posušje	Plinacro Ltd	2023	BA	HR	81.00 GWh/d
	Plinacro Ltd	2023	HR	BA	81.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Croatian part		Promoter	Plinacro Ltd	Part of NDP	Yes (2018-2027)
Plinacro d.o.o.	100%	Operator	Plinacro Ltd	NDP Number	1.13
parts in B&H		Host Country	Croatia	NDP Release Date	15/12/2017
BH Gas	100%	Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE, SGC

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		09/2013	Considered TPA Regime	Regulated
Feasibility	07/2017	05/2018	Considered Tariff Regime	Regulated
FEED	06/2021	05/2022	Applied for Exemption	No
Permitting	08/2014	05/2022	Exemption Granted	No
Supply Contracts		09/2022		
FID		06/2022		
Construction	10/2022	12/2023	Exemption in entry direction	0.00%
Commissioning	2023	2023	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Zagvozd-Imotski-Posušje		500	22		2023
Total			22		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region, Russia, LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	Market Demand and SoS for the Southern part of Bosnia and Herzegovina
Benefit Description	The aim of the project is to establish a new supply route for B&H providing a diversified and reliable natural gas supply.

Barriers

Barrier Type	Description
Financing	Availability of funds and associated conditions

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Letter of Intent	between Plinacro and BH Gas for all projects of interconnection	Yes	06/04/2011
Memorandum of Understanding	MoU between Plinacro and BH Gas	Yes	27/04/2017

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	Yes
Comments	<i>The Project is awarded by WBIF grant for the joint Prefeasibility Study in the total amount of 0,4 mil € and by CONNECTA grant for the joint CBA in the total amount of 0,141 mil €.</i>

General Comments

West Interconnection BiH/CRO

TRA-N-910	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Western interconnection BiH/CRO (Trzac-Bosanska Krupa with branches to Bihac and Velika Kladusa) is the project that together with the project Licka Jesenica - Rakovica (TRA-N-33) located in Croatia will connect BiH with existing Croatian gas transmission system and enable gasification of Una-Sana Canton in western Bosnia and Herzegovina.		
PRJ Code - PRJ Name	PRJ-G-015 - West Interconnection of BiH and Croatia		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Rakovica (HR) / Trzac (BA)	BH Gas d.o.o.	2026	BA	HR	73.00 GWh/d
	BH Gas d.o.o.	2026	HR	BA	73.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
BH-Gas	100%	Promoter	BH-Gas d.o.o.	Part of NDP	Yes (Framework Energy Strategy of BiH until 2035 and Strategic Plan and Programme of Development Energy Sector in FBiH 2009)
		Operator	BH Gas d.o.o.		
		Host Country	Bosnia Herzegovina		
		Status	Planned	NDP Number	No 11 - Framework Energy Strategy of BiH until 2035 and PTG4 - Strategic Plan and Program of Development Energy Sector in FBiH 2009
		Website	Project's URL		
				NDP Release Date	29/08/2018
				NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2008	Considered TPA Regime	Not Applicable
Feasibility	01/2020	01/2021	Considered Tariff Regime	Regulated
FEED	02/2021	02/2023	Applied for Exemption	No
Permitting	02/2021	03/2024	Exemption Granted	No
Supply Contracts		03/2025		
FID		03/2023	Exemption in entry direction	0.00%
Construction	03/2025	09/2026	Exemption in exit direction	0.00%
Commissioning	2026	2026		
Grant Obtention Date				

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Trzac - Bosanska Krupa	Additionally, branches to Bihac and Velika Kladusa in total lenght of 45 km with diameter 250 mm.	500	35	0	2026
Total			35	0	

Expected Gas Sourcing
Algeria, Caspian Region, Norway, Russia, LNG (HR), UGS in neighboring and other countries

Comments about the Third-Party Access Regime
It is expected that TPA regime and Tariff methodology will be covered by gas primary legislation in accordance with Third Package at least up to the end of 2016.

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Project will enable development of natural gas market in the western part of BiH.
Benefit Description	Project will enable development of the natural gas market in BiH. Lower usage of firewood in the energy consumption sector (residential and industrial) means significant protection of BiH forestry. Project will decrease CO2 emissions. Project will not cause any damaging environmental impact.

Barriers	
Barrier Type	Description
Political	Lack of primary gas legislation in accordance with Third Energy Package, as well as energy policy at the state level.
Regulatory	Lack of proper transposition of EU regulation
Financing	Availability of funds and associated conditions
Market	Lack of market support

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>MIn EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>MIn EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	<i>BH-Gas financed by its own funds Pre-fesibility Study developed in 2008.</i>
General Comments	<i>BH-Gas intends to apply to the available funds in order to provide necessary documentation such as FS, ESIA and Preliminary Design (WBIF)</i>

Interconnection Croatia-Bosnia and Herzegovina (west)

TRA-N-303	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Interconnection Croatia-Bosnia and Herzegovina on route Licka Jesenica-Rakovica in Croatia to border with Bosnia and Herzegovina. Bosnian part is from Trzac to Bosanska Krupa with branches to Bihać and Velika Kladusa.		
PRJ Code - PRJ Name	PRJ-G-015 - West Interconnection of BiH and Croatia		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Rakovica (HR) / Trzac (BA)	Plinacro Ltd	2026	BA	HR	81.00 GWh/d
	Plinacro Ltd	2026	HR	BA	81.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Croatian part		Promoter	Plinacro Ltd	Part of NDP	Yes (2018-2027)
Plinacro d.o.o.	100%	Operator	Plinacro Ltd	NDP Number	1.35 and 1.36
part in B&H		Host Country	Croatia	NDP Release Date	15/12/2018
BH Gas	100%	Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	02/2026	05/2026	Considered Tariff Regime	Regulated
FEED	05/2026	05/2027	Applied for Exemption	No
Permitting	05/2025	05/2027	Exemption Granted	No
Supply Contracts		11/2027		
FID		01/2027	Exemption in entry direction	0.00%
Construction	11/2027	11/2028	Exemption in exit direction	0.00%
Commissioning	2026	2026		
Grant Obtention Date				

Pipelines and Compressor Stations							
Pipeline Section		Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Lička Jesenica-Rakovica				500	20		2028
Rakovica-Bihać				500	10		2028
Total					30		

Expected Gas Sourcing

Caspian Region, LNG (HR,QA)

Benefits	
Main Driver	Market Demand
Main Driver Explanation	For the western part of Bosnia and Herzegovina
Benefit Description	The aim of the project is to assess the feasibility of providing gas supply to the Una-Sana Canton in BiH from the Croatian gas transmission system. It will be from the Lička Jesenica gas transmission node in Croatia via Lika to the HR/BiH border and from there to Bosanska Krupa with brances to Bihać and velika Kladuša in Una-Sana Canton. The extension of the gas transmission in Croatia to the border with BiH will allow additional gasification in the part of Croatia along the pipeline route.

Barriers	
Barrier Type	Description
Market	Lack of market maturity
Market	Lack of market support

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Letter of Intent	between Plinacro and BH Gas for all projects of interconnection	Yes	06/04/2011

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Gas Interconnection Poland-Lithuania (GIPL) (Lithuania's section)

TRA-F-341	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	The project is aimed to establish a well-functioning new bidirectional interconnection between the Polish and Lithuanian gas transmission systems to integrate the isolated gas markets of the Baltic States and Finland into the EU gas grid, by introducing an alternative gas supply route to the Baltic States. By implementing the project a 165 km-long and 700 mm-diameter pipeline and gas pressure reduction and metering station will be constructed on Lithuania's side.		
PRJ Code - PRJ Name	PRJ-G-017 - Gas Interconnection Poland-Lithuania (GIPL)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Interconnector PL-LT	AB Amber Grid	2021	LT	PL	58.30 GWh/d
	AB Amber Grid	2021	PL	LT	73.90 GWh/d

Sponsors	General Information		NDP and PCI Information	
AB Amber Grid	100%	Promoter	AB Amber Grid	Part of NDP
		Operator	AB Amber Grid	Yes (Network Development Plan 2018-2027)
		Host Country	Lithuania	NDP Number
		Status	In Progress	n/a
		Website	Project's URL	NDP Release Date
				23/08/2018
				NDP Website
				Currently PCI
				Yes (8.5 (2020))
				Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2012	Considered TPA Regime	Regulated
Feasibility	02/2012	02/2013	Considered Tariff Regime	Regulated
FEED	05/2015	09/2016	Applied for Exemption	No
Permitting	07/2016	09/2016	Exemption Granted	No
Supply Contracts		06/2021		
FID		05/2018	Exemption in entry direction	0.00%
Construction	11/2019	06/2021	Exemption in exit direction	0.00%
Commissioning	2021	2021		
Grant Obtention Date	15/10/2015	15/10/2015		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Border PL/LT - Jauniunai		700	165		0
Total			165		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	It is one of the key projects in the area of infrastructure providing security of supplies, being of significant importance for the energy security of the EU. The project will contribute to the sustainability as well as increase of competirion and diversification of the sources in the region.

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	It will integrate gas markets of the Baltic states and Finland into a common EU gas market, diversify access to alternative gas supply sources, routes, counterparties and increase of competition, enhance security and reliability of gas supply – both in terms of additional interconnection capacity and possibility to apply solidarity measures between Member States of the EU in case of emergency, enable more flexible and efficient use of LNG terminals and transmission infrastructure in Poland and Lithuania, and increase the liquidity of gas trade in the Polish and Baltic trade zones as well as strengthen their regional role.

CBCA	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>
Submissin Date	<i>31/10/2013</i>
Decision Date	<i>11/08/2014</i>
Website	<u>CBCA URL</u>
Countries Affected	<i>Estonia, Latvia, Lithuania</i>
Countries Net Cost Bearer	<i>Poland</i>
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 2.5</i>
Grants for works	<i>Yes</i>
Grants for works amount	<i>Mln EUR 57.9</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Gas Interconnection Poland-Lithuania (GIPL) - PL section

TRA-F-212	Project	Pipeline including CS	FID
Update Date	03/08/2020		Advanced
Description	GIPL aims to connect the gas transmission systems in Poland and Lithuania and, consequently, enable the integration of the isolated gas markets in the Baltic States (and Finland) with the Polish and EU gas markets. This will contribute to the creation of a regional gas market, enhancement of competition and the security of gas supply. The project will also provide an access to the global LNG market for the Baltic States via the LNG terminal in Świnoujście. The construction of GIPL, except the above benefits for security and diversification of gas supplies in the Baltic region, will also allow to connect the Baltic States to the CEE countries, thus providing strategic link between the BEMIP and North-South East priority corridors. The scope of the project on the Polish side covers Hołowczyce - PL-LT border pipeline, CS Gustorzyn and modernization of CS Hołowczyce.		
PRJ Code - PRJ Name	PRJ-G-017 - Gas Interconnection Poland-Lithuania (GIPL)		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Interconnector PL-LT	GAZ-SYSTEM S.A.	2021	LT	PL	58.30 GWh/d
	GAZ-SYSTEM S.A.	2021	PL	LT	73.90 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gas Transmission Operator GAZ-SYSTEM S.A.	100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	Yes (National Ten-Year Transmission System Development Plan 2018-2027)
		Operator	GAZ-SYSTEM S.A.	NDP Number	N/A
		Host Country	Poland	NDP Release Date	
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (8.5 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	12/2016	09/2017
FEED	06/2015	11/2019
Permitting	12/2015	10/2019
Supply Contracts		
FID		05/2018
Construction	09/2019	06/2021
Commissioning	2021	2021
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations						
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Gustorzyn					16	0
CS Hołowczyce - modernization						0
GIPL - Polish section			700	343		0
Total				343	16	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Market integration: - Completing a missing interconnection between PL and LT; - Connection of the gas markets in the East Baltic region with the continental gas market, lifting the isolation of the East Baltic region; - Creation of a well-integrated and functioning market in the East Baltic region. SoS: - Access to new sources of supply in the Baltic States and FI; - Mitigation of exposure to supply disruption via BY in the Baltic States; - Diversification of supply sources, routes and counterparts by bringing EU spot gas and NO supplies to the Baltic States and FI; - Reduction of dependence on gas supplies from RU in the Baltic States and FI. Competition: - Reduction of price differences between the East Baltic region and North-West regions. Sustainability: - Reduction of emissions in PL and the East Baltic region by promoting natural gas in national economies.

Delays since last TYNDP	
Delay Since Last TYNDP	Yes
Delay Explanation	

Benefits	
Main Driver	Others
Main Driver Explanation	Regulation SoS, market integration, sustainability
Benefit Description	The objective of the project is the integration of the isolated gas markets of the Baltic States into the EU gas grid by introducing an alternative gas supply route to the Baltic States. This interconnection will diversify the gas supply sources, increase the security of supply and enhance competition on the gas market in the Baltic States. For the Baltic States, GIPL will provide the access both to EU gas spot market and to the global LNG market via LNG terminal in Świnoujście. The implementation of the project will also contribute to creating better conditions for the use of the Latvian Inčukalns UGS for Lithuania's and, in future, for Poland's gas market participants. Also through GIPL, gas could be supplied to currently non-gasified areas in Poland and Lithuania.

Barriers	
Barrier Type	Description
Permit Granting	Efficient permitting procedures are necessary for timely implementation of the project.
Political	Lack of guarantees of covering entire project costs when the project is not commercially viable in all market scenarios (SoS project).
Others	Lack of guarantees of covering entire project costs when the project is not commercially viable in all market scenarios (SoS project). Risk of the lack of interest in capacity booking in the first period of operation due to immaturity of the gas markets in the Baltic States.
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>31/10/2013</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>11/08/2014</i>	Grants for studies amount	<i>Mln EUR 8.0</i>
Website	<i>CBCA URL</i>	Grants for works	<i>Yes</i>
Countries Affected	<i>Estonia, Latvia, Lithuania</i>	Grants for works amount	<i>Mln EUR 240.3</i>
Countries Net Cost Bearer	<i>Poland</i>	Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
			<i>TEN-E: Study: Identification of the business case and feasibility study for the Gas Interconnection Poland-Lithuania.</i>
		Comments	<i>TEN-E: Environmental Impact Assessment documentation up to environmental decision obtainment for the Gas Interconnection Poland - Lithuania.</i>
		General Comments	

Additional transport of gas volumes to the Netherlands

TRA-A-808	Project	Pipeline including CS	Non-FID
Update Date	25/08/2020		Non-Advanced
Description	<p>This Project extends the capacity towards the Netherlands via the new IP Zone Oude (H). This extension is an output of the incremental capacity process and divided into two offer level.</p> <p>In the first expansion step the capacities were reallocated from the IP "Bunde (DE) / Oude Statenzijl (H) (NL) (GUD)" to the Zone Oude Statenzijl (H) which is described in the project: "Reallocation H-Gas towards NL: Bunde/Oude to Zone Oude Statenzijl H" (TRA-N-809).</p> <p>The measure is an optimization of the GUD export infrastructure.</p> <p>The new IP offers the potential to increase the capacity with moderate technical measures.</p>		
PRJ Code - PRJ Name	PRJ-G-018 - Additional capacity at Oude Statenzijl from Germany to the Netherlands		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Zone Oude Statenzijl H	Gasunie Deutschland Transport Services GmbH	2025	DEg	IB-NLg	175.20 GWh/d
Comment: Offer Level 1					

Sponsors		General Information		NDP and PCI Information	
Compressor station Holtum - Reverse flow (only offer level 2)		Promoter	Gasunie Deutschland Transport Services GmbH	Part of NDP	No ((1) the NDP was prepared at an earlier date and the project will be proposed for inclusion in the next NDP)
Gasunie Deutschland Transport Services GmbH	62%	Operator	Gasunie Deutschland Transport Services GmbH	NDP Number	
Open Grid Europe GmbH	38%	Host Country	Germany	NDP Release Date	
Expansion Measurement Station Emden (Knock)		Status	Planned	NDP Website	No
Gasunie Deutschland Transport Services GmbH	100%	Website		Currently PCI	
Expansion Measurement Station Folmhusen				Priority Corridor(s)	
Gasunie Deutschland Transport Services GmbH	100%				

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	01/2017	01/2017
FEED	01/2017	01/2018
Permitting	01/2018	07/2019
Supply Contracts		
FID		
Construction		
Commissioning	2025	2025
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Expected Gas Sourcing

Russia

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Increase of Gas Transport to the Netherlands

TRA-A-496	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	For security of supply reasons additional Gas volumes and capacities at the Dutch - German border are needed. Further earthquakes in the Netherlands force a reduction of the dutch L-Gas production. This could decrease the security of the german L-Gas supply. Additional H-gas volumes could be blended in the Netherlands and provided as L-gas to Germany. The closure of an H-Gas underground storage in the Netherlands reduces the dutch H-Gas capacity. The dutch demand could be covered by an earlier realizazion of the incremental capacity offer level 1 for the border GP-TTF.		
PRJ Code - PRJ Name	PRJ-G-018 - Additional capacity at Oude Statenzijl from Germany to the Netherlands		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Zone Oude Statenzijl H	Gasunie Deutschland Transport Services GmbH	2022	DEg	IB-NLg	175.20 GWh/d

Sponsors	General Information		NDP and PCI Information	
Promoter	Gasunie Deutschland Transport Service GmbH	Part of NDP	No ((1) the NDP was prepared at an earlier date and the project will be proposed for inclusion in the next NDP)	
Operator	Gasunie Deutschland Transport Services GmbH	NDP Number		
Host Country	Germany	NDP Release Date		
Status	Planned	NDP Website		
Website		Currently PCI		
		Priority Corridor(s)	No NSIW	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	01/2017	01/2017	Considered Tariff Regime	Regulated
FEED	01/2017	01/2018	Applied for Exemption	No
Permitting	01/2018	01/2019	Exemption Granted	No
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Fulfilled Criteria	
Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing
Norway, Russia

Benefits	
Main Driver	Others
Main Driver Explanation	Further earthquakes in the Netherlands force a reduction of the L-Gas production. This could decrease the security of the german L-Gas supply. Additional H-gas volumes could be blended in the Netherlands and provided as L-gas to Germany. The closure of an H-Gas underground storage in the Netherlands reduces the dutch H-Gas capacity.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Reallocation H-Gas towards NL: Bunde/Oude to Zone Oude Statenzijl H

TRA-N-809	Project	Pipeline including CS	Non-FID
Update Date	10/10/2019		Non-Advanced
Description	This project reallocates the H-Gas exit capacity towards the netherlands from the IP "Bunde/Oude (H)" to the IP "Zone Oude Statenzijl H". The operating licence for the compressor station Bunde will exceed due to emission law at the end of 2024. An overhaul of the station/ the compressor units or a new construction of the units becomes necessary. In order to avoid an overhaul or a new build of the compressor station, the gas will be provided via Emden (Zone Oude). This alternative routing will be realized by three smaller projects in GUD grid. The implementation of these projects is a requirement for the projects regarding the Incremental capacity process: TRA-N-496 & TRA-N-808.		
PRJ Code - PRJ Name	PRJ-G-018 - Additional capacity at Oude Statenzijl from Germany to the Netherlands		

Capacity Increments Variant For Modelling					
Variant : Reallocation SOS		Reallocation of Capacities Exit NL NDP for SOS case			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Bunde (DE) / Oude Statenzijl (H) (NL) (GUD)	Gasunie Deutschland Transport Services GmbH	2022	DEg	IB-NLg	-57.30 GWh/d
Zone Oude Statenzijl H	Gasunie Deutschland Transport Services GmbH	2022	DEg	IB-NLg	57.30 GWh/d
Capacity Increments Variant(s) For Information Only					
Variant : Reallocation		Reallocation of Capacities Exit NL NDP			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Bunde (DE) / Oude Statenzijl (H) (NL) (GUD)	Gasunie Deutschland Transport Services GmbH	2025	DEg	IB-NLg	-57.30 GWh/d
Comment: Timeline NDP					
Zone Oude Statenzijl H	Gasunie Deutschland Transport Services GmbH	2025	DEg	IB-NLg	57.30 GWh/d
Comment: Timeline NDP					

Sponsors		General Information		NDP and PCI Information	
Compressor Station Rysum - Reverse Flow		Promoter	<i>Gasunie Deutschland Transport Services GmbH</i>	Part of NDP	<i>Yes (Netzentwicklungsplan Gas 2018-2028)</i>
<i>Gasunie Deutschland Transport Services GmbH</i>	73%				
<i>Thyssengas GmbH</i>	27%	Operator	<i>Gasunie Deutschland Transport Services GmbH</i>	NDP Number	<i>ID504-01a; ID504-01b; ID504-01c</i>
Measuring Station Folmhusen - Reverse Flow		Host Country	<i>Germany</i>	NDP Release Date	<i>20/03/2019</i>
<i>Gasunie Deutschland Transport Services GmbH</i>	100%	Status	<i>Planned</i>	NDP Website	<i>NDP URL</i>
New IP Knock (Zone Oude)		Website		Currently PCI	<i>No</i>
<i>Gasunie Deutschland Transport Services GmbH</i>	100%			Priority Corridor(s)	<i>NSIW</i>

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		<i>01/2016</i>	Considered TPA Regime	<i>Regulated</i>
Feasibility	<i>06/2016</i>	<i>12/2016</i>	Considered Tariff Regime	<i>Regulated</i>
FEED			Applied for Exemption	<i>No</i>
Permitting			Exemption Granted	<i>Not Relevant</i>
Supply Contracts				
FID			Exemption in entry direction	<i>0.00%</i>
Construction			Exemption in exit direction	<i>0.00%</i>
Commissioning	<i>2022</i>	<i>2022</i>		
Grant Obtention Date				

Fulfilled Criteria	
Specific Criteria Fulfilled	<i>Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes</i>
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Norway, Russia

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Additional import at Oude StatenZijl area

TRA-N-873	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	This projects enables additional flow at the interconnection point between TTF and Gaspool. Investment measures are foreseen at Emden. Project is part of the incremental capacity process 2017.		
PRJ Code - PRJ Name	PRJ-G-018 - Additional capacity at Oude Statenzijl from Germany to the Netherlands		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Virtual Ips (GTS) NL-DE (Gaspool)	Gasunie Transport Services B.V.	2022	IB-NLg	NL	228.00 GWh/d
	Gasunie Transport Services B.V.	2025	IB-NLg	NL	60.00 GWh/d
Zone Oude Statenzijl H	Gasunie Transport Services B.V.	2022	DEg	IB-NLg	228.00 GWh/d
	Gasunie Transport Services B.V.	2025	DEg	IB-NLg	60.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gasunie Transport Services B.V.	100%	Promoter	Gasunie Transport Services B.V.	Part of NDP	Yes (Netwerk Ontwikkelingsplan 2017)
		Operator	Gasunie Transport Services B.V.	NDP Number	6.5.4.
		Host Country	Netherlands	NDP Release Date	30/11/2017
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	NSIW

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		08/2019	Considered TPA Regime	Regulated
Feasibility	08/2019	10/2019	Considered Tariff Regime	Regulated
FEED	01/2020	12/2021	Applied for Exemption	No
Permitting	01/2021	12/2022	Exemption Granted	Not Relevant
Supply Contracts		12/2024		
FID		07/2019	Exemption in entry direction	0.00%
Construction	02/2025	04/2025	Exemption in exit direction	0.00%
Commissioning	2022	2025		
Grant Obtention Date				

Fulfilled Criteria	
Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

H-gas exit OSZ GTG Nord

TRA-F-307	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	Due to the reduction of production from the Groningen field, L-gas export from the Netherlands to Germany is reduced. This projects enables the flow of H-gas via the existing L-gas border station Oude Statenzijl. This project is linked to a initiative of GTG Nord. Capacity will not be available separately, but will be marketed through a VIP as of the start of operations		
PRJ Code - PRJ Name	PRJ-G-018 - Additional capacity at Oude Statenzijl from Germany to the Netherlands		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Bunde (DE) / Oude Statenzijl (H) (NL) (GTG Nord)	Gasunie Transport Services B.V.	2020	IB-NLg	DEg	25.40 GWh/d
	Gasunie Transport Services B.V.	2027	IB-NLg	DEg	76.20 GWh/d
Virtual Ips (GTS) NL-DE (Gaspool)	Gasunie Transport Services B.V.	2020	NL	IB-NLg	25.40 GWh/d
	Gasunie Transport Services B.V.	2027	NL	IB-NLg	76.20 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	Gasunie Transport Services B.V.	Part of NDP	Yes (Netwerk Ontwikkelingsplan 2017)
	Operator	Gasunie Transport Services B.V.	NDP Number	6.5.1
	Host Country	Netherlands	NDP Release Date	
	Status	Planned	NDP Website	NDP URL
	Website		Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	11/2017	02/2018	Considered Tariff Regime	Regulated
FEED	04/2018	12/2018	Applied for Exemption	No
Permitting	05/2019	09/2019	Exemption Granted	No
Supply Contracts		08/2019		
FID		02/2019		
Construction	10/2019	01/2020	Exemption in entry direction	0.00%
Commissioning	2020	2027	Exemption in exit direction	0.00%
Grant Obtention Date				

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Due to the reduction of production from the Groningen field, L-gas export from the Netherlands to Germany is reduced. This projects enables the flow of H-gas via the existing L-gas border station Oude Statenzijl. This project is linked to a initiative of GTG Nord.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Transferring L-gas infrastructure to H-gas

TRA-N-882	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Due to the reduction of production from the Groningen field, L-gas export from the Netherlands to Germany is reduced. This projects enables the flow of H-gas via the existing L-gas border station Oude Statenzijl. Other IPs may follow in the future. This project is linked to an initiative of Gasunie Deutschland. For GTG nord had been submitted separately, as this project has already taken FID		
PRJ Code - PRJ Name	PRJ-G-018 - Additional capacity at Oude Statenzijl from Germany to the Netherlands		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Bunde (DE) / Oude Statenzijl (H) (NL) (GUD)	Gasunie Transport Services B.V.	2020	IB-NLg	DEg	57.30 GWh/d
	Gasunie Transport Services B.V.	2030	IB-NLg	DEg	135.00 GWh/d
Virtual Ips (GTS) NL-DE (Gaspool)	Gasunie Transport Services B.V.	2020	NL	IB-NLg	57.30 GWh/d
	Gasunie Transport Services B.V.	2030	NL	IB-NLg	135.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gasunie Transport Services	100%	Promoter	Gasunie Transport Services B.V.	Part of NDP	Yes (Netwerk Ontwikkelingsplan 2017)
		Operator	Gasunie Transport Services B.V.	NDP Number	6.5.1
		Host Country	Netherlands	NDP Release Date	
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2020	2030
Grant Obtention		
Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Due to the reduction of production from the Groningen field, L-gas export from the Netherlands to Germany is reduced. This projects enables the flow of H-gas via the existing L-gas border station Oude Statenzijl. Other IPs may follow in the future. This project is linked to an initiative of Gasunie Deutschland.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Baltic Pipe project – onshore section in Denmark

TRA-A-780	Project	Pipeline including CS	Non-FID
Update Date	24/01/2020		Advanced
Description	Reinforcement of the Danish Transmission System for transporting approx. 10 bcm/year from Norrwegian tie-in to the Danish upstream system (TRA-N-394) to the Baltic Pipe entry/exit point in DK. The project consists of construction of a new onshore pipeline from Egtved to the Little Belt, construction of a new offshore pipeline across the Little Belt, construction of a new pipeline over Fyn from the Little Belt to Nyborg, construction of a new pipeline on Zealand from Kongsmark to the Baltic Sea offshore landfall at the southeastern part of Zealand and a compressor station on Zealand. - Former project name: "Nybro-Interconnector PL-DK - reinforcement" - The project TRA-N-428 "(Mirror) Baltic Pipe" is included in this project.		
PRJ Code - PRJ Name	PRJ-G-021 - Baltic Pipe Project		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Interconnector PL-DK	Energinet	2022	DK	PL	306.80 GWh/d
	Energinet	2022	PL	DK	91.10 GWh/d

Sponsors		General Information		NDP and PCI Information	
Energinet	100%	Promoter	Energinet	Part of NDP	No ((2) no NDP exists in the country)
		Operator	Energinet	NDP Number	
		Host Country	Denmark	NDP Release Date	
		Status	Planned	NDP Website	
		Website	Project's URL	Currently PCI	Yes (8.3.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	09/2015	12/2016	Considered Tariff Regime	Regulated
FEED	06/2018	02/2020	Applied for Exemption	No
Permitting	12/2017	07/2019	Exemption Granted	No
Supply Contracts		10/2017		
FID		11/2018	Exemption in entry direction	0.00%
Construction	03/2020	10/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Baltic Pipe project – onshore section in Denmark		1,000	210	36	2022
Total			210	36	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Market integration: - Creation of a well-integrated and functioning market in the West Baltic region; - Completing a missing interconnection between PL and DK. SoS: - Diversification of supply sources, routes and counterparts by bringing Norwegian gas to the West Baltic and CEE regions and by allowing to import gas from the LNG terminal in Świnoujście in DK and SE; - Reduction of dependence on a single supply source in the CEE region; - Mitigation of exposure to supply disruption in the West Baltic and CEE regions; - Mitigation of negative impact linked to decreasing indigenous production in DK. Competition: - Reduction of price differences between the BEMIP and North-West regions. Sustainability: - Reduction of emissions in the BEMIP and CEE regions by promoting natural gas in national economies.

Expected Gas Sourcing

Norway

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Regulatory	Limitations on duration of capacity contracts (15 years) increase project risks and thus impact investment incentives for project promoters.
Permit Granting	All necessary permits from relevant authorities in several countries should be granted in time.

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>27/10/2017</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>27/02/2018</i>	Grants for studies amount	<i>Mln EUR 0.0</i>
Website	<i>CBCA URL</i>	Grants for works	<i>No</i>
Countries Affected	<i>Denmark, Poland, Sweden</i>	Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
	<i>The Danish NRA (DERA) approved the CBCA on the 27 February 2018. The Polish NRA (URE) approved the CBCA on the 12 March 2018.</i>	Other Financial Assistance	<i>No</i>
	<i>The Danish decision can be found here:</i>	Comments	
Additional Comments	<i>http://energitilsynet.dk/gas/afgoerelser/tilsynsafgoerelser/2018/godkendelse-af-omkostningsfordelingen-mellem-polen-og-danmark-for-baltic-pipe-projektet/</i>	General Comments	
	<i>The Polish decision can be found here:</i>		
	<i>https://bip.ure.gov.pl/bip/taryfy-i-inne-decyzje/inne-decyzje-informacj/3634,Inne-decyzje-informacje-sprawozdania-opublikowane-w-2018-r.html?search=3253</i>		

Poland - Denmark interconnection (Baltic Pipe) - offshore section

TRA-A-271	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>The projects in the group aim at connecting the gas transmission systems in Poland and Denmark with a view of transporting Norwegian gas to the countries in the Baltic Sea region and Central-Eastern Europe. The project will also bring the opportunity for the Danish and Swedish markets to diversify their supply potential (deliveries of LNG from the terminal in Świnoujście) in the context of declining production in the Danish part of the North Sea.</p> <p>The project is composed of the following investments that are mutually dependent and hence each necessary for the benefits and realization of the Baltic Pipe project: Baltic Pipe (offshore section); onshore receiving terminal in Poland; onshore pipeline connecting the offshore pipeline with the transmission system.</p>		
PRJ Code - PRJ Name	PRJ-G-021 - Baltic Pipe Project		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Interconnector PL-DK	GAZ-SYSTEM S.A.	2022	DK	PL	306.80 GWh/d
	GAZ-SYSTEM S.A.	2022	PL	DK	91.10 GWh/d

Sponsors		General Information		NDP and PCI Information	
GAZ-SYSTEM S.A.	100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	Yes (National Ten-Year Transmission System Development Plan 2018-2027)
		Operator	GAZ-SYSTEM S.A.	NDP Number	N/A
		Host Country	Poland	NDP Release Date	
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (8.3.2 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	03/2016	01/2017	Considered Tariff Regime	Regulated
FEED	08/2017	11/2019	Applied for Exemption	No
Permitting	08/2017	04/2020	Exemption Granted	Not Relevant
Supply Contracts				
FID		11/2018	Exemption in entry direction	0.00%
Construction	04/2020	09/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date	15/04/2019	15/04/2019		

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Baltic Pipe (offshore section)	The length ie estiamated between 260 -310km	900	280		0
Onshore pipeline connecting offshore pipeline with the national grid		1,000	40		0
Onshore receiving terminal in Poland					0
Total			320		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Market integration: - Creation of a well-integrated and functioning market in the West Baltic region; - Completing a missing interconnection between PL and DK. SoS: - Diversification of supply sources, routes and counterparts by bringing Norwegian gas to the West Baltic and CEE regions and by allowing to import gas from the LNG terminal in Świnoujście in DK and SE; - Reduction of dependence on a single supply source in the CEE region; - Mitigation of exposure to supply disruption in the West Baltic and CEE regions; - Mitigation of negative impact linked to decreasing indigenous production in DK. Competition: - Reduction of price differences between the BEMIP and North-West regions. Sustainability: - Reduction of emissions in the BEMIP and CEE regions by promoting natural gas in national economies.

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	

Benefits	
Main Driver	Others
Main Driver Explanation	Regulation SoS, market integration and competition, sustainability
Benefit Description	Baltic Pipe will have a significant impact on: increasing security of supply in the CEE and Baltic Sea regions by diversifying supply routes, sources and counterparts; creating well-interconnected gas infrastructure in the Baltic Sea region; enhancing competition on the regional markets (CEE and the Baltic region); promoting natural gas as a reliable, competitive and environmentally-friendly source of energy e.g. in the power generation and transport sectors. Baltic Pipe contributes also to the NSI EAST and BEMIP priority corridors, as the project will allow to transport gas from North Sea deposits to the CEE countries, namely to the CZ, SK and UA (via the North-South corridor in Poland, PL-CZ, PL-SK and PL-UA interconnections) and to the Baltic region (via GIPL to the East Baltic region). Since the project is bidirectional it will also provide the security of supply benefits for DK and SE (access to LNG).

Barriers	
Barrier Type	Description
Permit Granting	Efficient permitting procedures are necessary for timely implementation of the project.

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>27/10/2016</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>12/03/2018</i>	Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>Yes</i>
			<i>TEN-E: "Baltic Pipe - Gas pipeline from Denmark to Poland - Pre-investment studies and authority process"</i>
		Comments	<i>TEN-E: "Baltic Pipe - Gas pipeline from Denmark to Poland – Geotechnical offshore survey, environmental monitoring programme and onshore gas quality study and receiving terminal in Poland"</i>
		General Comments	

Poland - Denmark interconnection (Baltic Pipe) - onshore section in Poland

TRA-A-1173	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	The project aims at connecting the gas transmission systems in Poland and Denmark with a view of transporting Norwegian gas to the countries in the Baltic Sea region and Central-Eastern Europe. The project will also bring the opportunity for the Danish and Swedish markets to diversify their supply potential (deliveries of LNG from the terminal in Świnoujście) in the context of declining production in the Danish part of the North Sea. The project is composed of the following investments that are mutually dependent and hence each necessary for the benefits and realization of the Baltic Pipe project: Goleniów – Lwówek pipeline, CS Gustorzyn, CS Goleniów, CS Odolanów.		
PRJ Code - PRJ Name	PRJ-G-021 - Baltic Pipe Project		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Aggregated Distribution (PL)	GAZ-SYSTEM S.A.	2022	DScPL	PL	0.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
Gas Transmission Operator GAZ-SYSTEM S.A. 100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	Yes (National Ten-Year Transmission System Development Plan 2018-2020)
	Operator	GAZ-SYSTEM S.A.	NDP Number	N/A
	Host Country	Poland	NDP Release Date	
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	Yes (8.3.2 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	03/2016	01/2017
FEED	12/2017	02/2020
Permitting	12/2017	01/2020
Supply Contracts		
FID		11/2018
Construction	08/2020	09/2022
Commissioning	2022	2022
Grant Obtention Date	15/04/2019	15/04/2019

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations						
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Goleniów					12	0
CS Gustorzyn					15	0
CS Odolanów					14	0
Goleniów – Lwówek pipeline			1,000	191		0
Total				191	41	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The project is an internal enabler for the Baltic Pipe project - offshore section. The implementation of the project will have an impact on: Market integration: - Creation of a well-integrated and functioning market in the West Baltic region; - Completing a missing interconnection between PL and DK. SoS: - Diversification of supply sources, routes and counterparts by bringing Norwegian gas to the West Baltic and CEE regions and by allowing to import gas from the LNG terminal in Świnoujście in DK and SE; - Reduction of dependence on a single supply source in the CEE region; - Mitigation of exposure to supply disruption in the West Baltic and CEE regions; - Mitigation of negative impact linked to decreasing indigenous production in DK. Competition: - Reduction of price differences between the BEMIP and North-West regions. Sustainability: - Reduction of emissions in the BEMIP and CEE regions by promoting natural gas in national economies.

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	

Benefits	
Main Driver	Others
Main Driver Explanation	Regulation SoS, market integration and competition
Benefit Description	Baltic Pipe will have a significant impact on: increasing security of supply in the CEE and Baltic Sea regions by diversifying supply routes, sources and counterparts; creating well-interconnected gas infrastructure in the Baltic Sea region; enhancing competition on the regional markets (CEE and the Baltic region); promoting natural gas as a reliable, competitive and environmentally-friendly source of energy e.g. in the power generation and transport sectors. Baltic Pipe contributes also to the NSI EAST and BEMIP priority corridors, as the project will allow to transport gas from North Sea deposits to the CEE countries, namely to the CZ, SK and UA (via the North-South corridor in Poland, PL-CZ, PL-SK and PL-UA interconnections) and to the Baltic region (via GIPL to the East Baltic region). Since the project is bidirectional it will also provide the security of supply benefits for DK and SE (access to LNG).

Barriers	
Barrier Type	Description
Permit Granting	Efficient permitting procedures are necessary for timely implementation of the project.

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>27/10/2016</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>12/03/2018</i>	Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Czech-Polish Gas Interconnector (CPI)

TRA-A-136	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Advanced
Description	<p>The subject of the project (Czech part) is the construction of the DN 1000 gas pipeline from Tvrdonice to Hat' which will connect the existing Czech and Polish transmission systems. It also includes upgrade of the existing compressor station Břeclav on the Czech side. The aim of the project is to construct the robust bidirectional interconnector between Poland and the Czech Republic. Project is jointly coordinated by the transmission system operators of the Czech Republic (NET4GAS s.r.o.) and Poland (GAZ-SYSTEM S.A.)</p> <p>The Czech part of the CPI consists of the following subprojects:</p> <p>1) Poland-Czech Republic interconnector (STORK II; PCI project No. 6.2.10), and</p> <p>2) Tvrdonice-Libhošť pipeline, including upgrade of CS Břeclav (PCI project No. 6.2.12).</p>		
PRJ Code - PRJ Name	PRJ-G-022 - Poland - Czech Republic Interconnection		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Hat'	NET4GAS, s.r.o.	2023	CZ	PL	219.10 GWh/d
			Comment: Exit from CZ to PL		
	NET4GAS, s.r.o.	2023	PL	CZ	153.20 GWh/d
			Comment: Entry from PL to CZ		

Sponsors		General Information		NDP and PCI Information	
Czech Republic		Promoter	NET4GAS, s.r.o.	Part of NDP	Yes (CZ NDP 2019-2028 (approved))
NET4GAS, s.r.o.	100%	Operator	NET4GAS, s.r.o.	NDP Number	TRA-N-136
Poland		Host Country	Czechia	NDP Release Date	31/10/2018
Operator Gazociągów Przesyłowych GAZ-SYSTEM S.A.	100%	Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		08/2011	Considered TPA Regime	Regulated
Feasibility	01/2009	12/2012	Considered Tariff Regime	Regulated
FEED	11/2014	10/2017	Applied for Exemption	No
Permitting	02/2016	09/2021	Exemption Granted	Not Relevant
Supply Contracts		11/2021		
FID			Exemption in entry direction	0.00%
Construction	07/2021	08/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date	02/05/2018	02/05/2018		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Tvrdonice (CZ) - Hat' (CZ/PL)	The pipeline length at CZ side is approx. 207.4 km (Tvrdonice-Hat'). Upgrade of the existing compressor station Břeclav (CZ) is needed.	1,000	207	24	2023
Total			207	24	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	4 years
Delay Explanation	The delay was caused by lengthy permitting processes.

Expected Gas Sourcing

Norway, Russia, LNG (HR,PL)

Benefits

Main Driver	Others
Main Driver Explanation	Competition, Market Integration, Others
Benefit Description	The Project benefits: (a) Increase cross-border capacity between PL and CZ by establishing a large corridor allowing flexible transport of gas in CEE in direction North-South; (b) Increase security of gas supply and reliability, providing the overall flexibility for CEE region and diversifying supply routes for the region; (c) Create a robust, well-functioning internal market in CZ and PL; (d) Contribute to the creation of integrated and competitive gas market in CEE region and thus decrease gas prices (d) the security of supply in the Northern Moravian and Silesian region where there is a capacity bottleneck. There is not enough transmission capacity in the area to cover winter peak demand (now covered also by gas from commercial UGS). Due to current low demand for storage capacity, operating the regional UGS might not be commercially viable in future. Without filled UGS and realization of the project, there would be 4-6 mcm/d of gas missing.

Barriers

Barrier Type	Description
Permit Granting	Lengthy permitting process at the Ministry of Regional Development not reflecting the TEN-E regulation (EU) 347/2013.
Political	Change of political decisions, please see the MoUs in the Intergovernmental Agreement section.
Regulatory	Low rate of return
Regulatory	Lack of proper transposition of EU regulation
Market	Lack of market support

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of understanding	On the cooperation in the natural gas sector aimed at implementation of the Czech Republic-Poland Interconnection Project	Yes	06/09/2016
Memorandum of understanding	On project of expanded interconnection between gas transmission system of Republic of Poland and Czech Republic (STORK II)	Yes	12/12/2016
Memorandum of understanding	On the cooperation in the natural gas sector aimed at implementation of the Czech Republic-Poland Interconnection Project	Yes	20/04/2015

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>31/10/2013</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>17/10/2014</i>	Grants for studies amount	<i>Mln EUR 1.0</i>
Website	<i><u>CBCA URL</u></i>	Grants for works	<i>No</i>
Countries Affected	<i>Czechia, Poland</i>	Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer	<i>Czechia;#Poland</i>	Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
		Comments	<i>TEN-E, 371 622 EUR</i>
		General Comments	

Poland - Czech Republic Gas Interconnection (PL section)

TRA-A-273	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Advanced
Description	The project aims to increase the cross-border capacity between Poland and the Czech Republic by establishing a large transportation corridor that will allow flexible transport of gas in Central-Eastern Europe within the North-South corridor. The development of the project will contribute to reinforcement of the effective operation of the gas transmission systems, efficient gas exchange between the markets, as well as increase of the security of supply not only for Poland and the Czech Republic, but also for the CEE region by enabling the supply link with global LNG market via the terminal in Świnoujście and Norwegian gas via the Baltic Pipe project.		
PRJ Code - PRJ Name	PRJ-G-022 - Poland - Czech Republic Interconnection		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Hať	GAZ-SYSTEM S.A.	2023	CZ	PL	219.10 GWh/d
	GAZ-SYSTEM S.A.	2023	PL	CZ	153.20 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gas Transmission Operator GAZ-SYSTEM S.A.	100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	Yes (National Ten-Year Transmission System Development Plan 2018-2027)
		Operator	GAZ-SYSTEM S.A.	NDP Number	N/A
		Host Country	Poland	NDP Release Date	
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	07/2015	12/2017
Permitting	07/2016	12/2017
Supply Contracts		
FID		
Construction		
Commissioning	2023	2023
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
PL-CZ Interconnection - Polish section		1,000	53		0
Total			53		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

LNG ()

Benefits	
Main Driver	Others
Main Driver Explanation	Regulation SoS and market integration, sustainability
Benefit Description	Implementation of Poland-Czech Republic Interconnection will have an impact on: providing overall flexibility for the CEE region, diversifying the supply sources and routes for the CEE region; increasing the security and reliability of the cross-border gas transmission between the Czech Republic and Poland; creating a robust, well-functioning internal market in the Czech Republic and Poland and promoting the competition.

CBCA	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>
Submissin Date	<i>31/10/2013</i>
Decision Date	<i>24/06/2014</i>
Website	<i>CBCA URL</i>
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 0.6</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

LNG Terminal Brunsbuettel

LNG-A-1198	Project	LNG Terminal	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Construction of the first German LNG Terminal in Brunsbuettel (Hamburg Area), a full service terminal which includes regas, reloading and small scale LNG services.		
	The Terminal project aims to take FID end of 2019-early 2020.		
	The connecting projects will be part of the upcoming NEP.		
PRJ Code - PRJ Name	PRJ-G-023 - LNG Terminal Brunsbuettel		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Brunsbuettel (DE)	GermanLNG Terminal GmbH	2023	LNG_Tk_DEg	DEg	256.20 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	GermanLNG Terminal GmbH	No ((4) there is no obligation at national level for such a project to be part of the NDP)	
	Operator	GermanLNG Terminal GmbH		
	Host Country	Germany	Part of NDP	
	Status	Planned	NDP Number	
	Website	Project's URL	NDP Release Date	
			NDP Website	
			Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2016	Considered TPA Regime	Not Applicable
Feasibility	01/2017	03/2018	Considered Tariff Regime	Negotiated
FEED	04/2018	06/2019	Applied for Exemption	Yes
Permitting	08/2019	10/2020	Exemption Granted	Not Yet
Supply Contracts		12/2019		
FID		12/2019		
Construction	10/2020	05/2023	Exemption in entry direction	100.00%
Commissioning	2023	2023	Exemption in exit direction	0.00%
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
LNG Terminal Brunsbüttel (German LNG)	No	One	8.0	267,000	21.40	240,000	Tank Capacity	2023	50

Expected Gas Sourcing	
LNG (WO)	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Regasification capacity adds liquidity, competition and security of supply in the German market by import diversification; the small scale services help to increase the market demand of LNG as a fuel towards the reduction of CO2 emissions in transport applications.
Benefit Description	See above

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	<i>We are discussion the application for funding under the „GRW, Koordinierungsrahmen der Gemeinschaftsaufgabe der regionalen Wirtschaftsstruktur“, a decision can be expected by the end of 2019.</i>

LNG Terminal Brunsbuettel - Grid Integration

TRA-A-1199	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Construction of the first German LNG Terminal in Brunsbuettel (Hamburg Area). This project shows the measures for the integration of the LNG Terminal in the GUD grid. For the integration a connection pipe, a measurement station at the connecting point to the GUD grid and an extension of an existing measurement station for the additional capacities are necessary.		
PRJ Code - PRJ Name	PRJ-G-023 - LNG Terminal Brunsbuettel		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Brunsbuettel (DE)	Gasunie Deutschland Transport Services GmbH	2023	LNG_Tk_DEg	DEg	256.20 GWh/d

Sponsors	General Information		NDP and PCI Information	
Promoter	Gasunie Deutschland Transport Service GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018-2028)	
Operator	Gasunie Deutschland Transport Services GmbH	NDP Number	ID300-01	
Host Country	Germany	NDP Release Date	20/03/2019	
Status	Planned	NDP Website	NDP URL	
Website	Project's URL	Currently PCI	No	
		Priority Corridor(s)		

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		07/2018	Considered TPA Regime	Regulated
Feasibility	07/2018	03/2019	Considered Tariff Regime	Regulated
FEED	04/2019	06/2020	Applied for Exemption	No
Permitting	07/2020	08/2021	Exemption Granted	No
Supply Contracts		01/2020		
FID		10/2020	Exemption in entry direction	0.00%
Construction	08/2021	10/2022	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Brunsbuettel-Hetlingen		800	57		2022
Total			57		

Expected Gas Sourcing

LNG (WO)

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Poland - Ukraine Gas Interconnection (PL section)

TRA-A-621	Project	Pipeline including CS	Non-FID
Update Date	20/09/2019		Advanced
Description	The objective of the project is to create a large transportation corridor between Poland and Ukraine. Poland – Ukraine Gas Interconnection includes the construction of a new gas pipeline between the Hermanowice gas node on the Polish side and Bliche Volytsia UGS on the Ukrainian side. Scope of the Project on the Polish side: Hermanowice-PL/UA border pipeline; Metering station in Poland. Necessary additional transmission system development in: extension of CS Strachocina		
PRJ Code - PRJ Name	PRJ-G-028 - Poland - Ukraine Gas Interconnection		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
PL>UA Interconnector	GAZ-SYSTEM S.A.	2022	PL	UAe	153.20 GWh/d
UA>PL Interconnector	GAZ-SYSTEM S.A.	2022	UA	PL	153.20 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gas Transmission Operator GAZ-SYSTEM S.A.	100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	Yes (National Ten-Year Transmission System Development Plan 2018-2027)
		Operator	GAZ-SYSTEM S.A.		
		Host Country	Poland	NDP Number	N/A
		Status	Planned	NDP Release Date	
		Website	Project's URL	NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED	09/2016	06/2019	Applied for Exemption	No
Permitting	10/2016	02/2019	Exemption Granted	Not Relevant
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Hermanowice Node - PL-UA border pipeline	The exact length - 1,5km	1,000	2		0
Metering station in Poland					0
Total			2		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	The dialogue between the TSOs of both countries is ongoing in order to establish grounds for taking the positive FID for implementation of the PL-UA interconnection. Therefore, launching of the construction works is postponed until the FID is taken.

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	The project will contribute towards: establishment of a well-integrated gas market in the region (PL, UA, CZ, SK, HU, RO, MD); diversification of gas routes and sources for Ukraine; enhancement of security of gas supply for Ukraine; reducing dependency on single gas supplier for Ukraine; strengthening energy solidarity between EU Energy Community and EU contracting countries; access to the gas storages in Ukraine for Poland and EU countries.

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

Poland-Ukraine Interconnector (Ukrainian section)

TRA-A-561	Project	Pipeline including CS	Non-FID
Update Date	15/06/2020		Advanced
Description	The objective of the project is to create a large transportation corridor between Poland and Ukraine. Poland – Ukraine Gas Interconnection includes the construction of a new gas pipeline between the Hermanowice gas node on the Polish side and Bliche Volytsia UGS on the Ukrainian side. Scope of the Project on the Polish side: Pipeline Hermanowice-PL/UA border; Metering station in Poland; Extension of CS Strachocina; Necessary additional transmission system development in Poland: Pipeline Hermanowice-Strachocina; Pipeline Strachocina-Pogórska Wola; Pipeline Pogórska Wola-Tworzeń; Pipeline Tworóg-Tworzeń. Scope of the project on the Ukrainian side: PL/UA border – UGSF Bilche-Volytske pipeline.		
PRJ Code - PRJ Name	PRJ-G-028 - Poland - Ukraine Gas Interconnection		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
PL>UA Interconnector	LLC Gas TSO of Ukraine	2022	PL	UAe	153.20 GWh/d
UA>PL Interconnector	LLC Gas TSO of Ukraine	2022	UA	PL	153.20 GWh/d

Sponsors		General Information		NDP and PCI Information	
Ukrtransgaz	100%	Promoter	LLC Gas TSO of Ukraine	Part of NDP	No ((2) no NDP exists in the country)
		Operator		NDP Number	
		Host Country	Ukraine	NDP Release Date	
		Status	Planned	NDP Website	
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		02/2016	Considered TPA Regime	Regulated
Feasibility	01/2015	12/2016	Considered Tariff Regime	Regulated
FEED	12/2016	07/2018	Applied for Exemption	No
Permitting	12/2016	09/2018	Exemption Granted	No
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction	08/2018	03/2020	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Drozdovychi - Bilche Volytsya		1,000	99	0	2022
Total			99	0	

Expected Gas Sourcing

Norway, LNG (PL)

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Competition, Market Integration, Security of Supply, Sustainability
Benefit Description	The project will contribute towards: establishment of a well integrated gas market in the region (PL, UA, CZ, SK, HU, RO, MD); diversification of gas routes and sources for Ukraine; enhancement of security of gas supply for Ukraine; reducing dependency on single gas supplier for Ukraine; strengthening energy solidarity between the EU and Energy Community contracting countries; access to the gas storages in Ukraine for Poland and EU countries.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	Mln EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	Mln EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	No
		Comments	
		General Comments	

Embedding CS Folmhusen in H-Gas

TRA-A-951	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Embedding of the Compressor Station Folmhusen in H-Gas. This project is linked to the L- to H-Gas conversion in Germany. The project is linked to the GTS project "TRA-N-882".		
PRJ Code - PRJ Name	PRJ-G-030 - Transferring L-gas infrastructure to H-gas		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Bunde (DE) / Oude Statenzijl (H) (NL) (GUD)	Gasunie Deutschland Transport Services GmbH	2020	IB-NLg	DEg	57.30 GWh/d
Bunde (DE) / Oude Statenzijl (L) (NL) (GUD)	Gasunie Deutschland Transport Services GmbH	2020	IB-NLg	DEgL	-57.30 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	Gasunie Deutschland Transport Services GmbH	Part of NDP	Yes (NEP Gas 2015; NEP Gas 2016-2026; NEP Gas 2018-2028)
	Operator	Gasunie Deutschland Transport Services GmbH	NDP Number	ID 300-02
	Host Country	Germany	NDP Release Date	20/03/2019
	Status	Planned	NDP Website	NDP URL
	Website		Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2015	Considered TPA Regime	Regulated
Feasibility	01/2015	01/2015	Considered Tariff Regime	Regulated
FEED	01/2016	12/2016	Applied for Exemption	Not Relevant
Permitting			Exemption Granted	Not Relevant
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2020	2020		
Grant Obtention Date				

Expected Gas Sourcing

Norway, Russia

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

GUD: Complete conversion to H-gas

TRA-N-955	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Complete conversion of the grid from L- to H-gas in the year 2030. Use of the existing infrastructure for H-Gas. The project is linked to the GTS project "H-Gas conversion of L-Gas export boarder point (TRA-N-882)". On the German side are only small investements are required - the already exsisting infrastructure will be used. This project does not cover the conversion of the appliances.		
PRJ Code - PRJ Name	PRJ-G-030 - Transferring L-gas infrastructure to H-gas		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Bunde (DE) / Oude Statenzijl (H) (NL) (GUD)	Gasunie Deutschland Transport Services GmbH	2030	IB-NLg	DEg	135.00 GWh/d
Bunde (DE) / Oude Statenzijl (L) (NL) (GUD)	Gasunie Deutschland Transport Services GmbH	2030	IB-NLg	DEgL	-135.00 GWh/d
UGS Lesum	Gasunie Deutschland Transport Services GmbH	2021	STcDEgL	DEgL	-48.90 GWh/d
	Gasunie Deutschland Transport Services GmbH	2021	DEgL	STcDEgL	-10.70 GWh/d
Zone L-Gas GUD/OGE	Gasunie Deutschland Transport Services GmbH	2027	DEgL	DEnL	-42.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	Gasunie Deutschland Transport Services GmbH	Part of NDP	Yes (NEP Gas 2014; NEP Gas 2015; NEP Gas 2016-2026; NEP Gas 2018-2028)
	Operator	Gasunie Deutschland Transport Services GmbH	NDP Number	ID 221-01 ID; ID 222-02; ID 223-01
	Host Country	Germany	NDP Release Date	20/03/2019
	Status	In Progress	NDP Website	NDP URL
	Website		Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction	01/2019	12/2029
Commissioning	2021	2030
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	Not Relevant
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Expected Gas Sourcing

Norway, Russia

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Oude(NL)-Bunde(DE) GTG H-Gas

TRA-F-949	Project	Pipeline including CS	FID
Update Date	18/11/2019		Non-Advanced
Description	This projects creates a new interconnection point for H-Gas between the Netherlands and Germany and provide blendingcapacities from H- to L-Gas. The new H-Gas-capacities helps for the L-H-Gas conversion in Germany		
PRJ Code - PRJ Name	PRJ-G-030 - Transferring L-gas infrastructure to H-gas		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Bunde (DE) / Oude Statenzijl (H) (NL) (GTG Nord)	Gastransport Nord GmbH	2020	IB-NLg	DEg	25.40 GWh/d
	Comment: The H-Gas capacity is only used for blending and can not be transported without L-Gas flow				
	Gastransport Nord GmbH	2021	IB-NLg	DEg	25.40 GWh/d
	Comment: The H-Gas capacity is only used for blending and can not be transported without L-Gas flow				
	Gastransport Nord GmbH	2022	IB-NLg	DEg	25.40 GWh/d
	Comment: The H-Gas capacity is only used for blending and can not be transported without L-Gas flow				
	Gastransport Nord GmbH	2023	IB-NLg	DEg	25.40 GWh/d
	Comment: The H-Gas capacity is only used for blending and can not be transported without L-Gas flow				
	Gastransport Nord GmbH	2024	IB-NLg	DEg	25.40 GWh/d
	Comment: The H-Gas capacity is only used for blending and can not be transported without L-Gas flow				
	Gastransport Nord GmbH	2025	IB-NLg	DEg	25.40 GWh/d
	Comment: The H-Gas capacity is only used for blending and can not be transported without L-Gas flow				
	Gastransport Nord GmbH	2026	IB-NLg	DEg	25.40 GWh/d
	Comment: The H-Gas capacity is only used for blending and can not be transported without L-Gas flow				

Bunde (DE) / Oude Statenzijl (H) (NL) (GTG Nord)	Gastransport Nord GmbH	2027	IB-NLg	DEg	76.20 GWh/d
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Sponsors	General Information		NDP and PCI Information		
	Promoter	Gastransport Nord GmbH	Part of NDP	Yes (Netzentwicklungsplan Entwurf 2018 -2028)	
	Operator	Gastransport Nord GmbH	NDP Number	432-02b	
	Host Country	Germany	NDP Release Date	20/03/2019	
	Status	Planned	NDP Website	NDP URL	
	Website		Currently PCI	No	
			Priority Corridor(s)		

Schedule	Start Date	End Date	Third-Party Access Regime		
Pre-Feasibility		01/2016	Considered TPA Regime	Regulated	
Feasibility	01/2016	01/2017	Considered Tariff Regime	Regulated	
FEED	01/2017	01/2018	Applied for Exemption	Yes	
Permitting	01/2018	01/2019	Exemption Granted	Yes	
Supply Contracts		06/2019			
FID		04/2018	Exemption in entry direction	0.00%	
Construction	07/2019	12/2019	Exemption in exit direction	0.00%	
Commissioning	2020	2027			
Grant Obtention Date					

Expected Gas Sourcing					
Norway, Russia					

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Others	The H-Gas capacity is used for blending into the L-Gas flow. If the gasquality changes to a higher Wobbe, the capacity of H-Gas blending will be lower.

CBCA

Decision	No, we have submitted an investment request, but not received a decision yet
Submissin Date	30/03/2018
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

Capacity4Gas – DE/CZ

TRA-F-752	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	The project "Capacity4Gas – DE/CZ" is a subproject of the overall project Capacity4Gas and contains several measures, which would enable a realization of an additional regulated entry capacity into the Czech gas transmission system. Those measures are in particular: establishing a new interconnection point at the German-Czech border, upgrade of existing compressor stations, building a new compressor station and extending the pipeline infrastructure. The project is jointly coordinated by the transmission system operators of the Czech Republic (NET4GAS, s.r.o.) and Germany (EUGAL shareholders). The project results from capacity bookings from the binding capacity auction in March 2017.		
PRJ Code - PRJ Name	PRJ-G-034 - More capacity – DE/CZ Capacity4Gas Project		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP Brandov-GASPOOL (N4G)	NET4GAS, s.r.o.	2019	Y-CZb	CZ	665.00 GWh/d
	Comment: Stage 1. The incremental capacity represents approx. entry capacity extension between the market areas of DE (Gaspool) and CZ.				
	NET4GAS, s.r.o.	2021	Y-CZb	CZ	454.00 GWh/d
Comment: Stage 2.					

Sponsors		General Information		NDP and PCI Information	
Czech Republic		Promoter	NET4GAS, s.r.o.	Part of NDP	Yes (CZ NDP 2019-2028 (approved))
NET4GAS, s.r.o.	100%	Operator	NET4GAS, s.r.o.	NDP Number	TRA-F-752
Germany		Host Country	Czechia	NDP Release Date	31/10/2018
EUGAL (shareholders: GASCADE, Fluxys DE, Gasunie DE, ONTRAS)	100%	Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		03/2017	Considered TPA Regime	Regulated
Feasibility	03/2017	10/2017	Considered Tariff Regime	Regulated
FEED	07/2017	06/2019	Applied for Exemption	No
Permitting	07/2017	12/2019	Exemption Granted	Not Relevant
Supply Contracts		01/2020		
FID		03/2017		
Construction	06/2018	09/2021	Exemption in entry direction	0.00%
Commissioning	2019	2021	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
HSK-Přimda	Stage 1. The project comprises several technical measures, which factually leads to increase of entry capacity between DE (Gaspool) and CZ.	1,400	2	25	2019
	Stage 2.	1,400	150		2021
Total			152	25	

Expected Gas Sourcing

Norway, Russia

Benefits

Main Driver	Market Demand
Main Driver Explanation	Result of the capacity auction.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

EUGAL - Europaeische Gasanbindungsleitung (European Gaslink)

TRA-F-763	Project	Pipeline including CS	FID
Update Date	18/09/2020		Advanced
Description	<p>This project includes the Receiving Terminal Lubmin II, the pipeline EUGAL, a pipeline link between EUGAL an NEL with a station (for gas pressure regulation and measuring), a compressor station near Radeland, and a station (for gas pressure regulation, heating and measuring) by Deutschneudorf.</p> <p>EUGAL will extend the German network by 480 km, running from the Baltic Sea through Mecklenburg-Western Pomerania and Brandenburg to southern Saxony and from there over the border to the Czech Republic. A part of the transported gas enters the existing German infrastructure along EUGAL through new connections in order to supply Germany and Western Europe.</p>		
PRJ Code - PRJ Name	PRJ-G-034 - More capacity – DE/CZ Capacity4Gas Project		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Deutschneudorf EUGAL Brandov	GASCADE Gastransport GmbH	2019	DEg	Y-CZb	598.36 GWh/d
	Comment: Level 1 (excl. reservation quota)				
	GASCADE Gastransport GmbH	2020	DEg	Y-CZb	408.95 GWh/d
	Comment: Level 2, on top of Level 1 - in total 1,007.31 GWh/d (excl. reservation quota)				
Lubmin II	GASCADE Gastransport GmbH	2022	DEg	Y-CZb	-111.92 GWh/d
	Comment: Reduction on Level 2 due to increase of reservation quota according to NC CAM - in total 895.39 GWh/d				
	GASCADE Gastransport GmbH	2019	RU/NO2	DEg	962.42 GWh/d
	Comment: Level 1				
Mallnow	GASCADE Gastransport GmbH	2020	RU/NO2	DEg	778.94 GWh/d
	Comment: Level 2, on top of Level 1 - in total 1741.38 GWh/d				
VIP Brandov-GASPOOL	GASCADE Gastransport GmbH	2020	DEg	PL/YAM	146.33 GWh/d
	GASCADE Gastransport GmbH	2019	DEg	Y-CZb	66.48 GWh/d
	Comment: Level 1, due to the dual system in Germany, capacity out of reservation quota is shifted and market via VIP Brandov-GASPOOL				

GASCADE Gastransport GmbH	2020	DEg	Y-CZb	45.44 GWh/d
Comment: Level 2, due to the dual system in Germany, capacity out of reservation quota is shifted and market via VIP Brandov-GASPOOL				
GASCADE Gastransport GmbH	2022	DEg	Y-CZb	111.92 GWh/d
Comment: Increase on Level 2, due to the dual system in Germany, capacity out of reservation quota is shifted and market via VIP Brandov-GASPOOL				

VIP Brandov-GASPOOL

Sponsors		General Information		NDP and PCI Information	
GASCADE Gastransport GmbH	50%	Promoter	GASCADE Gastransport/Fluxys Deutschland GmbH / GUD GmbH&Co.KG / ONTRAS GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018-2028)
Fluxys Deutschland GmbH	16%			NDP Number	412-03, 507-01a,b,c,d,e,f
Gasunie Deutschland GmbH & Co. KG	16%	Operator	GASCADE Gastransport GmbH	NDP Release Date	20/03/2019
ONTRAS Gastransport GmbH	16%	Host Country	Germany	NDP Website	NDP URL
		Status	In Progress	Currently PCI	No
		Website	Project's URL	Priority Corridor(s)	
Schedule			Third-Party Access Regime		
Pre-Feasibility			Considered TPA Regime	Regulated	
Feasibility			Considered Tariff Regime	Regulated	
FEED			Applied for Exemption	No	
Permitting			Exemption Granted	Not Relevant	
Supply Contracts					
FID		06/2018	Exemption in entry direction	0.00%	
Construction			Exemption in exit direction	0.00%	
Commissioning	2019	2022			
Grant Obtention Date					

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
AL NEL	the following project is related to it: - Gas pressure control and measuring station Lubmin-NEL	1,000	1		2019
EUGAL	the following projects are related to it: - Gas pressure control and measuring stations Radeland II, and Deutschneudorf-EUGAL - CS Radeland II - Receiving Terminal Lubmin II ; Partially commissioning year 2020	1,400	484	75	2019
Total			485	75	

Expected Gas Sourcing

Russia, VHP GASPOOL

Benefits

Main Driver	Market Demand
Main Driver Explanation	The project will satisfy market demand that was expressed through binding capacity bookings in the context of "more capacity". The market demand is proven by the successful auctioning of the new capacities in the yearly auctions of 2017 that also proves the economic viability of the project.
Benefit Description	The "more capacity" projects - especially in combination with the other projects within PRJ group "More capacity - DE/CZ Capacity4Gas Project" - will enhance market integration, security of supply, sustainability, and competition within Europe.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	Mln EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	Mln EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	No
		Comments	
		General Comments	

Upgrade for IP Deutschneudorf et al. for More Capacity

TRA-F-814	Project	Pipeline including CS	FID
Update Date	18/11/2019		Non-Advanced
Description	<div>1. New PRMS Kienbaum II incl. connection to EUGAL pipeline with two metering/control systems and new pre-heater for westward transmission of gas from EUGAL pipeline; due Dec. 2019.</div> <div>2. Upgrade of pressure security system at Börnicke PRMS by installing a second control system to ensure operating pressure level of max. 84 bar in downstream grid for increasing transit from East (Kienbaum) to West, due end of 2019.</div> <div>3. Upgrade of PRMS at Steinitz with an additional metering/control system for gas transmission from FGL 302 pipeline towards NETRA interconnector, due Dec. 2019.</div> <div>4. Upgrade of Groß Köris PRMS with new metering/control system for gas transmission to IP Deutschneudorf, due Dec. 2019.</div> <div>5. Renewal of Sayda compressor station to ensure increasing transit and pressure levels at IP Deutschneudorf, due end of 2023.</div>		
PRJ Code - PRJ Name	PRJ-G-034 - More capacity – DE/CZ Capacity4Gas Project		

Sponsors	General Information		NDP and PCI Information	
Compressor station Sayda	Promoter	ONTRAS Gastransport GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018-2028)
ONTRAS Gastransport GmbH100%	Operator	ONTRAS Gastransport GmbH		
Pressure reduction & metering station at Börnicke	Host Country	Germany	NDP Number	507-01 g, 507-01 h, ID 507-02 i, 507-01 j, 507-01 m
ONTRAS Gastransport GmbH100%	Status	In Progress	NDP Release Date	20/03/2019
Pressure reduction & metering station at Groß Köris	Website	Project's URL	NDP Website	NDP URL
ONTRAS Gastransport GmbH100%			Currently PCI	No
Pressure reduction & metering station at Kienbaum with connection to EUGAL			Priority Corridor(s)	
ONTRAS Gastransport GmbH100%				
Pressure reduction & metering station at Steinitz				
ONTRAS Gastransport GmbH50%				

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		03/2016	Considered TPA Regime	Regulated
Feasibility	07/2017	10/2017	Considered Tariff Regime	Regulated
FEED	10/2017	12/2017	Applied for Exemption	Not Relevant
Permitting	01/2018	12/2018	Exemption Granted	No
Supply Contracts				
FID		12/2018	Exemption in entry direction	0.00%
Construction	01/2019	12/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Pipelines and Compressor Stations							
Pipeline Section	Pipeline Comment			Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Connection Kienbaum-EUGAL	Pipeline length 0.1 km			700			2019
Total							

Expected Gas Sourcing	
Russia	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	see Market Survey "More Capacity" (see https://www.more-capacity.eu)
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

3rd IP between Portugal and Spain (pipeline Celorico-Spanish border)

TRA-A-283	Project	Pipeline including CS	Non-FID
Update Date	22/09/2020		Advanced
Description	The 3RD Interconnection Point (IP) PORTUGAL-SPAIN is located in the priority corridor North-South in Western Europe, and involves Portugal and Spain by crossing the border between both Member States. This project will connect both gas systems between Celorico da Beira (Portugal) and Spanish border, through a pipeline with 162 km of length.		
PRJ Code - PRJ Name	PRJ-G-036 - Interconnection ES-PT (3rd interconnection)		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP IBERICO	REN - Gasodutos, S.A.	2025	PT	ES	70.00 GWh/d
				Comment: According to the best available data of the Joint Technical Study.	
	REN - Gasodutos, S.A.	2025	ES	PT	85.00 GWh/d
				Comment: According to the best available data of the Joint Technical Study.	

Sponsors		General Information		NDP and PCI Information	
REN Gasodutos	100%	Promoter	REN-Gasodutos, S.A.	Part of NDP	Yes (PDIRGN 2018 - 2027)
		Operator	REN - Gasodutos, S.A.	NDP Number	-
		Host Country	Portugal	NDP Release Date	19/12/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
					Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		03/2015	Considered TPA Regime	Regulated
Feasibility	07/2019	04/2020	Considered Tariff Regime	Regulated
FEED	08/2020	07/2021	Applied for Exemption	No
Permitting	05/2021	10/2024	Exemption Granted	No
Supply Contracts		10/2023		
FID		05/2023	Exemption in entry direction	0.00%
Construction	10/2024	12/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date	14/07/2015	14/07/2015		

Pipelines and Compressor Stations						
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Celorico-Spanish border		First Step of the 3rd Interconnection Point (IP) PORTUGAL-SPAIN.	700	162		2025
Total				162		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas

Specific Criteria Fulfilled Comments

Delays since last TYNDP	
Delay Since Last TYNDP	3 years
Delay Explanation	In the last edition of the TYNDP, REN was in the permitting process phase, waiting for the Environmental Impact Declaration to be issued by the Competent Authorities. At this moment, REN already received the declaration with a unfavorable decision. As a consequence,it will be necessary to make an adjustment to the initial route, maintaining the same point of interconnection with Spain. Furthermore, the project of the 3rd Interconnection between Portugal and Spain was rescheduled due to the activities that are being developed in the High Level Group for the development of the interconnections between France, Spain and Portugal. It's important to notice that the Portuguese project has its decision dependent on the STEP project's decision.

Expected Gas Sourcing	
Norway, Russia, Other LNG sources from the diversification of supply are expected, namely from the result of the integration of the Iberian m	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	The Project, provides a significant increase in the interconnection capacity between Portugal and Spain, firm and bidirectional. The contribution of this project to the potential market integration of the Portuguese and Spanish markets is however not captured by the modest results of the project in ENTSOG's modelling. The capacity provided by Project, firm and bidirectional, would nonetheless be fundamental for the market integration of the Portuguese and Spanish markets, playing an enabling role, in case of an eventual market merger between the two countries, shall the political will demand it.
Benefit Description	This PCI will contribute to the implementation of the internal energy market and it will also bring other benefits, particularly: increase NG market liquidity between Portugal and Spain systems, by providing new infrastructure access alternatives to market players in the Iberian Peninsula; Reinforce the security of supply in case of failure in any one of the two gas systems, given the total reversibility of the new interconnection; Allow operational integration between the underground storage facilities of Carriço (Portugal) and Yela (Spain), by increasing storage capacity accessibility between both gas systems; Increase the flexibility and support of gas infrastructure to gas fired power generation in both countries; Step towards the integration of the European gas infrastructures in the context of the Gas Regional Initiative – South, by providing increased interconnection capacity and diversification of supply sources on an Internal Gas Market perspective.

Barriers	
Barrier Type	Description
Regulatory	In simple terms and according to the current Portuguese regulation, the revenue stream respecting the part of the project allocated to Portuguese consumers (after the CBCA decision by the regulators of Portugal and Spain) will be obtained by the remuneration of the net invested capital of the project plus the amortization recovery and the opex cost recovery (subject to a mix of price cap and revenue cap regimes). Nevertheless, it's important to notice that it is not possible to predict if, when and to what extent any changes to this model may occur.
Permit Granting	REN submitted the project of the 3rd IP PT-ES to the Environmenatl Impact Assesment on February 2016. Two years later, on February 2018, REN received from APA - Agência Portuguesa do Ambiente (Competent Environmental Authority), the Environmental Impact Declaration with unfavorable decision. As a consequence, it will be necessary to: 1) Make an adjustment to the initial route, maintaining the same point of interconnection with Spain; 2) Prepare a new FEED; 3) Restart the environmental permitting process.
Political	Enagás & REN are collaborating under the HLG for South West interconnections. It's important to notice that the Portuguese project has its decision dependent on the STEP project's decision.
Market	Regarding the market survey, the 3rd interconnection between the gas systems of Portugal and Spain is regarded as commercially non-viable as has been demonstrated by the responses of the stakeholders to the public consultation process on the gas sector TYNDP for Portugal held in 2013, 2015 and 2017 in what concerns this specific project, meaning that its potential users are not willing to make any prior commitments in terms of capacity booking. Additionally, Market test was performed in April 2017 according to chapter V of Regulation 2017/459, and the conclusions were the same as the indicated consultation processes.

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Lisbon Declaration	European Commission, France, Portugal and Spain signed Lisbon Declaration on Friday 27th July at the Second Energy Interconnections summit.	Yes	27/07/2018
Madrid Declaration	European Comission, Portugal, France and Spain	Yes	04/03/2015

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>01/09/2020</i>	Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.5</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for studies and works</i>
	<i>The project of the 3rd Interconnection between Portugal and Spain was rescheduled due to the activities that are being developed in the High Level Group for the development of the interconnections between France, Spain and Portugal. It's important to notice that the Portuguese project has its decision dependent on the STEP project's decision.</i>	Other Financial Assistance	<i>No</i>
Additional Comments		Comments	
		General Comments	

Eastring - Bulgaria

TRA-A-654	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Non-Advanced
Description	Eastring-BG is subproject located in Bulgaria and is essential part of the Eastring project - a brand new pipeline project, which connects Compressor station at Veľké Zlievce in the territory of Slovakia with a new IP at an external border of the EU in the territory of Bulgaria. The project would (i) secure supplies in case of RU disruption and therefore it will increase gas SoS in the broader Central-South-East EU region, (ii) allow access to alternative gas sources for Central, Western & Southern Europe and (iii) mean step towards EU single gas market.		
PRJ Code - PRJ Name	PRJ-G-041 - Pipeline system from Bulgaria via Romania and Hungary to Slovakia [currently known as "Eastring"]		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Eastring BG Domestic Point	Bulgartransgaz EAD	2025	BGn	BG/EAR	200.00 GWh/d
	Comment: Entry/Exit capacity at domestic points may go up to the level of 200 GWh/d if sum of all Exit capacities from domestic system to adjacent networks (or vice versa) is able to reach this level.				
Eastring Cross-Border BG/EAR <> RO/EAR	Bulgartransgaz EAD	2025	BG/EAR	RO/EAR	617.00 GWh/d
	Comment: Phase 1 New IP				
	Bulgartransgaz EAD	2025	RO/EAR	BG/EAR	617.00 GWh/d
	Comment: Phase I New IP				
Eastring Cross-Border BG/EAR>TR	Bulgartransgaz EAD	2030	BG/EAR	RO/EAR	617.00 GWh/d
	Comment: Phase II				
	Bulgartransgaz EAD	2030	RO/EAR	BG/EAR	617.00 GWh/d
	Comment: Phase II				
Eastring Cross-Border BG/EAR>TR	Bulgartransgaz EAD	2025	BG/EAR	TRe	617.00 GWh/d
	Comment: Transmission between Eastring -Bulgaria and Turkey via new IP at BG/TR border.				
	Bulgartransgaz EAD	2030	BG/EAR	TRe	617.00 GWh/d

Eastring Cross-Border BG/EAR>TR

Comment: Phase II

	Bulgartransgaz EAD	2025	TRi	BG/EAR	617.00 GWh/d
Eastring Cross-Border TR>BG/EAR	Bulgartransgaz EAD	2030	TRi	BG/EAR	617.00 GWh/d

Comment: Phase II

Sponsors		General Information		NDP and PCI Information	
Bulgartransgaz EAD	100%	Promoter	Bulgartransgaz EAD	Part of NDP	Yes (2019-2028 Ten-year network development plan of BTG)
		Operator	Bulgartransgaz EAD	NDP Number	Section 5.1 (5.1.2)
		Host Country	Bulgaria	NDP Release Date	23/04/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date
Pre-Feasibility		08/2016
Feasibility	09/2017	09/2018
FEED	01/2019	08/2020
Permitting	03/2020	06/2020
Supply Contracts		01/2020
FID		09/2020
Construction	02/2023	04/2025
Commissioning	2025	2030
Grant Obtention Date	12/05/2017	12/05/2017

Third-Party Access Regime	
Considered TPA Regime	Not Applicable
Considered Tariff Regime	Not Applicable
Applied for Exemption	Not Relevant
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Eastring-BG-2	Data refers to the first stage - capacity 617 GWh/d, in case of increase of capacity up to 1234 GWh/d in 2030, compressor power at level of 310 MW will be needed	1,400	262	93	2025
Total			262	93	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Time schedule in the last TYNDP was estimated according to the data from the pre-feasibility study with lower level of details.

Expected Gas Sourcing

Caspian Region, Norway, Russia, LNG (IR,IQ,IL,KW,QA,TR,UK), Iraq, Iran, Egypt, Israel, Turkmenistan, Kazakhstan, Cyprus, Azerbaijan, Any gas available at Turkish/European HUBs including

Benefits

Main Driver	Others
Main Driver Explanation	The project brings significant benefits to the SoS of Europe, bringing the increasing new sources of gas supply in South Eastern Europe to the markets of Central and Western Europe, while further enhancing the market integration of the affected countries. Decrease of market concentration on producers side; price convergence; Decrease of carbon emissions.
Benefit Description	- Physical alternative for providing 100% of all Balkan countries' consumption; enhancing market development and liquidity of the region; - Providing security of supply for 100% of all Balkan countries' consumption; - Additional utilization for CZ, SK, PL, UA, RO, BG transit and storage assets; - Providing Western shippers with possibility to supply Balkan countries and even Turkey from NCG/Gaspool/Baumgarten; - Corridor ready for future gas imports to Europe from alternative sources – AGRI, TANAP, Caspian, Iran, Iraq, Egypt, Israel, Cyprus, Turkey, etc. -price convergence of Balkan region to EU West - Decrease of market concentration on producers side

Barriers	
Barrier Type	Description
Regulatory	Capacity quotas
Regulatory	Low rate of return
Market	Lack of market maturity
Financing	Availability of funds and associated conditions

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Declaration	Governmental declaration	No	21/05/2015
Memorandum of Understanding	Memorandum of Understanding	No	13/07/2016

CBCA	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>Yes, for studies and works</i>
Other Financial Assistance	<i>No</i>
Comments	<i>Eustream applied and was granted Financial support for feasibility study execution from CEF.</i>
General Comments	

Eastring - Hungary

TRA-A-656	Project	Pipeline including CS	Non-FID
Update Date	18/09/2020		Non-Advanced
Description	A Eastring-HU is subproject located in Hungary and is essential part of the Eastring project, which connects the RO, HU and SK system in the following routing options: via HU, (new pipeline) from RO-HU border (Csanadpalota) to HU/SK border (Balassagyarmat). The project would (i) secure supplies in case of RU disruption and therefore it will increase gas SoS in the broader Central-South-East EU region, (ii) allow access to alternative gas sources for Central, Western Southern Europe and (iii) mean step towards EU single gas market.		
PRJ Code - PRJ Name	PRJ-G-041 - Pipeline system from Bulgaria via Romania and Hungary to Slovakia [currently known as "Eastring"]		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Eastring Cross-Border HU/EAR <> SK/EAR	FGSZ Ltd.	2025	HU/EAR	SK/EAR	617.00 GWh/d
			Comment: I.phase of the project		
	FGSZ Ltd.	2025	SK/EAR	HU/EAR	617.00 GWh/d
			Comment: I.phase of the project		
	FGSZ Ltd.	2030	HU/EAR	SK/EAR	617.00 GWh/d
			Comment: II.phase of the Project		
	FGSZ Ltd.	2030	SK/EAR	HU/EAR	617.00 GWh/d
			Comment: II.phase of the Project		
Eastring Cross-Border RO/EAR <> HU/EAR	FGSZ Ltd.	2025	HU/EAR	RO/EAR	617.00 GWh/d
			Comment: I.phase of the project		
	FGSZ Ltd.	2025	RO/EAR	HU/EAR	617.00 GWh/d
			Comment: I.phase of the project		
	FGSZ Ltd.	2030	HU/EAR	RO/EAR	617.00 GWh/d
			Comment: II.phase of the Project		
Eastring HU Domestic Point	FGSZ Ltd.	2030	RO/EAR	HU/EAR	617.00 GWh/d
			Comment: II.phase of the Project		
	FGSZ Ltd.	2025	HU	HU/EAR	310.00 GWh/d
	FGSZ Ltd.	2025	HU/EAR	HU	310.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Eastring B.V. (to be discussed later)	100%	Promoter	FGSZ Ltd.	Part of NDP	Yes (National Development Plan 2018)
		Operator	FGSZ Ltd.	NDP Number	12.13.
		Host Country	Hungary	NDP Release Date	19/12/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		08/2016	Considered TPA Regime	Regulated
Feasibility	09/2017	06/2018	Considered Tariff Regime	Regulated
FEED	01/2019	08/2020	Applied for Exemption	No
Permitting	11/2021	06/2022	Exemption Granted	Not Relevant
Supply Contracts		01/2021		
FID		09/2020	Exemption in entry direction	0.00%
Construction	02/2023	01/2025	Exemption in exit direction	0.00%
Commissioning	2025	2030		
Grant Obtention Date	12/05/2017	12/05/2017		

Pipelines and Compressor Stations						
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Eastring - HU		Data refer to the first phase capacity 617 GWh/d	1,400	283		2025
Total				283		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Time schedule in the last TYNDP was estimated according to the data from the pre-feasibility study with lower level of details.

Expected Gas Sourcing

Caspian Region, Norway, Russia, LNG (TR), Iraq, Iran, Egypt, Israel, Turkmenistan, Kazakhstan, Cyprus, Azerbaijan, Any gas available at Turkish/European HUBs. For dire

Benefits

Main Driver	Others
Main Driver Explanation	The project brings significant benefits to the SoS of Europe, bringing the increasing new sources of gas supply in South Eastern Europe to the markets of Central and Western Europe, while further enhancing the market integration of the affected countries. Decrease of market concentration on producers side; price convergence; Decrease of carbon emissions
Benefit Description	- Physical alternative for providing 100% of all Balkan countries' consumption; enhancing market development and liquidity of the region; - Providing security of supply for 100% of all Balkan countries' consumption; - Additional utilization for CZ, SK, PL, UA, RO, BG transit and storage assets; - Providing Western shippers with possibility to supply Balkan countries and even Turkey from NCG/Gaspool/Baumgarten; - Corridor ready for future gas imports to Europe from alternative sources – AGRI, TANAP, Caspian, Iran, Iraq, Egypt, Israel, Cyprus, Turkey, etc. -price convergence of Balkan region to EU West - Decrease of market concentration on producers side

Barriers

Barrier Type	Description
Regulatory	Low rate of return
Regulatory	Capacity quotas
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Declaration	Goverment declaration	No	21/05/2015
Memorandum of Understanding	Memorandum of Understanding	Yes	13/07/2016
Memorandum of Understanding	Memorandum of Understanding	Yes	30/10/2017

CBCA	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	<i>Eustream received 1,000,000 EUR financial support for feasibility study for execution the whole SK-HU-RO-BG route from CEF.</i>
General Comments	

Eastring - Romania

TRA-A-655	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Non-Advanced
Description	Eastring-RO is the subproject located in Romania and is an essential part of the Eastring project - a brand new pipeline project, which connects the Compressor station at Veľké Zlievce in the territory of Slovakia with a new IP at an external border of the EU in the territory of Bulgaria. The project would (i) secure supplies in case of RU disruption and therefore it will increase gas SoS in the broader Central-South-East EU region, (ii) allow access to alternative gas sources for Central, Western Southern Europe and (iii) mean step towards EU single gas market.		
PRJ Code - PRJ Name	PRJ-G-041 - Pipeline system from Bulgaria via Romania and Hungary to Slovakia [currently known as "Eastring"]		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Eastring Cross-Border BG/EAR <> RO/EAR	SNTGN Transgaz S.A.	2025	BG/EAR	RO/EAR	617.00 GWh/d
				Comment: Phase 1	
	SNTGN Transgaz S.A.	2025	RO/EAR	BG/EAR	617.00 GWh/d
				Comment: Phase 1	
	SNTGN Transgaz S.A.	2030	BG/EAR	RO/EAR	617.00 GWh/d
				Comment: Phase 2	
	SNTGN Transgaz S.A.	2030	RO/EAR	BG/EAR	617.00 GWh/d
				Comment: Phase 2	
Eastring Cross-Border RO/EAR <> HU/EAR	SNTGN Transgaz S.A.	2025	HU/EAR	RO/EAR	617.00 GWh/d
				Comment: Phase 1	
	SNTGN Transgaz S.A.	2025	RO/EAR	HU/EAR	617.00 GWh/d
				Comment: Phase 1	
	SNTGN Transgaz S.A.	2030	HU/EAR	RO/EAR	617.00 GWh/d
				Comment: Phase 2	
	SNTGN Transgaz S.A.	2030	RO/EAR	HU/EAR	617.00 GWh/d
				Comment: Phase 2	
Eastring RO Domestic Point	SNTGN Transgaz S.A.	2025	RO	RO/EAR	150.00 GWh/d
	SNTGN Transgaz S.A.	2025	RO/EAR	RO	150.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Transgaz S.A.	100%	Promoter	SNTGN Transgaz SA	Part of NDP	No ((1) the NDP was prepared at an earlier date and the project will be proposed for inclusion in the next NDP)
		Operator	SNTGN Transgaz S.A.		
		Host Country	Romania		
		Status	Planned	NDP Number	
		Website	Project's URL	NDP Release Date	
				NDP Website	
Currently PCI	No				
Priority Corridor(s)	NSIE				

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		08/2016	Considered TPA Regime	Regulated
Feasibility	09/2017	09/2018	Considered Tariff Regime	Regulated
FEED	01/2019	08/2020	Applied for Exemption	No
Permitting	11/2021	06/2022	Exemption Granted	Not Relevant
Supply Contracts		01/2021		
FID		09/2020	Exemption in entry direction	0.00%
Construction	02/2023	01/2025	Exemption in exit direction	0.00%
Commissioning	2025	2030		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Eastring RO/Phase 1	Data refers to the first phase capacity 617 GWh/d for a new route via SK,HU,RO,BG with commissioning in 2025.		1,400	646	93	2025
Total				646	93	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Time schedule in the last TYNDP was estimated according to the data from the pre-feasibility study with lower level of details.

Expected Gas Sourcing

Caspian Region, Norway, Russia, LNG (TR), Iraq, Iran, Egypt, Israel, Turkmenistan, Kazakhstan, Cyprus, Azerbaijan, Any gas available at Turkish/European HUBs. For dire

Benefits

Main Driver	Others
Main Driver Explanation	The project brings significant benefits to the SoS of Europe, bringing the increasing new sources of gas supply in South Eastern Europe to the markets of Central and Western Europe, while further enhancing the market integration of the affected countries. Decrease of market concentration on producers side; price convergence; Decrease of carbon emissions
Benefit Description	Physical alternative for providing 100% of all Balkan countries' consumption; enhancing market development and liquidity of the region; - Providing security of supply for 100% of all Balkan countries' consumption; - Additional utilization for CZ, SK, PL, UA, RO, BG transit and storage assets; - Providing Western shippers with possibility to supply Balkan countries and even Turkey from NCG/Gaspool/Baumgarten; - Corridor ready for future gas imports to Europe from alternative sources – AGRI, TANAP, Caspian, Iran, Iraq, Egypt, Israel, Cyprus, Turkey, etc. -price convergence of Balkan region to EU West - Decrease of market concentration on producers side

Barriers

Barrier Type	Description
Regulatory	Capacity quotas
Regulatory	Low rate of return
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Declaration	The government officials of Slovakia, Hungary, Romania and Bulgaria confirmed their support for the implementation of interconnection and substantial bi-directional capacity of existing infrastructure for natural gas supply on the territory of the Republi	Yes	21/05/2015
1. Memorandum of Understanding	1. MoU was signed by and between Slovak Economy Minister Peter Žiga and Hungarian Minister of Foreign Affairs Péter Szijjártó . The document was signed in the presence of Slovak Prime Minister Robert Fico in Košice. The Parties of the Memorandum articulat	Yes	30/10/2017
Memorandum of Understanding	Peter Žiga, Minister of Economy of the Slovak Republic, and Žečo Stankov, State Secretary of the Ministry of Energy of the Bulgarian Republic, signed the Memorandum of Understanding on the Eastring project.	Yes	13/07/2016

CBCA	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 1.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>Yes, for studies and works</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Eastring - Slovakia

TRA-A-628	Project	Pipeline including CS	Non-FID
Update Date	22/09/2020		Advanced
Description	Eastring-SK is the subproject located in Slovakia and is an essential part of the Eastring project - a brand new pipeline project, which connects the Compressor station at Veľké Zlievce in the territory of Slovakia with a new IP at an external border of the EU in the territory of Bulgaria. The project would (i) secure supplies in case of RU disruption and therefore it will increase gas SoS in the broader Central-South-East EU region, (ii) allow access to alternative gas sources for Central, Western & Southern Europe and (iii) mean step towards EU single gas market.		
PRJ Code - PRJ Name	PRJ-G-041 - Pipeline system from Bulgaria via Romania and Hungary to Slovakia [currently known as "Eastring"]		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Eastring Cross-Border HU/EAR <> SK/EAR	Eastring B.V.	2025	HU/EAR	SK/EAR	617.00 GWh/d
			Comment: I.phase of the project		
	Eastring B.V.	2025	SK/EAR	HU/EAR	617.00 GWh/d
			Comment: I. phase of the project		
	Eastring B.V.	2030	HU/EAR	SK/EAR	617.00 GWh/d
			Comment: II. phase of the project		
	Eastring B.V.	2030	SK/EAR	HU/EAR	617.00 GWh/d
			Comment: II.phase of the Project		

Sponsors		General Information		NDP and PCI Information	
Eastring B.V.	100%	Promoter	eustream, a.s. (a joint stock company)	Part of NDP	Yes (Development plan of the transmission system of eustream, a.s. for the period 2019 - 2028)
		Operator	eustream, a.s.	NDP Number	None
		Host Country	Slovakia	NDP Release Date	30/11/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		08/2016	Considered TPA Regime	Regulated
Feasibility	09/2017	09/2018	Considered Tariff Regime	Regulated
FEED	01/2019	08/2020	Applied for Exemption	No
Permitting	11/2021	06/2022	Exemption Granted	Not Relevant
Supply Contracts		01/2021		
FID		09/2020		
Construction	02/2023	01/2025	Exemption in entry direction	0.00%
Commissioning	2025	2030	Exemption in exit direction	0.00%
Grant Obtention Date	12/05/2017	12/05/2017		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Eastring-SK	Data refers to the first phase capacity 617 GWh/d for a new route via SK,HU,RO,BG with commissioning in 2025.	1,400	17	93	2025
Total			17	93	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	no
Delay Explanation	Time schedule in the last TYNDP was estimated according to the data from the pre-feasibility study with lower level of details.

Expected Gas Sourcing

Caspian Region, Russia, Iraq, Iran, Egypt, Israel, Turkmenistan, Kazakhstan, Cyprus, Azerbaijan, Any gas available at Turkish/European HUBs including

Benefits

Main Driver	Others
Main Driver Explanation	The project brings significant benefits to the SoS of Europe, bringing the increasing new sources of gas supply in South Eastern Europe to the markets of Central and Western Europe, while further enhancing the market integration of the affected countries. Decrease of market concentration on producers side; price convergence; Decrease of carbon emissions
Benefit Description	- Physical alternative for providing 100% of all Balkan countries' consumption; enhancing market development and liquidity of the region; - Providing security of supply for 100% of all Balkan countries' consumption; - Additional utilization for CZ, SK, PL, UA, RO, BG transit and storage assets; - Providing Western shippers with possibility to supply Balkan countries and even Turkey from NCG/Gaspool/Baumgarten; - Corridor ready for future gas imports to Europe from alternative sources – AGRI, TANAP, Caspian, Iran, Iraq, Egypt, Israel, Cyprus, Turkey, etc. -price convergence of Balkan region to EU West - Decrease of market concentration on producers side

Barriers

Barrier Type	Description
Regulatory	Capacity quotas
Regulatory	Low rate of return
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of Understanding	Memorandum of Understanding	Yes	30/10/2017
Memorandum of Understanding	Memorandum of Understanding	Yes	13/07/2016
Declaration	Governmental declaration	Yes	21/05/2015

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 1.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for studies and works</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
		Comments	<i>Financial support for feasibility study execution from CEF</i>
		General Comments	

Enhancement of Transmission Capacity of Slovak-Hungarian interconnector

TRA-N-524	Project	Pipeline including CS	Non-FID
Update Date	11/08/2020		Non-Advanced
Description	Enhancement of Exit transmission capacity with 102 GWh/day in HU>SK direction and enhancement of Entry transmission capacity with 26 GWh/day in SK>HU direction at Balassagyarmat with new compressors on Szada Compressor station. The available bi-directional transmission capacities will be the same in both direction at the Slovak-Hungarian interconnector.		
PRJ Code - PRJ Name	PRJ-G-045 - Enhancement of the capacity at SK-HU interconnector		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Balassagyarmat (HU) / Velké Zlievce (SK)	MGT Hungarian Gas Transit Ltd.	2022	HU	SK	102.00 GWh/d
	MGT Hungarian Gas Transit Ltd.	2022	SK	HU	26.00 GWh/d

Sponsors	General Information	NDP and PCI Information
FGSZ Ltd. 100%	Promoter Operator Host Country Status Website	FGSZ Ltd. FGSZ Ltd. Hungary Planned Project's URL
		Part of NDP NDP Number NDP Release Date NDP Website Currently PCI Priority Corridor(s)
		Yes (National Development Plan- MGT 10 Year Development Plan) TRA-N-524 (new nr will be received once project is approved) NDP URL Yes (6.2.13 (2020))

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2018	Considered TPA Regime	Regulated
Feasibility	01/2018	12/2018	Considered Tariff Regime	Regulated
FEED	10/2019	10/2020	Applied for Exemption	Yes
Permitting	10/2019	10/2020	Exemption Granted	No
Supply Contracts				
FID		08/2019	Exemption in entry direction	0.00%
Construction	08/2020	10/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Szada CS					0
				16	0

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	This capacity project is to promote the diversified procurement of gas and the security of supply the member states of the EU. The project will increase price convergence of the HU gas market to the EU markets. As part of the north-south axis it will contribute also to handling of the SoS issues identified in the CEE and SEE region. Furthermore, to better utilise the existing assets of the domestic natural gas system and to improve the transit routes in order to improve transit services, while providing for the expected quality of the natural gas on the connecting systems. The project shall result in the operational efficiencies -linking of the 75 bar transit systems (RO-HU, HR-HU, Srb-HU, SK-HU, Ukr-HU, AT-HU).

Expected Gas Sourcing

Norway, Russia, LNG (HR,PL), Romania- pipeline

Benefits

Main Driver	Market Demand
Main Driver Explanation	As part of the north-south axis it will contribute also to handling of the SoS issues identified in the CEE and SEE region. Furthermore, to better utilise the existing assets of the domestic natural gas system and to improve the transit routes in order to improve transit services, while providing for the expected quality of the natural gas on the connecting systems
Benefit Description	

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>Yes, for studies and works</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Firm transmission capacity increase at the IP Velké Zlievce

TRA-N-1235	Project	Pipeline including CS	Non-FID
Update Date	19/03/2020		Non-Advanced
Description	Expansion of the capacity at the SK-HU interconnection point developing the transmission capacity in HU>SK and SK>HU direction from interruptible capacity to non-interruptible (firm) capacity in order to enhance flexibility, interoperability, operational efficiency reducing the flow direction switch operation time, security of gas supplies in the affected countries in the CEE and SEE region. Moreover price convergence is expected as a complementary effect.		
PRJ Code - PRJ Name	PRJ-G-045 - Enhancement of the capacity at SK-HU interconnector		

Capacity Increments Variant For Modelling					
Variant : Variant SK-1		Pipeline section - Border delivery pressure at current level without Extra Pressure Agreement in force			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Balassagyarmat (HU) / Velké Zlievce (SK)	eustream, a.s.	2022	HU	SK	102.20 GWh/d
	eustream, a.s.	2022	SK	HU	25.40 GWh/d
Capacity Increments Variant(s) For Information Only					
Variant : Variant SK-2		Pipeline section-Border delivery pressure at current level with Extra Pressure Agreement in force			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Balassagyarmat (HU) / Velké Zlievce (SK)	eustream, a.s.	2022	HU	SK	102.20 GWh/d
	eustream, a.s.	2022	SK	HU	25.40 GWh/d

Sponsors		General Information		NDP and PCI Information	
eustream,a.s.	100%	Promoter	eustream,a.s.	Part of NDP	Yes (National Development Plan 2018 - 2027)
		Operator	eustream, a.s.		
		Host Country	Slovakia	NDP Number	4.1.1.3 Firm transmission capacity increase at the IP Velké Zlievce
		Status	Planned	NDP Release Date	30/11/2017
		Website	Project's URL	NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction	10/2020	06/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment			Diameter (mm)	Length (km)	Compressor Power (MW)
Firm capacity increase at the IP Velké Zlievce						10
	Total					10

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region, Russia

Benefits

Main Driver	Market Demand
Main Driver Explanation	Increase of interoperability and flexibility of the system between Slovakia and Hungary in order to ensure prerequisite for security of supply enhancement in the region and to increase capacities to the level of the expected market demand.
Benefit Description	This capacity project is to promote the diversified procurement of gas and the security of supply the member states of the EU. The project will increase price convergence of the HU gas market to the EU markets. As part of the northsouth axis it will contribute also to handling of the SoS issues identified in the CEE and SEE region. Furthermore, to better utilise the existing assets of the domestic natural gas system and to improve the transit routes in order to improve transit services, while providing for the expected quality of the natural gas on the connecting systems. The project improvements shall result in the operational efficiencies -linking of the 75 bar transit systems (RO-HU, HR-HU, Srb-HU, SK-HU, Ukr-HU, AT-HU).

Barriers

Barrier Type	Description
Financing	Availability of funds and associated conditions
Regulatory	Capacity quotas
Regulatory	Low rate of return

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Romanian-Hungarian reverse flow Hungarian section 1st stage

TRA-F-286	Project	Pipeline including CS	FID
Update Date	22/11/2019		Advanced
Description	A new compressor station at Csanádpalota with 2 units (4.5 MW each) - necessary to create pressure conditions for the transportation capacity of 1.75 bcm/a from and towards Romania.		
PRJ Code - PRJ Name	PRJ-G-047 - RO-HU Transmission Corridor		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Csanadpalota	FGSZ Ltd.	2019	RO	HU	48.90 GWh/d

Sponsors		General Information		NDP and PCI Information	
FGSZ Ltd.	100%	Promoter	FGSZ Ltd.	Part of NDP	Yes (Hungarian TYNDP 2018)
		Operator	FGSZ Ltd.	NDP Number	12.5.
		Host Country	Hungary	NDP Release Date	31/01/2019
		Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2014	Considered TPA Regime	Regulated
Feasibility	09/2016	07/2017	Considered Tariff Regime	Regulated
FEED	07/2018	10/2018	Applied for Exemption	No
Permitting	07/2018	09/2018	Exemption Granted	No
Supply Contracts		12/2018		
FID		06/2017	Exemption in entry direction	0.00%
Construction	10/2018	12/2019	Exemption in exit direction	0.00%
Commissioning	2019	2019		
Grant Obtention Date	14/10/2015	14/10/2015		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Csanadpalota				9	0
Total				9	

Delays since last TYNDP

Delay Since Last TYNDP

Delay Explanation

Expected Gas Sourcing

Romanian sources and/or other available sources from Bulgaria direction

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date	<i>16/10/2015</i>	Grants for studies amount	<i>Mln EUR 2.3</i>
Website		Grants for works	<i>No</i>
Countries Affected	<i>Hungary, Romania</i>	Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Romanian-Hungarian reverse flow Hungarian section 2nd stage

TRA-A-377	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	A third compressor unit (4.5 MW) is needed at Csanádpalota to reach the increased 4.4 bcm/a capacity of the corridor at the RO/HU border.		
PRJ Code - PRJ Name	PRJ-G-047 - RO-HU Transmission Corridor		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Csanadpalota	FGSZ Ltd.	2022	HU	RO	76.50 GWh/d
	FGSZ Ltd.	2022	RO	HU	76.50 GWh/d

Sponsors		General Information		NDP and PCI Information	
FGSZ Ltd.	100%	Promoter	FGSZ Ltd.	Part of NDP	Yes (Hungarian TYNDP 2018)
		Operator	FGSZ Ltd.	NDP Number	12.5
		Host Country	Hungary	NDP Release Date	31/01/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.24.4.6 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2014	Considered TPA Regime	Regulated
Feasibility	09/2016	07/2017	Considered Tariff Regime	Regulated
FEED	12/2019	01/2020	Applied for Exemption	No
Permitting	02/2020	08/2020	Exemption Granted	No
Supply Contracts		05/2020		
FID		10/2019	Exemption in entry direction	0.00%
Construction	09/2020	12/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date	27/04/2016	27/04/2016		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Csanádpalota	+1 Compressor unit 4.5MW			4	0
Total				4	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The pipeline enables to increase capacity of Csanádpalota (RO>HU) and Csanádpalota (HU>RO).

Delays since last TYNDP

Delay Since Last TYNDP	0
Delay Explanation	

Expected Gas Sourcing

Caspian Region, Black Sea

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers	
Barrier Type	Description
Regulatory	Low rate of return

CBCA	
Decision	Yes, we have submitted an investment request and have received a decision
Submissin Date	10/04/2015
Decision Date	16/10/2015
Website	
Countries Affected	Hungary, Romania
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(1) Yes, we have applied for CEF and we have received a decision
Grants for studies	Yes
Grants for studies amount	Mln EUR 2.3
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Development on the Romanian territory of the NTS (BG–RO–HU–AT)-Phase II

TRA-A-1322	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>The project consists in the extension of the gas transmission pipeline constructed in Phase 1, between the Podișor Technological Node and the Horia GMS and the extension of the compressor stations, as follows:</p> <ul style="list-style-type: none">• Podișor – Recaş 32" x 63 bar gas transmission pipeline approximately 50 km long;• extension of the three gas compressor stations (Podișor CS, Bibești CS and Jupa CS) by mounting an additional compressor in each station;• extension of the Horia GMS . <p>After the implementation of the project the following transmission capacities will be ensured:</p> <ul style="list-style-type: none">• towards Hungary: 4.4 bcm/year;• towards Bulgaria:1.5 bcm/year.		
PRJ Code - PRJ Name	PRJ-G-047 - RO-HU Transmission Corridor		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Csanadpalota	SNTGN Transgaz S.A.	2022	HU	RO	78.12 GWh/d
	SNTGN Transgaz S.A.	2022	RO	HU	75.88 GWh/d

Sponsors		General Information		NDP and PCI Information	
SNTGN Transgaz SA	100%	Promoter	SNTGN Transgaz SA	Part of NDP	Yes (The Development Plan of the National Gas Transmission System 2018 - 2027)
		Operator	SNTGN Transgaz S.A.		
		Host Country	Romania	NDP Number	7.1.2
		Status	Planned	NDP Release Date	14/12/2018
		Website		NDP Website	NDP URL
				Currently PCI	Yes (6.24.4.4 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2013	Considered TPA Regime	Regulated
Feasibility	01/2014	09/2015	Considered Tariff Regime	Regulated
FEED	07/2015	11/2018	Applied for Exemption	No
Permitting	01/2016		Exemption Granted	No
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction		12/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date	18/05/2015	18/05/2015		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Recaş - Horia		800	50	14	2022
Total			50	14	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Market integration, Sustainability, Competition

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Delayed, in order to respond to the market demand as a result of the Open Season Procedure at IP Csandodpalota

Expected Gas Sourcing

Caspian Region, LNG (), Black Sea

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(1) Yes, we have applied for CEF and we have received a decision
Grants for studies	Yes
Grants for studies amount	Mln EUR 1.5
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

Developments for Fosmax (Cavaou) LNG 8.25 bcm expansion

TRA-N-269	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Only core system developments are needed to offer firm capacity for this expansion as the connection between terminal and St-Martin de Crau station already fits the potential extension. In case both Midcat project and the Fos Cavaou terminal expansion are decided additional developments may be required.		
PRJ Code - PRJ Name	PRJ-G-049 - Fos Cavaou LNG Terminal Expansion		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Fos (Tonkin/Cavaou)	GRTgaz	2026	LNG_Tk_FRs	IB-FR4	327.00 GWh/d
Comment: for a 8.5 bcm expansion					

Sponsors		General Information		NDP and PCI Information	
GRTgaz	100%	Promoter	GRTgaz	Yes (Plan décennal de développement du réseau de transport de GRTgaz 2018-2027)	
		Operator	GRTgaz		
		Host Country	France	Extension du terminal de Fos Cavaou à 16,5 Gm³/an	
		Status	Planned		
		Website	Project's URL	NDP Release Date	04/02/2019
				NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction	01/2024	11/2026
Commissioning	2026	2026
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Arc Lyonnais		1,200	150		0
Eridan		1,200	220		0
Palleau CS				50	0
Perche		900	63		0
St-Avit CS				15	0
St-Martin de Crau CS				30	0
Total			433	95	

Delays since last TYNDP	
Delay Since Last TYNDP	2 years
Delay Explanation	Waiting for LNG terminal decision

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	This project enables to offer firm capacity to meet the developments planned by Fosmax at the LNG terminal of Fos Cavaou
Benefit Description	

Barriers

Barrier Type	Description
Others	The current context of LNG in Europe isn't favorable to the developements of LNG capacities
Market	Lack of market support

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Fos Cavaou LNG Terminal Expansion

LNG-N-227	Project	LNG Terminal	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project aims to expand the Fos Cavaou LNG terminal capacity from 8.25 bcm/y up to 16.5 bcm/y, with an intermediate step at 11bcm/y.		
PRJ Code - PRJ Name	PRJ-G-049 - Fos Cavaou LNG Terminal Expansion		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Fos (Tonkin/Cavaou)	Fosmax LNG	2023	LNG_Tk_FRs	IB-FR4	110.00 GWh/d
	Comment: intermediate phase at 11 bcm/y (i.e. +2.75 bcm/y)				
	Fosmax LNG	2025	LNG_Tk_FRs	IB-FR4	330.00 GWh/d
Comment: corresponds to 16.5 bcm/y (i.e. + 8.25 bcm/y)					

Sponsors		General Information		NDP and PCI Information	
Fosmax LNG	100%	Promoter	Fosmax LNG	Part of NDP	Yes (GRTgaz Ten Year Development plan 2018-2027)
		Operator	Fosmax LNG	NDP Number	Fos Cavaou Extension
		Host Country	France	NDP Release Date	04/02/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIW

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	Not Relevant
Supply Contracts				
FID		06/2021	Exemption in entry direction	0.00%
Construction	06/2021	06/2025	Exemption in exit direction	0.00%
Commissioning	2023	2025		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Fos Cavaou LNG Terminal	Yes	small scale	0.0	0	0.00	0	see below	0	0

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	market was not there, but situation may change soon

Expected Gas Sourcing

LNG (DZ,CA,CY,LNG,NO,QA,RU,US,WO), LNG diverted from, or reloaded in other European LNG terminals (Spain for example).

Benefits

Main Driver	Market Demand
Main Driver Explanation	Market based investments avoid future stranded assets and thus ensure the best use of money, in particular when public money is involved.
Benefit Description	If there is a need to develop new infrastructures in Europe to allow the access of larger LNG quantities to where it is needed as well as to improve the LNG contribution to security of supply, the extension of Fos Cavaou LNG terminal is an excellent project, thanks to its location and its marginal cost. Indeed, Fos Cavaou is the best entry gate for LNG from Mediterranean, Middle East and Atlantic toward the core of European mainland gas market. The expansion of Fos Cavaou will strongly contribute to market integration, competition, SoS and sustainability in the NSW corridor. It is a high efficient alternative to the project of a third gas pipeline through the Pyreneans. Moreover, it should contribute to the energy transition in the maritime transport, with the development of LNG as an clean alternative fuel, to the benefit of all neighboring countries and beyond.

Barriers

Barrier Type	Description
Political	Discrimination aiming at preventing the project to be recognized as an efficient alternative to a third gas pipeline through the Pyreneans.

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>Yes</i>
Comments	<i>small scale studies and works</i>
General Comments	

Developments for Montoir LNG terminal 2.5 bcm expansion

TRA-N-258	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	This entry capacity increase at Montoir needs specific developments and core system developments (Looping of Artère du Perche).		
PRJ Code - PRJ Name	PRJ-G-050 - Montoir LNG Terminal Expansion		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Montoir de Bretagne	GRTgaz	2023	LNG_Tk_FRn	IB-FR3	100.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
GRTgaz	100%	Promoter	GRTgaz	Part of NDP	Yes (Plan décennal de développement du réseau de transport de GRTgaz 2018-2027)
		Operator	GRTgaz		
		Host Country	France	NDP Number	Augmentation des capacités d'entrée à partir du terminal de Montoir de 10 à 12,5 Gm³/an
		Status	Planned		
		Website	Project's URL	NDP Release Date	04/02/2019
				NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2011	Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	Not Relevant
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction	01/2024	12/2026	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Artère du Maine	Ending the looping of the pipeline	1,050	200		0
Artère du Perche	Ending the looping of the pipeline	900	63		0
Auvers-le-Hamon CS	Station adaptation			0	0
Total			263	0	

Delays since last TYNDP	
Delay Since Last TYNDP	2 years
Delay Explanation	Waiting for terminal promoter decision

Expected Gas Sourcing	
LNG ()	

Benefits	
Main Driver	Others
Main Driver Explanation	Developments of GRTgaz network required to offer firm capacity to the planned expansion of the LNG terminal at Montoir de Bretagne
Benefit Description	

Barriers	
Barrier Type	Description
Market	Lack of market support

CBCA	
Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

Montoir LNG Terminal Expansion

LNG-N-225	Project	LNG Terminal	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project aims to expand the Montoir de Bretagne LNG terminal capacity from 10 bcm/y up to 16.5 bcm/y, with an intermediate step at 12.5 bcm/y.		
PRJ Code - PRJ Name	PRJ-G-050 - Montoir LNG Terminal Expansion		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Montoir de Bretagne	Elengy	2023	LNG_Tk_FRn	IB-FR3	100.00 GWh/d
	Comment: intermediate phase at 12.5 bcm/y (i.e. +2,5 bcm/y)				
	Elengy	2025	LNG_Tk_FRn	IB-FR3	260.00 GWh/d
Comment: corresponds to 16.5 bcm/y (i.e. + 6.5 bcm/y)					

Sponsors		General Information		NDP and PCI Information	
Elengy	100%	Promoter	Elengy	Part of NDP	Yes (GRTgaz Ten Year Development plan 2018-2027)
		Operator	Elengy	NDP Number	Montoir Extension
		Host Country	France	NDP Release Date	04/02/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIW

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	Not Relevant
Supply Contracts				
FID		06/2021	Exemption in entry direction	0.00%
Construction	06/2021	06/2025	Exemption in exit direction	0.00%
Commissioning	2023	2025		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Montoir LNG Terminal	Yes	small scale	0.0	0	0.00	0	sea below	0	0

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	market was not there, but situation may change soon

Expected Gas Sourcing

LNG (DZ,CA,CY,LNG,NO,QA,RU,US,WO), LNG diverted from, or reloaded in other European LNG terminals (Spain for example).

Benefits

Main Driver	Market Demand
Main Driver Explanation	Market based investments avoid future stranded assets and thus ensure the best use of money, in particular when public money is involved.
Benefit Description	If there is a need to develop new infrastructures in Europe to allow the access of larger LNG quantities to where it is needed as well as to improve the LNG contribution to security of supply, the extension of Montoir LNG terminal is an excellent project, thanks to its location and its marginal cost. Indeed, Montoir is one of the best entry gates for LNG from all over the world, in particular from USA, toward the core of European mainland gas market. The expansion of Montoir will strongly contribute to market integration, competition, SoS and sustainability in the NSW corridor. It is a high efficient alternative to the project of a third gas pipeline through the Pyreneans. Moreover, it should contribute to the energy transition in the maritime transport, with the development of LNG as an clean alternative fuel, to the benefit of all neighboring countries and beyond.

Barriers

Barrier Type	Description
Political	Discrimination aiming at preventing the project to be recognized as an efficient alternative to a third gas pipeline through the Pyreneans.

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>Yes</i>
Comments	<i>small scale studies and work</i>
General Comments	

Entry capacity expansion GATE terminal

TRA-N-192	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	Expansion of entry capacity into GTS network The project consists of an additional pipeline on a section of the existing route between the GATE terminal and the compressor station at Wijngaarden		
PRJ Code - PRJ Name	PRJ-G-054 - LNG		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Gate Terminal (I)	Gasunie Transport Services B.V.	2022	LNG_Tk_NL	NL	121.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gas Transport Services	100%	Promoter	Gasunie Transport Services B.V.	Part of NDP	Yes (Netwerk Ontwikkelingsplan 2017)
		Operator	Gasunie Transport Services B.V.	NDP Number	6.5.2
		Host Country	Netherlands	NDP Release Date	
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2022	2022
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Maasvlakte - Wijngaarden		1,200	25		0
Total			25		

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Gate terminal phase 3

LNG-A-50	Project	LNG Terminal	Non-FID
Update Date	25/08/2020		Non-Advanced
Description	Increase the capacity by 4 billion cubic meters per year from the current value of 12 BCM p.a. to 16 BCM p.a		
PRJ Code - PRJ Name	PRJ-G-054 - LNG		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Gate Terminal (I)	Gate Terminal B.V.	2022	LNG_Tk_NL	NL	60.00 GWh/d
				Comment: Phase 1	
	Gate Terminal B.V.	2024	LNG_Tk_NL	NL	61.00 GWh/d
				Comment: Phase 2	

Sponsors	General Information		NDP and PCI Information	
0%	Promoter	Gate	Part of NDP	Yes (GTS)
	Operator	Gate Terminal B.V.	NDP Number	unknown see GTS
	Host Country	Netherlands	NDP Release Date	01/03/2018
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2010	Considered TPA Regime	Not Applicable
Feasibility	06/2018	06/2018	Considered Tariff Regime	Not Applicable
FEED	06/2020	06/2020	Applied for Exemption	Yes
Permitting	06/2009	06/2009	Exemption Granted	Yes
Supply Contracts		06/2020		
FID		06/2020		
Construction	06/2020	06/2022	Exemption in entry direction	0.00%
Commissioning	2022	2024	Exemption in exit direction	100.00%
Grant Obtention Date	31/12/2007	31/12/2007		

Delays since last TYNDP

Delay Since Last TYNDP	2 years
Delay Explanation	more time for the market to develop and finalise commercial discussions.

Expected Gas Sourcing

LNG ()

Comments about the Third-Party Access Regime

The exemption was applied for in March 2006; the exemption has been granted by the Dutch Minister on 14 July 2007; the EC gave its approval on 2 October 2007. Was not sure what to fill in regulated or negotiated. It is exempted

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	o SoS o Market Integration (Increase of competition) Gate terminal obtained an exempted ex Art 22 Gas Directive 2003/55/EC. In order to obtain an exemption it needed to be demonstrated that Gate terminal enhanced both security of supply and the competition on the gas market.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

LNG terminal in northern Greece / Alexandroupolis - LNG Section

LNG-N-62	Project	LNG Terminal	Non-FID
Update Date	22/09/2020		Advanced
Description	<p>Please note that this part refers only to LNG section of the Project, i.e. the floating terminal and its Mooring system. The Pipeline section of the Project is addressed in TRA-N-063.</p> <p>The project consists of an LNG offshore Floating Storage Regasification Unit, a Mooring & a Pipeline system (24km Subsea and 4km Onshore), connecting the floating unit to the Greek National Natural Gas System at the area of Amfitriti, 5.5km NE of Alexandroupolis where, DESFA, the NNGS TSO, will build and operate a metering & regulating station.</p> <p>The floating unit, will be stationed in the sea of Thrace, 17.6km SW of Alexandroupolis in NE Greece, at an offshore distance of 5.4 n.m. from the nearest shore. It will have up to 170,000m3 LNG storage capacity and a gas send out capacity of up to 900,000 Nm3/h corresponding to 8.3 bcm/y.</p>		
PRJ Code - PRJ Name	PRJ-G-055 - LNG terminal in northern Greece / Alexandroupolis		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Alexandroupolis LNG	Gastrade S.A.	2022	LNG_Tk_GR	GRa	253.10 GWh/d
Comment: Increment available 100% at operation start-up.					

Sponsors		General Information		NDP and PCI Information	
LNG-N-062		Promoter	Gastrade S.A.	Part of NDP	No ((6) others - please comment below)
GASTRADE S.A.	100%	Operator	Gastrade S.A.	NDP Number	
TRA-N-063		Host Country	Greece	NDP Release Date	
GASTRADE S.A.	100%	Status	Planned	NDP Website	
		Website	Project's URL	Currently PCI	Yes (6.9.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2010	Considered TPA Regime	Not Applicable
Feasibility	01/2014	06/2014	Considered Tariff Regime	Not Applicable
FEED	12/2020	12/2020	Applied for Exemption	Yes
Permitting	12/2020	12/2020	Exemption Granted	Not Yet
Supply Contracts				
FID		03/2020	Exemption in entry direction	0.00%
Construction	04/2020	10/2021	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date	01/04/2020	01/04/2020		

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
LNG terminal in northern Greece / Alexandroupolis	Yes	LNG terminal	8.3	170,000	22,600,000.00	170,000	The increments correspond to the maximum flowrates	2022	40

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Market Integration - Regional (SEE + Serbia + North Macedonia) and beyond (e.g. Hungary and through across the NSI gas corridor) Security of Supply through inter alia source and route diversification- Greece, Bulgaria, Serbia, North Macedonia, Hungary, Ukraine, Turkey Enhances competition in the region by introducing new sources and routes of supply Sustainability - Supports back up to renewables and power to gas.

Delays since last TYNDP	
Delay Since Last TYNDP	24 months in commissioning date / 30 months delay in FID compare to TYNDP2015 time schedule
Delay Explanation	Permitting phase completed 1Q2015 and FEED completed in Sept. 2017. Final negotiations with Bulgartransgaz and Public Gas Corporation (DEPA) for acquiring stakes in GASTRADE is estimated to be completed by 3Q2019. GASTRADE initiated a Market Test in October 2018 and critical mass terminal use agreements are anticipated by Oct.2019. The first phase of the Market Test (EoI) was successfully completed on 31.12.2018 where 20 participants from SEE Europe & beyond expressed their interest for booking up to 12.2 bcm/y regasification capacity. Completion of financing agreements and EPC contract awards (subject to FID) required for FID. GASTRADE initiated on 21.09.2018 the Tendering procedure for the supply of the FSRU and for the EPCI of the pipeline. The first phase of the Tenders (Pre-qualification and EoI) was completed in April 2019. Evaluation procedure has been concluded and second phase of the Tender (RfP) will launch in Q3 2019. FID is planned for 1Q 2020 & COD 1Q 2022.

Expected Gas Sourcing
LNG (WO), Multi-sourced supply

Comments about the Third-Party Access Regime
GASTRADE on 28.06.2018 submitted an Application for TPA Exemption to the NRA. According to par. 6 of Article 36 of the EU Directive 73/2009/EC, a Market Test has to be conducted in order to seek the interest of the market for the Project. On 29.06.2018 GASTRADE submitted to RAE the draft Guidelines for the first phase of the Market Test (Expression of Interest). The Guidelines were approved by RAE on 25.09.2018. Following this GASTRADE submitted to RAE for approval the draft EoI Notice which was approved on 18.10.2018. GASTRADE issued the Invitation for Expression of Interest for regasification capacity reservation in the Project on 30.10.2018. The procedure was completed on 31.12.2018 with a positive outcome. Twenty companies from SEE Europe and beyond expressed their interest for a total regasification capacity of up to 12.2 bcm/year. The second phase (request for Binding offers) will be launched once the relevant Guidelines and Notice are approved by RAE (3Q2019).

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	Main drivers: 1. Expressed requirement for diversification of supply sources and routes for SEE markets (Bulgaria, Serbia, North Macedonia, Romania, Hungary and Ukraine) enhancing security of supply, competition and pricing options potentially resulting in energy costs reduction creates market / demand opportunities for the project 2. Possible discontinuation of gas flows transmitted through Ukraine to the SEE markets. 3. Regional demand growth
Benefit Description	LNG terminal in northern Greece will: Secure new natural gas quantities for the supply of the Greek and the SEE markets, hence enhancing security of supply of these markets. Diversify the supply sources and routes in particular with regards to markets with limited supply options (Bulgaria, Serbia, Romania, N. Macedonia, Hungary, Ukraine) and to this extent lift existing isolation with an aim to reduce dependency on Russian gas whilst providing access to multiple sources both existing and new such as US and East Med gas to the markets of SEE. Support the South Corridor project(s) by providing alternative/additional supply quantities when/if required and the interoperability of systems and the creation of a regional gas trading hub. The Project technical design will include possibility for LNG-reloading ability for the purpose of supporting LNG bunkering activities and will contribute to the decrease of CO2 emissions from power production and elimination of the harmful SOX, NOX and PM.

Barriers	
Barrier Type	Description
Regulatory	Tariff levels for the Project should enjoy the same regulatory regime as the one applied for other competitive regulated infrastructures in the area in order for the Project to be commercially attractive to potential regional offtakers and therefore financially viable. Tariff levels will determine the required financing structure (equity/grant/debt ratios) and will be decided upon release of the TPA Exemption decision.
Permit Granting	Completed
Political	No political barriers. On the contrary, there is clear and declared Political support for the Project from the impacted Member States and in particular from the governments of Greece, Bulgaria, Romania and Serbia. Political stability in the region of the Project's direct influence will support commercial viability of the Project. Both Greece and Bulgaria have included the Project in their Energy Strategies mentioning the benefits of security of supply, diversification of routes, price convergence and sustainability.
Others	Delays in the implementation/start up of new regional gas infrastructures (IGB, IBS, BRUA) and in the upgrade of existing ones including reverse flow availability. The most critical one is the timing of start-up of the Interconnector Greece-Bulgaria (IGB). Also, availability of capacity in the Greek, Bulgarian and Romanian Transmission Systems and reverse flow capacity in Trans Balkan enabling flows from the Project to Ukraine. Finally, reverse flow functionality to the Turkey-Greece Interconnector will open up the Turkish market to the Project. Regarding Financing: The project received grants for studies (from the 1st CEF Energy Call-August 2014) and is eligible to receive grants from the Greek structural programs (NSRF). Award of such Public financing for works will be critical for the Project's commercial viability.
Market	The markets in SEE are not mature. Currently all gas transactions are done on a bilateral basis and no price transparency exists. Creation of a trading hub in the region with multiple supply options will generate significant opportunities for the marketing of gas imported through the LNG Alexandroupolis floating terminal. Recent interconnection agreements at the border IPs between EU member states in SE Europe are enhancing Project commercialization opportunities. Critical to the success of the Project are the transmission tariff structures and levels. The ability for LNG to penetrate markets without direct access to LNG terminals (e.g. Bulgaria, Serbia, Romania, Ukraine, Hungary, etc.) relates directly to the competitiveness of the landed prices of LNG into these markets vis-a-vis pipeline gas. To this extent, gas transmission tariffs from LNG terminal evacuation pipelines all the way through to end consumers should be reduced to allow for competitive pricing at end consumer level.
Financing	The Project has been awarded with grants for studies (CEF 2014 Call). The Project has secured the incentive to apply for grants within the National structural funds (NSRF - National Strategic Reference Framework). Award of such Public financing will be critical for the Project's commercial viability. Project's CBA has been prepared and consulted with JASPERS. The CBA will be submitted officially to DG Comp through the Ministry of Economy & Development within July 2019 (Notification for State Aid). The company has already signed a Mandate Letter with a major commercial bank of Greece for the total amount of dept. The target is that the terms of the debt financing agreement will be finalized before FID. The debt financing will be determined by contractual agreements regarding capacity reservation at the Project.
Market	Lack of market maturity
Financing	Availability of funds and associated conditions

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.6</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for studies only</i>
Additional Comments	<i>CBCA is non applicable for the Project</i>	Other Financial Assistance	<i>No</i>
		Comments	<i>The project is included in the Major Project List of the Operational Programme; eligible for grant financing from the National Strategic Reference Framework (NSRF). Notification for State Aid for the Project's financing to be submitted to DG Comp within July.</i>
		General Comments	<i>Gastrade has already consulted with Jaspers the Cost Benefit Analysis (CBA) for the Project. The CBA will be submitted to DG Comp within the Notification documentation.</i>

LNG terminal in northern Greece / Alexandroupolis - Pipeline Section

TRA-N-63	Project	Pipeline including CS	Non-FID
Update Date	22/09/2020		Advanced
Description	Please note that this part refers only to the pipeline section of the Project. The LNG section of the Project is addressed in LNG-N-062. The project consists of an LNG offshore Floating Storage Regasification Unit, a Mooring a Pipeline system (24km Subsea and 4km Onshore), connecting the floating unit to the Greek National Natural Gas System at the area of Amfitriti, 5.5km NE of Alexandroupolis where, DESFA, the NNGS TSO, will build and operate a metering regulating station. The floating unit, will be stationed in the sea of Thrace, 17.6km SW of Alexandroupolis in NE Greece, at an offshore distance of 5.4 n.m. from the nearest shore. It will have up to 170,000m3 LNG storage capacity and a gas send out capacity of up to 900,000 Nm3/h corresponding to 8.3 bcm/y.		
PRJ Code - PRJ Name	PRJ-G-055 - LNG terminal in northern Greece / Alexandroupolis		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Alexandroupolis Amphitriti	Gastrade S.A.	2022	GRa	IB-GRk	253.10 GWh/d
Comment: Increment available 100% at operation start-up.					

Sponsors	General Information		NDP and PCI Information	
LNG-N-062	Promoter	Gastrade S.A.	Part of NDP	No ((6) others - please comment below)
GASTRADE S.A. 100%	Operator	Gastrade S.A.	NDP Number	
TRA-N-063	Host Country	Greece	NDP Release Date	
GASTRADE S.A. 100%	Status	Planned	NDP Website	
	Website	Project's URL	Currently PCI	Yes (6.9.1 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2010	Considered TPA Regime	Not Applicable
Feasibility	01/2014	06/2014	Considered Tariff Regime	Not Applicable
FEED	01/2020	01/2020	Applied for Exemption	Yes
Permitting	01/2020	01/2020	Exemption Granted	Not Yet
Supply Contracts				
FID		03/2020	Exemption in entry direction	0.00%
Construction	04/2020	10/2021	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date	01/04/2020	01/04/2020		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Alexandroupolis LNG terminal - M/R Amfitriti		762	28	0	2021
Total			28	0	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Market Integration - Regional (SEE + Serbia + North Macedonia) and beyond (e.g. Hungary and through across the NSI gas corridor) Security of Supply through inter alia source and route diversification- Greece, Bulgaria, Serbia, North Macedonia, Hungary, Ukraine, Turkey Enhances competition in the region by introducing new sources and routes of supply Sustainability - Supports back up to renewables and power to gas.

Delays since last TYNDP

Delay Since Last TYNDP	24 months in commissioning date / 30 months delay in FID compare to TYNDP2015 time schedule
Delay Explanation	Permitting phase completed 1Q2015 and FEED completed in Sept. 2017. Final negotiations with Bulgartransgaz and Public Gas Corporation (DEPA) for acquiring stakes in GASTRADE is estimated to be completed by 3Q2019. GASTRADE initiated a Market Test in October 2018 and critical mass terminal use agreements are anticipated by Oct.2019. The first phase of the Market Test (EoI) was successfully completed on 31.12.2018 where 20 participants from SEE Europe beyond expressed their interest for booking up to 12.2 bcm/y regasification capacity. Completion of financing agreements and EPC contract awards (subject to FID) required for FID. GASTRADE initiated on 21.09.2018 the Tendering procedure for the supply of the FSRU and for the EPCI of the pipeline. The first phase of the Tenders (Pre-qualification and EoI) was completed in April 2019. Evaluation procedure has been concluded and second phase of the Tender (RfP) will launch in Q3 2019. FID is planned for 1Q 2020 and COD for 1Q 2022.

Expected Gas Sourcing

LNG (WO), The pipeline will be fed with regasified LNG from the floating unit (LNG-N-062) -hence it means various sources.

Comments about the Third-Party Access Regime

GASTRADE on 28.06.2018 submitted an Application for TPA Exemption to the NRA. According to par. 6 of Article 36 of the EU Directive 73/2009/EC, a Market Test has to be conducted in order to seek the interest of the market for the Project. On 29.06.2018 GASTRADE submitted to RAE the draft Guidelines for the first phase of the Market Test (Expression of Interest). The Guidelines were approved by RAE on 25.09.2018. Following this GASTRADE submitted to RAE for approval the draft EoI Notice which was approved on 18.10.2018. GASTRADE issued the Invitation for Expression of Interest for regasification capacity reservation in the Project on 30.10.2018. The procedure was completed on 31.12.2018 with a positive outcome. Twenty companies from SEE Europe and beyond expressed their interest for a total regasification capacity of up to 12.2 bcm/year. The second phase (request for Binding offers) will be launched once the relevant Guidelines and Notice are approved by RAE (3Q2019).

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Main drivers: 1. Expressed requirement for diversification of supply sources and routes for SEE markets (Bulgaria, Serbia, North Macedonia, Romania, Hungary and Ukraine) enhancing security of supply, competition and pricing options potentially resulting in energy costs reduction creates market / demand opportunities for the project 2. Possible discontinuation of gas flows transmitted through Ukraine to the SEE markets. 3. Regional demand growth
Benefit Description	LNG terminal in northern Greece will: Secure new natural gas quantities for the supply of the Greek and the SEE markets, hence enhancing security of supply of these markets. Diversify the supply sources and routes in particular with regards to markets with limited supply options (Bulgaria, Serbia, Romania, N. Macedon, Hungary, Ukraine) and to this extent lift existing isolation with an aim to reduce dependency on Russian gas whilst providing access to multiple sources both existing and new such as US and East Med gas to the markets of SEE. Support the South Corridor project(s) by providing alternative/additional supply quantities when/if required and the interoperability of systems and the creation of a regional gas trading hub. The Project technical design will include possibility for LNG-reloading ability for the purpose of supporting LNG bunkering activities and will contribute to the decrease of CO2 emissions from power production and elimination of the harmful SOX, NOX and PM.

Barriers	
Barrier Type	Description
Regulatory	Tariff levels for the Project should enjoy the same regulatory regime as the one applied for other competitive regulated infrastructures in the area in order for the Project to be commercially attractive to potential regional offtakers and therefore financially viable. Tariff levels will determine the required financing structure (equity/grant/debt ratios) and will be decided upon release of the TPA Exemption decision.
Permit Granting	Completed
Political	No political barriers. On the contrary, there is clear and declared Political support for the Project from the impacted Member States and in particular from the governments of Greece, Bulgaria, Romania and Serbia. Political stability in the region of the Project's direct influence will support commercial viability of the Project. Both Greece and Bulgaria have included the Project in their Energy Strategies mentioning the benefits of security of supply, diversification of routes, price convergence and sustainability.
Others	Delays in the implementation/start up of new regional gas infrastructures (IGB, IBS, BRUA) and in the upgrade of existing ones including reverse flow availability. The most critical one is the timing of start-up of the Interconnector Greece-Bulgaria (IGB). Also, availability of capacity in the Greek, Bulgarian and Romanian Transmission Systems and reverse flow capacity in Trans Balkan enabling flows from the Project to Ukraine. Finally, reverse flow functionality to the Turkey-Greece Interconnector will open up the Turkish market to the Project. Regarding Financing: The project received grants for studies (from the 1st CEF Energy Call-August 2014) and is eligible to receive grants from the Greek structural programs (NSRF). Award of such Public financing for works will be critical for the Project's commercial viability.
Market	The markets in SEE are not mature. Currently all gas transactions are done on a bilateral basis and no price transparency exists. Creation of a trading hub in the region with multiple supply options will generate significant opportunities for the marketing of gas imported through the LNG Alexandroupolis floating terminal. Recent interconnection agreements at the border IPs between EU member states in SE Europe are enhancing Project commercialization opportunities. Critical to the success of the Project are the transmission tariff structures and levels. The ability for LNG to penetrate markets without direct access to LNG terminals (e.g. Bulgaria, Serbia, Romania, Ukraine, Hungary, etc.) relates directly to the competitiveness of the landed prices of LNG into these markets vis-a-vis pipeline gas. To this extent, gas transmission tariffs from LNG terminal evacuation pipelines all the way through to end consumers should be reduced to allow for competitive pricing at end consumer level.
Financing	The Project has been awarded with grants for studies (CEF 2014 Call). The Project has secured the incentive to apply for grants within the National structural funds (NSRF - National Strategic Reference Framework). Award of such Public financing will be critical for the Project's commercial viability. Project's CBA has been prepared and consulted with JASPERS. The CBA will be submitted officially to DG Comp through the Ministry of Economy Development within July 2019 (Notification for State Aid). The company has already signed a Mandate Letter with a major commercial bank of Greece for the total amount of dept. The target is that the terms of the debt financing agreement will be finalized before FID. The debt financing will be determined by contractual agreements regarding capacity reservation at the Project.
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.6</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for studies only</i>
Additional Comments	<i>CBCA is non applicable for the Project</i>	Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	<i>The project is included in the Major Project List of the Operational Programme; eligible for grant financing from the National Strategic Reference Framework (NSRF). Notification for State Aid for the Project's financing to be submitted to DG Comp within July. Gastrade has already consulted with Jaspers the Cost Benefit Analysis (CBA) for the Project. The CBA will be submitted to DG Comp within the Notification documentation.</i>

Slovenian-Hungarian interconnector

TRA-N-325	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	Plinovodi, Snam Retegas and FGSZ agreed to create a new bidirectional gas route in the region. Main target to ensure a new bidirectional transmission route between the three countries.The shippers submitted higher capacity demand, therefore the TSO-s reconsidered the project and two stage project was suggested. Phase 1 DN600 pipeline between Nagykanizsa and Tornyszentmiklós (41 km), phase 2 DN600 pipeline between Nagykanizsa and Kozármisleny (150 km) and one compressor station at Nagykanizsa. Snam Retegas was involved and HU-SI-IT bidirectional transmission corridor was suggested.		
PRJ Code - PRJ Name	PRJ-G-060 - Hungary – Slovenia interconnection		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Pince (SI) / Tornyszentmiklos (HU)	FGSZ Ltd.	2023	HU	SI	12.80 GWh/d
				Comment: phase I.	
	FGSZ Ltd.	2023	SI	HU	12.80 GWh/d
				Comment: phase I.	
	FGSZ Ltd.	2025	HU	SI	46.50 GWh/d
				Comment: phase II. total capacity up to 59,3 GWh/d	
	FGSZ Ltd.	2025	SI	HU	46.50 GWh/d
				Comment: phase II. total capacity up to 59,3 GWh/d	

Sponsors		General Information		NDP and PCI Information	
FGSZ Ltd.	100%	Promoter	FGSZ Ltd.	Part of NDP	Yes (Hungarian TYNDP 2017)
		Operator	FGSZ Ltd.	NDP Number	12.12.
		Host Country	Hungary	NDP Release Date	19/12/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.23 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2015	Considered TPA Regime	Regulated
Feasibility	05/2016	10/2019	Considered Tariff Regime	Regulated
FEED	03/2021	02/2022	Applied for Exemption	No
Permitting	01/2021	03/2022	Exemption Granted	Not Relevant
Supply Contracts		04/2022		
FID		08/2020		
Construction	03/2022	10/2025	Exemption in entry direction	0.00%
Commissioning	2023	2025	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Nagykanizsa-Kozármisleny	phase II.	600	150	12	2025
Nagykanizsa-Tornyiszentmiklós	phase I.	600	41		2023
Total			191	12	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Infrastructure to enable reverse flow and to increase diversification of entry points and use of regional storage capacities Increase of flexibility and diversification of routes and gas sources. Infrastructure allowing the increase of security of supply for the region. Price convergence and market integration.

Expected Gas Sourcing
Algeria, Caspian Region, Libya, Russia, LNG (HR,IT), Romania

Benefits	
Main Driver	Others
Main Driver Explanation	
Benefit Description	Infrastructure to enable reverse flow and to increase diversification of entry points and use of regional storage capacities Increase of flexibility and diversification of routes and gas sources. Infrastructure allowing the increase of security of supply for the region. Price convergence and market integration.

Barriers	
Barrier Type	Description
Financing	Availability of funds and associated conditions
Regulatory	Low rate of return
Market	Lack of market maturity

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of Understanding (MOU)		No	26/11/2009

CBCA	
Decision	No, we have not submitted an investment request yet, but we do plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	Yes
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

R15/1 Pince - Lendava - Kidričevo

TRA-N-112	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	Interconnector with the transmission system of the Hungarian TSO. Cross-border transmission, enabling access to underground storages in Hungary for Slovenian gas suppliers, enabling access to LNG terminals in northern Adriatic and other gas sources for Hungarian gas suppliers, connection of Hungarian and Slovenian gas market and improving of N-1 infrastructure standard for SI and HU. PCI 6.23. Hungary – Slovenia interconnection (Nagykanizsa - Tornyiszentmiklós (HU) - Lendava (SI) - Kidričevo).		
PRJ Code - PRJ Name	PRJ-G-060 - Hungary – Slovenia interconnection		

Capacity Increments Variant For Modelling					
Variant : Variant1 (Default)		Most likely scenario			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Pince (SI) / Tornyszentmiklos (HU)	Plinovodi d.o.o.	2023	HU	SI	12.90 GWh/d
				Comment: Phase 1	
	Plinovodi d.o.o.	2023	SI	HU	12.90 GWh/d
				Comment: Phase 1	
	Plinovodi d.o.o.	2025	HU	SI	36.10 GWh/d
				Comment: Phase 2	
Total capacity is 49 GWh/d.					
	Plinovodi d.o.o.	2025	SI	HU	36.10 GWh/d
				Comment: Phase 2	
Total capacity is 49 GWh/d.					

Capacity Increments Variant(s) For Information Only					
Variant : Variant2		Increased DN			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Pince (SI) / Tornyszentmiklos (HU)	Plinovodi d.o.o.	2026	HU	SI	59.30 GWh/d
				Comment: DN600	
	Plinovodi d.o.o.	2026	SI	HU	59.30 GWh/d

Pince (SI) / Tornyszentmiklos (HU)

Comment: DN600

Sponsors		General Information		NDP and PCI Information	
Plinovodi	100%	Promoter	<i>Plinovodi d.o.o.</i>	Part of NDP	<i>Yes (TYNDP for the period 2019-2028)</i>
		Operator	<i>Plinovodi d.o.o.</i>	NDP Number	<i>C3</i>
		Host Country	<i>Slovenia</i>	NDP Release Date	<i>26/11/2018</i>
		Status	<i>Planned</i>	NDP Website	<i>NDP URL</i>
		Website	<i>Project's URL</i>	Currently PCI	<i>Yes (6.23 (2020))</i>
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		<i>04/2010</i>	Considered TPA Regime	<i>Regulated</i>
Feasibility	<i>11/2014</i>	<i>02/2015</i>	Considered Tariff Regime	<i>Regulated</i>
FEED	<i>09/2020</i>	<i>12/2023</i>	Applied for Exemption	<i>No</i>
Permitting	<i>09/2020</i>	<i>07/2024</i>	Exemption Granted	<i>No</i>
Supply Contracts		<i>10/2025</i>		
FID		<i>09/2020</i>	Exemption in entry direction	<i>0.00%</i>
Construction	<i>04/2022</i>	<i>10/2025</i>	Exemption in exit direction	<i>0.00%</i>
Commissioning	<i>2023</i>	<i>2025</i>		
Grant Obtention Date				

Pipelines and Compressor Stations						
Variant1 (Default)		Most likely scenario				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
R15/1 Pince - Lendava - Kidričevo		500	73	6	2025	
Total			73	6		
Pipelines and Compressor Stations - Alternative Variant						
Variant2		Increased DN				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
R15/1 Pince - Lendava - Kidričevo		600	73	6	2026	
Total			73	6		
Fulfilled Criteria						
Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas					
Specific Criteria Fulfilled Comments	The project will enable a new interconnection between Slovenia and Hungary, enabling access to underground storages in Hungary for Slovenian gas suppliers, enabling access to LNG terminals in northern Adriatic and other gas sources for Hungarian gas suppliers, contributing to the diversification of import sources and routes and the security of supply for both countries. It will enable the connection of Hungarian and Slovenian gas market and improving of N-1 infrastructure standard for SI and HU.					
Expected Gas Sourcing						
Algeria, Caspian Region, Russia, LNG (HR,IT), UGS in Hungary						
Benefits						
Main Driver	Market Demand					
Main Driver Explanation	Also essential contribution to Security of supply.					
Benefit Description	Cross-border transmission, enabling access to underground storages in Hungary for Slovenian gas suppliers, enabling access to LNG terminals in northern Adriatic and other gas sources for Hungarian gas suppliers, connection of Hungarian and Slovenian gas market and improving of N-1 infrastructure standard for SI and HU.					

Barriers	
Barrier Type	Description
Permit Granting	Long lasting and complicated procedures of Spatial planning (National Spatial Plan, SEA and EIA procedures, Environmental consent) as well as the procedure of acquiring the Construction permit (long procedures for land acquisition, etc.)

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of Understanding (MOU)		Yes	27/11/2009

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 0.3</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

GCA 2015/08: Entry/Exit Murfeld

TRA-N-361	Project	Pipeline including CS	Non-FID
Update Date	01/10/2019		Advanced
Description	The Project enables incremental capacity at the IP Murfeld in both directions (AT->SI, SI->AT). Moreover, physical RF capacity at the Entry Point Murfeld is achieved.		
PRJ Code - PRJ Name	PRJ-G-066 - Bidirectional gas route Austria-Slovenia		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Murfeld (AT) / Ceršak (SI)	Gas Connect Austria GmbH	2023	AT	SI	105.20 GWh/d
	Comment: conversion from Nm³/h to kwh/h with a GCV of 11.19				
	Gas Connect Austria GmbH	2023	SI	AT	166.50 GWh/d
Comment: conversion from Nm³/h to kwh/h with a GCV of 11.19					

Sponsors	General Information		NDP and PCI Information	
	Promoter	GAS CONNECT AUSTRIA GmbH	Part of NDP	Yes (NDP 2019-2028)
	Operator	Gas Connect Austria GmbH	NDP Number	GCA 2015/08
	Host Country	Austria	NDP Release Date	11/02/2019
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	Yes (6.26.1.4 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting	07/2020	12/2020	Exemption Granted	No
Supply Contracts		03/2021		
FID		11/2020		
Construction	05/2021	08/2023	Exemption in entry direction	0.00%
Commissioning	2023	2023	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
Loop Murfeld - Cersak	Further scope of investment: - Extension of Weitendorf and Murfeld metering stations (Filter separator, metering routes,regulation, piping); -New Murfeld CS (gas driven)	500	2		0	
Loop SOL pipeline	Further scope of investment: - Extension of Weitendorf and Murfeld metering stations (Filter separator, metering routes,regulation, piping); -New Murfeld CS (gas driven)	600	26		0	
Total			28			

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	This project aims at covering the projected additional demand for capacity at the IP Murfeld entry and exit points. It will enable reverse flow. This strengthens security of supply, competition and market integration. In addition, the project contributes to sustainability.

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No, we do not plan to apply
Other Financial Assistance	No
Comments	
General Comments	

Upgrade of Murfeld/Ceršak interconnection (M1/3 Interconnection Ceršak)

TRA-N-389	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	Adjustment of operating parameters of the Austrian and Slovenian transmission systems, increasing the transmission capacity and enabling bidirectional operation in the frame of the bidirectional gas route Austria - Slovenia - Croatia. The project is a part of the PCI 6.26 Cluster Croatia - Slovenia - Austria at Rogatec.		
PRJ Code - PRJ Name	PRJ-G-066 - Bidirectional gas route Austria-Slovenia		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Murfeld (AT) / Ceršak (SI)	Plinovodi d.o.o.	2023	AT	SI	78.50 GWh/d
	Plinovodi d.o.o.	2023	SI	AT	162.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Plinovodi	100%	Promoter	Plinovodi d.o.o.	Part of NDP	Yes (TYNDP for the period 2019-2028)
		Operator	Plinovodi d.o.o.	NDP Number	C4
		Host Country	Slovenia	NDP Release Date	26/11/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.26.1.5 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2015	Considered TPA Regime	Regulated
Feasibility	04/2015	05/2015	Considered Tariff Regime	Regulated
FEED	07/2020	07/2022	Applied for Exemption	No
Permitting	07/2021	12/2022	Exemption Granted	No
Supply Contracts		12/2023		
FID		09/2021	Exemption in entry direction	0.00%
Construction	07/2022	12/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Upgrade of Murfeld/Ceršak interconnection	Pipeline length: 160m.	800	0		0
Total			0		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	The Project enables incremental capacity at the IP Murfeld/Ceršak in both directions (from AT to SI and from SI to AT) and contributes to the common benefits of removing bottlenecks, improving N-1 for the Slovenian TSO, improving SoS for Austria, Slovenia and Croatia and will serve as a base for future gas evacuation for Croatia through Slovenia to Austria.

Expected Gas Sourcing

Caspian Region, Russia, LNG (HR)

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Also essential contribution to Security of supply.
Benefit Description	

CBCA	
Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Djewels

ETR-N-396	Project	Energy Transition Related Project	Non-FID
Update Date	25/08/2020		Advanced
Description	The project is a significant step towards scaling up the electrolysis technology, (co-) develop, own and operate a large scale electrolyser, offering conversion services (electricity à hydrogen) to market parties, contribution to the development of a hydrogen economy in (North-) Netherlands, particularly in the chemical industry and mobility sector.		
PRJ Code - PRJ Name	PRJ-G-105 - Hydrogen network northwest Europe		

Sponsors	General Information	
	Promoter	Nouryon
	Operator	Gasunie Transport Services B.V.
	Host Country	Netherlands
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		12/2019
Feasibility	01/2020	12/2020
FEED	01/2021	12/2021
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2030	2030
Grant Obtention Date		



Hydrogen transmission backbone Netherlands

ETR-N-370	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	This project aims to create a nationwide hydrogen transmission grid. It connects the five largest industrial clusters in the Netherlands, the German Ruhrgebiet and Dutch underground gas storage. The hydrogen transmission backbone will be build with existing as well as new gas infrastructure. Transmission capacity can be at least 10 GW (240 GWh/d) in 2030 for all x-border interconnection points.		
PRJ Code - PRJ Name	PRJ-G-105 - Hydrogen network northwest Europe		

Sponsors	General Information
	Promoter <i>N.V. Nederlandse Gasunie</i>
	Operator <i>Gasunie Transport Services B.V.</i>
	Host Country <i>Netherlands</i>
	Status <i>Planned</i>
	Website

Schedule	Start Date	End Date
Pre-Feasibility		<i>09/2018</i>
Feasibility	<i>07/2019</i>	<i>10/2019</i>
FEED	<i>07/2019</i>	<i>07/2021</i>
Permitting	<i>07/2019</i>	<i>07/2023</i>
Supply Contracts		<i>01/2025</i>
FID		<i>01/2025</i>
Construction	<i>01/2025</i>	<i>12/2029</i>
Commissioning	<i>2030</i>	<i>2030</i>
Grant Obtention Date		



North Sea Wind Power Hub

ETR-N-322	Project	Energy Transition Related Project	Non-FID
Update Date	24/09/2020		Advanced
Description	An opportunity for internationally coordinated, large scale, far offshore wind energy from the North Sea. An opportunity which would deliver energy at competitive prices around 2030 and facilitate meeting the Paris agreement. Therefore we are committed to explore and develop regional socio-economic beneficial and reliable offshore infrastructure, including possible conversion into P2G, that supports wind farm operations and interconnections between markets. Average daily production of H2 is 30 GWh/d.		
PRJ Code - PRJ Name	PRJ-G-105 - Hydrogen network northwest Europe		

Sponsors	General Information	
	Promoter	N.V. Nederlandse Gasunie
	Operator	Gasunie Transport Services B.V.
	Host Country	Netherlands
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		12/2020
Feasibility		12/2021
FEED		12/2026
Permitting		12/2025
Supply Contracts		
FID		
Construction		12/2030
Commissioning	2032	2032
Grant Obtention Date		



P2G Velke Kapusany

ETR-A-312	Project	Energy Transition Related Project	Non-FID
Update Date	14/08/2020		Advanced
Description	Project P2G Velke Kapusany aims to store renewable energy in form of the hydrogen (H2) in the mixture with natural gas using the new Naftas gas storage. The unique structure as well as the location of the UGS with all the planned interconnection will allow to store and distribute H2 for neighbouring countries. That's capacity will allow to install and use more renewable energy in region without any negative impact to the electrical grid as well as will provide energy safety of supply. The project counts to install the electrolysis units to transform the electricity to gas (H2). Mixing of the natural gas with the renewable hydrogen could be the possibility how to decrease the CO2 emission from the natural gas.		
PRJ Code - PRJ Name	PRJ-G-107 - UGS Velke Kapusany		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Velke Kapusany	NAFTA a.s.	2023	STcSK	SK	1.23 GWh/d
Comment: hydrogen to be injected into UGS					

Sponsors		General Information	
NAFTA a.s.	100%	Promoter	NAFTA a.s. (joint stock company)
		Operator	NAFTA a.s.
		Host Country	Slovakia
		Status	Planned
		Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		08/2019
Feasibility	09/2019	01/2020
FEED	02/2020	04/2021
Permitting	11/2017	04/2021
Supply Contracts		09/2020
FID		01/2020
Construction	06/2021	06/2023
Commissioning	2023	2023
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
P2G Velke Kapusany	<i>The projects expects to install P2G technology with power about 78 MW. Produced hydrogen will be injected into planned UGS Velke Kapusany at rate about 1,23 GWh/day. Compressor units as well as other infrastructure will be used from the UGS Velke Kapusany. The power of compressor unit should be around 8400 kW.</i>	none	2023

Underground Gas Storage Velke Kapusany

UGS-A-356	Project	Storage Facility	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>The Underground Gas Storage Velke Kapusany project aims to construct an underground gas storage in a depleted gas field in the east of Slovakia in close vicinity of Ukraine (1 km), Hungary (15 km) and Poland (70 km). The storage is located directly at the Ukraine-Slovakia entry/exit point Velke Kapusany, and at the center of the soon-to-be NSI East Gas corridor.</p> <p>The projected working gas volume of the UGS Velke Kapusany is 340 mcm with injection and withdrawal rate set at 3.75 mcm/d. This capacity will serve a number of purposes, such as:</p> <ul style="list-style-type: none">- Providing security of supply to countries with insufficient storage capacities along the north-south interconnector, mainly Poland and the Balkan countries as well as providing domestic security of supply- Enhancing liquidity and facilitating gas trading at an emerging "gas hub" at the intersection of the north-south and east-west gas corridors- Improving physical load factor of the existing and future gas transmission infrastructure		
PRJ Code - PRJ Name	PRJ-G-107 - UGS Velke Kapusany		

Capacity Increments Variant For Modelling					
Variant : Default		Default variant for use in modeling			
Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Velke Kapusany	NAFTA a.s.	2023	STcSK	SK	37.05 GWh/d
	Comment: exit from UGS into TSO. Total Capacity includes natural gas in mixture with hydrogen				
	NAFTA a.s.	2023	SK	STcSK	37.05 GWh/d
	Comment: entry from TSO into UGS. Total Capacity includes natural gas in mixture with hydrogen				
Capacity Increments Variant(s) For Information Only					
Variant : Hydrogen		Variant for P2G technology usage			
Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Velke Kapusany	NAFTA a.s.	2023	STcSK	SK	1.23 GWh/d
	Comment: hydrogen to be supplied to the TSO				
	NAFTA a.s.	2023	SK	STcSK	1.23 GWh/d
	Comment: hydrogen to be injected in UGS				

Sponsors		General Information		NDP and PCI Information	
NAFTA a.s.	100%	Promoter	NAFTA a.s. (joint stock company)	Part of NDP	Yes (Ten-Year Network Development Plan of the transmission system of the company Eustream)
		Operator	NAFTA a.s.	NDP Number	chapter 3.3
		Host Country	Slovakia	NDP Release Date	30/11/2017
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		11/2017	Considered TPA Regime	Negotiated
Feasibility	04/2019	09/2019	Considered Tariff Regime	Negotiated
FEED	02/2020	04/2021	Applied for Exemption	No
Permitting	11/2017	04/2021	Exemption Granted	Not Relevant
Supply Contracts		09/2020		
FID		01/2020	Exemption in entry direction	0.00%
Construction	06/2021	06/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commissioning Year
Underground Gas Storage Velke Kapusany	Depleted Field	Yes	Commissioning	340	3.8	3.8	100	none	2023

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing	
Caspian Region, Norway, Russia, LNG (PL)	

Benefits	
Main Driver	Others
Main Driver Explanation	UGS Velke Kapusany aims at reinforcing the security of gas supplies in the CEE region and enhancing the market integration of EU member states, namely Poland, Slovakia, Hungary and Ukraine as well. Along with the security of supply, the project will also help to promote sustainability by reducing CO2 emissions and usage of RES.
Benefit Description	Enabling reverse gas flow to Ukraine led to a sharp increase in trading at Slovak virtual trading point and Ukraine scored a number of new gas suppliers from Western Europe. As the PL-SK interconnector is moving ahead, we can expect a similar scenario with Poland – another country that is relentlessly pursuing its goal of source diversification. Higher number of trading counterparties is, however, only possible when there is enough flexibility from storage and if the storage is close to the point of destination. With the NSI East Gas corridor and Eastring in the works, this can become a competition on a higher scale as natural gas from the North Sea, Caspian, Central Asia, Iran, the Middle East or LNG from multiple locations will have doors open to the region that had long suffered from isolation and market stagnation.

Barriers	
Barrier Type	Description
Market	Lack of market support
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for studies and works</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Connecting pipe to LNG terminal in Latvia

TRA-N-1181	Project	Pipeline including CS	Non-FID
Update Date	12/06/2020		Non-Advanced
Description	Currently Latvia has only one direct source of gas supply-by pipeline from Russia and limited options to receive gas from Klaipeda LNG terminal. Even having an underground gas storage, which has sufficient capacity to supply entire country for more than a year, reliability of supply can be reached only when necessary volumes of gas are injected in the storage because receiving gas by pipeline from Russia in winter is problematic. Skulte LNG terminal will be located only around 30 km from Inčukalns UGS storage, and therefore will not need any storage capacities at site thus considerably decreasing costs of construction and operation. In order to deliver gas from the terminal a pipeline of the total length of 31.5 km (27.5 km onshore and 4 km offshore) has to be built.		
PRJ Code - PRJ Name	PRJ-G-108 - LNG terminal in Latvia		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Skulte (LV)	Conexus Baltic Grid	2021	LNG_Tk_LV	LV	170.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
JSC "Conexus Baltic Grid"100%	Promoter	JSC "Conexus Baltic Grid"	No ((4) there is no obligation at national level for such a project to be part of the NDP)	
	Operator	Conexus Baltic Grid		
	Host Country	Latvia	Part of NDP	
	Status	Planned	NDP Number	
	Website	Project's URL	NDP Release Date	
			NDP Website	
			Currently PCI	No
			Priority Corridor(s)	BEMIP

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		05/2019	Considered TPA Regime	Regulated
Feasibility	09/2019	12/2019	Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2021	2021		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
	No						No storage capacities needed	2021	60

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

LNG ()

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	In order to secure gas supplies to Latvia and other Baltic countries Inčukalns UGS shall be filled with sufficient volume of gas. Since at present it can be done mainly by pipeline from Russia and limited amounts from Klaipeda LNG terminal it is important to create additional source of supply which due to geografic location only can be LNG import terminal. In order to deliver gas from LNG terminal to Incukalns UGS the connecting pipeline has to be built.
Benefit Description	This is the most cost efficient solution for the regional LNG terminal and connecting pipeline

Barriers	
Barrier Type	Description
Political	There is no agreement of the Baltic Countries on the regional LNG terminal
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

CBCA	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>
Submissin Date	<i>01/03/2020</i>
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>Yes</i>
Grants for works amount	<i>Mln EUR 13.0</i>
Intention to apply for CEF	<i>Yes, for work only</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Skulte LNG

LNG-N-912	Project	LNG Terminal	Non-FID
Update Date	20/09/2019		Non-Advanced
Description	The purpose of the project is to build cost effective LNG FRU solution which will have directly linked to Latvia Incukalna underground storage facilities providing considerable flexibility and low price spread with European gas hubs		
PRJ Code - PRJ Name	PRJ-G-108 - LNG terminal in Latvia		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Skulte (LV)	AS Skulte LNG Terminal	2023	LNG_Tk_LV	LV	150.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Full project		Promoter	AS Skulte LNG Terminal	Part of NDP	No ((6) others - please comment below)
Nacionala gazes terminala biedriba (National Gas Terminal Society)	56%	Operator	AS Skulte LNG Terminal	NDP Number	
		Host Country	Latvia	NDP Release Date	
Arnfinn Unum	16%	Status	Planned	NDP Website	
Peter Ragauss	16%	Website	Project's URL	Currently PCI	No
SIA DIGAS	10%			Priority Corridor(s)	BEMIP

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		03/2015	Considered TPA Regime	Regulated
Feasibility	03/2015	05/2016	Considered Tariff Regime	Regulated
FEED	09/2019	08/2020	Applied for Exemption	No
Permitting	04/2020	06/2021	Exemption Granted	No
Supply Contracts		02/2023		
FID		12/2020		
Construction	07/2021	09/2023	Exemption in entry direction	100.00%
Commissioning	2023	2023	Exemption in exit direction	100.00%
Grant Obtention Date	30/03/2020	30/03/2020		

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
FRU	Yes	Pre feed	1.5	170,000	17.00	700,000	Reloading will be available	2023	30

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	The project was delayed due to lack of political support. Current government is very supportive and we have proceeded with EIA process. By political support we mean government instruction to Latvenergo (state own electricity company) to sign offtake agreement for 0.3bcm annual consumption on ToP basis. EIA process is the key issue now as the pipeline is crossing 156 land properties.

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	Spot market, low cost LNG entry point, seasonal benefits with the use of Incukalns UGS
Benefit Description	Low cost LNG terminal with direct link to UGS - provides felixibility of supply.

Barriers

Barrier Type	Description
Political	Project needs Latvenergo as the main offtaker for 0.3bcm. Annual ToP payment - 2.0mio EUR is very competetitive.
Market	Lack of market maturity
Regulatory	Lack of proper transposition of EU regulation

CBCA

Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>
Submissin Date	<i>01/09/2020</i>
Decision Date	
Website	
Countries Affected	<i>Estonia, Finland, Latvia, Lithuania</i>
Countries Net Cost Bearer	<i>Estonia;#Finland;#Latvia</i>
Additional Comments	

Financial Assistance

Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>Yes, for studies and works</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Athos

ETR-N-432	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	Development of an open CO2 backbone and offshore storage in the North sea channel region for large industry		
PRJ Code - PRJ Name	PRJ-G-115 - CCS/U Netherlands		

Sponsors	General Information
	Promoter <i>N.V. Nederlandse Gasunie</i>
	Operator <i>Gasunie Transport Services B.V.</i>
	Host Country <i>Netherlands</i>
	Status <i>Planned</i>
	Website

Schedule	Start Date	End Date
Pre-Feasibility		<i>12/2018</i>
Feasibility	<i>01/2019</i>	<i>06/2019</i>
FEED	<i>01/2021</i>	<i>04/2021</i>
Permitting	<i>01/2020</i>	<i>04/2020</i>
Supply Contracts		<i>01/2021</i>
FID		<i>10/2023</i>
Construction	<i>10/2023</i>	<i>01/2026</i>
Commissioning	<i>2026</i>	<i>2026</i>
Grant Obtention Date		



Porthos

ETR-A-430	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	Development of an open CO2 backbone in the Port of Rotterdam with a offshore (permanent) CO2 storage with total storage capacity of ca 37 MT		
PRJ Code - PRJ Name	PRJ-G-115 - CCS/U Netherlands		

Sponsors	General Information
	Promoter <i>N.V. Nederlandse Gasunie</i>
	Operator <i>Gasunie Transport Services B.V.</i>
	Host Country <i>Netherlands</i>
	Status <i>Planned</i>
	Website

Schedule	Start Date	End Date
Pre-Feasibility		<i>02/2018</i>
Feasibility	<i>04/2018</i>	<i>04/2018</i>
FEED	<i>04/2019</i>	<i>12/2020</i>
Permitting	<i>01/2020</i>	<i>07/2021</i>
Supply Contracts		<i>01/2020</i>
FID		<i>12/2020</i>
Construction	<i>10/2021</i>	<i>04/2023</i>
Commissioning	<i>2023</i>	<i>2023</i>
Grant Obtention Date		



Biomethane: Reverse flow projects

ETR-N-624	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>The scattered production of renewable gas will take an increasing part in the gas mix. Grid extensions will be required to collect this generation and backhaul facilities will allow the excess energy to be absorbed when supply exceeds local demand.</p> <p>In the framework of the scenario of the Energy Transition law for which renewable gas injections would reach 22 TWh by 2028, the number of producers connected to the distribution network would amount to about 1,300. Under these assumptions, it can be estimated that around 37 backhaul installations and mutualised compressors –90% in D/T (Distribu-tion/Transmission) and 10% in T/T (Regional Transmis-sion/Principal Transmission infrastructures)– would be re-quired, i.e. a financial envelope of €435 million by 2030.</p> <p>These network adaptations will enable to maximize the volume of biomethane injected into the gas system and reach national target for renewable gas (10% of gas consumption in 2030)</p>		
PRJ Code - PRJ Name	PRJ-G-118 - Biomethane: reverse flow projects in France		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Forecast Production France GRTgaz	GRTgaz	2028	NPcFRg	FR	70.00 GWh/d
Comment: potential for 22 TWh in 2028					

Sponsors	General Information	
	Promoter	GRTgaz
	Operator	GRTgaz
	Host Country	France
	Status	Planned
	Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2028	2028
Grant Obtention		
Date		

West Grid Synergy

ETR-F-587	Project	Energy Transition Related Project	FID
Update Date	11/06/2020		Advanced
Description	<p>The biomethane production is significantly increasing since 2016. In France, hundreds of biomethane upcoming plant projects are registered to inject in the distribution and transmission gas system. However, in many cases, the injection capacity of the local distribution system is not enough to integrate such production. Furthermore, decentralized production has significant impacts on the gas infrastructure operation (monitoring, maintenance, coordination with the stakeholders ...). In order to adapt the distribution and transmission system to those structural changes, GRTgaz has launched a demonstrator and a major industrial program.</p> <p>3 gas utilities (GRTgaz, GRDF and SOREGIES) investigate this issue together with public actors (3 Departmental Offices for Energy : SléML, SYDEV and Morbihan Energies) through an operational demonstrator named West Grid Synergy and located in the West of France. This demonstrator consists of territories with important biomethane production projects and very</p>		
PRJ Code - PRJ Name	PRJ-G-118 - Biomethane: reverse flow projects in France		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Forecast Production France GRTgaz	GRTgaz	2019	NPcFRg	FR	0.40 GWh/d

Sponsors	General Information	
	Promoter	GRTgaz
	Operator	GRTgaz
	Host Country	France
	Status	In Progress
	Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		01/2018
Feasibility	01/2018	01/2019
FEED	01/2019	01/2020
Permitting		
Supply Contracts		
FID		07/2018
Construction	08/2018	04/2019
Commissioning	2019	2019
Grant Obtention Date		

Interconnection between the RO and the UA gas transmission systems

TRA-N-596	Project	Pipeline including CS	Non-FID
Update Date	19/09/2019		Advanced
Description	The project entails the achievement of the gas transmission infrastructure in the direction Gheraesti - Siret in order to create a new interconnection with Ukraine.		
PRJ Code - PRJ Name	PRJ-G-121 - Romania - Ukraine Gas Interconnection		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Siret (RO) / Khotyn (UA)	SNTGN Transgaz S.A.	2025	RO	UAe	58.10 GWh/d
	SNTGN Transgaz S.A.	2025	UA	RO	87.10 GWh/d

Sponsors	General Information		NDP and PCI Information	
SNTGN Transgaz SA	Promoter	SNTGN Transgaz SA	Yes (The Development Plan of the National Gas Transmission System 2018 - 2027)	
100%	Operator	SNTGN Transgaz S.A.		
	Host Country	Romania	NDP Number	7.9
	Status	Planned	NDP Release Date	14/12/2018
	Website		NDP Website	NDP URL
			Currently PCI	No
			Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		11/2018	Considered TPA Regime	Regulated
Feasibility	01/2019	06/2020	Considered Tariff Regime	Regulated
FEED	07/2020	12/2021	Applied for Exemption	No
Permitting	07/2020	12/2021	Exemption Granted	No
Supply Contracts				
FID		12/2021	Exemption in entry direction	0.00%
Construction	01/2022	12/2024	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Gheraesti - Siret		700	146	10	2025
Total			146	10	

Fulfilled Criteria

Specific Criteria Fulfilled	Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

LNG (), Black Sea, EU Hubs

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Interconnector Romania - Ukraine

TRA-N-502	Project	Pipeline including CS	Non-FID
Update Date	15/06/2020		Advanced
Description	Building new pipeline between Ukraine and Romania in the region of Khotyn in order to increase interconnectivity, market integration and SoS of Ukraine and Romania.		
PRJ Code - PRJ Name	PRJ-G-121 - Romania - Ukraine Gas Interconnection		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Siret (RO) / Khotyn (UA)	LLC Gas TSO of Ukraine	2025	RO	UAe	58.10 GWh/d
	LLC Gas TSO of Ukraine	2025	UA	RO	87.10 GWh/d

Sponsors		General Information		NDP and PCI Information	
Romanian part		Promoter	LLC Gas TSO of Ukraine	No ((4) there is no obligation at national level for such a project to be part of the NDP)	
SNTGN Transgaz SA	100%	Operator			
Ukrainian part		Host Country	Ukraine	NDP Number	
JSC "Ukrtransgaz"	100%	Status	Planned	NDP Release Date	
		Website		NDP Website	
				Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility	01/2020	12/2019	Considered TPA Regime	Regulated
Feasibility		12/2020	Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts	2025	2025	Exemption in entry direction	0.00%
FID			Exemption in exit direction	0.00%
Construction				
Commissioning				
Grant Obtention				
Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Ukrainian part		700	30		2025
Total			30		

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Ensuring additional SoS for the TSOs of Ukraine and Romania
Benefit Description	- access to Black Sea offshore gas for UA and the EU markets; - access to PL LNG for Romania

Barriers

Barrier Type	Description
Regulatory	Lack of proper transposition of EU regulation

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Compressor Station Kipi Increment

TRA-N-1129	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	This project represents the necessary increment for the Kipi compressor station (TRA-N-128) to reach the capacity needed to ensure the supply with gas of the Komotini-Thesprotia pipeline (TRA-N-014).		
PRJ Code - PRJ Name	PRJ-G-122 - Incremental capacity between Greece and Italy		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Kipi (TR) / Kipi (GR)	DESFA S.A.	2024	TRi	IB-GRk	275.20 GWh/d

Sponsors	General Information		NDP and PCI Information	
DESFA S.A.	Promoter	DESFA S.A.	Part of NDP	Yes (Development Plan NNGS 2017-2026)
	Operator	DESFA S.A.	NDP Number	2.2.1.2
	Host Country	Greece	NDP Release Date	21/02/2019
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	No
			Priority Corridor(s)	SGC

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		07/2017	Considered TPA Regime	Regulated
Feasibility	08/2017	07/2020	Considered Tariff Regime	Regulated
FEED	07/2020	03/2021	Applied for Exemption	No
Permitting	12/2020	12/2021	Exemption Granted	Not Relevant
Supply Contracts		01/2022		
FID		01/2022		
Construction	10/2022	12/2024	Exemption in entry direction	0.00%
Commissioning	2024	2024	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
1				20	0
Total				20	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region, Russia

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Market	Lack of market support

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Komotini-Thesprotia pipeline

TRA-N-14	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	High pressure pipeline from Komotini to Thesprotia area near Ionian coast along with 3 compressor stations and 1 operation & maintenance centre.		
PRJ Code - PRJ Name	PRJ-G-122 - Incremental capacity between Greece and Italy		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
IP Greece - Italy	DESFA S.A.	2025	GR	IB-ITs	357.70 GWh/d

Sponsors		General Information		NDP and PCI Information	
DESFA S.A.	100%	Promoter	DESFA S.A.	Part of NDP	Yes (Development Plan NNGS 2017-2026)
		Operator	DESFA S.A.	NDP Number	2.2.1.5
		Host Country	Greece	NDP Release Date	22/02/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	SGC

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		10/2018	Considered TPA Regime	Regulated
Feasibility	10/2018	03/2020	Considered Tariff Regime	Regulated
FEED	06/2020	12/2020	Applied for Exemption	No
Permitting	12/2020	12/2021	Exemption Granted	Not Relevant
Supply Contracts		03/2022		
FID		01/2022	Exemption in entry direction	0.00%
Construction	05/2022	07/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Komotini-Thesprotia		1,067	620	126	2025
Total			620	126	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP	
Delay Since Last TYNDP	1 year
Delay Explanation	Lack of interest from the market

Expected Gas Sourcing	
Caspian Region, Russia, Other Central Asian, Middle Eastern and East-Mediterranean sources.	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	The project, together with Greece-Italy interconnector project TRA-N-1246 (sponsored by SNAM), will establish one more energy corridor between Eastern gas sources and European consumers. The project aims at enhancing the diversification of supply routes at a European level and possibly, depending on the source of gas to be transmitted, the diversification of supply sources thus contributing to the improvement of the Security of Supply level in the region of South Eastern Europe.

Barriers	
Barrier Type	Description
Market	Lack of market support

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Intergovernmental Agreement between Greece and Italy for the implementation of the Interconnection Greece Italy.	The Agreement was ratified by the Greek Parliament in 2006 (Law 3441/Government Gazette A' 39/27.02.2006).	Yes	04/11/2005

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 0.3</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	<i>Financial support for studies was granted from Trans European Energy Networks, (TEN) in 2005 (Decision 2004 – G114/04 – TREN/05/TEN E – S07.51845).</i>
General Comments	

Greece - Italy interconnection

TRA-N-1246	Project	Pipeline including CS	Non-FID
Update Date	17/09/2020		Non-Advanced
Description	The project is the result of the incremental capacity cycle started in 2017 and consists of the interconnection from Greece to Italy through an offshore infrastructure.		
PRJ Code - PRJ Name	PRJ-G-122 - Incremental capacity between Greece and Italy		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
IP Greece - Italy	Snam Rete Gas S.p.A.	2025	GR	IB-ITs	357.70 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	<i>Snam Rete Gas S.p.A.</i>		<i>Yes (Ten-year development plan of the natural gas transmission network 2018-2027)</i>
	Operator	<i>Snam Rete Gas S.p.A.</i>	Part of NDP	
	Host Country	<i>Italy</i>	NDP Number	<i>not applicable</i>
	Status	<i>Planned</i>	NDP Release Date	<i>30/11/2018</i>
	Website	<i><u>Project's URL</u></i>	NDP Website	<i><u>NDP URL</u></i>
			Currently PCI	<i>No</i>
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		07/2017	Considered TPA Regime	Regulated
Feasibility	08/2017	07/2020	Considered Tariff Regime	Regulated
FEED	07/2020	02/2023	Applied for Exemption	No
Permitting	07/2020	04/2024	Exemption Granted	No
Supply Contracts		04/2024		
FID		07/2019	Exemption in entry direction	0.00%
Construction	11/2022	07/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
All the project	The specific information are still to be defined at this stage					2025
Total						

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Biomethane plants development

ETR-F-523	Project	Energy Transition Related Project	FID
Update Date	21/09/2020		Advanced
Description	The project consist in the realization of >40 MW biomethane plants all over Italy and it is an important contribution to energy transition of the country		
PRJ Code - PRJ Name	PRJ-G-127 - Italian biomethane production		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
IT - Indigenous Production	Snam4Environment	2023	NPcIT	IT	0.70 GWh/d

Sponsors	General Information
Snam4environment100%	PromoterSnam4environment
	OperatorSnam4Environment
	Host CountryItaly
	StatusIn Progress
	WebsiteProject's URL

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		11/2018
Construction		
Commissioning	2023	2023
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
All the project	The project consists in the realization of 5 plants with a potential of about 60 kScm/day		2022

Project to facilitate biomethane production plants inteconnection

ETR-N-617	Project	Energy Transition Related Project	Non-FID
Update Date	17/09/2020		Advanced
Description	The project consists of developing all the facilities needed to guarantee better conditions to make possible new biomethane plants to be connected to the gas network		
PRJ Code - PRJ Name	PRJ-G-127 - Italian biomethane production		

Sponsors	General Information
Snam Rete Gas S.p.A. 100%	Promoter Snam Rete Gas
	Operator Snam Rete Gas S.p.A.
	Host Country Italy
	Status Planned
	Website

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2022	2022
Grant Obtention Date		



Measures for achieving hydrogen blending readiness of the transmission syst

ETR-N-916	Project	Energy Transition Related Project	Non-FID
Update Date	11/06/2020		Advanced
Description	Achievement of hydrogen blending readiness in metering and leakage detection is part of a package of projects that will enable hydrogen transmission within the natural gas transmission system of Slovakia. It's focus is on raising protection of metering and leakage detection equipment against negative effects of hydrogen.		
PRJ Code - PRJ Name	PRJ-G-132 - Eustream ETR projects		

Sponsors	General Information
eustream, a.s.100%	Promoter Operator Host Country Status Website
	eustream, a.s. eustream, a.s. Slovakia Planned

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	01/2022	06/2022
Permitting	07/2022	03/2023
Supply Contracts		06/2023
FID		12/2022
Construction	07/2023	12/2024
Commissioning	2024	2024
Grant Obtention Date		



Modification of NP23 MW turboset to a hydrogen-ready low-emissions at CS04

ETR-N-913	Project	Energy Transition Related Project	Non-FID
Update Date	11/06/2020		Advanced
Description	Modification of the NP23MW turbo-set to a hydrogen-ready low-emissions system is a part of a package of projects that will enable hydrogen transmission within the natural gas transmission system of Slovakia. The low-emissions system will cause a decrease of gaseous pollutants emitted from the turbo-set in order to comply with stricter environmental standards.		
PRJ Code - PRJ Name	PRJ-G-132 - Eustream ETR projects		

Sponsors	General Information
eustream, a.s. 100%	Promoter eustream, a.s.
	Operator eustream, a.s.
	Host Country Slovakia
	Status Planned
	Website

Schedule	Start Date	End Date
Pre-Feasibility		12/2019
Feasibility	01/2020	12/2020
FEED	05/2021	09/2021
Permitting	07/2021	03/2022
Supply Contracts		12/2022
FID		12/2021
Construction	01/2023	12/2023
Commissioning	2023	2023
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Basic Variant	Modification of compressor power output 23 MW		2023

Hydrogen import via Oude

ETR-N-904	Project	Energy Transition Related Project	Non-FID
Update Date	15/06/2020		Advanced
Description	This project is the German part of a hydrogen interconnection point between Germany and the Netherlands as planned by the german national development plan.		
PRJ Code - PRJ Name	PRJ-G-139 - Hydrogen interconnection Netherland Germany		

Sponsors	General Information
	Promoter <i>Gasunie Deutschland Transport Services GmbH</i>
	Operator <i>Gasunie Deutschland Transport Services GmbH</i>
	Host Country <i>Germany</i>
	Status <i>Planned</i>
	Website <i>Project's URL</i>

Schedule	Start Date	End Date
Pre-Feasibility		<i>07/2020</i>
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	<i>2030</i>	<i>2030</i>
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Hydrogen IP	Creating a hydrogen interconnection between the Netherlands and Germany at Oude Statenzijl (NL) / Bunde (DE) with an capacity of 48 GWh/d.		2030

Hydrogen export/import Oude Statenzijl

ETR-N-956	Project	Energy Transition Related Project	Non-FID
Update Date	14/07/2020		Advanced
Description	This project is the Dutch part of a hydrogen interconnection point between Germany and the Netherland.		
PRJ Code - PRJ Name	PRJ-G-139 - Hydrogen interconnection Netherland Germany		

Sponsors	General Information	
	Promoter	Gasunie Transport Services B.V.
	Operator	Gasunie Transport Services B.V.
	Host Country	Netherlands
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		01/2020
Feasibility	07/2020	07/2020
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2030	2030
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Hydrogen IP	Creating a hydrogen interconnection between the Netherlands and Germany at Oude Statenzijl with a capacity of 48 GWh/d		2030

IAEF - Vlora ccgt

TRA-A-1303	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>The TAP Albania Exit Point to Vlora CCGT pipeline is the first Priority Project as per the approved Gas Master Plan for Albania. It is a 40km transmission pipeline that will as per your PID:</p> <ol style="list-style-type: none">1. Creates the Gas Market in Albania2. Enabler project3. Connect an Anchor client4. Support intermitent renewables5. Provide the basis for PiP2 and PiP3 which are of European Relevance6. The work has already started on the FEED7. International tender launched. Results on Feb. 28 2019		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Fier (AL) / (GR)	Albgaz Sha	2020	AL/TAP	AL	0.01 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	Albgaz Sha	Part of NDP	Yes (Plani 10 Vjecar i Zhvillimit (national TYNDP))
	Operator	Albgaz Sha	NDP Number	PI1
	Host Country	Albania	NDP Release Date	15/02/2018
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	No
			Priority Corridor(s)	SGC

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		02/2017	Considered TPA Regime	Regulated
Feasibility	03/2017	02/2018	Considered Tariff Regime	Regulated
FEED	09/2018	09/2018	Applied for Exemption	No
Permitting	11/2018	03/2019	Exemption Granted	No
Supply Contracts		06/2019		
FID		09/2019	Exemption in entry direction	10.00%
Construction	11/2019	11/2020	Exemption in exit direction	10.00%
Commissioning	2020	2020		
Grant Obtention Date	28/01/2016	28/01/2016		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
IAEF - Vlora CCGT		400	40		2020
Total			40		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP
Delay Explanation

Expected Gas Sourcing

Caspian Region, Potential for new indigenous gas discoveries by Shell.

Benefits	
Main Driver	Market Demand
Main Driver Explanation	The TAP Albania exit point to Vlora CCGT pipeline is the first Priority Project as per the approved Gas Master Plan for Albania. It is a 40km transmission pipeline that will as per your PID: 1. Create the Gas Market in Albania 2. Connect an Anchor client 3. Support intermittent renewables 4. Provide the basis for PiP2 and PiP3 which are of European Relevance. 5. The work has already started on the FEED
Benefit Description	The TAP Albania exit point to Vlora CCGT pipeline is the first Priority Project as per the approved Gas Master Plan for Albania. It is a 40km transmission pipeline that will as per your PID: 1. Create the Gas Market in Albania 2. Connect an Anchor client 3. Support intermittent renewables 4. Provide the basis for PiP2 and PiP3 which are of European Relevance. 5. The work has already started on the FEED

Barriers	
Barrier Type	Description
Regulatory	CCGT cooling developments.
Financing	Availability of funds and associated conditions

CBCA	
Decision	<i>No, we have submitted an investment request, but not received a decision yet;#No, we have not submitted an investment request yet, but we do plan to submit it</i>
Submissin Date	21/03/2018
Decision Date	
Website	CBCA URL
Countries Affected	Albania
Countries Net Cost Bearer	Albania
Additional Comments	<i>We expect a positive decision any day by the National Regulatory Entity (ERE).</i>

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

GCA Mosonmagyaróvár

TRA-N-423	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Advanced
Description	Current planning based on market indications. Potential connection to new gas sources from e.g. the Black Sea. Project will enable reverse flow.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Variant : Base		GCA 2015/05 Entry Mosonmagyarovar			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Mosonmagyarovar	Gas Connect Austria GmbH	2024	HU	AT	153.10 GWh/d
Capacity Increments Variant(s) For Information Only					
Variant : Plus		GCA 2017/01 Entry Mosonmagyaróvár Plus			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Mosonmagyarovar	Gas Connect Austria GmbH	2024	HU	AT	266.90 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	GAS CONNECT AUSTRIA GmbH	Part of NDP	Yes (NDP 2019 - 2028)
	Operator	Gas Connect Austria GmbH	NDP Number	GCA 2015/05
	Host Country	Austria	NDP Release Date	11/02/2019
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	No
			Priority Corridor(s)	NSIE

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	05/2021	10/2021
Supply Contracts		02/2022
FID		08/2021
Construction	02/2022	07/2024
Commissioning	2024	2024
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Base		GCA 2015/05 Entry Mosonmagyarovar				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
HAG MS, Baumgarten	No pipieline foessen Scope of investment: - Modification HAG MS: Filter separator, metering routes, regulation, piping - New HAG CS (electric driven) - Extension of the Baumgarten node				0	
Total						

Pipelines and Compressor Stations - Alternative Variant

Plus		GCA 2017/01 Entry Mosonmagyaróvár Plus				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
Loop of the HAG pipeline	Further scope of investment: - New HAG CS (electric driven) - Extension of the Baumgarten node including construction of new metering routes	800	46		0	
Total			46			

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	The project proposal for HUAT has been submitted to the involved NRA's for joint approval. Due to the lack of a joint approval by both NRAs, ACER got involved. According to ACER decision No 05/2019 of 09 April 2019 the Agency approved to carry out a binding phase (auction) for selling of incremental capacity.

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Pipeline projects are planned according to market demand. Current planning is based on market indications.
Benefit Description	Strengthening the establishment of a potential diversification of sources e.g. Black Sea Gas.

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No, we do not plan to apply</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

P2G4A

ETR-N-896	Project	Energy Transition Related Project	Non-FID
Update Date	11/08/2020		Advanced
Description	The underlying (sandbox) project represents a Power-to-Gas project at a strategically important location in Austria with the aim to convert renewable electricity into hydrogen and to inject it into the existing gas grid. The expected size of the electrolyzer amounts to approx. 50 MW.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	Gas Connect Austria GmbH
	Operator	Gas Connect Austria GmbH
	Host Country	Austria
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning		
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Phase	<p><i>Due to the currently missing national and European regulatory framework, a provision of concrete and reliable technical parameters appears difficult . However, in order to comply with the technical criteria please find an indication below, which is based on following condition:</i></p> <ul style="list-style-type: none"><i>- The current assumption is based on the operation of the plant when excess electricity is gener-ated from wind energy.</i><i>- The excess electricity is generated by a wind turbine operation of 1800 hours per year.</i><i>- In this calculation, the plant is operated grid-supportive. Hence, synergies with PV plants and other excess energy producers are not factored in.</i><i>- Estimates are currently difficult because the legal framework (national and European) is still lacking.</i> <p><i>According to the aforementioned conditions a potential hydrogen production in the amount of approx. 50.5 GWh/a has been calculated.</i></p>		

TAG Reverse Flow

TRA-F-954	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	The objective of the planning project TAG Reverse Flow is to create a reverse flow FZK capacity on the TAG GmbH pipeline system, by upgrading existing entry DZK capacity to entry FZK capacity at the IP Arnoldstein/Tarvisio and additionally by allowing potential entry FZK capacity at the IP Ceršak/Murfeld from the Slovenian to the Austrian gas transportation system. This project would grant access under all conditions from and between Italian and Slovenian gas system to the Austrian Virtual Trading Point and to improve local security of supply and liquidity through diversification of supply routes and sources of supply. By enabling additional possibilities for physical reverse flow to be offered in the south-north and south-east directions, this project is of strategic interest for the Austrian, Italian and Slovenian market area and the NSI East region.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Tarvisio (IT) / Arnoldstein (AT)	TAG GmbH	2020	IB-ITe	AT	0.00 GWh/d
	<i>Comment: The implementation of this project, which comprises operation in the Weitendorf and Eggendorf compressor stations and all necessary modifications to the station control systems, will guarantee physical transport of at least 17,904,000 kWh/h (1,600,000 Nm³/h, 0°C) in reverse flow along the TAG-system up to the CS station Baumgarten, i.e. at least 11,190,000 kWh/h (1,000,000 Nm³/h, (0°C); GCV 11,19 kWh/Nm³/h (0°C)] at the Arnoldstein entry point on the Austrian side and supports at the same time 6,714,000 kWh/h [600,000 Nm³/h (0°C); GCV 11,19 kWh/Nm³/h (0°C)] at the Murfeld entry point of the interconnected gas transportation system of Gas Connect Austria. The project will also enable physical operation from the Murfeld entry point towards Italy or from the Arnoldstein entry point towards Slovenia, via the SOL and TAG systems, if required.</i>				

Sponsors		General Information		NDP and PCI Information	
Trans Austria Gasleitung GmbH	100%	Promoter	Trans Austria Gasleitung GmbH	Part of NDP	Yes (Coordinated Network Development Plan 2018-2027)
		Operator	TAG GmbH	NDP Number	TAG 2016-01
		Host Country	Austria	NDP Release Date	19/01/2018
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	Not Relevant
Supply Contracts				
FID		09/2016	Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2020	2020		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Eggendorf/Weitendorf	The project foresees the creation of connection lines between the outlet and the inlet in two compression stations enabling compressed reverse flow. No additional compressor power are foreseen; The length of the conjnection pipes are below 1 km.					2020
Total						

Delays since last TYNDP

Delay Since Last TYNDP
Delay Explanation Internal re-planning due to external constraints

Benefits

Main Driver Others

Main Driver Explanation The planning project is triggered by an obligation arising out of the decree of the Austrian regulatory authority, E-Control related to the Coordinated Network Development Plan 2016-2025, whereas a reverse flow of the TAG pipeline system shall be assessed by also taking into consideration potential entry FZK capacity at the IP Murfeld. As a consequence, TAG GmbH also assesses an upgrade of existing entry DZK capacity to entry FZK capacity at the IP Arnoldstein.

Benefit Description This project would grant access under all conditions from and between Italian and Slovenian gas system to the Austrian Virtual Trading Point and to improve local security of supply and liquidity through diversification of supply routes and sources of supply. By enabling additional possibilities for physical reverse flow to be offered in the south-north and south-east directions, this project is of strategic interest for the Austrian, Italian and Slovenian market area and the NSI East region.

CBCA

Decision No, we have not submitted an investment request yet, and we do not plan to submit it

Submissin Date

Decision Date

Website

Countries Affected

Countries Net Cost Bearer

Additional Comments

Financial Assistance

Applied for CEF (3) No, we have not applied for CEF

Grants for studies No

Grants for studies amount Mln EUR 0.0

Grants for works No

Grants for works amount Mln EUR 0.0

Intention to apply for CEF No, we do not plan to apply

Other Financial Assistance No

Comments

General Comments

South Caucasus Pipeline Future Expansion (SCPFX)

TRA-N-1138	Project	Pipeline including CS	Non-FID
Update Date	18/10/2019		Advanced
Description	SCP started gas deliveries to Georgia and Turkey in 2006. Current capacity: 7.4 bcma, length: 692.0 km SCPX objective (being a part of the Southern Gas Corridor) to expand the existing SCP gas transportation system capacity from 7bcma to 23bcma (+16bcma (plateau annual average) delivered to the Georgia-Turkey border. This is to be accomplished by building a new 48" pipeline loop in parallel with the existing SCP. The total length of the line loop is approximately 489km (424km in Azerbaijan, 63km in Georgia and 2km for the SCPX/TANAP interconnection at the Georgia-Turkey border). In Georgia two new intermediate compressor stations have been constructed (CSG 1 and CSG2). SCPFX is the next phase of further expansion, which will also be a part of SCP gas transportation system, and which will enable the system to increase transported volumes of natural gas to EU markets up to additional 5 bcma.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Türkgözü	SOCAR Midstream Operations	2024	GE/SCP	TR/TNP	150.70 GWh/d

Sponsors		General Information		NDP and PCI Information	
BP	28%	Promoter	SOCAR Midstream Operations LLC	Part of NDP	No ((5) the country is not EU member)
TPAO	19%	Operator	SOCAR Midstream Operations	NDP Number	
SOCAR affiliates	16%	Host Country	Azerbaijan	NDP Release Date	
Petronas	15%	Status	Planned	NDP Website	
Lukoil	10%	Website	Project's URL	Currently PCI	Yes (7.1.1 (2020))
NICO	10%			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2020	Considered TPA Regime	Negotiated
Feasibility	01/2020	07/2020	Considered Tariff Regime	Negotiated
FEED	07/2020	09/2021	Applied for Exemption	Not Relevant
Permitting	07/2020	09/2021	Exemption Granted	Not Relevant
Supply Contracts		09/2021		
FID		12/2013		
Construction	03/2022	03/2024	Exemption in entry direction	0.00%
Commissioning	2024	2024	Exemption in exit direction	0.00%
Grant Obtention Date	01/01/2022	01/01/2022		

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
South Caucasus Pipeline Future Expansion	SCPFX consists of three loops (29km, 43km and 21km) to be built in Georgia and one compressor station with 79.5 MW to be built in Azerbaijanian section.	1,219	93	80	2024
Total			93	80	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	SCPFX is an integral part of the Sothern Gas Corridor value chain, which connects huge reserves of natural gas of Shah Deniz (1.2 trillion cm) with giant market for natural gas in the EU, in particular in the East and South-East. The consortium of shareholders, mostly International Oil Companies, have been contributing their technical experience and resources as well as investments for the project's realizations. The project has a significant political support of involved governments.

Delays since last TYNDP

Delay Since Last TYNDP 6 months

Delay Explanation

Expected Gas Sourcing

Caspian Region

Benefits

Main Driver Market Demand

Main Driver Explanation The South Caucasus Pipeline (SCP) currently transports 7.46 bcma from the Shah Deniz Gas Field in the Caspian Sea via Azerbaijan and Georgia to Turkey, where it connects to the Turkish domestic gas network. The transportation of the additional gas quantities through Georgia and Azerbaijan is currently being realized through an extension of the South Caucasus Pipeline (SCPX) in Azer-baijan and Georgia and through the new Trans Anatolian Pipeline (TANAP) in Turkey. The further development of the Absheron Gas Field in the Caspian will create the need to transport an additional capacity of + 5 bcma. This expansion of the SCPX system is known under the name SCPFX (future expansion).

Benefit Description

Barriers

Barrier Type	Description
Political	Each of customers for Azerbaijani gas has the demand of certain volumes. SCP System by itself (within Azerbaijan, Georgia and up to the Turkish border) has enough gas for buyers along its route. It is the setting of the Southern Gas Corridor with new customers in Turkey, EU that requires expansions of SCP. Majors buyers are far. Many local requirements and national interests should be considered en route for SCP/Shah Deniz to be profitable. Competitive pipeline route from other regions should also be taken into account. Therefore, the SGC value chain will need further political support from governments and other stakeholders, which will eventually safeguard investments and mitigate risks.
Others	Market uncertainty

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Azerbaijan-Turkey Intergovernmental Agreement		No	12/03/2001
Azerbaijan-Georgia Intergovernmental Agreement		Yes	29/09/2001

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date	<i>22/01/2020</i>	Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for studies and works</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Antwerp@C

ETR-N-401	Project	Energy Transition Related Project	Non-FID
Update Date	24/06/2020		Advanced
Description	<p>The climate target of getting Belgian CO2 emissions 35% lower by 2030 is a formidable challenge. In this context Antwerp Port Authority and gas infrastructure operator Fluxys believe strongly that carbon capture, storage and reuse by industry is an important weapon in the fight against climate change. They are therefore teaming up to take further practical steps that will help give shape to the energy transition.</p> <p>After a first opportunity analysis, both project partners have decided to perform a feasibility study for open access CO2 transport and storage infrastructure connecting the Antwerp port region to storage sites abroad and usage sites in the region. Both transport by pipeline and ship are being investigated. If the results of the feasibility study are positive then the aim is to jointly promote practical projects.</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information
	Promoter <i>Fluxys and Antwerp Port Authority</i>
	Operator <i>Fluxys and Port of Antwerp</i>
	Host Country <i>Belgium</i>
	Status <i>Planned</i>
	Website <u><i>Project's URL</i></u>

Schedule	Start Date	End Date
Pre-Feasibility		03/2019
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2026	2026
Grant Obtention		
Date		

Carbon Connect Delta

ETR-N-929	Project	Energy Transition Related Project	Non-FID
Update Date	24/06/2020		Advanced
Description	<p>Capturing CO2 then reusing it or storing it underground is one way to meet climate targets. Under the wings of Smart Delta Resources, a cross-border consortium of companies comprising Fluxys is taking the first step towards using this approach to significantly reduce CO2 emissions in North Sea Port, the Belgian-Dutch area covering the ports of Ghent, Terneuzen & Vlissingen.</p> <p>Carbon Capture & Utilisation/Storage (CCUS) may make it possible to cut CO2 emissions in the North Sea Port area by 30% by 2030. Hence, Fluxys and the other members of the consortium have launched the Carbon Connect Delta project, which will initially set out to examine the feasibility of CCUS.</p> <p>The consortium expects to complete its feasibility study in late 2020 with the final goal to capture up to 6.5 million tonnes a year by 2030. In so doing, Carbon Connect Delta would make a major contribution towards meeting the Paris climate targets and fulfilling the objectives set by the European Green Deal.</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	Smart Delta Resources
	Operator	to be decided
	Host Country	Belgium
	Status	In Progress
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		06/2020
Feasibility	06/2020	04/2021
FEED	04/2021	04/2022
Permitting	04/2021	04/2022
Supply Contracts		
FID		04/2022
Construction	04/2022	01/2025
Commissioning	2025	2025
Grant Obtention Date		

H2-Import Coalition

ETR-N-938	Project	Energy Transition Related Project	Non-FID
Update Date	24/06/2020		Advanced
Description	<p>Hydrogen has an important role to play in the mix of solutions to achieve CO2 emissions reduction in Belgium. This is why Deme, Engie, Exmar, Fluxys, Port of Antwerp, Port of Zeebrugge and WaterstofNet have launched a joint study to investigate the entire hydrogen import and transport chain, which will serve as a basis to coordinate concrete projects.</p> <p>Crucial to the viability of a hydrogen economy is the generation of sufficient renewable electricity for the production of hydrogen. Wind and solar energy will likely not cover the entire energy demand in Belgium, and so part of the necessary renewable energy must be imported. Efficient and economic solutions for the import, transport and storage of hydrogen require specific expertise. This is why the abovementioned seven industrial players and public stakeholders have brought their expertise together to assess the hydrogen supply chain of the future.</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information
	<i>Deme, Engie, Exmar, Fluxys, Port of Antwerp, Port of Zeebrugge, WaterstofNet</i>
Promoter	
Operator	<i>to be decided</i>
Host Country	<i>Belgium</i>
Status	<i>In Progress</i>
Website	

Schedule	Start Date	End Date
Pre-Feasibility		10/2020
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2020	2020
Grant Obtention		
Date		

HyOffWind Zeebrugge

ETR-N-300	Project	Energy Transition Related Project	Non-FID
Update Date	08/09/2020		Advanced
Description	<p>Eoly, part of Colruyt Group, Fluxys and Parkwind have set up a collaboration to boost the sustainability of the energy landscape in Belgium. The ambition is to build an industrial-scale power-to-gas installation that converts green electricity into green hydrogen that can be transported and stored in the existing natural gas infrastructure.</p> <p>With the project, Eoly, Parkwind and Fluxys are taking a new step towards solutions for a low-carbon future. In an initial phase the feasibility of the installation will be more closely examined. Unlike demonstration projects elsewhere in Europe, Eoly, Parkwind and Fluxys envisage to realise in Belgium one of the first industrial-scale power-to-gas facilities. The aim is to build a power-to-gas installation that can convert several megawatts of electricity into green hydrogen which can be marketed as carbon-free fuel or feedstock.</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information
	Promoter <i>Fluxys, Eoly, Parkwind</i>
	Operator <i>Eoly & Parkwind</i>
	Host Country <i>Belgium</i>
	Status <i>Planned</i>
	Website <i>Project's URL</i>

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2022	2022
Grant Obtention		
Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Industrial-scale power-to-gas installation	Feasibility study for an industrial scale power-to-gas facility to convert a load of 25 MW electricity from wind into green hydrogen (0.4 GWh/d).		2022

Interconnected hydrogen network

ETR-N-923	Project	Energy Transition Related Project	Non-FID
Update Date	24/06/2020		Advanced
Description	Fluxys proposes to link industrial clusters through an interconnected hydrogen backbone aiming to support the development of the hydrogen economy. Clean hydrogen import gates in maritime ports and interconnections with adjacent countries are foreseen to ensure security of supply and flexibility. Retrofitting existing infrastructure is put forward in order to reduce the system cost of the hydrogen chain.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	Fluxys Belgium
	Operator	Fluxys Belgium
	Host Country	Belgium
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2025	2025
Grant Obtention Date		



L/H Conversion Belgium

TRA-F-500	Project	Pipeline including CS	FID
Update Date	21/09/2020		Non-Advanced
Description	The timetable for reducing L-gas exports from the Netherlands to Belgium, France and Germany was announced by the Dutch authorities at the end of 2012: the gradual reduction of L-gas exports to Belgium (and therefore to France as L gas is also exported to France), will begin in October 2024 and end in 2030. The reason behind this announcement is the forecasted decline of the L-gas Groningen gas field (10%/year production decline expected as from 2020). Most of the L-gas used in France transits through Belgium meaning that L-gas transit capacity need to be ensured until conversion is done in France. For the Fluxys Belgium grid, infrastructure modifications will be required to transport H gas to the newly converted L zones in Belgium and in NW Europe.		
PRJ Code - PRJ Name	-		

Sponsors	General Information		NDP and PCI Information	
Fluxys Belgium	100%	Promoter	Fluxys Belgium	Yes (Ten-Year Indicative Investment Programme Fluxys Belgium & Fluxys LNG 2017-2026)
		Operator	Fluxys Belgium	
		Host Country	Belgium	L/H Conversion
		Status	In Progress	
		Website	Project's URL	NDP URL
			NDP Number	
			NDP Release Date	
			NDP Website	
			Currently PCI	Yes (5.21 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2017	Considered TPA Regime	Regulated
Feasibility	01/2018	06/2018	Considered Tariff Regime	Regulated
FEED	07/2018	10/2018	Applied for Exemption	Not Relevant
Permitting	03/2019	08/2019	Exemption Granted	Not Relevant
Supply Contracts		02/2019		
FID		12/2018		
Construction	06/2019	05/2026	Exemption in entry direction	0.00%
Commissioning	2026	2026	Exemption in exit direction	0.00%
Grant Obtention Date				

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Security of supply Without this project, the energy demand cannot be covered as soon as 2021 The security of supply of the L-gas area will be brought up to the level already reached in North West Europe, and even be improved. Competition Diversity in the L-gas area will reach the same level as the North West region, instead of depending solely on Dutch supply and producers. Moreover, maintaining the use of natural gas for heating will be a lot cheaper than converting to electricity (the price of electricity for the households in 2020 could be up to 4 times more expensive than gas. Market integration The L-gas area will go from an energy island (a single supply, through a single route) to a deeply interconnected market. Sustainability It would avoid building new energy infrastructures, new transmission and distribution capacities and new heating appliances.

Benefits	
Main Driver	Others
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>11/10/2018</i>	Grants for studies	<i>No</i>
Decision Date	<i>04/10/2018</i>	Grants for studies amount	<i>Mln EUR 0.0</i>
Website	<i>CBCA URL</i>	Grants for works	<i>Yes</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Power to Methanol Antwerp

ETR-N-924	Project	Energy Transition Related Project	Non-FID
Update Date	24/06/2020		Advanced
Description	<p>ENGIE, Fluxys, Indaver, INOVYN, Oiltanking, Port of Antwerp and the Flemish Environmental Holding Company have established a consortium for the sustainable production of methanol, an essential multi-purpose raw material used by industry in the Port of Antwerp being the largest European integrated energy and chemical cluster in the region. The aim of the consortium is to produce sustainable methanol by reusing captured CO2 in combination with sustainably produced hydrogen.</p> <p>In May 2020 a formal consortium called 'Power to Methanol Antwerp BV' was set up in order to take the necessary steps towards the expected construction of a demonstration plant. In the subsequent phase, due to start in 2022, a demonstration plant will be built on the INOVYN site along the Scheldelaan. The demonstration plant could produce up to 8000 tonnes of sustainable methanol. For every tonne of produced methanol at least an equivalent volume of CO2 emissions can be avoided.</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	Power to Methanol Antwerp BV
	Operator	Power to Methanol Antwerp BV
	Host Country	Belgium
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	01/2019	10/2019
FEED	04/2020	04/2021
Permitting	04/2020	04/2021
Supply Contracts		
FID		04/2021
Construction		
Commissioning	2022	2022
Grant Obtention Date		

Interconnection Bulgaria - Serbia

TRA-N-137	Project	Pipeline including CS	Non-FID
Update Date	10/01/2020		Advanced
Description	<p>Interconnection Bulgaria-Serbia aims to connect the national gas transmission networks of Bulgaria and Serbia. The project envisages the construction of a gas pipeline from Novi Iskar to Kalotina with branch to Slivnitsa and Dragoman on Bulgarian territory and a gas pipeline Nis to Dimitrovgrad on Serbian territory. The project on Bulgarian territory includes the construction of 2 AGRS at Slivnitsa and Dragoman and the construction of GMS Kalotina at a joint site with a reverse pigging station of the gas pipeline.</p> <p>The project is part of the Balkan Gas Hub concept. Along with the projects IGB and IBR, it will provide for market integration, increased security of supply and competition by opening a new bidirectional supply route.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Interconnector BG RS	IBS Future Operator	2022	BGn	RS	58.50 GWh/d
	Comment: In 2018 the Republic of Bulgaria and the Republic of Serbia signed a joint commitment regarding the construction of the interconnection and Bulgartransgaz EAD was designated a project promoter and operator of the future gas pipeline on the Bulgarian territory.				
	IBS Future Operator	2022	RS	BGn	58.50 GWh/d
	Comment: In 2018 the Republic of Bulgaria and the Republic of Serbia signed a joint commitment regarding the construction of the interconnection and Bulgartransgaz EAD was designated a project promoter and operator of the future gas pipeline on the Bulgarian territory.				

Sponsors		General Information		NDP and PCI Information	
Bulgarian section		Promoter	Bulgartransgaz EAD	Part of NDP	Yes (2019-2028 Ten-year network development plan of BTG)
Bulgartransgaz EAD	100%	Operator	IBS Future Operator	NDP Number	Sectin 5.2 (5.2.3)
Serbian section		Host Country	Bulgaria	NDP Release Date	23/04/2019
Serbijagas	100%	Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	Yes (6.10 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		02/2011	Considered TPA Regime	Regulated
Feasibility	12/2011	12/2012	Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts		03/2020		
FID			Exemption in entry direction	0.00%
Construction	10/2020	04/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Bulgarian territory	1.8 bcm/y maximum capacity	700	62		0
Serbian territory	1.8 bcm/y maximum capacity	700	108		0
Total			170		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	IBS will connect the networks of Bulgaria and Serbia. The interconnection is a prerequisite for natural gas market development, improving market integration and promoting competition. All this includes utilization of both potential and existing gas infrastructure on the territory of Bulgaria and Serbia, the capacity of Chiren UGS, Banatski Dvor UGS and Banatski Itebej. IBS will contribute significantly to SoS, diversification of supply routes and sources, increasing the transported volumes and liquidity in the regional gas market as well as integration with the EU's gas network in line with the EU regulations. Bulgaria will benefit from alternative natural gas supplies through Baumgarten Hub, and Serbia will have access to natural gas from South-east through Bulgarian interconnections with Turkey and Greece.

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Changed project promoter. Delay in transferring of the project from the Ministry of Energy to Bulgartransgaz.

Expected Gas Sourcing

Norway, Russia, LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	The project should enhance the system flexibility and contribute to the security of supply within the region (better connection between Bulgaria and Serbia).

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Joint statement by Bulgaria and Serbia	Joint statement signed in Brussels by Bulgaria and Serbia in 2010	Yes	05/03/2010
Joint Commitment on the construction of gas interconnector Bulgaria-Serbia	Bulgaria and Serbia declare their irrevocable commitment to build gas interconnection which shall be commissioned in May 2022 at the latest.	Yes	17/05/2018
Memorandum of Understanding between Bulgaria and Serbia	Memorandum of Understanding signed in Sofia between Bulgaria and Serbia in 2005	Yes	08/04/2005
Memorandum of Understanding between Bulgaria and Serbia	Memorandum of Understanding between Bulgaria and Serbia	Yes	19/01/2017
Memorandum of Understanding between Bulgaria and Serbia	Memorandum of Understanding signed in Brussels between Bulgaria and Serbia in 2012	Yes	14/12/2012

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	MIn EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	MIn EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	No decision yet taken
Additional Comments		Other Financial Assistance	Yes
		Comments	<i>IBS is developed by the Ministry of Energy (ME), beneficiary of Operational Programme Competitiveness (2007-2013 and 2014-2020). Funding source is the European Regional Development Fund. As a new project promoter, Bulgartransgaz EAD is an eligible beneficiary for preparatory activities prior to the start of the interconnection construction under Operational Programme Innovation and Competitiveness following the amendment of the operational programme as of December 2018.</i>
		General Comments	

Interconnector Greece-Bulgaria (IGB Project)

TRA-F-378	Project	Pipeline including CS	FID
Update Date	25/11/2019		Advanced
Description	Construction of a bi-directional gas interconnector between the high pressure natural gas systems of Greece and Bulgaria with a technical forward capacity of up to 3bcm/y, capable to be increased to up to 5 bcm/y with the installation of a Compressor Station, if additional market interest is demonstrated.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Komotini - TAP / IGB	ICGB a.d.	2020	GR/TAP	BG/IGB	90.00 GWh/d
	ICGB a.d.	2025	GR/TAP	BG/IGB	60.00 GWh/d
	Comment: GB will be technically ready for a forward capacity upgrade from up to 3bcm/y to up to 5 bcm/y with installation of compressor station				
Komotini (DESFA) - GR / IGB	ICGB a.d.	2020	IB-GRk	BG/IGB	90.00 GWh/d
	ICGB a.d.	2025	IB-GRk	BG/IGB	60.00 GWh/d
	Comment: IGB will be technically ready for a forward capacity upgrade from up to 3bcm/y to up to 5 bcm/y with installation of compressor station				
Stara Zagora	ICGB a.d.	2020	BG/IGB	BGn	90.00 GWh/d
	ICGB a.d.	2025	BG/IGB	BGn	60.00 GWh/d
	Comment: IGB will be technically ready for a forward capacity upgrade from up to 3bcm/y to up to 5 bcm/y with installation of compressor station				

Sponsors		General Information		NDP and PCI Information	
BEH EAD	50%	Promoter	ICGB a.d.	Part of NDP	Yes (Included in both the TYNDPs of Greece and Bulgaria)
IGI Poseidon	50%	Operator	ICGB a.d.	NDP Number	not applicable
		Host Country	Bulgaria	NDP Release Date	
		Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.8.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		04/2009	Considered TPA Regime	Not Applicable
Feasibility	05/2009	07/2009	Considered Tariff Regime	Not Applicable
FEED	08/2020	08/2020	Applied for Exemption	Yes
Permitting	08/2020	08/2020	Exemption Granted	Yes
Supply Contracts		08/2019		
FID		12/2015		
Construction	06/2019	12/2020	Exemption in entry direction	50.00%
Commissioning	2020	2025	Exemption in exit direction	50.00%
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
IGB		813	182		2020
	IGB will be technically ready for a forward capacity upgrade from up to 3bcm/y to up to 5 bcm/y with installation of compressor station. Capacity upgrade will depend on market committments and development of neighbouring systems.	813	182	12	2025
Total			364	12	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The project strategic objectives and role in Bulgaria and SE-CE markets are: • enhancement of security of gas supply (avoidance of gas disruptions); by securing added volumes the project will increase significantly the entry capacity of Bulgaria and diversify the entry routes to the SEE region; • increase of transit capacity to the SEE countries taking advantage of other interconnections with Romania and Serbia; and • diversification of imported gas from Greece by additional supply sources from the Caspian region, Middle East, East Mediterranean and LNG terminals (existing and new in Greece and/or Turkey).

Delays since last TYNDP

Delay Since Last TYNDP	1 year
Delay Explanation	Appeals against the tender procedures, during the opening phase there are no restriction on the parties who can appeal against the procedures. At the current stage all the tender procedures are completed and award decisions are taken, there is just one appeal outstanding against the award decision for the selected contractor under the tender for Line pipes manufacture and supply. We are waiting for the decision of Supreme Administrative Court, epected by the end of July 2019.

Expected Gas Sourcing

Algeria, Caspian Region, Libya, Norway, Russia, LNG (DZ,AZ,EU,GR,IT,NO,QA,TAP,TR,AE,US), USA

Comments about the Third-Party Access Regime

On 8th of August 2018 the National Regulators of Bulgaria and Greece issued a Joint Decision on the exemption of IGB from the requirements under article 36 of the European Gas Directive 2009/73/EC. The decision taken confirms the measures requested by the project company in the application filed, in particular: -Exemption from the rules for third-party access for the capacity booked under the Market test completed (almost 50% of the total capacity) -Exemption from regulated tariff for all the gas pipeline capacity for a period of 25 years. -Exemption from ownership unbundling for a period of 25 years.

Benefits	
Main Driver	Market Demand
Main Driver Explanation	The commitments from the market have been assessed by the signing of the Advance Reservation Capacity Agreements, proposed after the capacity allocation that was authorized by the National Regulatory Authorities in the conducted Market Test (see above information on Exemption Application). ARCA's signature will be followed by Gas Transportation Agreements execution within 2019 (as per provisions of the ARCA's).
Benefit Description	The pipeline can interact with alternative supply sources - such as, Southern Corridor pipeline gas, LNG through Greece/ Turkey. The current market test outcomes confirm a commitment at least from Caucasian area and LNG. Other sources that can be served by the pipeline are expected as well, as soon as TAP and other pipelines will start to operate.

Barriers	
Barrier Type	Description
Regulatory	Regulatory approvals have to ensure more streamlined process for decisions on the IGB tariff and network code, as well as the licensing of the pipeline.
Permit Granting	Affected by delays in respect to the Greek section, however the permits are expected to be obtained by the end of March 2019.
Political	Government support expected on issues such as streamlined permitting and regulatory decisions on commercial development, and the interconnection with the other TSOs.
Others	Public procurement procedures may be significantly delayed by appeals.
Market	Development of the networks of neighboring gas TSOs to be interconnected with IGB should be incentivised to ensure proper technical conditions for expected additional flows. Better integration of the gas transmission networks in the overall region affected by IGB must also be achieved in order to supply gas from IGB to the wider SEE region. The procedures for gaining access to transmission services in the neighbouring systems by shippers on IGB should be more streamlined and transparent.

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
	The Intergovernmental Agreement that shall be signed between Greece and Bulgaria will establish the applicable Tax Framework for the Project.	No	16/01/2019

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
			<i>Financial assistance has been approved for the IGB in the amount of 45 mln. EUR under the European Energy Programme for Recovery (EEPR).</i>
		Comments	<i>Additional EUR 39 mln grant financing is approved for the project under the Operational Program Innovation and Competitiveness, the funding is provided by the European Structural Investment Funds (ESIF) allocated to Bulgaria.</i>
			<i>The Bulgarian shareholder of the company is in the process of negotiation a EUR 110 mln loan financing with EIB , secured by a state guarantee in the same amount provided by Bulgaria. The loan agreement is expected to be concluded by the end of February 2019 and the loan will be trnasferred to the Project company upon the same condtions and parameters via an onlendign agreement.</i>
		General Comments	<i>Further an Intergovernmental Agreement shall be signed between Greece and Bulgaria, which will establish the applicable Tax Framework for the Project.</i>
			<i>All the listed measures were subject to a notification for a state id clearance. The decision of the EC was issued on 8th of Nov. 2018 and all the measures are considered compatible with the state aid rules.</i>

Modernization and rehabilitation of the Bulgarian GTS

TRA-F-298	Project	Pipeline including CS	FID
Update Date	21/11/2019		Advanced
Description	<p>A multicomponent project which consists of different actions for rehabilitation, modernization and expansion of the existing gas transmission infrastructure in Bulgaria and includes activities on: CSs modernization, inspections, repair and replacement of pipeline sections, expansion of the existing network and implementation of systems for optimization of the management process of the network technical condition. Taking into account the complex nature of the project, a 3 phases implementation is envisaged:</p> <p>Phase 1: Unifies the actions undertaken in the period 2013-2015, planned to be finalized in a short term.</p> <p>Phase 2: Includes actions initiated in 2016. They represent logic continuation of the overall realization of the project following the implementation of Phase 1.</p> <p>Phase 3: Conditional infrastructure necessary after taking the FID for stage 2 of the Interconnection Bulgaria – Serbia. The project is part of the concept for the Balkan Gas Hub.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Interconnector BG RS	IBS Future Operator	2024	BGn	RS	19.36 GWh/d
	Comment: Conditional infrastructure necessary after taking the FID for stage 2 of the Interconnection Bulgaria – Serbia.				
	IBS Future Operator	2024	RS	BGn	19.36 GWh/d
	Comment: Conditional infrastructure necessary after taking the FID for stage 2 of the Interconnection Bulgaria – Serbia.				
Kulata (BG) / Sidirokastron (GR)	Bulgartransgaz EAD	2021	BGg/BGT	GR	13.78 GWh/d
Strandzha (BG) / Malkoclar (TR)	Bulgartransgaz EAD	2021	BGg/BGT	TRe	58.08 GWh/d

Sponsors		General Information		NDP and PCI Information	
Bulgartransgaz EAD	100%	Promoter	Bulgartransgaz EAD	Part of NDP	Yes (2019-2028 Ten-year network development plan of BTG)
		Operator	Bulgartransgaz EAD	NDP Number	Section 5.5.
		Host Country	Bulgaria	NDP Release Date	23/04/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.8.2 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2016	Considered TPA Regime	Not Applicable
Feasibility	08/2008	08/2017	Considered Tariff Regime	Not Applicable
FEED	04/2013	02/2020	Applied for Exemption	Not Relevant
Permitting	09/2009	10/2020	Exemption Granted	Not Relevant
Supply Contracts		02/2021		
FID		01/2018	Exemption in entry direction	0.00%
Construction	09/2014	06/2022	Exemption in exit direction	0.00%
Commissioning	2021	2024		
Grant Obtention Date	27/04/2016	27/04/2016		

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Gorni Bogrov - Novi Iskar	Conditional infrastructure required after the final investment decision on the realization of IBS Stage 2 related to a capacity increase of 1.8 to 3.2 bcm/y.	700	19	20	0
Lozenets-Nedyalsko		1,000	20		0
PF Beglej - VA Dermantsi - VA Batultsi - VA Kalugerovo		700	58		0
Valchi Dol - Preselka		700	23		0
Total			120	20	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The modernization, rehabilitation and expansion of the existing gas transmission infrastructure will guarantee secure and reliable natural gas transmission, enhance the efficiency, reliability and flexibility of the transmission system and provide the required capacities and pressures. The implementation of the activities planned will secure the technical capabilities for transmission of additional natural gas quantities through the territory of the country, coming in through the existing and new entry and exit points, and opportunities for diversification of the directions of transmission depending on the market interest.

Delays since last TYNDP	
Delay Since Last TYNDP	yes
Delay Explanation	Revision of the PCI Phase 2 implementation schedule to ensure consistency in the execution of construction activities for the sections, sub-sections and compressor stations involved in this phase.

Expected Gas Sourcing
Algeria, Caspian Region, Russia, LNG (GR,TR), Southern gas corridor gas sources; European gas hubs;

Benefits	
Main Driver	Others
Main Driver Explanation	With the implementation of the project improvement of the transmission system's efficiency, reliability and flexibility will be achieved, ensuring the necessary capacities and pressures including pressure recovery, bottlenecks removal, providing technical capabilities for transmission of additional natural gas quantities through the territory of the country, in relation to the planned new entry and exit points and opportunities for diversification of the transmission directions depending on the market interest and last but not least management optimization of the gas flows and setting the facilities meeting the ecologic requirements. Thus the technical and economic parameters of the existing gas infrastructure which has been in operation for forty years now will be improved.
Benefit Description	The project implementation will contribute to increasing the degree of market integration, creating a competitive gas market, encouraging the trade development, ensuring greater systems' flexibility and risk management optimization. It is directly related to the planned two new interconnections - with Greece (IGB), and Serbia (IBS) as well as to the IBR (operational); with the utilization of the UGS Chiren's capacity in relation to the project for its expansion; with the development of the significant cross-border gas projects in the region. Their efficient use is related to the technical capacities of the existing gas transmission infrastructure on the territory of Bulgaria to ensure sufficient capacity and adequate technical conditions for the transport of the planned new natural gas quantities. The project was supported at the highest political level, as well as at regional level – it is a priority CESEC project.

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>09/08/2018</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>09/10/2018</i>	Grants for studies amount	<i>Mln EUR 1.0</i>
Website	<i>CBCA URL</i>	Grants for works	<i>Yes</i>
Countries Affected	<i>Bulgaria</i>	Grants for works amount	<i>Mln EUR 27.2</i>
Countries Net Cost Bearer	<i>Bulgaria</i>	Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
		Comments	<i>Phase 1, consisting of activities undertaken in the period 2013-2015, was funded by Bulgartransgaz EAD. Stage 1 of the modernization of compressor stations (part of Phase 1) was included in the National Investment Plan (NIP) and, in this respect, in 2017 and 2018 Bulgartransgaz EAD received national funding for CS Petrich, CS Ihtiman, CS Strandzha and CS Lozenets to the total amount of EUR 41.9 million.</i>
		General Comments	

Necessary expansion of the Bulgarian gas transmission system

TRA-F-592	Project	Pipeline including CS	FID
Update Date	10/12/2019		Advanced
Description	<p>The project aims at construction of the following necessary infrastructure for completion the concept for the Balkan Gas Hub (BGH): two gas pipelines from the Turkish border to compressor station (CS) Strandza and from Provadia to the Serbian border; one new gas metering station (GMS) Strandza; and two new CSs – Nova Provaida and Rasovo.</p> <p>The Balkan Gas Hub concept includes several key elements, which together complete the project: new supply sources; utilization of the existing gas transmission system; modernization and expansion of the existing gas transmission system and expansion of UGS Chiren; construction of interconnections with neighboring countries and new infrastructure for the hub; creating the required trading and regulatory environment through a liquid natural gas exchange and the necessary amendments and additions in the current regulatory framework in Bulgaria.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Kireevo (BG) / Zaychar (RS)	Bulgartransgaz EAD	2022	BGg/BGT	RS	395.20 GWh/d
Strandzha 2 (BG) / Malkoclar (TR)	Bulgartransgaz EAD	2019	TR/STR	BGg/BGT	577.10 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	<i>Bulgartransgaz EAD</i>	Part of NDP	<i>Yes (2019-2028 Ten-year network development plan of BTG)</i>
	Operator	<i>Bulgartransgaz EAD</i>		
	Host Country	<i>Bulgaria</i>	NDP Number	<i>Section 5.1. (5.1.1)</i>
	Status	<i>Planned</i>	NDP Release Date	<i>23/04/2019</i>
	Website		NDP Website	<i>NDP URL</i>
			Currently PCI	<i>No</i>
			Priority Corridor(s)	<i>NSIE</i>

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	03/2018	11/2018	Considered Tariff Regime	Regulated
FEED	01/2018	03/2020	Applied for Exemption	No
Permitting	01/2018	06/2020	Exemption Granted	No
Supply Contracts		10/2019		
FID		01/2019		
Construction	02/2019	06/2022	Exemption in entry direction	0.00%
Commissioning	2019	2022	Exemption in exit direction	0.00%
Grant Obtention Date	17/05/2017	17/05/2017		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
New gas pipeline from CS Provadia to the Bulgarian-Serbian border	New gas pipeline from CS Provadia to the Bulgarian-Serbian border, two new compressor stations	1,200	474	64	2022
New gas pipeline from the BG-TR border to GMS Strandzha	New gas pipeline from the BG-TR border to GMS Strandzha and new GMS Strandzha	1,200	11		2019
Total			485	64	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP
Delay Explanation

Expected Gas Sourcing

Algeria, Caspian Region, Libya, Russia, LNG (GR,TR), Black sea shelf gas; Domestic production;

Benefits

Main Driver	Others
Main Driver Explanation	<p>The concept of establishing a gas distribution centre (hub) on the territory of Bulgaria is based on the idea significant natural gas quantities from various sources to enter at certain real physical points for further transportation. Meanwhile, a gas trading venue - hub is also being organized, where each market participant will carry out natural gas transactions on a market-based principle. The idea of building a regional gas hub is based on the strategic geographical location of Bulgaria, the well-developed existing gas transmission and storage infrastructure and the interconnections projects with the neighbouring countries.</p>
Benefit Description	<p>The purpose of the Balkan Gas Hub project (PCI 6.25.4) is to connect the markets of the countries of the Balkan region, Central and Eastern Europe with the Western European markets by construction of the necessary gas infrastructure and providing commercial and regulatory environment, including a liquid gas exchange. Fully developed in pursuance of the policy and priorities for establishing an interconnected and integrated pan-European gas market of the EU, the gas hub concept is in line with the Southern Gas Corridor development projects and in full compliance with the plans for development of the European gas infrastructure aimed at improving security of supply and diversifying the natural gas supply sources. The project corresponds to the needs of the region, identified by the High Level Group on Energy Connectivity in Central and South-East Europe (CESEC), as well as the European Strategy for Energy Union.</p>

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision;#(2) Yes, we have applied for CEF, but we have not received a decision yet</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.9</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
		Comments	<i>2018 Bulgartransgaz EAD submitted a Request for support under the Structural Reform Support Programme of the European Union, with subject Balkan Gas Hub Trading Model. The Project Request aims to build on the results from the Feasibility Study by granting additional expert support under the Programme. The Project Request amounts up to EUR 300 000 and is included in the Cooperation and Support Plan to 2019 Structural Reform Support Programme.</i> <i>Grant Agreement dated 17 May 2017 for implementing Balkan Gas Hub Feasibility Study amounting to EUR 920 500.</i> <i>In June 2019 Bulgartransgaz EAD applied for financing within the CEF Energy call 2019 with a project proposal for design of two compressor stations – (CS Rasovo and CS Nova Provadia). Design and construction of each of the two compressor stations is a separate stage of Phase 1 of the project for the construction of Balkan Gas Hub (PCI 6.25.4). Ranking results are expected in September 2019.</i>
		General Comments	

UGS Chiren Expansion

UGS-A-138	Project	Storage Facility	Non-FID
Update Date	22/09/2020		Advanced
Description	Capacity increase of the only gas storage facility on the territory of Bulgaria in order to achieve larger gas volumes stored, increased gas reservoir pressures and higher daily average injection and withdrawal flowrates. The project is part of the concept for Balkan Gas Hub and envisions to increase in the working gas volume up to 1 bcm and increase in the injection and withdrawal rate up to 8 – 10 mcm/day.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
GMS Chiren	Bulgartransgaz EAD	2025	STcBGn	BGn	48.90 GWh/d
				Comment: Withdraw	
	Bulgartransgaz EAD	2025	BGn	STcBGn	51.07 GWh/d
				Comment: Injection	
	Bulgartransgaz EAD (SSO)	2025	STcBGn	BGn	48.90 GWh/d
				Comment: Withdraw	
	Bulgartransgaz EAD (SSO)	2025	BGn	STcBGn	51.07 GWh/d
				Comment: Injection	

Sponsors		General Information		NDP and PCI Information	
Bulgartransgaz EAD	100%	Promoter	Bulgartransgaz EAD	Part of NDP	Yes (2019-2028 Ten-year network development plan of BTG)
		Operator	Bulgartransgaz EAD	NDP Number	Section 5.3 (5.3.1)
		Host Country	Bulgaria	NDP Release Date	23/04/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.20.2 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2011	Considered TPA Regime	Regulated
Feasibility	03/2015	03/2020	Considered Tariff Regime	Regulated
FEED	02/2022	01/2024	Applied for Exemption	Not Relevant
Permitting	06/2021	02/2024	Exemption Granted	Not Relevant
Supply Contracts		02/2022		
FID		04/2021		
Construction	07/2022	06/2025	Exemption in entry direction	0.00%
Commissioning	2025	2025	Exemption in exit direction	0.00%
Grant Obtention Date	23/10/2015	23/10/2015		

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
UGS Chiren	Depleted Field	Yes	UGS Chiren Expansion	450	4.6	4.8	75	The expected load factor for the first 3 years after the commissioning.	2025

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	The project aims at creating conditions to guarantee the security of supplies for Bulgaria and the region, and to develop the UGS as commercial gas storage in an interconnected regional and European market. UGS Chiren expansion is part of the concept for development of the Balkan Gas Hub and a key instrument for the functioning of the gas market in Bulgaria and a prerequisite for market development, diversification and enhancement of the market integration, thus contributing to increased capacities for natural gas transmission of the intercons (IGB, IBR, IBS) and increased N-1 Indicator in terms of SoS. In the medium term UGS Chiren promises to become a commercial facility with a significant role in competition development in the regional gas market and in provision of additional flexibility of the gas transmission systems at regional level, with a significant contribution to congestion management and seasonal optimization of use of the gas transmission systems.

Delays since last TYNDP	
Delay Since Last TYNDP	yes
Delay Explanation	Commissioning: 2025 The delay of the overall PCI implementation is due to delay in the in the implementation of 3D seismic studies. The reasons are that within the tender procedure, the Selection Decision was appealed by one of the bidders and that hindered its successful completion. In the mean time new standard templates for tender procedures were approved by the Bulgarian Ministry of Finance, which from our side let to delay in the preparation of new tender documentation for the 3D seismic studies tendering, which afterwards needed to be re-launch. Another reason is delay in the process of granting access to the lands / propertis within the survey area, due to difficulties in obtaining Right of Way Agreements from the users of agricultural properties to perform seismic activities.

Expected Gas Sourcing	
Caspian Region, Russia, LNG (), Southern gas corridor gas sources; European gas hubs;	

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	UGS Chiren has been the only gas storage on the territory of Bulgaria for 40 years. It is a key instrument for the functioning of the gas market in Bulgaria, covering seasonal fluctuations in natural gas consumption in the country by securing the necessary flexibility caused by the differences between the supplies and consumption and ensures emergency reserve. UGS Chiren is a crucial instrument ensuring the security of gas supplies. In the medium term UGS Chiren promises to become a commercial facility with a significant role in competition development in the regional gas market and in provision of additional flexibility of the gas transmission systems at regional level, with a significant contribution to congestion management and seasonal optimization of use of the gas transmission systems.
Benefit Description	The project for its expansion aims on one hand at creating conditions to ensure security of supplies to Bulgarian users and users in the countries from the region, and on the other - UGS Chiren development as commercial gas storage, as part of the Balkan Gas Hub concept, in an interconnected regional and Europe-wide market. The project contributes for market development, diversification and enhancement of the market integration, thus contributing to increased capacities for natural gas transmission of the interconnectors (IGB, IBR, IBS). In terms of SoS and the related Competition the expansion of the UGS Chiren will increase the N-1 Indicator. It also has considerable contribution to congestion management and seasonal optimization of the use of gas transmission systems.

Barriers	
Barrier Type	Description
Permit Granting	Obstacles related to granting access of the equipment to the lands falling within the scope of the 3D seismic surveys: disagreement to sign Right of Way Agreement on behalf of the landowners / users in the survey area.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 3.9</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for studies and works</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Cyprus Gas2EU

LNG-A-1146	Project	LNG Terminal	Non-FID
Update Date	22/09/2020		Non-Advanced
Description	CyprusGas2EU project (7.5 in the 3rd PCI list) is the only candidate PCI project that ends the isolation of an EU Member State and it is necessary for the Southern Gas Corridor.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Terminal 2 Vassiliko - Lemesos Port	Cygas	2022	LNG_Tk_CY	CY	40.00 GWh/d

Sponsors	General Information	NDP and PCI Information	
	Promoter	Ministry of Energy, Commerce and Industry (MECI)	Part of NDP No ((2) no NDP exists in the country)
	Operator	Natural Gas Public Company (DEFA LTD)	NDP Number
	Host Country	Cyprus	NDP Release Date
	Status	In Progress	NDP Website
	Website	Project's URL	Currently PCI Yes (7.5 (2020))
		Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		02/2017	Considered TPA Regime	Not Applicable
Feasibility	04/2017	10/2017	Considered Tariff Regime	Not Applicable
FEED	05/2017	09/2018	Applied for Exemption	No
Permitting	10/2019	01/2022	Exemption Granted	No
Supply Contracts		01/2022		
FID		11/2019	Exemption in entry direction	0.00%
Construction	11/2019	03/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date	25/01/2018	25/01/2018		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The project will contribute to market integration as it will enable Cyprus to connect with the European gas network. It will improve Cyprus's security of energy supply and diversification of imported energy sources and fuels. The project will support objectives of sustainability as it will contribute to the reduction of GHG emissions in the island and prepare a low carbon economy.

Delays since last TYNDP
Delay Since Last TYNDP
Delay Explanation

Expected Gas Sourcing
LNG (), Cyprus

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	End the isolation of a Member State and allow market integration with other Member States

CBCA	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>
Submissin Date	<i>14/08/2017</i>
Decision Date	<i>13/10/2017</i>
Website	<i>CBCA URL</i>
Countries Affected	<i>Cyprus, Greece</i>
Countries Net Cost Bearer	<i>Cyprus</i>
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>Yes</i>
Grants for works amount	<i>Mln EUR 101.3</i>
Intention to apply for CEF	
Other Financial Assistance	<i>Yes</i>
Comments	<i>From CEF Synergy Call 2017</i>
General Comments	<i>www.Cynergy-project.eu</i>

Capacity4Gas – CZ/SK

TRA-F-918	Project	Pipeline including CS	FID
Update Date	18/12/2019		Advanced
Description	The project "Capacity4Gas – CZ/SK" is a subproject of the overall project Capacity4Gas which will enable the further increase of the exit capacity at the interconnection point Lanžhot between the Czech Republic and Slovakia. The project is jointly coordinated by the transmission system operators of the Czech Republic (NET4GAS, s.r.o.) and Slovakia (eustream, a.s.) The project results from capacity bookings resulting from the binding capacity auction in March 2017.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Lanžhot	NET4GAS, s.r.o.	2019	CZ	SK	333.00 GWh/d
	Comment: The project is planned to be completed by the end of 2019 and put into operation on 1.1.2020. The incremental capacity represents approx. exit capacity extension at the CZ/SK border.				

Sponsors		General Information		NDP and PCI Information	
Czech Republic		Promoter	NET4GAS, s.r.o.	Part of NDP	Yes (CZ NDP 2019-2028 (approved))
NET4GAS, s.r.o.	100%	Operator	NET4GAS, s.r.o.	NDP Number	TRA-F-918
Slovakia		Host Country	Czechia	NDP Release Date	31/10/2018
eustream, a.s.	100%	Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		04/2017	Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED	04/2017	06/2018	Applied for Exemption	No
Permitting	03/2018	08/2018	Exemption Granted	Not Relevant
Supply Contracts		02/2019		
FID		03/2017		
Construction	05/2019	12/2019	Exemption in entry direction	0.00%
Commissioning	2019	2019	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
Capacity4Gas - CZ/SK	The project is planned to be completed by the end of 2019 and put into operation on 1.1.2020.				2020	
Total						

Expected Gas Sourcing	
Norway, Russia	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Result of the capacity auction.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	Mln EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	Mln EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	No
		Comments	
		General Comments	

Greening of Gas (GoG)

ETR-N-306	Project	Energy Transition Related Project	Non-FID
Update Date	25/09/2019		Advanced
Description	The aim of the project is to realise a demonstration facility of Power2Gas technology and to produce biomethane and synthetic methane for the first time in the Czech Republic thanks to this unique technology. The project consists of a combination of biogas purification technology (bio methanization) with an electrolyser, that is, the production of hydrogen by electrolysis from renewable electricity and the subsequent production of synthetic methane. The operator of the facility has not been decided yet.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Variant : Variant A		Hydrogen production			
Point	Operator	Year	From Gas System	To Gas System	Capacity
GoG (CZ)	NET4GAS, s.r.o.	2023	NPcCZ	CZ	0.01 GWh/d
Comment: Hydrogen production (Exit from ETR and Entry to TSO).					
Capacity Increments Variant(s) For Information Only					
Variant : Variant B		Biomethane production			
Point	Operator	Year	From Gas System	To Gas System	Capacity
GoG (CZ)	NET4GAS, s.r.o.	2023	NPcCZ	CZ	0.01 GWh/d
Comment: Biomethane production (Exit from ETR and Entry to TSO).					

Sponsors		General Information	
GasNet	50%	Promoter	NET4GAS, s.r.o.
NET4GAS	50%	Operator	NET4GAS, s.r.o.
		Host Country	Czechia
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		12/2018
Feasibility	01/2019	12/2019
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2023	2023
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Greening of Gas	Production of hydrogen (2400 m3 H2/d) or synthetic metan (1200 m3 CH4/d).	Building and connecting a facility to demonstrate the operational and industrial feasibility of such projects.	2023

Compressor Station Krummhoern

TRA-F-1271	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	Extension of the existing OGE compressor station Krummhoern near Emden in Lower Saxony. The compressor station Krummhoern is used to feed compressed gas into the connected transmission pipelines.		
PRJ Code - PRJ Name	-		

Sponsors	General Information		NDP and PCI Information	
CS Krummhoern extension step 1	Promoter	Open Grid Europe GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018 (German NDP 2018))
Open Grid Europe GmbH	Operator	Open Grid Europe GmbH	NDP Number	414-01 an 415-01
CS Krummhoern extension step 2	Host Country	Germany	NDP Release Date	20/03/2019
Open Grid Europe GmbH	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED	07/2016	06/2019	Applied for Exemption	No
Permitting	11/2016	06/2019	Exemption Granted	No
Supply Contracts				
FID		01/2017	Exemption in entry direction	0.00%
Construction	06/2017	04/2021	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations							
Pipeline Section		Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Krummhoern extension step 1						13	2019
CS Krummhoern extension step 2						13	2022
Total						26	

Expected Gas Sourcing

Norway

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No, we do not plan to apply
Other Financial Assistance	No
Comments	
General Comments	

Conversion of Natural-Gas-Pipelines to Hydrogen-Pipelines

ETR-N-945	Project	Energy Transition Related Project	Non-FID
Update Date	22/06/2020		Advanced
Description	Thyssengas plans to convert three Natural-Gas-Pipelines to Hydrogen-Pipelines to develop together with other german TSO a hydrogen grid in North-Western Germany. The projects are desriped in the NDP (ID 711, 712 and 713).		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
Umstellung Leitungssystem Elten-Sonsbeck (NETG)	Promoter	Thyssengas GmbH
Thyssengas GmbH50%	Operator	Thyssengas GmbH
Umstellung Leitungssystem Kalle-Ochtrup	Host Country	Germany
Thyssengas GmbH100%	Status	Planned
Umstellung Leitungssystem Sonsbeck-Hamborn	Website	
Thyssengas GmbH50%		

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2025	2025
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Conversion until 2025	Pipeline Kalle - Ochtrup: length 49 km, diameter DN 600		
Conversion until 2030	Pipeline Elten - Sonsbeck: length 42 km, diameter DN 900		
	Pipeline Sonsbeck - Hamborn: length 34 km, diameter DN 500		

Conversion of Natural Gas pipelines to Hydrogen

ETR-N-903	Project	Energy Transition Related Project	Non-FID
Update Date	24/06/2020		Advanced
Description	This project represents the conversion of natural gas pipelines of Gasunie Deutschland to the transport of hydrogen according to the German NDP 2020. In the German NDP the TSO developed a hydrogen grid which connects the supply with the demand based on a market survey.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	Gasunie Deutschland Transport Services GmbH
	Operator	Gasunie Deutschland Transport Services GmbH
	Host Country	Germany
	Status	Planned
	Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2030	2030
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
NEP ID: 704_01	Conversion Mitte Weser - Kolshorn 28 km; D700; MOP 70 bar	Total length 93 km (30% GUD Share)	2030
NEP ID: 714_01	Conversion Elbe Süd - Heidenau 41 km; D600; MOP 70 bar		2025
NEP ID: 715_01	Conversion Eckel - Achim 73 km; D450; MOP 70 bar		2025
NEP ID: 716_01	Conversion Oude Statenzijl - Ganderkersee 89 km; D600; MOP 70 bar		2030
NEP ID: 717_01	Conversion Ganderkersee - Achim 41 km; D600; MOP 70 bar		2025
NEP ID: 718_01	Conversion Ganderkersee - Bremen 17 km; D400; MOP 70 bar		2025
NEP ID: 719_01	Conversion Folmhusen - Nuettermoor 18 km; D400; MOP 70 bar		2030
NEP ID: 720_01	Conversion Barßel - Rheine 108 km; D1000; MOP 38 bar		2030
NEP ID: 721_01	Conversion Ganderkersee - Drohne 80 km; D600; MOP 70 bar		2030

CS Elten

TRA-F-1254	Project	Pipeline including CS	FID
Update Date	18/11/2019		Non-Advanced
Description	Compressor station project to support the changeover from low-calorific gas to high-calorific gas in Germany.		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
Open Grid Europe GmbH	50%	Promoter	Open Grid Europe GmbH and Thyssengas GmbH	Part of NDP	Yes (German NDP 2018 - 2028 (NEP 2018 -2028))
Thyssengas GmbH	50%	Operator	Thyssengas GmbH	NDP Number	422/01
		Host Country	Germany	NDP Release Date	20/03/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	10/2018	06/2019	Considered Tariff Regime	Regulated
FEED	07/2017	01/2019	Applied for Exemption	No
Permitting	10/2019	12/2020	Exemption Granted	No
Supply Contracts				
FID		03/2016	Exemption in entry direction	0.00%
Construction	06/2022	11/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Elten				11	2022
	Total			11	

Expected Gas Sourcing

Norway, LNG (BE,FR,NL,UK)

Benefits

Main Driver	Market Demand
Main Driver Explanation	Changeover of regions currently supplied by low-calorific gas to high-calorific gas due to declining availability of low-calorific gas.
Benefit Description	Availability of low-calorific gas is declining in Germany. The regions currently supplied by low-calorific gas will need to switch supply from low-calorific gas to high-calorific gas. The project is needed to transport high-calorific gas to the regions currently supplied by low-calorific gas.

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No, we do not plan to apply
Other Financial Assistance	No
Comments	
General Comments	

CS Rimpar

TRA-F-755	Project	Pipeline including CS	FID
Update Date	18/11/2019		Non-Advanced
Description	New construction of a compressor station at the existing site of Rimpar on the MEGAL gas transport system allowing the necessary H-gas flows to the North of Germany replacing disappearing L-gas quantities. This project has no impact of increment capacity.		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
GRTgaz Deutschland GmbH	55%	Promoter	GRTgaz Deutschland GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018)
Open Grid Europe GmbH	44%	Operator	GRTgaz Deutschland GmbH und Open Grid Europe GmbH	NDP Number	312-02
		Host Country	Germany	NDP Release Date	20/03/2019
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	Not Relevant
Permitting	01/2019	12/2019	Exemption Granted	Not Relevant
Supply Contracts		04/2020		
FID		07/2018	Exemption in entry direction	0.00%
Construction	01/2020	12/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Rimpar / MEGAL		0	0	30	2023
	Total		0	30	

Expected Gas Sourcing

Russia

Benefits

Main Driver	Others
Main Driver Explanation	Replacement of disappearing L-gas quantities by H-gas
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No, we do not plan to apply
Other Financial Assistance	No
Comments	
General Comments	

CS Wertingen

TRA-F-340	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	VDS Wertingen is a new compressor station project including 3 compressor units of 11 MW each. One of the compressor units will serve as a redundancy unit.		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
bayernets GmbH	55%	Promoter	bayernets GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018-2028)
Open Grid Europe GmbH	45%	Operator	bayernets GmbH	NDP Number	036-04
		Host Country	Germany	NDP Release Date	01/04/2018
		Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2019	Considered TPA Regime	Regulated
Feasibility	07/2015	11/2015	Considered Tariff Regime	Regulated
FEED	03/2016	03/2016	Applied for Exemption	No
Permitting	04/2016	04/2017	Exemption Granted	Not Relevant
Supply Contracts		08/2017		
FID		05/2016	Exemption in entry direction	0.00%
Construction	09/2017	12/2019	Exemption in exit direction	0.00%
Commissioning	2019	2019		
Grant Obtention Date				

Benefits	
Main Driver	Others
Main Driver Explanation	The project results from the modelling of National Development Plan (so called "Netzentwicklungsplan Gas") 2012, 2013, 2014, 2015, 2016 and 2018 in Germany.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Element Eins

ETR-N-452	Project	Energy Transition Related Project	Non-FID
Update Date	27/09/2019		Advanced
Description	<p>The grid operators TenneT, Gasunie Deutschland and Thyssengas have put forward detailed plans for coupling the electricity and gas grids and advancing the energy transition. The three grid operators are planning to build a power-to-gas pilot plant in Lower Saxony; at an electrical input of 100 megawatts, it will be one of the largest of its kind in Germany.</p> <p>The “Element Eins” pilot project will give the companies first experiences with power-to-gas facilities on an industrial scale. Starting in 2023, the pilot plant will be connected to the grid gradually. By converting green electricity into gas, it will develop new storage capacities for renewable energies. The partners ultimately hope to achieve a comprehensive coupling of the energy, transport and industrial sectors. Gas that has been produced from green electricity will be transported from the North Sea to the Ruhr region through existing pipelines. It could also be made available to the mobility sector.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Ostfriesland (Element Eins)	Thyssengas GmbH	2022	NPcDEn	DEn	0.72 GWh/d
	Thyssengas GmbH	2024	NPcDEn	DEn	1.08 GWh/d
			Comment: Start of conversion to CH4		
	Thyssengas GmbH	2028	NPcDEn	DEn	1.80 GWh/d
			Comment: Need of conversion to CH4 for 1.08 GWh/d		

Sponsors		General Information	
Electrical Grid connection		Promoter	Thyssengas GmbH, Gasunie Deutschland Transport Services GmbH, Tennet TSO Gm
TenneT TSO GmbH	100%	Operator	Thyssengas GmbH
Gas Grid connection		Host Country	Germany
Gasunie Deutschland Transport Services GmbH	50%	Status	Planned
Thyssengas GmbH	50%	Website	Project's URL
Power to Gas Plant			
Gasunie Deutschland Transport Services GmbH	50%		
Thyssengas GmbH	50%		

Schedule	Start Date	End Date
Pre-Feasibility		10/2019
Feasibility	10/2019	12/2019
FEED		
Permitting		
Supply Contracts		
FID		
Construction	01/2022	12/2022
Commissioning	2022	2028
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
<i>using separate infrastructure</i>	<i>electrical input of 100 megawatts new entry point: not defined yet Capacity H2: 1.8 GWh/d</i>		<i>2030</i>
<i>addition to natural gas</i>	<i>Injektion of hydrogen to existing natural gas pipelines; electrical input of 40 megawatts new entry point: not defined yet Capacity H2: 0,72 GWh/d</i>		<i>2023</i>

Energy Park Bad Lauchstädt

ETR-N-562	Project	Energy Transition Related Project	Non-FID
Update Date	15/06/2020		Advanced
Description	Hydrogen is produced by a 35 MW electrolyzer, which is directly connected to a wind farm. The pure hydrogen should be stored in a nearby salt cavern. The transport between the underground storage and the end users for the hydrogen inside an existing industrial area is provided by a converted natural gas pipeline.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	ONTRAS Gastransport GmbH
	Operator	ONTRAS Gastransport GmbH
	Host Country	Germany
	Status	Planned
	Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		04/2019
Feasibility	05/2019	04/2021
FEED	06/2019	05/2021
Permitting	01/2020	12/2020
Supply Contracts		
FID		
Construction		
Commissioning	2023	2023
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Feasibility	capacity increment: 26.000 kWh/h; 0,60 GWh/d	hydrogen is injected in a converted natural gas pipeline	2023

GETH2-ETR 1

ETR-N-633	Project	Energy Transition Related Project	Non-FID
Update Date	28/05/2020		Advanced
Description	<p>Start for the Germany-wide hydrogen infrastructure:</p> <p>Germany has set itself the target of reducing CO2 emissions by 80-95 percent (compared to 1990). In order to achieve the climate targets with the greatest possible efficiency, other key technologies are needed in addition to the expansion of renewable energy generation and the electricity infrastructure.</p> <p>The conversion of electricity from renewables to hydrogen (H2) - power-to-gas - is such a key to a successful energy transition.</p> <p>The principle:</p> <ul style="list-style-type: none">- Electricity from renewable energies is converted to H2- The green H2 is distributed via the existing gas infrastructure- In the industrial, transport, energy and heating sectors, green H2 is used as a CO2-free energy source- H2 that is not used directly is stored in underground caverns especially for dark doldrums		
PRJ Code - PRJ Name	-		

Sponsors	General Information
	Promoter <i>Nowega GmbH & Open Grid Europe GmbH</i>
	Operator <i>Nowega GmbH</i>
	Host Country <i>Germany</i>
	Status <i>Planned</i>
	Website <i>Project's URL</i>

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2022	2022
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
GET H2	919,8 GWh/y max	919,8 GWh/y max	2022

Green Hydrogen Hub Ahaus-Epe

ETR-N-852	Project	Energy Transition Related Project	Non-FID
Update Date	14/08/2020		Advanced
Description	Production of hydrogen via electrolysis and storage of hydrogen in salt caverns. GHH AE is located in the state of North Rhine-Westphalia, DE, where salt deposits suitable for creation of caverns capable of large-scale storage of hydrogen are present. The location is close to existing energy infrastructure: high-voltage electricity transmission grid, gas transmission network, multiple gas storage caverns and wind resources in the Northern Seas Region. Electrolysis capacity: Year 2027-300 MW Year 2031-1 GW Hydrogen storage capacity: Year 2027-200 GWh Year 2031-400 GWh. The results of ETR-N-828 show that project benefits exceed project costs. Large-scale electrolysis optimises the value of RES-E & co-location with large-scale hydrogen storage maximises the technology benefits ensuring a robust hydrogen supply chain.ETR-N-828 illustrates sector coupling potential as expressions of interest for green hydrogen have been received from entities engaged in transport,construction & industry.		
PRJ Code - PRJ Name	-		

Sponsors		General Information	
Corre Energy Limited	100%	Promoter	Corre Energy Limited
		Operator	Corre Energy Storage Ltd
		Host Country	Germany
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		11/2021
Feasibility	12/2021	01/2022
FEED	02/2022	09/2022
Permitting	05/2022	05/2024
Supply Contracts		05/2024
FID		06/2024
Construction	09/2024	08/2026
Commissioning	2026	2026
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Planning	Power-to-hydrogen electrolysis system with a capacity of up to 1,000 MW - Salt cavern storage of up to 130 million Nm3 (400 GWh) of hydrogen producing 2.712 GWh/day of Green Hydrogen		2026

Green Hydrogen Hub Etzel

ETR-N-894	Project	Energy Transition Related Project	Non-FID
Update Date	14/08/2020		Advanced
Description	<p>Production of hydrogen via electrolysis and storage of hydrogen in salt caverns. GHH EZ is located in the state of Lower Saxony, DE, where salt deposits suitable for creation of caverns capable of large-scale storage of hydrogen are present. The location is close to existing energy infrastructure: high-voltage electricity transmission grid, gas transmission network, multiple gas storage caverns and wind resources in the Northern Seas Region.</p> <p>Electrolysis capacity: Year 2027 - 300 MW Year 2031 - 1,000 MW Hydrogen storage capacity: Year 2027 - 200 GWh Year 2031 - 400 GWh. The results of ETR-N-828 show that project benefits exceed project costs. Large-scale electrolysis optimises the value of RES-E & co-location with large-scale hydrogen storage maximises the technology benefits ensuring a robust hydrogen supply chain.ETR-N-828 illustrates sector coupling potential as expressions of interest for green hydrogen have been received from entities engaged in transport,construction & industry</p>		
PRJ Code - PRJ Name	-		

Sponsors		General Information	
Corre Energy Limited	100%	Promoter	Corre Energy Limited
		Operator	Corre Energy Storage Ltd
		Host Country	Germany
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		11/2021
Feasibility	12/2021	01/2022
FEED	02/2022	09/2022
Permitting	05/2022	05/2024
Supply Contracts		05/2024
FID		06/2024
Construction	09/2024	08/2024
Commissioning	2026	2026
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Planning	Power-to-hydrogen electrolysis system with a capacity of up to 1,000 MW - Salt cavern storage of up to 130 million Nm3 (400 GWh) of hydrogen producing 2.712 Gwh/day of Green Hydrogen		2027

Green Hydrogen Hub Harsefeld

ETR-N-846	Project	Energy Transition Related Project	Non-FID
Update Date	14/08/2020		Advanced
Description	Production of hydrogen via electrolysis and storage of hydrogen in salt caverns. GHH DW is located in the Municipality of Harsefeld, DE, where salt deposits suitable for creation of caverns capable of large-scale storage of hydrogen are present. The location is close to existing energy infrastructure: high-voltage electricity transmission grid, gas transmission network and wind resources in the Northern Seas Region. Electrolysis capacity: Year 2027 - 300 MW Year 2031 - 1,000 MW Hydrogen storage capacity: Year 2027 - 200 GWh Year 2031 - 400 GWh. The results of ETR-N-828 show that project benefits exceed project costs. Large-scale electrolysis optimises the value of RES-E & co-location with large-scale hydrogen storage maximises the technology benefits ensuring a robust hydrogen supply chain.ETR-N-828 illustrates sector coupling potential as expressions of interest for green hydrogen have been received from entities engaged in transport,construction & industry.		
PRJ Code - PRJ Name	-		

Sponsors	General Information
Corre Energy Limited100%	PromoterCorre Energy Limited
	OperatorCorre Energy Storage Ltd
	Host CountryGermany
	StatusPlanned
	Website

Schedule	Start Date	End Date
Pre-Feasibility		11/2021
Feasibility	12/2021	01/2022
FEED	02/2022	09/2022
Permitting	05/2022	05/2024
Supply Contracts		05/2024
FID		06/2024
Construction	09/2024	08/2026
Commissioning	2026	2026
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Planning	Power-to-hydrogen electrolysis system with a capacity of up to 1,000 MW - Salt cavern storage of up to 130 million Nm3 (400 GWh) of hydrogen producing 2.712 GWh/day of Green Hydrogen		2026

Green Hydrogen Hub Moeckow

ETR-N-883	Project	Energy Transition Related Project	Non-FID
Update Date	14/08/2020		Advanced
Description	Production of hydrogen via electrolysis & storage of hydrogen in salt caverns. GHH MC is located in the state of Mecklenburg-Vorpommern, DE, where salt deposits suitable for creation of caverns capable of large-scale storage of hydrogen are present. The location is close to existing energy infrastructure: high-voltage electricity transmission grid, gas transmission network, multiple gas storage caverns & wind resources in the Northern Seas Region. Electrolysis capacity: Year 2027-300 MW Year 2031-1,000 MW Hydrogen storage capacity: Year 2027-200 GWh Year 2031-400 GWh. The results of ETR-N-828 show that project benefits exceed project costs. Large-scale electrolysis optimises the value of RES-E & co-location with large-scale hydrogen storage maximises the technology benefits ensuring a robust hydrogen supply chain.ETR-N-828 illustrates sector coupling potential as expressions of interest for green hydrogen have been received from entities engaged in transport,construction & industry		
PRJ Code - PRJ Name	-		

Sponsors		General Information	
Corre Energy Limited	100%	Promoter	Corre Energy Limited
		Operator	Corre Energy Storage Ltd
		Host Country	Germany
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		11/2021
Feasibility	12/2021	01/2022
FEED	02/2022	09/2022
Permitting	05/2022	05/2024
Supply Contracts		05/2024
FID		06/2024
Construction	09/2024	08/2026
Commissioning	2026	2026
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Planning	Power-to-hydrogen electrolysis system with a capacity of up to 1,000 MW - Salt cavern storage of up to 130 million Nm3 (400 GWh) of hydrogen producing 2.712 GWh/day of Green Hydrogen		2026

H2morrow Steel

ETR-N-939	Project	Energy Transition Related Project	Non-FID
Update Date	25/06/2020		Advanced
Description	H2morrow Steel aims to provide hydrogen to the steel plant in Duisburg. In order to allow for a continuous and secure supply of hydrogen, the hydrogen will be produced from natural gas by reforming in an autothermal reformer. The resulting CO2 will be sequestrated and stored permanently. The produced hydrogen is transported from the production site to the steel plant via new built or converted hydrogen pipelines.		
PRJ Code - PRJ Name	-		

Sponsors	General Information
	Promoter <i>Open Grid Europe GmbH; Thyssengas GmbH</i>
	Operator <i>Open Grid Europe GmbH</i>
	Host Country <i>Germany</i>
	Status <i>Planned</i>
	Website <i>Project's URL</i>

Schedule	Start Date	End Date
Pre-Feasibility		<i>03/2020</i>
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	<i>2026</i>	<i>2026</i>
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
-	<i>capacity increment: 65 GWh/day</i>		

hybridge - gas grid infrastructure

ETR-N-406	Project	Energy Transition Related Project	Non-FID
Update Date	03/09/2019		Advanced
Description	Amprion and OGE want to advance sector coupling. The goal of the project partners is to optimally coordinate the electricity and gas systems. The system-oriented use of a power-to-gas plant can thus avoid bottlenecks in the transmission grid. From 2023, the plant will convert up to 100 MW of electricity into hydrogen. The aim is to trial all future uses of hydrogen. Part of Open Grid Europe's existing gas pipeline system will be converted to transport pure hydrogen. Companies with a need for hydrogen can connect to this network. The mobility sector and converted gas storage facilities can also be integrated. The addition of hydrogen to natural gas grids and methanisation are also part of the hybridge concept. This means that the green gas can also be used for other purposes, such as heating. The project can be considered in two parts, the electrolysis (realized by Amprion) and the gas grid infrastructure (realized by OGE). This project only includes the gas grid infrastructure part.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Production (OGE) (DE)	Open Grid Europe GmbH	2023	NPcDEn	DEn	2.00 GWh/d

Sponsors	General Information	
	Promoter	Open Grid Europe GmbH
	Operator	Open Grid Europe GmbH
	Host Country	Germany
	Status	Planned
	Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		03/2019
Feasibility	01/2019	03/2020
FEED	01/2020	12/2020
Permitting	01/2021	12/2021
Supply Contracts		
FID		01/2020
Construction	01/2022	06/2023
Commissioning	2023	2023
Grant Obtention Date		

Hydrogen pipeline system conversion projects of german gas NDP 2020-2030

ETR-N-952	Project	Energy Transition Related Project	Non-FID
Update Date	25/06/2020		Advanced
Description	Hydrogen pipeline system conversion projects of german gas NDP 2020-2030 (pipeline system conversion projects only; new pipelines and facilities are not included); IDs german gas NDP: 705, 706, 707 (share OGE: 50%), 708 (share OGE: 50%), 709, 710, 711 (share OGE: 50%), 712 (share OGE: 50%)		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	Open Grid Europe GmbH
	Operator	Open Grid Europe GmbH
	Host Country	Germany
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2030	2030
Grant Obtention		
Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
-	<p><i>pipeline length: 262 km (total length)</i></p> <p><i>pipeline diameters: 400-900 mm</i></p> <p><i>capacity increment: 72,05 GWh/day (including new pipeline and conversion projects)</i></p>		

New hydrogen pipeline projects of german gas NDP 2020-2030

ETR-N-948	Project	Energy Transition Related Project	Non-FID
Update Date	25/06/2020		Advanced
Description	All new hydrogen pipeline projects of german gas NDP 2020-2030 (new pipeline projects only; new facilities and pipeline system conversion projects are not included); IDs german gas NDP: 731, 732, 733, 734, 735, 743		
PRJ Code - PRJ Name	-		

Sponsors	General Information
	Promoter <i>Nowega GmbH; Open Grid Europe GmbH; Thyssengas GmbH</i>
	Operator <i>Open Grid Europe GmbH</i>
	Host Country <i>Germany</i>
	Status <i>Planned</i>
	Website

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2030	2030
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
-	<i>pipeline length: 93,1 km</i> <i>pipeline diameters: 300-600 mm</i> <i>capacity increment: 72,05 GWh/day (including new pipeline and conversion projects)</i>		

Nord Stream 2

TRA-F-937	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	Transport of natural gas from Russia through the Baltic Sea to the EU network on the German shore. Nord Stream 2 will enhance the EU's security of supply of natural gas, strengthen the internal market and support EU climate goals.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Lubmin II	Nord Stream 2 AG	2019	RU/NO2	DEg	1,750.00 GWh/d
Comment: Two additional route options provided for Denmark. Permit expected anytime soon.					

Sponsors		General Information		NDP and PCI Information	
Nord Stream 2 AG	100%	Promoter	Nord Stream 2 AG	No ((4) there is no obligation at national level for such a project to be part of the NDP)	
		Operator	Nord Stream 2 AG		
		Host Country	Germany	NDP Number	
		Status	In Progress	NDP Release Date	
		Website	Project's URL	NDP Website	
				Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Not Applicable
Feasibility	01/2012	10/2012	Considered Tariff Regime	Not Applicable
FEED			Applied for Exemption	Not Relevant
Permitting			Exemption Granted	Not Relevant
Supply Contracts		12/2016		
FID		09/2015		
Construction	02/2018	12/2019	Exemption in entry direction	0.00%
Commissioning	2019	2019	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Nord Stream 2		1,153	1,200		0
Total			1,200		

Expected Gas Sourcing

Russia

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	Nord Stream 2 will enhance the EU's security of supply of natural gas, strengthen the internal market and support EU climate goals.

Barriers	
Barrier Type	Description
Permit Granting	Two additional route options provided for Denmark. Construction permit expected anytime soon.
Political	Two additional route options provided for Denmark. Construction permit expected anytime soon.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

NOWAL - Nord West Anbindungsleitung

TRA-F-291	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	It is necessary to increase the capacity of the pipeline NOWAL between the networks of OGE (market area of NCG) and GASCADE (Market area of GASPOOL). Given information describes the part of the project that is not commissioned yet, i.e. the upgrade of the stations GDRM-Anlage Rehden and GDRM-Anlage Drohne. This will increase the capacity at interconnection point Drohne NOWAL to ensure the supply to South-West Germany.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Drohne NOWAL	GASCADE Gastransport GmbH	2020	DEg	DEn	200.00 GWh/d
	Comment: Level 2, on top of Level 1. In total 536 GWh/d. Increment due to upgrade of stations GDRM-Anlage Rehden and GDRM-Anlage Drohne.				

Sponsors		General Information		NDP and PCI Information	
GASCADE Gastransport GmbH	100%	Promoter	GASCADE Gastransport GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018-2028)
		Operator	GASCADE Gastransport GmbH	NDP Number	410-01a and 410-01b
		Host Country	Germany	NDP Release Date	20/03/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	01/2014	01/2016
Supply Contracts		
FID		05/2019
Construction	04/2020	10/2020
Commissioning	2020	2020
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Expected Gas Sourcing

VHP GASPOOL

Benefits

Main Driver	Market Demand
Main Driver Explanation	Part of the German National Development Plan 2018-2028: 410-01a, 410-01b
Benefit Description	Ensures additional flows to NCG required due to transition from L-gas to H-gas.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	Mln EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	Mln EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	No
		Comments	
		General Comments	

Renewable Hydrogen according to NEP2020

ETR-N-622	Project	Energy Transition Related Project	Non-FID
Update Date	15/06/2020		Advanced
Description	<p>The upcoming NDP will include two concrete scenarios for the integration of renewable gas:</p> <ul style="list-style-type: none">• For 2025 a market survey was performed by the German TSOs to collect concrete projects for the supply of renewable gas from the use of P2G. Projects could either provide directly hydrogen or methane via an additional methanation process.• For 2030 a total of 7.5 GW_{el} of P2G will be considered. The German TSOs see large need for P2G installations for an efficient path towards 2050. This scenario should support the ramp up of the development. <p>This project is covering the hydrogen infeed as envisioned in the NDP 2020. It covers in the “market survey”-path the total hydrogen supply from renewable gas projects, that have not been put individually into the TYNDP.</p> <p>The “towards 2050”-path is including the (additional) P2G installations considered in the NDP2020 for the 2030 scenario.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Production (DE) (GUD) H-Gas-Summe Produktion	Gasunie Deutschland Transport Services GmbH	2020	NPcDEg	DEg	1.20 GWh/d
	Gasunie Deutschland Transport Services GmbH	2021	NPcDEg	DEg	0.90 GWh/d
	Gasunie Deutschland Transport Services GmbH	2022	NPcDEg	DEg	3.20 GWh/d
	Gasunie Deutschland Transport Services GmbH	2023	NPcDEg	DEg	4.20 GWh/d
	Gasunie Deutschland Transport Services GmbH	2024	NPcDEg	DEg	1.40 GWh/d
	Gasunie Deutschland Transport Services GmbH	2025	NPcDEg	DEg	6.00 GWh/d

Production (DE) (GUD) H-Gas-Summe Produktion	Gasunie Deutschland Transport Services GmbH	2030	NPcDEg	DEg	0.90 GWh/d
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Sponsors	General Information
	Promoter <i>Gasunie Deutschland Transport Services GmbH</i>
	Operator <i>Gasunie Deutschland Transport Services GmbH</i>
	Host Country <i>Germany</i>
	Status <i>Planned</i>
	Website <i>Project's URL</i>

Schedule	Start Date	End Date
Pre-Feasibility		<i>01/2021</i>
Feasibility	<i>01/2019</i>	<i>01/2023</i>
FEED	<i>01/2022</i>	<i>01/2024</i>
Permitting	<i>01/2021</i>	<i>01/2024</i>
Supply Contracts		<i>01/2022</i>
FID		<i>01/2023</i>
Construction	<i>01/2023</i>	<i>01/2025</i>
Commissioning	<i>2020</i>	<i>2030</i>
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Phase 1	4 Projects; 67 MW(el); 1.2 GWh/d H2 capacity		2020
Phase 2	7 Projects; 119 MW(el); 2.1 GWh/d H2 capacity		2021
Phase 3	17 Projects; 300 MW(el); 5.4 GWh/d H2 capacity		2022
Phase 4	26 Projects; 530 MW(el); 9.6 GWh/d H2 capacity		2023
Phase 5	27 Projects; 67 MW(el); 11 GWh/d H2 capacity		2024
Phase 6	32 Projects; 950 MW(el); 17.1 GWh/d H2 capacity		2025
Phase 7	32 Projects; 1000 MW(el); 18 GWh/d H2 capacity		2030

Renewable Methane according to NEP2020

ETR-N-616	Project	Energy Transition Related Project	Non-FID
Update Date	11/08/2020		Advanced
Description	<p>The upcoming NDP will include two concrete scenarios for the integration of renewable gas:</p> <ul style="list-style-type: none">• For 2025 a market survey was performed by the German TSOs to collect concrete projects for the supply of renewable gas from the use of P2G. Projects could either provide directly hydrogen or methane via an additional methanation process.• For 2030 a total of 7.5 GW_{el} of P2G will be considered. The German TSOs see large need for P2G installations for an efficient path towards 2050. This scenario should support the ramp up of the development. <p>This project is covering the renewable methane infeed from P2G as envisioned in the NDP 2020. It covers in the “market survey”-path the total supply from renewable gas projects, that have not been put individually into the TYNDP.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Production (DE) (GUD) H-Gas-Summe Produktion	Gasunie Deutschland Transport Services GmbH	2023	NPcDEg	DEg	0.26 GWh/d
	Gasunie Deutschland Transport Services GmbH	2025	NPcDEg	DEg	0.60 GWh/d

Sponsors	General Information
	Promoter <i>Gasunie Deutschland Transport Services GmbH</i>
	Operator <i>Gasunie Deutschland Transport Services GmbH</i>
	Host Country <i>Germany</i>
	Status <i>Planned</i>
	Website <i>Project's URL</i>

Schedule	Start Date	End Date
Pre-Feasibility		01/2020
Feasibility	01/2019	01/2023
FEED	01/2022	01/2024
Permitting	01/2021	01/2025
Supply Contracts		01/2022
FID		01/2023
Construction	01/2023	01/2025
Commissioning	2023	2025
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Phase 1	100MW PtG; hydrogen + biomethane		2023

Reverse Flow TENP Germany

TRA-F-208	Project	Pipeline including CS	FID
Update Date	22/11/2019		Advanced
Description	The project includes reversing of CS Hgelheim to allow gas coming from south Europe to be transported through the cross-border point Wallbach (which has been commissioned in 2018), as well as the construction of a deodorisation plant near the German-Swiss border (to be commissioned in 2020), including modifications to all necessary installations to allow gas coming from France to be transported through the cross-border point Wallbach. Fluxys TENP Open Grid Europe will both take part in the commercial operation after completion of the project.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Wallbach	Fluxys TENP GmbH & Open Grid Europe GmbH	2020	CH	DEn	240.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Fluxys TENP GmbH	64.25 %	Promoter	Fluxys TENP GmbH & Open Grid Europe GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018-2028)
Open Grid Europe GmbH	35.75 %	Operator	Fluxys TENP GmbH & Open Grid Europe GmbH	NDP Number	305-02
		Host Country	Germany	NDP Release Date	20/03/2019
		Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2015	Considered TPA Regime	Regulated
Feasibility	10/2012	01/2015	Considered Tariff Regime	Regulated
FEED	03/2017	11/2017	Applied for Exemption	No
Permitting	12/2016	10/2018	Exemption Granted	Not Relevant
Supply Contracts		04/2018		
FID		01/2015		
Construction	06/2017	10/2020	Exemption in entry direction	0.00%
Commissioning	2020	2020	Exemption in exit direction	0.00%
Grant Obtention Date				

Expected Gas Sourcing

Algeria, Caspian Region, Libya, Russia, LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	Contribution to the covering of the H-Gas Demand for Germany and to the switch from L- to H-gas.

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.4</i>
Website		Grants for works	<i>Yes</i>
Countries Affected		Grants for works amount	<i>Mln EUR 8.7</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

TENP Security of Supply

TRA-N-402	Project	Pipeline including CS	Non-FID
Update Date	07/09/2020		Advanced
Description	<p>In the Germand Network Development Plan (NEP 2018) several scenarios have been analyzed to take account of the supply security needs in the German state of Baden-Württemberg and the demand for southbound transports to Switzerland and Italy.</p> <p>Two pipeline sections will be built between Mittelbrunn and Schwanheim(Region Rheinland-Pfalz) and between Hügelsheim and Tannenkirch (Region Baden-Württemberg).</p> <p>It will ensure the security of supply needs for the Region Baden-Württemberg, identified in an additional demand of 5.2 GWh/h. Additionally, these investments will secure a capacity of 13.3 GWh/h at the Cross-Border Exit Point Wallbach towards Switzerland and Italy.</p>		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
Fluxys TENP	64.25 %	Promoter	Fluxys TENP GmbH & Open Grid Europe GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018-2028)
OGE	35.75 %	Operator	Fluxys TENP GmbH & Open Grid Europe GmbH	NDP Number	552-01 / 554-01 / 555-01
		Host Country	Germany	NDP Release Date	20/03/2019
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2024	2024
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Connections TENP I - TENP II		600			2021
Pipeline Hgelheim-Tannenkirch		900	16		2024
Pipeline Mittelbrunn-Schwanheim		1,000	38		2024
Total			54		

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Upgrade Sülstorf station

TRA-F-1267	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	The station Sülstorf has to be upgraded by a preheating facility and an additional measuring section in order to allow for additional flow from the pipeline NEL into the pipeline FGL 219.		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
NEL Gastransport GmbH	51%	Promoter	NGT GmbH / GUD GmbH & Co. KG / Fluxys D GmbH	Part of NDP	Yes (Netzentwicklungsplan Gas 2018-2028)
Gasunie Deutschland GmbH & Co. KG	25%	Operator	NEL Gastransport GmbH	NDP Number	507-01k
Fluxys Deutschland GmbH	23%	Host Country	Germany	NDP Release Date	20/03/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts				
FID		03/2019	Exemption in entry direction	0.00%
Construction	06/2019	10/2019	Exemption in exit direction	0.00%
Commissioning	2019	2019		
Grant Obtention Date				

Benefits	
Main Driver	Market Demand
Main Driver Explanation	The project will satisfy market demand that was expressed through binding capacity bookings in the context of "more capacity". The market demand is proven by the successful auctioning of the new capacities in the yearly auctions of 2017 that also proves the economic viability of the project.
Benefit Description	The "more capacity" projects - especially in combination with the other projects within PRJ group "More capacity - DE/CZ Capacity4Gas Project" - will enhance market integration, security of supply, sustainability, and competition within Europe.

CBCA	Financial Assistance
Decision	Applied for CEF (3) No, we have not applied for CEF
Submissin Date	Grants for studies No
Decision Date	Grants for studies amount Mln EUR 0.0
Website	Grants for works No
Countries Affected	Grants for works amount Mln EUR 0.0
Countries Net Cost Bearer	Intention to apply for CEF No, we do not plan to apply
Additional Comments	Other Financial Assistance No
	Comments
	General Comments

Vlieghuis (NL)/ Emlichheim (DE) Capacity for Hydrogen according to the NDP

ETR-N-905	Project	Energy Transition Related Project	Non-FID
Update Date	22/06/2020		Advanced

Description According to the german NDP 2020-2030 this Increment project for Hydrogen shows the capacity at the IP Vlieghuis (NL) -Emmlichheim (DE).

PRJ Code - PRJ Name -

Sponsors	General Information	
	Promoter	Thyssengas GmbH
	Operator	Thyssengas GmbH
	Host Country	Germany
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2025	2025
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
<i>commissioning H2-IP</i>	<i>planned entry-capacity is 500 MWh/h = 12 GWh/d</i>		<i>2025</i>

Wilhelmshaven LNG-Terminal Anbindungsleitung

TRA-A-408	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	Project to connect the planned LNG Terminal Wilhelmshaven to the German transmission system for gas.		
PRJ Code - PRJ Name	-		

Sponsors	General Information		NDP and PCI Information	
	Promoter	Open Grid Europe GmbH	Part of NDP	No ((1) the NDP was prepared at an earlier date and the project will be proposed for inclusion in the next NDP)
	Operator	Open Grid Europe GmbH		
	Host Country	Germany	NDP Number	
	Status	Planned	NDP Release Date	
	Website		NDP Website	
			Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	10/2018	03/2019	Considered Tariff Regime	Regulated
FEED	02/2019	11/2019	Applied for Exemption	No
Permitting	12/2019	12/2020	Exemption Granted	No
Supply Contracts				
FID		12/2020	Exemption in entry direction	0.00%
Construction	06/2021	10/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

ZEELINK

TRA-F-329	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	Pipeline and two compressor stations project to support the changeover from low-calorific gas to high-calorific gas in Germany		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
CS Legden		Promoter	Open Grid Europe GmbH and Thyssengas GmbH	Part of NDP	Yes (Netzentwicklungsplan 2018 (German NDP 2018))
Open Grid Europe GmbH, Germany	75%	Operator	Open Grid Europe GmbH	NDP Number	203-02, 204-02a-d, 205-02a-b, 416-02,
Thyssengas GmbH, Germany	25%	Host Country	Germany	NDP Release Date	20/03/2019
CS Würselen		Status	Planned	NDP Website	NDP URL
Open Grid Europe GmbH, Germany	75%	Website	Project's URL	Currently PCI	No
Thyssengas GmbH, Germany	25%			Priority Corridor(s)	
ZEELINK 1					
Open Grid Europe GmbH, Germany	75%				
Thyssengas GmbH, Germany	25%				
ZEELINK 2					
Open Grid Europe GmbH, Germany	75%				
Thyssengas GmbH, Germany	25%				

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	09/2015	09/2020
Permitting	09/2017	09/2020
Supply Contracts		08/2016
FID		01/2018
Construction	04/2019	03/2023
Commissioning	2023	2023
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
CS Legden				26
CS Würselen				39
ZEELINK 1		1,000	112	
ZEELINK 2		1,000	115	
Total			227	65

Expected Gas Sourcing	
Norway, LNG (BE,FR,NL,UK)	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Changeover of regions currently supplied by low-calorific gas to high-calorific gas due to declining availability of low-calorific gas
Benefit Description	Availability of low-calorific gas is declining in Germany. The regions currently supplied by low-calorific gas will need to switch supply from low-calorific gas to high-calorific gas. The project is needed to transport high-calorific gas to the regions currently supplied by low-calorific gas.

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No, we do not plan to apply</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Zevenaar (NL)/ Elten (DE) Capacity of Hydrogen according to the NDP

ETR-N-911	Project	Energy Transition Related Project	Non-FID
Update Date	22/06/2020		Advanced

Description According to the german NDP 2020-2030 this Increment project for Hydrogen shows the capacity at the IP Zevenaar (NL)-Elten (DE).

PRJ Code - PRJ Name -

Sponsors		General Information	
Open Grid Europe GmbH	50%	Promoter	Thyssengas GmbH and Open Grid Europe GmbH
Thyssengas GmbH	50%	Operator	Thyssengas GmbH
		Host Country	Germany
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2029	2029
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
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<i>commissioning H2-IP</i>	<i>planned entry-capacity is about 40 GWh/d</i>		
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Biomethane reverse flow Denmark

ETR-A-64	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>The objective of this reverse flow project from DSO grid to TSO grid, is to ensure the integration of excess biomethane in the distribution grid into the transmission grid. The project is a virtual aggregation of three physical projects establishing reverse flows from DSO grid to TSO grid.</p> <p>In Total 746 MWh/h biomethane production capacity is connected to the DSO grid at low pres-sure level (4 bar). When supply exceeds demand, the DSO uses intermediate pressure compres-sors to lift the gas to a higher-pressure distribution grid (from 4 bar to 20/40 bar). When supply of biomethane in the high-pressure distribution grid exceeds demand, high-pressure compres-sors lift the gas to the TSO grid 20/40 bar to 80 bar).</p> <p>step 1: Biomethane -> low pressure distribution grid at 4 bar, supplying local demand step 2: When local demand in the 4 bar distribution grid is saturated. DSO recompress gas from from 4 to 20 or 40 bar. step 3: When local demand in the 20-40 bar distribution grid is satura</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
ETR virtual aggregation (DK)	Energinet	2021	DScDK	DK	1.00 GWh/d
Comment: As the reverse flow varies significantly over the year. The increment is the expected average entry to the TSO grid. The peak increment is the installed capacity					

Sponsors	General Information
	Promoter <i>Energinet</i>
	Operator <i>Energinet</i>
	Host Country <i>Denmark</i>
	Status <i>Planned</i>
	Website

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	08/2018	09/2019
FEED	02/2019	09/2019
Permitting	06/2019	04/2021
Supply Contracts		01/2020
FID		09/2019
Construction	04/2021	04/2021
Commissioning	2021	2021
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Reverse flow Denmark	Reverseflow units: 3 Total biomethane production ab plants: 746 MWh/h Biomethane reverse flow (DSO-TSO) Compressor capacity: 294 MWh/h Metering (quality and quantity) and de-odorisation of gas		2021

Green Gas Lolland-Falster

ETR-N-922	Project	Energy Transition Related Project	Non-FID
Update Date	13/07/2020		Advanced
Description	<p>The purpose of the project is to establish a transmission and distribution grid to industrial consumers at two islands in Denmark, Lolland and Falster. Two of the biggest energy consumers in Denmark are located on these islands.</p> <p>The project is a two-faced project. On one hand it will enable gas to industries where there is no gas infrastructure and where electrification is not possible, on the other hand the project will enable integration of biogas production. Initially the biogas production will be 50% of the consumption with the potential to rise to 100% within some years. Going to 100% will require methanation of excess CO2 from biogas production with hydrogen from excess power production.</p> <p>The project consists of about 115 km 40 bar pipeline, including connecting meter and regulator stations, line valve stations and pig stations. For injection of biogas there will be installed compressor and metering stations.</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information
	Promoter <i>Energinet</i>
	Operator <i>Energinet</i>
	Host Country <i>Denmark</i>
	Status <i>Planned</i>
	Website <i>Project's URL</i>

Schedule	Start Date	End Date
Pre-Feasibility		09/2019
Feasibility	09/2019	10/2020
FEED	01/2020	01/2021
Permitting	01/2020	01/2022
Supply Contracts		01/2021
FID		09/2020
Construction	06/2022	09/2023
Commissioning	2023	2023
Grant Obtention Date		

Green Hydrogen Hub Denmark

ETR-N-828	Project	Energy Transition Related Project	Non-FID
Update Date	14/08/2020		Advanced
Description	<p>Production of hydrogen via electrolysis & storage of hydrogen in salt caverns. GHH DK is located in Northern Jutland, Denmark, where large caverns suitable for storage of hydrogen are created in salt deposits by Nouryon during its salt producing activities. Located close to existing energy infrastructure: high-voltage electricity transmission grid, gas transmission network, underground gas storage and wind resources in the Northern Seas Region. Electrolysis capacity - Year 2025 - 300 MW - Year 2030 - 1,000 MW - Hydrogen storage capacity - Year 2025 - 200 GWh - Year 2030 - 400 GWh</p> <p>The project benefits exceed project costs. Large-scale electrolysis optimises the value of RES-E and co-location with large-scale hydrogen storage maximises the benefits of these technologies and ensures robustness of the hydrogen supply chain. Sector coupling potential exists as Expressions of Interest for green hydrogen have already been received from entities engaged in transport, construction & industry.</p>		
PRJ Code - PRJ Name	-		

Sponsors		General Information	
Corre Energy Limited	100%	Promoter	Corre Energy Limited
		Operator	Corre Energy Storage Ltd
		Host Country	Denmark
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		11/2020
Feasibility	12/2020	01/2021
FEED	02/2021	09/2021
Permitting	05/2021	05/2023
Supply Contracts		05/2023
FID		06/2023
Construction	09/2023	08/2025
Commissioning	2025	2025
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Planning	Power-to-hydrogen electrolysis system with a capacity of up to 1,000 MW - Salt cavern storage of up to 130 million Nm3 (400 GWh) of hydrogen producing 2.712 GWh/day of Green Hydrogen - GHH CAES, a hydrogen-fuelled CAES facility with generation capacity of 320 M which has been accepted by ENTSO-E as eligible for inclusion in its TYNDP 2020 (TYNDP Project No. 1044).		2025

Norwegian tie-in to Danish upstream system

TRA-A-394	Project	Pipeline including CS	Non-FID
Update Date	26/09/2019		Advanced
Description	A new offshore pipeline between the Norwegian gas system (Europipe II) in the North Sea and the Danish onshore transmission system ensures - in combination with the Baltic Pipe - that Norwegian gas (approx. 10 bcm/year) can be transported directly through Denmark to Sweden, Poland and the wider Central and Eastern European region. This will provide a number of countries with improved access to additional supply sources. The gas could also flow through the Danish German interconnection point Ellund-Egtved to the wider European gas market. The project consists of construction of a new offshore pipeline between the Norwegian gas system in the North Sea (the offshore pipeline landfall on the west coast of Denmark is planned on the beach near Blåbjerg), construction of a new pipeline from the beach near Blaabjerg to Nybro and construction of a receiving plant at Nybro. - Former project name: "Gassled -Norwegian upstream system to Denmark"		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Europipe (NO) / Baltic Pipe (DK)	Energinet	2022	NO	IB-NPcDKn	306.80 GWh/d
Comment: Connection to the Norwegian offshore					
Nybro	Energinet	2022	IB-NPcDKn	DK	306.80 GWh/d
Comment: Delete peak increment					

Sponsors	General Information		NDP and PCI Information	
	Promoter	Energinet.dk	Part of NDP	No ((2) no NDP exists in the country)
	Operator	Energinet	NDP Number	
	Host Country	Denmark	NDP Release Date	
	Status	Planned	NDP Website	
	Website	Project's URL	Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	09/2015	12/2016
FEED	05/2018	02/2022
Permitting	01/2018	07/2019
Supply Contracts		10/2017
FID		12/2018
Construction	01/2020	10/2022
Commissioning	2022	2022
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Negotiated
Considered Tariff Regime	Not Applicable
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Norwegian tie-in to Danish upstream system		800	105	0	2022
Total			105	0	

Expected Gas Sourcing

Norway

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date	<i>27/10/2017</i>	Grants for studies	<i>No</i>
Decision Date	<i>27/02/2018</i>	Grants for studies amount	<i>Mln EUR 0.0</i>
Website	<i>CBCA URL</i>	Grants for works	<i>No</i>
Countries Affected	<i>Denmark, Poland, Sweden</i>	Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
	<i>The Danish NRA (DERA) approved the CBCA on the 27 February 2018. The Polish NRA (URE) approved the CBCA on the 12 March 2018.</i>	Other Financial Assistance	<i>No</i>
	<i>The Danish decision can be found here:</i>	Comments	
Additional Comments	<i>http://energitilsynet.dk/gas/afgoerelser/tilsynsafgoerelser/2018/godkendelse-af-omkostningsfordelingen-mellem-polen-og-danmark-for-baltic-pipe-projektet/</i>	General Comments	
	<i>The Polish decision can be found here:</i>		
	<i>https://bip.ure.gov.pl/bip/taryfy-i-inne-decyzje/inne-decyzje-informacj/3634,Inne-decyzje-informacje-sprawozdania-opublikowane-w-2018-r.html?search=3253</i>		

Enhancement of Estonia-Latvia interconnection

TRA-F-915	Project	Pipeline including CS	FID
Update Date	22/11/2019		Advanced
Description	The project composes of implementation of reverse flow in Karksi metering station in Estonia and of a compressor station in Puiatu, Estonia. The reverse flow gas measuring station would be erected to the location of the existing measuring station in Karksi. Karksi reverse flow enables the measuring of gas quantities through Estonia with the main advantages of reverse flow used after the commissioning of the Balticconnector offshore pipeline. Karksi reverse flow enables the full use of Inculkalns UGS for all the market participants. Puiatu compressor station enables the transportation of gas through Estonia and the Balticconnector offshore pipeline to the Finnish gas market. The current system design does not enable the full use of the planned offshore pipeline without a compressor station in south of Estonia. Puiatu compressor station is an integral part of the physical implementations needed for market integration between the Baltics and Finland.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Karksi	Elering AS	2019	EE	LV	105.00 GWh/d
	Elering AS	2019	LV	EE	42.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Karksi metering station		Promoter	Elering AS	Part of NDP	Yes (EESTI GAASIÜLEKANDEVÕRGU ARENGUKAVA 2019-2028)
Elering AS	100%	Operator	Elering AS	NDP Number	paragraph 3.2
Puiatu Compressor Station		Host Country	Estonia	NDP Release Date	03/03/2019
Elering AS	100%	Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2015	Considered TPA Regime	Regulated
Feasibility	01/2015	01/2016	Considered Tariff Regime	Regulated
FEED	05/2015	05/2016	Applied for Exemption	No
Permitting	09/2015	06/2019	Exemption Granted	Not Relevant
Supply Contracts		02/2018		
FID		10/2016		
Construction	06/2018	12/2019	Exemption in entry direction	0.00%
Commissioning	2019	2019	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Karksi GMS, Puiatu CS				10	2019
Total				10	

Expected Gas Sourcing

Russia, LNG (WO)

Benefits

Main Driver	Regulation-Interoperability
Main Driver Explanation	Main project driver is the operational link with the Balticconnector project.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>07/04/2016</i>	Grants for studies	<i>No</i>
Decision Date	<i>22/04/2016</i>	Grants for studies amount	<i>Mln EUR 0.0</i>
Website	<i><u>CBCA URL</u></i>	Grants for works	<i>Yes</i>
Countries Affected	<i>Finland, Latvia</i>	Grants for works amount	<i>Mln EUR 18.6</i>
Countries Net Cost Bearer	<i>Estonia</i>	Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Paldiski LNG Terminal

LNG-A-79	Project	LNG Terminal	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	LNG import and regasification terminal for regional use on the Pakri peninsula on the Easern coast of the Baltic Sea		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Paldiski LNG	Balti Gaas plc	2025	LNG_Tk_EE	EE	140.00 GWh/d
Comment: The regasification capacity will be dependent on market demand and BalticConnector usage.					

Sponsors		General Information		NDP and PCI Information	
Balti Gaas LLC	100%	Promoter	Balti Gaas plc	Part of NDP	Yes (Estonian transmission system development plan for 2018-2027)
		Operator	Balti Gaas plc	NDP Number	-
		Host Country	Estonia	NDP Release Date	03/03/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	BEMIP

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		11/2008	Considered TPA Regime	Regulated
Feasibility	01/2012	01/2016	Considered Tariff Regime	Regulated
FEED	04/2013	04/2014	Applied for Exemption	No
Permitting	01/2008	06/2017	Exemption Granted	No
Supply Contracts		01/2024		
FID		01/2022	Exemption in entry direction	0.00%
Construction	11/2022	12/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Paldiski LNG terminal	Yes	Paldiski LNG Terminal	2.0	160,000	135.00	160,000	Estimates	2025	25

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	The project is technically ready for construction, but no FID can be taken before the competing projects and governmental aid issues are solved (political decision regarding regional LNG terminal and potential financial aid to it).

Expected Gas Sourcing

LNG (LNG)

Comments about the Third-Party Access Regime

The regulatory scheme applicable to this project is unclear. Since the project intends to reinstate the PCI lable, and thus would have significant cross-border impact, the regulatory scheme must be acceptable to all concerned regulators. Additionally, the regulation for LNG terminals in the project country (Estonia) does not yet exist.

Benefits

Main Driver	Others
Main Driver Explanation	The region as a whole is an energy island with Russia as the only counterpart and supply source for gas. An LNG import and re-gasification terminal would provide alternative sources as well as storage capability. Currently, there is a temporary solution in Klaipeda, but a permanent and more efficient solution is needed, especially after BalticConnector, to supply the whole region.
Benefit Description	Additionally the terminal is capable of servicing the potential Baltic bunkering demand as well as provide alternative fuel to road and rail transport in the affected countries. It can also be the Baltic region Hub for smaller LNG terminals (Pori, Hamina, Tornio).

Barriers

Barrier Type	Description
Regulatory	Regulatory framework for LNG facilities in Estonia is insufficient to clarify this point.
Permit Granting	Long process
Political	The assesment methods of competing PCI projects is not well established.
Regulatory	Lack of proper transposition of EU regulation

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of Understanding	MoU between Estonia and Finland and LNG project promoters	Yes	28/02/2014
Agreement between PMs of Estonia and Finland	Agreement in regards to the gas infrastructure in the countries.	Yes	17/11/2014

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>10/08/2016</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>28/10/2016</i>	Grants for studies amount	<i>Mln EUR 137.0</i>
Website	<i>CBCA URL</i>	Grants for works	<i>Yes</i>
Countries Affected	<i>Estonia, Finland</i>	Grants for works amount	<i>Mln EUR 137.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments	<i>No net cost bearers were identified</i>	Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	<i>The CEF funding application was declined due to unclear situation with the temporary solution in Klaipeda and lack of clarity regarding the permanent solution.</i>

Tallinn LNG

LNG-A-962	Project	LNG Terminal	Non-FID
Update Date	15/08/2019		Advanced
Description	Conventional LNG import terminal (bunkering, break-bulk, on-grid and off-grid land transportation) for improving Baltic as well as Finnish security of supply and serving commercial customers. The project includes 5x800 m3 pressurized bullets, connection to the existing berth (LOA 198 m; depth - 11 m), 2x100m3/h truck loading rack and connection to the low pressure natural gas distribution network located about 1 km from terminal site, covering about 60% of Estonian gas demand. And one to two flat bottom storage tanks with the total LNG storage capacity of 50 000 m3 to 320 000 m3, with second connection to the berth (LOA 365m depth -17m) capable of handling any size LNG carrier on the market, connection to DN711 (MOP 54 bar) national high pressure grid located about 13 km from the terminal site. Rail shunting tracks are 200m. Current scope is envisaged to 160 000 m3 with 4 bcma connection to the national high pressure grid. (grid connection on separate CAPEX).		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Tallinn LNG	Liwathon E.O.S.	2022	LNG_Tk_EE	EE	121.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Liwathon E.O.S.	75%	Promoter	Liwathon E.O.S. AS / Port of Tallinn AS	Part of NDP	Yes (Eesti Gaasi Ülekandevõrgu arengukava 2018-2027.)
Port of Tallinn	25%	Operator	Liwathon E.O.S.	NDP Number	Paragraph 3 point 7
		Host Country	Estonia	NDP Release Date	03/03/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	BEMIP

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		09/2012	Considered TPA Regime	Regulated
Feasibility	02/2012	09/2012	Considered Tariff Regime	Regulated
FEED	01/2016	01/2020	Applied for Exemption	No
Permitting	01/2012	03/2017	Exemption Granted	Not Yet
Supply Contracts		08/2021		
FID		02/2020	Exemption in entry direction	0.00%
Construction	04/2020	12/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date	06/02/2020	06/02/2020		

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Tallinn LNG	Yes	Tallinn LNG	4.0	160,000	11.00	160,000	No comments	2022	50

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP	
Delay Since Last TYNDP	One to two years
Delay Explanation	The project is delayed because of the uncertainty and delay in other former LNG Terminal projects in the region, as this affects the project scope, feasibility, FEED and FID.

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	- Market integration and diversification, SoS, market development, clean energy. - contributing to the fulfilment of Directive 2014/94/EC of the European Union - Synergies between energy supply and a alternative fuel in transport
Benefit Description	Reduces isolation and bottlenecks, interoperability, appropriate connections, diversification of sources, diversification of routes, sustainability.

Barriers

Barrier Type	Description
Permit Granting	All permits for the construction phase have been granted
Political	None!
Others	The market interference which has been created by FSRU 'Independence' LNG vessel moored in Klaipeda harbor, Lithuania. With almost entire cost of the vessel being socialized over the Lithuanian gas consumer with any additional service provided by the vessel being largely underpriced; the vessel is negatively affecting other Baltic terminal developments. As other projects do not enjoy such heavy state funding and will therefore have to develop market-based commercially sound solutions in the region. A concrete example is FSRU 'Independence' re-gasification price, which is priced about 10-20 times lower than any other large LNG facility. We expect the European Competition authority to review the waiver provided in this respect, as the cost-base of this particular vessel largely exceeds 'normal' cost level of an onshore facility. Over 10y period, total lease cost of the vessel is in excess of Eur 600 million, that is equal to about two similar land-based terminals construction cost.
Regulatory	Low rate of return
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for studies and works</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	<i>We prepared a CBA for the project related to the CEF requirements in 2018.</i>

Circular economy: waste to biomethane

ETR-N-921	Project	Energy Transition Related Project	Non-FID
Update Date	14/06/2020		Advanced
Description	Reganosa promotes for TYNDP2020 an energy transition project for biomethane injection into the Reganosa gas grid. The objective is to develop an environmental neutral project in order to integrate the farming, agricultural, industrial and domestic residues coupling circular economy with the gas sector. The project will consider different residues generated in the region for their conversion in biomethane energy and, in addition, this initiative will contribute the compliance of the existing EU targets on the recycling and landfill activities.		
PRJ Code - PRJ Name	-		

Sponsors	General Information
Reganosa100%	PromoterReganosa
	OperatorReganosa
	Host CountrySpain
	StatusPlanned
	WebsiteProject's URL

Schedule	Start Date	End Date
Pre-Feasibility		10/2020
Feasibility	10/2020	06/2021
FEED	06/2021	11/2021
Permitting	11/2021	12/2021
Supply Contracts		01/2021
FID		01/2022
Construction	02/2022	10/2022
Commissioning	2022	2022
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Circular economy: waste to biomethane	<i>The Project will be design for treating 1.7 MTPA of dry slurry, 4000 t/year of treated waste water, 44000 t/year of organic industrial waste and 364000 t/year of solid urban waste; to produce around 100000 t/year of fertilisers, 118 Mm3/year of biomethane, 55 Mm3/year of CO2 and 21000 t/year of recycled materials.</i>	<i>The technical parameters will be analysed during the feasibility study. These values may suffer any modification according to the outcomes of the mentioned study.</i>	2022

CORE LNGas hive and LNGHIVE2 Infrastructure and logistic solutions

ETR-F-541	Project	Energy Transition Related Project	FID
Update Date	18/11/2019		Advanced
Description	CORE LNGas hive project is part of institutional strategy to deploy LNG supply fuelling in ports in the Iberian Peninsula and develop the associated market, is a step in the career of reduced emissions. Enagás is performing the following activities: Coordination; adaptation of jetties in existing plants in the Iberian Peninsula, these adaptations are made to be able to supply LNG small scales services and supply LNG as marine fuel to ships. These modifications are part of the project CORE LNGas hive and LNGHIVE2 Infrastructure and logistic solutions (hivelogs), which aims to make the necessary adaptations to cover the early stages of pit aims at retrofitting an existing penetration of LNG as propulsion and auxiliary fuel for vessels. Also they englobes different works to improve the air quality and reduce contamination, especially in port domain, as using LNG as fuel in port equipment (crane, tugboat, vessel's energy supply in port) and the modification of existing barge to supply LNG		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	Enagas Transporte S.A.U.
	Operator	Enagas Transporte S.A.U.
	Host Country	Spain
	Status	In Progress
	Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	01/2014	03/2014
FEED	01/2015	10/2018
Permitting	06/2017	12/2018
Supply Contracts		04/2020
FID		01/2014
Construction	10/2017	03/2020
Commissioning	2020	2020
Grant Obtention Date		

Gran Canaria LNG Terminal

LNG-F-163	Project	LNG Terminal	FID
Update Date	10/12/2019		Advanced
Description	A new regasification terminal in Gran Canaria (Arinaga). The start-up of the Gran Canaria LNG terminal is assumed to take place within the TYNDP period. For practical purposes, the last year of the ten-year period is reported as the start-up date. This does not, however, constitute an estimate of the start-up date. Based on demand estimates, the terminal would already be justified by 2022.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Gran Canaria LNG	Enagas Transporte S.A.U.	2029	LNG_Tk_ESc	ESc	41.90 GWh/d
	Gascan	2029	LNG_Tk_ESc	ESc	41.90 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gascan	100%	Promoter	Gascan	Part of NDP	Yes (Planta de regasificación de Gran Canaria)
		Operator	Enagas Transporte S.A.U.	NDP Number	No code in the NDP
		Host Country	Spain	NDP Release Date	01/05/2008
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2008	Considered TPA Regime	Regulated
Feasibility	01/2008	01/2008	Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts				
FID		05/2008	Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2029	2029		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Gran Canaria	Yes	Gran Canaria	1.3	140,000	3,600,000.00	150,000	the commissioning year does not constitute an estimate of the start-up date	2029	100

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	The start-up of the Gran Canaria LNG terminal is assumed to take place within the TYNDP period. For practical purposes, the last year of the ten-year period is reported as the start-up date. This does not, however, constitute an estimate of the start-up date. Based on demand estimates, the terminal would already be justified by 2022.

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Green Crane - Spain

ETR-N-537	Project	Energy Transition Related Project	Non-FID
Update Date	22/09/2020		Advanced
Description	Green Crane is a joint initiative by Enagás and SNAM to deploy renewable hydrogen value chains at scale. It aims to develop local hydrogen demand as well as export routes to NW and Central Europe. In Spain, it comprises the regional hubs of Baleares, Aragon, Asturias and Castilla y León. The latter foresees exporting green hydrogen to The Netherlands by using LOHC's. The hydrogen will be produced from new dedicated solar PV and wind farms and will be used directly in industry and mobility projects. All hubs foresee a certain amount of hydrogen to be blended in the natural gas grid (up to 2 or 5%).		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Hydrogen (ES)	Enagas Transporte S.A.U.	2024	NPcES	ES	0.62 GWh/d

Sponsors	General Information	
	Promoter	EnaGás Renewable S.L.U
	Operator	EnaGás Renewable S.L.U
	Host Country	Spain
	Status	Planned
	Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		06/2019
Feasibility	06/2020	04/2021
FEED	04/2021	10/2022
Permitting	10/2021	04/2022
Supply Contracts		
FID		04/2022
Construction	04/2022	04/2024
Commissioning	2024	2024
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Green Crane	The project foresees up to 5 injection points. The aggregated RES capacity is 900 MW.		2024

Guitiriz - Lugo - Zamora pipeline

TRA-A-950	Project	Pipeline including CS	Non-FID
Update Date	17/12/2019		Advanced
Description	<p>Construction of the Interconnector between Guitiriz, Lugo and Zamora, with a length of 318 km and 30" diameter.</p> <p>The Guitiriz-Lugo-Zamora pipeline will guarantee the security of supply in the Northwest area and eliminate the current congestions that the Spanish gas system presents, maximizing the contribution of all its inputs (i.e. send-out extension of Mugardos LNG terminal) and improving the North-South balance.</p> <p>Additionally, this pipeline is necessary to ensure the integration of the Musel LNG terminal, the extension Mugardos LNG terminal and VIP Iberico capacities.</p> <p>In this sense, it will avoid the restrictions that will be imposed by the asturian plant at the entrance from the Mugardos LNG Terminal. Likewise, it is essential to ensure the bidirectionality of the third interconnection with Portugal. This pipeline is divided in two sections, because of the priority to carry out the first section of the pipeline to guarantee the security of supply in the province of Lugo.</p>		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
Reganosa	100%	Promoter	Reganosa	Part of NDP	Yes (PLANIFICACION ELECTRICIDAD Y GAS 2008-2016)
		Operator	Reganosa	NDP Number	N/A.
		Host Country	Spain	NDP Release Date	01/05/2008
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2017	Considered TPA Regime	Regulated
Feasibility	07/2017	12/2017	Considered Tariff Regime	Regulated
FEED	12/2017	01/2019	Applied for Exemption	No
Permitting	10/2020	10/2021	Exemption Granted	No
Supply Contracts				
FID		10/2021	Exemption in entry direction	0.00%
Construction	10/2021	01/2024	Exemption in exit direction	0.00%
Commissioning	2024	2024		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
Guitiriz-Lugo	The starting point will be the position of Guitiriz (I-013), owned by Reganosa, and the end point will be a new position in Lugo.	750	50	0	2022	
Lugo-Zamora	The starting point will be the new posotion in Lugo and , owned by Reganosa, and the end point the compression station of Coreses (Zamora) owned by Enagás, S.A.	750	268	0	2024	
Total			318	0		

Expected Gas Sourcing	
Algeria, LNG (WO)	

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	The northwest of the Iberian Peninsula is suffering congestion, the situation will get worse following the start up of new entries in the area. The pipeline Guitiriz-Lugo-Zamora will remove the existing congestion and enhance the capacities of the future entries. At the same time, this pipeline will improve the security of supply in the Northwest. Therefore, Guitiriz-Lugo-Zamora pipeline will guarantee the security of supply in the Northwest area and eliminate the current congestions that the Spanish gas system presents, turning Spain into a real single balance area, maximizing the contribution of all its inputs and improving the North-South balance. Also, it is essential to ensure the integration of the Musel LNG terminal, the extension of the Mugardos LNG terminal and the bidirectionality of the third interconnection with Portugal.
Benefit Description	This project is an “enabler” for the security of supply of the Northwest area in Spain. SoS= The project will guarantee the security of supply in the Northwest area and eliminate the current congestions that the Spanish gas system presents, turning Spain into a real single balance area. Sustainability= The project will allow a secure supply to the CCGT located in the Northwest of Iberian Peninsula. Market Integration and Competition= The project is essential to ensure the integration of the Musel LNG terminal, the extension of the Mugardos LNG terminal and VIP Iberico capacities.

Barriers	
Barrier Type	Description
Regulatory	Lack of proper transposition of EU regulation

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

L2DG (LNG to Decarbonised Gas)

ETR-N-483	Project	Energy Transition Related Project	Non-FID
Update Date	17/12/2019		Advanced
Description	Reganosa promotes for TYNDP2020 an energy transition project based on a methane autothermal reforming plant for H2 production with NG grid injection which has the objective of achieving the decarbonisation of the LNG entries from the regasification terminals, reaching at the same time the efficiency targets.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
Reganosa	100%	Promoter
		Operator
		Host Country
		Status
		Website

Schedule	Start Date	End Date
Pre-Feasibility		07/2020
Feasibility	08/2019	07/2020
FEED	08/2020	06/2021
Permitting	06/2021	06/2023
Supply Contracts		
FID		06/2023
Construction	06/2023	12/2024
Commissioning	2024	2024
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
L2DG (LNG to Decarbonised gas)	<p>The methane autothermal reforming plant will produce H2 in rate around 4 t/h. This capacity represents the 5% of the technical send-out capacity of Mugardos LNG terminal.</p> <p>The entry of the authothermal reforming plant will be the natural gas regasificated in the terminal and the H2 obtained will be injected in the natural gas grid owned by Reganosa.</p> <p>This new plant will be located in the existing installation of Mugardos LNG terminal.</p>	<p>The technical parameters will be analysed during the feasibility study. These values may suffer any modification according to the outcomes of the mentioned study.</p>	2024

Mugardos LNG Terminal: 2nd Jetty

LNG-A-296	Project	LNG Terminal	Non-FID
Update Date	17/12/2019		Advanced
Description	Construction of a second jetty for berthing of LNG ship with capacity from approximately 1,000m3 LNG up to 266,000m3 LNG.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	NDP and PCI Information
Reganosa100%	PromoterReganosa	Part of NDPNo ((6) others - please comment below)
	OperatorReganosa	NDP Number
	Host CountrySpain	NDP Release Date
	StatusPlanned	NDP Website
	WebsiteProject's URL	Currently PCINo
		Priority Corridor(s)NSIW

Schedule	Start Date	End Date	Third-Party Access Regime
Pre-Feasibility		12/2015	Considered TPA RegimeRegulated
Feasibility	02/2015	12/2015	Considered Tariff RegimeRegulated
FEED	04/2016	06/2017	Applied for ExemptionNo
Permitting	04/2021	03/2022	Exemption GrantedNot Relevant
Supply Contracts			
FID		03/2022	Exemption in entry direction0.00%
Construction	06/2022	07/2024	Exemption in exit direction0.00%
Commissioning	2024	2024	
Grant Obtention Date			

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Mugardos LNG Terminal	Yes	2nd jetty	0.0	266,000	0.00	0	<i>This new jetty of the Terminal will be able to operate with a range of vessels from 1,000 m3 to 266,000m3</i>	2024	100

Fulfilled Criteria	
Specific Criteria Fulfilled	Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing	
LNG (WO)	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	The second jetty of the Terminal will enable the Port of Ferrol to maximize flexibility and to complete the infrastructures offered that could respond to the new operational requirements derived from the implementation of LNG as fuel in maritime transport for both ships navigating the Atlantic corridor and satellite Terminals in nearby ports and coasts. Apart from that, it will guarantee the availability of the Terminal to carry out the necessary operations of loading and unloading vessels. Also, Mugardos terminal is ideally located to take advantage of the US FOB volumes.

Barriers	
Barrier Type	Description
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Mugardos LNG Terminal: Send-out Increase

LNG-A-295	Project	LNG Terminal	Non-FID
Update Date	17/12/2019		Non-Advanced
Description	The project aims to expand the LNG terminal capacity from 9,9 mcm/d to 19,8 mcm/d through the construction of new Open Rack Vaporizers. The expansion of the send-out capacity will enable to balance the North-South capacities of the Spanish gas system inputs and to reduce the costs in gas transport, promoting the approach of emission points to consumption points and generating efficiencies through of the lower use of compression stations. Likewise, it will reinforce the security of supply by building the infrastructures that allow the Northwest area to be in a situation of integration comparable with the rest of Spain.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Mugardos	Reganosa	2024	LNG_Tk_ESa	ES	115.00 GWh/d
	Reganosa (LSO)	2024	LNG_Tk_ESa	ES	115.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Reganosa	100%	Promoter	Reganosa	Part of NDP	Yes (PLANIFICACION ELECTRICIDAD Y GAS 2008-2016)
		Operator	Reganosa		
		Host Country	Spain	NDP Number	No Number- Name: Ampliación Planta de Reganosa. Ampliación de Emisión a 825,600 Nm3/h
		Status	Planned	NDP Release Date	01/05/2008
		Website	Project's URL	NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		02/2018	Considered TPA Regime	Regulated
Feasibility	04/2017	02/2018	Considered Tariff Regime	Regulated
FEED	11/2018	02/2020	Applied for Exemption	No
Permitting	06/2020	05/2021	Exemption Granted	Not Relevant
Supply Contracts				
FID		05/2021	Exemption in entry direction	0.00%
Construction	09/2021	03/2024	Exemption in exit direction	0.00%
Commissioning	2024	2024		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Mugardos LNG Terminal	Yes	Send-out	3.6	0	9.90	0	This expansion will mean an increase in send-out capacity until to 825,600 Nm3/h, meaning, twice the current capacity.	2024	100

Expected Gas Sourcing

LNG (WO)

Benefits	
Main Driver	Market Demand
Main Driver Explanation	The expansion of the send-out capacity will enable to balance the North-South capacities of the Spanish gas system inputs and to reduce the costs in gas transport, promoting the approach of emission points to consumption points and generating efficiencies through of the lower use of compression stations. Likewise, it will reinforce the security of supply by building the infrastructures that allow the Northwest area to be in a situation of integration comparable with the rest of Spain.
Benefit Description	SoS= The project it will reinforce the security of supply allowing the Northwest area to be in a situation of integration comparable with the rest of Spain. Sustainability= The project will enable to balance the North-South capacities of the Spanish gas system inputs and to reduce the costs in gas transport and generating efficiencies through of the lower use of compression stations.

Barriers	
Barrier Type	Description
Regulatory	Capacity quotas
Market	Lack of market maturity

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Mugardos LNG Terminal: Storage Extension

LNG-N-297	Project	LNG Terminal	Non-FID
Update Date	17/12/2019		Advanced
Description	Construction of an additional storage tank with capacity of one hundred ninety thousand cubic meters of LNG.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	NDP and PCI Information
Reganosa100%	PromoterReganosa	Part of NDPNo ((6) others - please comment below)
	OperatorReganosa	NDP Number
	Host CountrySpain	NDP Release Date
	StatusPlanned	NDP Website
	WebsiteProject's URL	Currently PCI
		Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime
Pre-Feasibility		12/2015	Considered TPA Regime
Feasibility	02/2015	12/2015	Considered Tariff Regime
FEED	08/2016	11/2017	Applied for Exemption
Permitting	02/2023	02/2024	Exemption Granted
Supply Contracts			
FID		02/2024	Exemption in entry direction
Construction	05/2024	01/2028	Exemption in exit direction
Commissioning	2026	2026	
Grant Obtention Date			

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Mugardos LNG Terminal	Yes	Storage	0.0	0	0.00	190,000	This new Terminal tank will have a storage capacity of 190,000 m3, increasing the total capacity of the terminal to 490,000 m3.	2026	100

Expected Gas Sourcing

LNG (WO)

Benefits

Main Driver	Market Demand
Main Driver Explanation	The third tank of the Terminal will enable the inclusion of the northwest of the peninsula in the market of large gas carriers, such as the Q-flex (216,000 m3) and Q-max (266,000 m3). Likewise, it will convert the Terminal in a real LNG hub. Additionally, synergetic effects could be created between the naval and fishing sector in Galicia (repairs in shipyards, construction of new ships, etc.) and it will allow the participation of Galicia in the new LNG markets, e.g., the use of LNG as maritime fuel.
Benefit Description	Mugardos terminal is ideally located to take advantage of the US FOB volumes.

Barriers

Barrier Type	Description
Regulatory	Capacity quotas
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Musel LNG terminal

LNG-F-178	Project	LNG Terminal	FID
Update Date	18/11/2019		Advanced
Description	A LNG terminal in Musel (North of Spain). The Construction of the "El Musel" LNG terminal was completed in 2012, but it has not been commissioned yet. The terminal is pending start-up authorization by the government according to Royal Decree-Law 13/2012. Enagás Transporte expects to get the start-up authorization by 2021.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Musel	Enagas Transporte S.A.U.	2021	LNG_Tk_ESa	ES	0.00 GWh/d
	Comment: The construction of the "El Musel" LNG terminal was completed in 2012, but it has not been commissioned yet. The terminal is pending start-up authorization by the government according to Royal Decree-Law 13/2012. Enagás Transporte expects to get the start-up authorization by 2021.				
	This LNG terminal has four seawater vaporisers with a total send-out capacity of 800.000 m3(n)/h, which could be connected to the grid at any time during the TYNDP 2020 period (after the commissioning date)				

Sponsors	General Information		NDP and PCI Information	
	Promoter	Enagas Transporte S.A.U.	Part of NDP	Yes (planta de regasificación de El Musel)
	Operator	Enagas Transporte S.A.U.	NDP Number	No code in the NDP
	Host Country	Spain	NDP Release Date	01/05/2008
	Status	Planned	NDP Website	NDP URL
	Website		Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2008	Considered TPA Regime	Regulated
Feasibility	01/2008	01/2008	Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts				
FID		05/2008	Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2021	2021		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Musel	Yes	El Musel	0.0	266,000	0.00	300,000	See additional comments	2021	100

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	Construction has been completed and Enagás Transporte expects to get the start-up authorization by 2021

Expected Gas Sourcing
LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

P2G integrated in Reganosa NG Transmission Grid

ETR-N-427	Project	Energy Transition Related Project	Non-FID
Update Date	17/12/2019		Advanced
Description	Reganosa promotes for TYNDP2020 an energy transition project base on the integration of P2G technologies in Reganosa NG Transmission Grid which has the objective of facilitating the integration of renewables with the NG grid, the achievement of decarbonisation and efficiency targets, the reduction of other air pollutants and improving the sector coupling.		
PRJ Code - PRJ Name	-		

Sponsors	General Information
Reganosa100%	PromoterReganosa
	OperatorReganosa
	Host CountrySpain
	StatusPlanned
	WebsiteProject's URL

Schedule	Start Date	End Date
Pre-Feasibility		06/2020
Feasibility	10/2019	06/2020
FEED	08/2020	06/2021
Permitting	06/2021	06/2023
Supply Contracts		
FID		06/2023
Construction	06/2023	12/2024
Commissioning	2024	2024
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
P2G integrated in Reganosa NG Transmission Grid	<i>Renewable energy generation (Photo Voltaic &/or Wind Power) of 100 MW to be installed, producing H2 in a rate around 2 t/h.</i>		
	<i>The project will be located in an area where a coal power station was installed. Therefore, both, a NG pipeline and a High Voltage infrastructure is already in place to be immediately used, being a perfect point of injection for the H2 produced and also an optimal point to be powered supply, if this be the case. Existent high pressure (#600) pipeline is 16 inch.</i>	<i>The technical parameters will be analysed during the feasibility study. These values may suffer any modification according to the outcomes of the mentioned study.</i>	2024

Railway project roadmap. Transformation to LNG

ETR-F-632	Project	Energy Transition Related Project	FID
Update Date	18/11/2019		Advanced
Description	<p>Automotive Pilot of passengers consists of the development of the necessary studies to develop the engineering of the first commercial line of passengers with LNG in the vicinities of Asturias and the tests of the same one for its extrapolation to commercial lines, 4 units</p> <p>Project railLNG is developed by the consortium (RENFE, Enagás, Naturgy and Bureau Veritas) consists of the transformation of the S 1600 locomotive to generate the hybrid Diesel/GNL tractor composition. The resulting composition will establish a comparison of performance between the two in the same service conditions</p> <p>Project to transform locomotives from manoeuvres to LNG that currently use diesel fuel in port areas, 6 S310 units.</p> <p>LNGhive2: transformation of a heavy haul locomotive in the Huelva-Sevilla corridor. The integral project will include a gas station</p> <p>Project of R+D+i to promote disruptive technologies and alternatives to the traditional "motor-fuel" binomial that cover the shortcomings of the current platform</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	Enagas Transporte S.A.U.
	Operator	Enagas Transporte S.A.U.
	Host Country	Spain
	Status	In Progress
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		06/2016
Feasibility	06/2019	01/2020
FEED	01/2020	01/2020
Permitting	01/2020	01/2020
Supply Contracts		
FID		01/2016
Construction	09/2019	01/2022
Commissioning	2022	2022
Grant Obtention Date		

Sun2Hy

ETR-N-504	Project	Energy Transition Related Project	Non-FID
Update Date	23/06/2020		Advanced
Description	Photoelectrochemical hydrogen production and hydrogen injection into the gas grid. This project is considering the production of green hydrogen by PEC technologies. The CAPEX considers a minimum of 12 plants of 400 kg/day of photoelectrochemical electrolysis and its use in industrial and transport applications. The prefeasibility study, that is under definition, considers this CAPEX and 6 years (considering the scaling up, the production and the real case application/demostration project)		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Hydrogen (ES)	Enagas Transporte S.A.U.	2024	NPcES	ES	0.06 GWh/d

Sponsors	General Information	
	Promoter	EnaGás Renewable S.L.U
	Operator	EnaGás Renewable S.L.U
	Host Country	Spain
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		12/2018
Feasibility	01/2019	12/2020
FEED	01/2021	12/2021
Permitting	09/2021	01/2022
Supply Contracts		
FID		
Construction	01/2022	12/2024
Commissioning	2024	2024
Grant Obtention Date		

Tenerife LNG Terminal

LNG-F-183	Project	LNG Terminal	FID
Update Date	18/11/2019		Advanced
Description	This project consists in a new regasification Terminal in Tenerife (Arico-Granadilla, Spain), in the Canary Islands.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Tenerife LNG	Enagas Transporte S.A.U.	2022	LNG_Tk_ESc	ESc	41.90 GWh/d
	Gascan	2022	LNG_Tk_ESc	ESc	41.90 GWh/d

Sponsors	General Information		NDP and PCI Information	
Gascan	100%	Promoter	Gascan	Yes (Planta de regasificacion de Tenerife)
		Operator	Enagas Transporte S.A.U.	
		Host Country	Spain	No code in the NDP
		Status	Planned	01/05/2008
		Website		NDP URL
			Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2008	Considered TPA Regime	Regulated
Feasibility	01/2008	01/2008	Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts				
FID		05/2008	Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Tenerife LNG Terminal	Yes	Tenerife LNG	1.3	140,000	3,600,000.00	150,000	No additional comments	2022	100

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	The design of this LNG terminal is currently under review, and therefore the specifications of the final project could differ from the ones reported

Expected Gas Sourcing
LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

Adaptation L- gas - H-gas

TRA-A-429	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	<p>The L-gas area covers around 10% of French gas consumption. It depends on the Netherlands L-gas production as the single supply source on annual basis. Additional flexibility is ensured by Gournay UGS and peak H-to-L conversion facility at Loon-Plage.</p> <p>Due to the decline of L-gas production the conversion of the whole French L-gas area will have to be achieved by the end of 2029.</p> <p>The project covers both the required infrastructure to ensure access to H-gas supply and all required actions for the switch to H-gas. This project is coordinated with Belgian and Dutch operators.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Blaregnies L (BE) / Taisnières B (FR)	GRTgaz	2025	BEI	FRnL	-115.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
Storage	Promoter	GRTgaz and Storengy	Part of NDP	Yes (Plan décennal de développement du réseau de GRTgaz 2018-2027)
Storengy	Operator	GRTgaz	NDP Number	Plan de conversion du gaz B en gaz H
Transmission	Host Country	France	NDP Release Date	04/02/2019
GRTgaz	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	Yes (5.21 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		09/2016
Feasibility	06/2014	09/2016
FEED	09/2015	09/2020
Permitting	11/2016	12/2026
Supply Contracts		
FID		06/2016
Construction	04/2017	12/2026
Commissioning	2025	2025
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
Arleux interconnection station	Adaptation				0	
Bethune area	New pipeline	300	8		0	
Brouckerque area	New pipeline	200	2		0	
Connection to H-gas grid	Gravelines, Diéval, Isbergues, Orchies, Beaurevoir, Caulaincourt and Nesle				0	
Interconnection with Gournay UGS	Adaptation				0	
Taisnieres interconnection station	Adaptation				0	
Total			10			

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The project will ensure that gas consumers of the former L-gas area will benefit from the same competitive and secured supply as H-gas consumers. security of supply: without this project, the energy demand cannot be covered as soon as 2021. Thr security of supply will be brought up to the level already reached in North Western Europe competition and market integration: diversity on the L-gas area will reach the same level as the North West Region

Expected Gas Sourcing

Algeria, Caspian Region, Libya, Norway, Russia, LNG ()

Benefits	
Main Driver	Others
Main Driver Explanation	Decline of L-gas production in the Netherlands with supply contracts ending on 2029 for France and Belgium notwithstanding earlier termination date.
Benefit Description	Currently the L-gas area across France, Belgium and Germany is similar to a gas island connected to a single source. Through the conversion of the area to H-gas, the project is part of set of new regional infrastructures enabling market participants and consumers to take benefit from competitive and secured supply as the rest of North-West Europe.

CBCA	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>
Submissin Date	
Decision Date	<i>04/10/2018</i>
Website	<i>CBCA URL</i>
Countries Affected	<i>Belgium, France</i>
Countries Net Cost Bearer	<i>Belgium;#France</i>
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>Yes</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Biomethane: connection of production units and reverse flow projects

ETR-F-728	Project	Energy Transition Related Project	FID
Update Date	04/08/2020		Advanced
Description	The scattered production of renewable gas will take an increasing part in the gas mix. Grid adaptations and extensions will be required to connect this production units to the transmission network. Backhaul facilities will also be needed to allow biomethane injected in the distribution to flow back to the transmission grid when the biomethane injected locally exceeds local demand. These network adaptations will enable to maximize the volume of biomethane injected into the gas system and reach national target for renewable gas (10% of gas consumption in 2030). Teréga expects 3 connection projects per year (around 30 completed by 2030) for an estimated production of 3 TWh/year, and 1 backhaul project every 2 /3 years (around 4 completed by 2030) for an estimated reverse flow of 0,4 TWh/year.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
	TERÉGA	2030	NPcFRt	FR	3.00 GWh/d
Production France PEG TIGF	<i>Comment: Collection of projects to connect biomethane production units and to adapt the transmission grid where reverse flow from the distribution grids is needed. All this will lead to injection figures rising over the period covered by the TYNDP. There is also a need to adjust the name of the point slected here from "Production France PEG TIGF" to "PITP biomethane Teréga"</i>				

Sponsors		General Information	
Backhaul facilities		Promoter	Teréga
Teréga	100%	Operator	TERÉGA
Biomethane units connection to grid		Host Country	France
Teréga	100%	Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2030	2030
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Backhaul facilities	Facilities adjustments (compressor power, metering) at the connection point between the distribution and the transmission grids		2030
Biomethane units connection to grid	Connection of biomethane production units		2030

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	N/A

Fos Tonkin LNG Terminal Evolution

ETR-N-226	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>The project aims to adapt the Fos Tonkin LNG terminal into a small scale LNG hub, fully dedicated to the energy transition for the benefit of its clients in France, the neighbouring countries and beyond. It shall, in particular, allow the terminal to being able to operate without any flaring in all circumstances.</p> <p>Thus, the project will doubly contribute to the energy transition:</p> <p>1) it will contribute to the development of the use of LNG as an alternative fuel much cleaner and less CO2-emitting than oil-based products, and</p> <p>2) it will prevent any CO2 emission on the small scale LNG terminal where LNG will be loaded into bunker vessels, tanker trucks and tank wagons.</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information
Elengy100%	PromoterElengy
	OperatorElengy
	Host CountryFrance
	StatusPlanned
	WebsiteProject's URL

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		07/2020
Construction	07/2020	07/2022
Commissioning	2022	2022
Grant Obtention Date		

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
	No						see below	2022	0

HyGéo

ETR-N-901	Project	Energy Transition Related Project	Non-FID
Update Date	15/07/2020		Advanced
Description	The project Hygeo aims to develop a geological renewable energy storage installation in the form of the green hydrogen (H2). It includes the installation of electrolysis units to transform renewable electricity into hydrogen (P2H2). The project will offer flexibility to the electricity grid, providing a source of supply of electricity (P2P), as well as the possibility of providing H2 for direct consumption or for injection in the gas network. The pre-feasibility study regarding technical, economic, environmental, regulatory and societal aspects is in progress.		
PRJ Code - PRJ Name	-		

Sponsors		General Information	
HDF	46%	Promoter	Teréga
Teréga	40%	Operator	TERÉGA
BRGM	14%	Host Country	France
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		04/2021
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2024	2024
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
One phase project	Storage capacity of 1,5 GWh		2024

Impulse 2025

ETR-F-743	Project	Energy Transition Related Project	FID
Update Date	12/06/2020		Advanced
Description	<p>IMPULSE 2025 project aims at implementing a « smart multi-energies system » to interconnect different energy networks (gas, power, heat) to create synergies and improve energy efficiency. It includes studies and the building of a pilot demonstrator. 2 phases:</p> <p>Phase 1 (2019-2022): development of a model and optimization tool to identify the optimal configuration of a smart multi-energies system. Many technological components will be studied and meaningful or priority design studies will be conducted;</p> <p>Phase 2 (2022-2025): study of the operational feasibility to confirm estimated gains. Several partners are associated. This phase aims at improving the demonstrator through the implementation of the technological components identified in phase 1</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
	TERÉGA	2025	NPcFRt	FR	0.00 GWh/d
Production France PEG TIGF	Comment: 0 indicated because numbers are confidential and, in any case, very marginal (way lower than 0,1 GWh/d)				

Sponsors	General Information
Teréga + Others (confidential)100%	PromoterTeréga
	OperatorTERÉGA
	Host CountryFrance
	StatusPlanned
	WebsiteProject's URL

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	07/2019	07/2022
FEED		
Permitting		
Supply Contracts		
FID		07/2019
Construction		
Commissioning	2025	2025
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Impulse - Pilot Phase	building an optimization and modelling tool relying on different technologies (P2G, P2H) and designs		2022
Impulse - Operational phase	Building and connecting a facility to demonstrate the operational and industrial feasibility of such projects		2025

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	N/A

Jupiter 1000: first industrial demonstrator of Power to Gas in France

ETR-F-546	Project	Energy Transition Related Project	FID
Update Date	02/06/2020		Advanced
Description	The Jupiter 1000 project is the first industrial demonstrator of Power to Gas with a power rating of 1 MWe for electrolysis and a methanation process with carbon capture. Green hydrogen will be produced using two electrolyzers involving different technologies, from 100% renewable energy. The installation will be based on an innovative methanation technology and CO2 will be captured on a nearby industrial site. In the light of the performance levels shown by the demonstrator, GRTgaz and its partners will work on future technical and economic standards of a full-sized installation of this type. Over the longer term, the idea is to launch the Power to Gas activity in France. More than 15 TWh of gas could be produced each year using the Power to Gas system by 2050.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Forecast Production France GRTgaz	GRTgaz	2020	NPcFRg	FR	0.01 GWh/d

Sponsors	General Information	
CO2 capture and electrolyzer	Promoter	GRTgaz, Terega
LLT, GPMM, CNR, McPhy	Operator	GRTgaz
expertise	Host Country	France
Terega	Status	In Progress
global conception and construction	Website	Project's URL
GRTgaz		
methanation unit		
Atmostat		
tests and technical economic modelling		
CEA		

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	01/2014	01/2016
FEED		
Permitting	01/2016	06/2017
Supply Contracts		
FID		04/2016
Construction	06/2017	06/2020
Commissioning	2020	2020
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Jupiter 1000	a power rating of 1 MWe for electrolysis and a methanation process with carbon capture. Green hydrogen will be produced using two electrolyzers involving different technologies, from 100% renewable energy.		2020

Lacq Hydrogen

ETR-N-942	Project	Energy Transition Related Project	Non-FID
Update Date	14/09/2020		Advanced
Description	Lacq Hydrogen project aims at developing a 800MWe green H2 gas turbine plant in France, providing fully dispatchable green electricity to France and its SW Region. The hydrogen is expected to be produced in Spain, sourced from the electrolysis of wind and solar power. It will be then transported (blended with natural gas or pure) to France through the existing gas grid and stored in the existing gas infrastructure. At the Lacq Hydrogen site , hydrogen will be used for green energy production to be injected into the power grid.		
PRJ Code - PRJ Name	-		

Sponsors		General Information	
Gazel Energie	50%	Promoter	Teréga
Teréga	50%	Operator	TERÉGA
Soladvent (coordinator)	0%	Host Country	France
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		06/2020
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2026	2026
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Only phase	<i>Installed capacity: 800MWe Hydrogen consumption of 5 GWh/day to be imported from Spain through the existing gas grid and stored in existing storage with a capacity of 3 GNm3.</i>		

mosaHYc (Mosel Saar Hydrogen Conversion)

ETR-N-899	Project	Energy Transition Related Project	Non-FID
Update Date	15/06/2020		Advanced
Description	<p>GRTgaz in France and CREOS in Germany work together towards a cross-border 100% hydrogen transportation network via the reuse of existing gas infrastructures, connecting Saarland (Germany) and Lorraine (France) and arriving at the border of Luxembourg.</p> <p>The ambition of the mosaHYc project is to provide a 70 km regional-size hydrogen infrastructure where various hydrogen producers and consumers in Saarland, Lorraine and Luxemburg can access on a non-discriminatory basis and interact freely to develop hydrogen applications in the industry and especially in the mobility sector. Indeed, the project aims at supplying first future hydrogen filling stations, in line with green cross-border mobility ambitions of Saar federal State in Germany, Grand Est Region in France and Luxemburg. Thus, the project could contribute decarbonising mobility uses and address major environmental and societal challenges including the topic of improving air quality in the Saar-Lor-Lux region. This hydrogen infrastr</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Obergailbach (FR) / Medelsheim (DE)	GRTgaz	2024	IB-FR1	Y-DEnm	0.90 GWh/d
	Comment: New bidirectionnal H2 IP between France and Germany				
	GRTgaz	2024	Y-DEnm	IB-FR1	0.90 GWh/d
Comment: New bidirectionnal H2 IP between France and Germany					

Sponsors		General Information	
Section 1		Promoter	GRTgaz, CREOS Deutschland
GRTgaz	50%	Operator	GRTgaz
Section 2		Host Country	France
CEOS Deutschland	50%	Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		12/2020
Feasibility	01/2021	12/2021
FEED		
Permitting		
Supply Contracts		
FID		01/2022
Construction	01/2022	12/2024
Commissioning	2024	2024
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Carling - Perl	A 55 km long pipeline from Carling to Perl (Germany). capacity ; 10 000m3/h (max 20 000m3/h)		2024
Fenn Völkingen - Carling	- A 15 km long pipeline connecting the power plant site Fenne-Völkingen (Germany) to the industrial platform in Carling (France); capacity : 10 000m3/h (max 20 000m3/h)		2024

White Stream

TRA-N-53	Project	Pipeline including CS	Non-FID
Update Date	25/10/2019		Non-Advanced
Description	The White Stream pipeline will transport gas produced in Turkmenistan and the Caspian area destined for Baumgarten and surrounding markets. It will branch off an existing pipeline from Azerbaijan to Georgian-Turkish border (the SCP) and will include an onshore pipeline from the SCP connection point to Georgian Black Sea coast where a major compressor station will provide the high pressure required to transmit gas to Constanta Romania, across the Black Sea (an alternative destination to Varna, Bulgaria can be considered). White Stream will be connected to BRUA and possibly with other connectors to bring competitively priced gas from new sources to Baumgarten via lowest cost transportation routes.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Constanta (White Stream)	White Stream	2023	GEw	RO	505.00 GWh/d
Comment: Commissioning rescheduled from 2022 to 2023					
Vale (GE)	White Stream	2023	GE/SCP	GEw	505.00 GWh/d
Comment: Commissioning rescheduled from 2022 to 2023					

Sponsors		General Information		NDP and PCI Information	
W-Stream Pipeline Company Ltd	80%	Promoter	White Stream Ltd	Part of NDP	No ((2) no NDP exists in the country)
Georgian Oil and Gas Corporation (GOGC)	10%	Operator	White Stream	NDP Number	
M Bryza	10%	Host Country	Georgia	NDP Release Date	
		Status	Planned	NDP Website	
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	SGC

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2011	Considered TPA Regime	Regulated
Feasibility	09/2019	09/2020	Considered Tariff Regime	Negotiated
FEED	10/2020	09/2021	Applied for Exemption	No
Permitting	01/2021	12/2021	Exemption Granted	Not Relevant
Supply Contracts		12/2021		
FID		01/2022		
Construction	06/2022	12/2023	Exemption in entry direction	0.00%
Commissioning	2023	2023	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Supsa to Constanta	Offshore (for first stage / 16 bcma)	813	1,115	375	2023
Vale to Supsa	Onshore	1,039	135		2023
Total			1,250	375	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	The progress of the Trans Caspian Pipeline system (2 strings) - so the enabler project of the White Stream Pipeline, was not that fast as previously expected because of the uncertainties regarding legal status of the Caspian Sea. Since the signature of the Caspian Sea convention - signed mid of 2018 - the perceived risks by potential investors has decreased, subsequently interest in the Trans Caspian Pipeline system has increased. Nevertheless, it takes some time to fully built up the necessary confidence of investors consequently it will be difficult to catch up regarding initial time schedule to the full extend, thus a rescheduling of the White Stream Pipeline was advisable.

Expected Gas Sourcing

Caspian Region

Benefits

Main Driver	Market Demand
Main Driver Explanation	Diversification of delivery routes (two entry points into EU) resulting in the reduction of perceived risk is important for such sizable supply source as Turkmenistan and potentially Kazakhstan and Uzbekistan. For Germany and Austria White Stream also ensures lower transportation costs in comparison with the route via Turkey being more advantageous for SEE and Italy. WS provides for internal diversification of routes within the Southern Gas Corridor in expectation of increased import needs for mentioned areas in the EU.
Benefit Description	Increased competition because of the highly competitive gas from Turkmenistan, as well improved security of gas supply because of the new source and the new route. Market integration because of enabling more competition even in Georgia (trade with the EU-internal market on swap basis).

Barriers

Barrier Type	Description
Political	Since the Caspian Sea convention was signed only recently, developments regarding transporting Turkmen gas across the Caspian Sea were not as fast as expected in previous years, thus slowed down the progress of the TCP and consequently White Stream as well. Because of the momentum generated by signature of Caspian Sea convention, progress of both projects has increased but still difficult to catch up to full extend, thus a rescheduling of the White Stream Pipeline was advisable.
Others	Risk perceived by potential investors because of the missing Caspian Sea convention which was only signed mid of 2018. Even after the signature of the Caspian Sea convention, which is perceived as a key milestone, it takes some time to increase confidence of potential investor but the interest is steadily and quickly growing. So, once the Trans Caspian Pipeline 1st string and in particular 2nd string make the required progress the White Stream pipeline will significantly improve progress as well.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
		Comments	<i>TEN-E in 2008 and 2009</i>
		General Comments	

Compressor station at Ambelia

TRA-N-1278	Project	Pipeline including CS	Non-FID
Update Date	11/09/2019		Non-Advanced
Description	The project consists in the installation of a new compressor station at Ambelia (in Central Greece) which will increase the capacity of the transmission system of DESFA to transport gas from north to south but also (in reverse flow) from south to north. This increase is needed in view of the commissioning of TAP that will add one additional Entry point (and potentially Exit point) to the system.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Nea Mesimvria	DESFA S.A.	2023	GR	GR/TAP	32.40 GWh/d
	DESFA S.A.	2023	GR/TAP	GR	32.40 GWh/d

Sponsors		General Information		NDP and PCI Information	
DESFA S.A.	100%	Promoter	DESFA S.A.	Part of NDP	Yes (National Development Plan 2017-2026)
		Operator	DESFA S.A.	NDP Number	2.1.2.2
		Host Country	Greece	NDP Release Date	21/02/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	SGC

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	12/2018	06/2019	Considered Tariff Regime	Regulated
FEED	10/2019	06/2020	Applied for Exemption	No
Permitting	11/2019	11/2020	Exemption Granted	No
Supply Contracts		07/2020		
FID		05/2020	Exemption in entry direction	0.00%
Construction	12/2020	03/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Ambelia				20	2023
Total				20	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region, Russia

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	Yes
Grants for works amount	Mln EUR 32.7
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Compressor station at Nea Messimvria

TRA-N-971	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project consists of the implementation of a 27 MW boosterr station in order to enable flow from the Greek transmission system to TAP. This project is the second phase of development of project "TRA-N-941-Metering and Regulating station at Nea Messimvria" .		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Nea Mesimvria	DESFA S.A.	2023	GR	GR/TAP	49.20 GWh/d

Sponsors	General Information		NDP and PCI Information	
DESFA	100%	Promoter	DESFA S.A.	Yes (National Development Plan NNGS 2017-2026)
		Operator	DESFA S.A.	2.2.1.4
		Host Country	Greece	NDP Number
		Status	Planned	NDP Release Date
		Website	Project's URL	NDP Website
			Currently PCI	NDP URL
			Priority Corridor(s)	Yes (7.1.3 (2020))

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	09/2018	06/2019	Considered Tariff Regime	Regulated
FEED	10/2019	06/2020	Applied for Exemption	Not Relevant
Permitting	02/2020	09/2020	Exemption Granted	Not Relevant
Supply Contracts		09/2020		
FID		09/2020	Exemption in entry direction	0.00%
Construction	09/2020	03/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Nea Messimvria to TAP				27	0
Total				27	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	... continued from previous field: - Promote competition by offering alternative sources of supply compared to those of historical suppliers of the region

Expected Gas Sourcing

Caspian Region, LNG ()

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	The project will enable TAP to acquire increased flexibility since gas quantities that might be delivered by TAP to intermediate destinations will be compensated by quantities delivered by DESFA to TAP.

CBCA	
Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Compressor station at Nea Messimvria (3rd unit)

TRA-F-1276	Project	Pipeline including CS	FID
Update Date	18/11/2019		Non-Advanced
Description	The project consists in the addition of a third turbocompressor unit at the existing Comressor station of Nea Messimvria in order to increase the import capacity of the transmision system of DESFA to transport gas from north to south but also (in reverse flow) from south to north. This increase is needed in view of the commissioning of TAP that will add one additional Entry point (and potentially Exit point) to the system.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Nea Mesimvria	DESFA S.A.	2022	GR	GR/TAP	32.40 GWh/d
	DESFA S.A.	2022	GR/TAP	GR	32.40 GWh/d

Sponsors		General Information		NDP and PCI Information	
DESFA	100%	Promoter	DESFA S.A.	Part of NDP	Yes (National Development Plan 2017-2026)
		Operator	DESFA S.A.	NDP Number	2.1.2.8
		Host Country	Greece	NDP Release Date	21/02/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	SGC

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	10/2019	01/2019	Considered Tariff Regime	Regulated
FEED	02/2019	10/2019	Applied for Exemption	No
Permitting	10/2019	09/2020	Exemption Granted	No
Supply Contracts		02/2020		
FID		06/2019	Exemption in entry direction	0.00%
Construction	12/2020	09/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Nea Messimvria				8	2022
Total				8	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region, Russia

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	Yes
Comments	DESFA has requested grants for construction from PA (Partnership Agreement for the Development Framework) 2014-2020. This programme uses resources originating from the European Structural and Investment Funds (ESIF) of the European Union. The requested amount is 7.54 million EUR. The decision from the competent authorities is pending.
General Comments	

Compressor Station Kipi

TRA-N-128	Project	Pipeline including CS	Non-FID
Update Date	26/11/2019		Non-Advanced
Description	The project consists of a Compressor Station on the GR side of the GR/TK border aiming at increasing the capacity of the Greek transmission system in order to make possible the transmission of natural gas to the Greek and European markets with the use of downstream transmission systems. It also contains a regulating station in Komotini which is needed in order to protect the part of the DESFA network west of Komotini which has a lower operating pressure (66,4 barg) than the part from Kipi to Komotini (75 barg).		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Variant : 92.5 GWh/d		case where TAP will be, from the beginning, connected to TANAP at the GR/TR border, and IGB will be supplied by TAP therefore the C/S will supply gas to the DESFA system and the ones of neighbouring operators.			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Kipi (TR) / Kipi (GR)	DESFA S.A.	2024	TRi	IB-GRk	44.00 GWh/d
Komotini (DESFA) - GR / IGB	DESFA S.A.	2024	IB-GRk	BG/IGB	62.50 GWh/d
Komotini (DESFA) Bottleneck	DESFA S.A.	2024	IB-GRk	GR	44.00 GWh/d
Capacity Increments Variant(s) For Information Only					
Variant : 206.40 GWh/d		case where TAP will be, from the beginning, connected to TANAP at the GR/TR border, and IGB will be supplied by the DESFA network therefore the C/S will supply gas to the DESFA system and the ones of neighbouring operators through IGB.			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Kipi (TR) / Kipi (GR)	DESFA S.A.	2024	TRi	IB-GRk	157.80 GWh/d

Sponsors		General Information		NDP and PCI Information	
DESFA S.A.	100%	Promoter	DESFA S.A.	Part of NDP	Yes (National Development Plan NNGS 2017-2026)
		Operator	DESFA S.A.	NDP Number	2.2.1.2
		Host Country	Greece	NDP Release Date	21/02/2019
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.8.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	06/2019	09/2019	Considered Tariff Regime	Regulated
FEED	01/2020	06/2020	Applied for Exemption	No
Permitting	03/2020	01/2021	Exemption Granted	Not Relevant
Supply Contracts		02/2021		
FID		01/2021	Exemption in entry direction	0.00%
Construction	06/2021	06/2023	Exemption in exit direction	0.00%
Commissioning	2024	2024		
Grant Obtention Date				

Pipelines and Compressor Stations - Alternative Variant							
Pipeline Section		Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Kipi				0	0	18	0
Total					0	18	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	The C/S will increase the import capacity from Turkey in order to supply both the Greek System and the those of neighbouring countries and will allow the entry of new suppliers in the market that may supply gas at higher pressures without hindering the supply from Turkey.

Delays since last TYNDP	
Delay Since Last TYNDP	0
Delay Explanation	

Expected Gas Sourcing	
Caspian Region, Russia, LNG (), Other Central Asian, Middle Eastern and East-Mediterranean sources	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers	
Barrier Type	Description
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	MIn EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	MIn EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	No decision yet taken
Additional Comments		Other Financial Assistance	No
		Comments	
		General Comments	

EastMed Pipeline

TRA-A-330	Project	Pipeline including CS	Non-FID
Update Date	22/09/2020		Non-Advanced
Description	<p>The EastMed project is an approximately 1900 km offshore/onshore pipeline project that will directly connect the East Mediterranean gas resources to the European gas system.</p> <p>The project consists of 5 sections connecting the following areas: Levantine basin – Cyprus –Crete- Peloponnese –West Greece-Thesprotia.</p> <p>The system will have a capacity of 320-350 GWh/d with the option to upgrade the capacity of the pipeline sections from Crete up to 510 Gwh/d, in case relevant reserves will be discovered in the offshore of Crete.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
East Med / Crete (GR)	IGI Poseidon S.A.	2025	GRc	GR/EMD	190.00 GWh/d
	IGI Poseidon S.A.	2025	GR/EMD	GRc	20.00 GWh/d
East Med / Cyprus (CY)	IGI Poseidon S.A.	2025	GR/EMD	CY	30.00 GWh/d
East Med / Cyprus/Israeli Production Field	IGI Poseidon S.A.	2025	NPcCY	GR/EMD	330.00 GWh/d
East Med / Peloponnesus (GR)	IGI Poseidon S.A.	2025	GR/EMD	GR	90.00 GWh/d
East Med / Thesprotia (Poseidon)	IGI Poseidon S.A.	2025	GR/IGI	GR/EMD	350.00 GWh/d

Sponsors	General Information	NDP and PCI Information	
EastMed pipeline: from Crete to Peloponnese	Promoter Operator Host Country Status Website	Part of NDP	No ((6) others - please comment below)
IGI Poseidon SA100%		NDP Number	
EastMed pipeline: from Cyprus to Crete		NDP Release Date	
IGI Poseidon SA100%		NDP Website	
EastMed pipeline: from Levantine Basin to Cyprus		Currently PCI	Yes (7.3.1 (2020))
IGI Poseidon SA100%		Priority Corridor(s)	
EastMed pipeline: from Peloponnese to West Greece			
IGI Poseidon SA100%			
EastMed pipeline: from West Greece to Thesprotia (tie-in with Poseidon)			
IGI Poseidon SA100%			

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2014	Considered TPA Regime	Not Applicable
Feasibility	05/2015	03/2018	Considered Tariff Regime	Not Applicable
FEED	11/2018	12/2021	Applied for Exemption	Not Yet
Permitting	06/2019	12/2021	Exemption Granted	No
Supply Contracts				
FID		12/2021	Exemption in entry direction	0.00%
Construction	12/2021	12/2024	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date	25/01/2018	25/01/2018		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
EastMed pipeline: section from Crete to Peloponnese	This offshore pipeline section is designed to transport 320 GWh/d of natural gas form the Levantine Basine and can be upgraded for further 190 GWh/d of natural gas from the offshore of Crete in case relevant reserves will be discovered.	660	421	120	0
EastMed pipeline: section from Cyprus to Crete	This section of the project is related to the offshore pipeline between Cyprus and Crete.	660	732	100	0
EastMed pipeline: section from Levantine Basin to Cyprus	This offshore pipeline section will tansport 350GWh/d to Cyprus where it will deliver 30 Gwh/d for the internal consumption and the remaing 320GW/d will be exported to Greece via Crete.	610	165		0
EastMed pipeline: section from West Greece to Thesprotia	This offshore pipeline section is designed to transport 320 GWh/d of natural gas form the Levantine Basine and can be upgraded for further 190 GWh/d of natural gas from the offshore of Crete in case relevant reserves will be discovered.	1,070	236		0
EastMed: section from Peloponnese to West Greece	This offshore pipeline section is designed to transport 320 GWh/d of natural gas form the Levantine Basine and can be upgraded for further 190 GWh/d of natural gas from the offshore of Crete in case relevant reserves will be discovered.	1,070	317		0
Total			1,871	220	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Strengthens SECURITY OF SUPPLY via diversification, providing solutions to disruption scenarios and impacting SSA. Achieves gasification of Cyprus, ending isolation and connects it, with reverse flow to Europe gas network system via GR and IT (Poseidon offshore). Interconnects Crete, promoting interoperability and gasification. Provides 3rd diversified gas source and increased N-1 indicator for Greece. (SLID). Concerns positively remaining flexibility in Greece and contributes, in case of disruption of Ukraine route. Enhances COMPETITION along whole gas chain, including among producers. Provides Greece and Italy with additional entry points, access to new markets, promoting diversification of counterparts in these markets and beyond. The new gas will compete advantageously lowering gas supply price across Eur. Promotes SUSTAINABILITY, allowing CY & Crete to overcome dependence on imported petrol products, triggering cost savings, and attainment of EU emission reductions targets.

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	The project's development activities are on time. Compared to the previous TYNDP application, the date of FID has been corrected from 06 2021, to 12 2021 and the formal start of the permitting phase, according to Article 10 of Regulation 347/2013 adjusted. The overall project schedule remains unaffected.

Expected Gas Sourcing	
Cyprus resources and offshore of Crete in case relevant gas reserves will be discovered and potentially Egypt.	

Comments about the Third-Party Access Regime	
The access regime will be defined at a later stage of the development activities	

Benefits	
Main Driver	Others
Main Driver Explanation	<p>The primary objective of the Eastern Mediterranean Pipeline is to provide a permanent connection of the recently discovered gas reserves in the Levantine Basin with the European gas markets. The specific objectives to be achieved with implementation of the project are to: • exploit the proximity of the Levantine Basin gas fields to mainland Europe, to diversify the sources, routes and counterparts of the European gas supply with 10-16 bcm/year of deliveries from new sources, which are wholly or partly produced within the EU; • integrate Cyprus with the European gas system, further promoting gas trading in the South Eastern Europe region; • promote the development of a gas trading hubs in Greece and in Italy, in connection with other Southern Corridor initiatives, facilitating gas exchanges in South Eastern Europe; • gasify regions of Greece that currently have no access to gas, such as Crete, Peloponnese and Western Greece.</p>
Benefit Description	<p>The dependence of the European Union on external gas supplies is continuously increasing, with indigenous production declining, leading to the need to diversify sources so as to strengthen security of the markets' supply, particularly in SEE. On the other hand, unlocking the recent discoveries in the Levantine Basin, including - referring to the sole Cyprus - the largest recent discovery of gas reserves in Europe, is particularly relevant for the development of the exploration and hydrocarbons in the whole East Mediterranean. Considering all the above, EastMed addresses the following main needs: • Increases security and diversification of gas supplies to Europe, as well as competition in line with the EU objectives to complete the internal energy market; • Contributes to the development of EU domestic gas resources, thus limiting the dependence on third countries • Secures access to gas sources strategically located for EU</p>

Barriers	
Barrier Type	Description
Political	A supportive political, fiscal and regulatory framework is necessary to secure the timely development of the EastMedProject. a 4-Party Agreement Y

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Italiy-Greece-Cyprus-Israel Working Group		Yes	01/12/2016
Cyprus-Israel-Greece Trilateral Summit Declaration	Agreement to "to strengthen the cooperation between our three countries in order to promote a trilateral partnership in different fields of common interest and to work together towards promoting peace, stability, security and prosperity in the Mediterran"	Yes	28/01/2016
Memorandum of Understanding on cooperation in relation to EastMed Pipeline	MoU signed by Ministers of the Republic of Cyprus, the Hellenic Republic and the State of Israel and the Ambassador of the Italian Republic to Cyprus	Yes	05/12/2017

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>MIn EUR 34.5</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>MIn EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
			<i>The project has been awarded in 2015 with 2 M€ of CEF grants for the development activities related to Pre-FEED phase.</i>
		Comments	<i>In 2018, a second CEF grant of 34.5M€ has been awarded to the project for the development activities related to FEED Phase.</i>
			<i>IGI Poseidon is currently carrying out CEF Action 7.3.1-0023-CYEL-S-M-17, Implementation schedule: May 2018 to December 2021</i>
		General Comments	<i>The previous CEF Action for the EastMed, 7.3.1-0025-ELCY-S-M-15, Implementation schedule: May 2015 to March 2018, has been successfully carried out.</i>

Metering and Regulating Station at Alexandroupoli

TRA-N-1090	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project consists of the implementation of one Metering and Regulating Station at Alexandroupoli (Amphitriti) for the potential interconnection of the Greek transmission system with the LNG terminal in Northern Greece.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Alexandroupolis Amphitriti	DESFA S.A.	2022	GRa	IB-GRk	268.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
DESFA S.A. 100%	Promoter	DESFA S.A.	Part of NDP	No ((6) others - please comment below)
	Operator	DESFA S.A.	NDP Number	
	Host Country	Greece	NDP Release Date	
	Status	Planned	NDP Website	
	Website	Project's URL	Currently PCI	Yes (6.9.1 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	09/2019	02/2020	Considered Tariff Regime	Regulated
FEED	04/2020	12/2020	Applied for Exemption	Not Relevant
Permitting	06/2020	06/2021	Exemption Granted	Not Relevant
Supply Contracts		08/2021		
FID		07/2021	Exemption in entry direction	0.00%
Construction		03/2023	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	The project will help in adding one additional supply source. Thus enhancing market integration, security of supply and growth of competition.

Expected Gas Sourcing
LNG ()

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers	
Barrier Type	Description
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	No, we have not submitted an investment request yet, and we do not plan to submit it	Applied for CEF	(3) No, we have not applied for CEF
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	Mln EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	Mln EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	No decision yet taken
Additional Comments		Other Financial Assistance	No
		Comments	
		General Comments	



Metering and Regulating station at Megalopoli

TRA-N-1091	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project consists of the implementation of one Metering & Regulating station at Megalopoli, in the Peloponnese, for the potential interconnection of the Greek gas transmission system with the East-Med pipeline.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
East Med / Peloponnesus (GR)	DESFA S.A.	2025	GR/EMD	GR	90.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
DESFA S.A. 100%	Promoter	DESFA S.A.	Part of NDP	No ((6) others - please comment below)
	Operator	DESFA S.A.	NDP Number	
	Host Country	Greece	NDP Release Date	
	Status	Planned	NDP Website	
	Website	Project's URL	Currently PCI	Yes (7.1.3 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	04/2022	10/2022	Considered Tariff Regime	Regulated
FEED	12/2022	10/2023	Applied for Exemption	Not Relevant
Permitting	02/2022	02/2023	Exemption Granted	Not Relevant
Supply Contracts		09/2023		
FID		02/2023	Exemption in entry direction	0.00%
Construction	09/2023	12/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	The project will allow one additional source of gas (Levantine basin) to supply the Greek transmission system

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Lack of market demand

Expected Gas Sourcing

Cyprus

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	The project will add one more source of supply to the Greek market thus increasing SoS and Market integration.

Barriers

Barrier Type	Description
Market	Lack of market support

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Metering and Regulating station at Nea Messimvria

TRA-F-941	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	The project consists of the implementation of one Metering & Regulating station at Nea Messimvria for the interconnection of the Greek transmission system with TAP.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Nea Mesimvria	DESFA S.A.	2020	GR/TAP	GR	49.20 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	DESFA S.A.	Part of NDP	Yes (National Development Plan NNGS 2017-2026)
	Operator	DESFA S.A.		
	Host Country	Greece	NDP Number	2.2.1.4
	Status	Planned	NDP Release Date	21/02/2019
	Website	Project's URL	NDP Website	NDP URL
			Currently PCI	Yes (7.1.3 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	01/2016	04/2016
FEED	05/2016	03/2018
Permitting	02/2018	02/2019
Supply Contracts		09/2019
FID		09/2017
Construction	09/2019	10/2020
Commissioning	2020	2020
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	Not Relevant
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Nea-Messivria to TAP			1		0
Total			1		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	The project will add one more route and source of gas supply (from TAP) to the Greek transmission system.

Expected Gas Sourcing

Caspian Region, LNG ()

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	The project will enable the Greek gas transmission system to be supplied by an additional gas source and route.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.5</i>
Website		Grants for works	<i>Yes</i>
Countries Affected		Grants for works amount	<i>Mln EUR 7.1</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
			<i>DESFA has requested grants for construction from PA (Partnership Agreement for the Development Framework) 2014-2020. This programme uses resources originating from the European Structural and Investment Funds (ESIF) of the European Union. The requested amount is 5.45 million EUR.</i>
		Comments	
		General Comments	

Metering and Regulating Station at UGS South Kavala

TRA-N-1092	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project consists of the implementation of one Metering and Regulating Station at Kavala for the potential interconnection of the Greek transmission system with the UGS in South Kavala.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS South Kavala (GR)	DESFA S.A.	2023	STcGR	IB-GRk	44.00 GWh/d
			Comment: from storage to grid		
	DESFA S.A.	2023	IB-GRk	STcGR	55.00 GWh/d
			Comment: From grid to storage		

Sponsors	General Information		NDP and PCI Information	
1 DESFA S.A.	Promoter	DESFA S.A.	Part of NDP	No ((6) others - please comment below)
	Operator	DESFA S.A.	NDP Number	
	Host Country	Greece	NDP Release Date	
	Status	Planned	NDP Website	
	Website	Project's URL	Currently PCI	Yes (6.20.3 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	04/2020	10/2020	Considered Tariff Regime	Regulated
FEED	11/2020	05/2021	Applied for Exemption	No
Permitting	12/2020	12/2021	Exemption Granted	No
Supply Contracts		03/2022		
FID		01/2022		
Construction	03/2022	09/2023	Exemption in entry direction	0.00%
Commissioning	2023	2023	Exemption in exit direction	0.00%
Grant Obtention Date				

Fulfilled Criteria	
Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The project is a needed part of the Greek transmission system to allow its connection to the UGS of South Kavala promoted by others (Hellenic Republic Assets Development Fund - HRADF)

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	The project schedule depends on the implementation of the UGS of South Kavala, promoted by others (HRADF).

Expected Gas Sourcing	
All sources of gas comprised in the Greek supply mix including the ones to be brought by TAP.	

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	The UGS projects will enhance SoS
Benefit Description	The enhancement of SoS will become more important as the penetration of natural gas in the residential sector of the still immature Greek gas market and its neighbours (like FYRoM) will increase.

Barriers	
Barrier Type	Description
Others	The implementation of the project depends on the implementation of the UGS South Kavala.
Market	Lack of market maturity

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Nea-Messimvria to Evzoni/Gevgelija pipeline (IGNM)

TRA-A-967	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project consists of a pipeline from Nea-Messimvria to the GR/MK border allowing the supply of North Macedonia by the Greek Gas Transmission System		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Stojakovo village (MK) / Pontoiraklia (GR)	DESFA S.A.	2022	GR	MK	76.50 GWh/d

Sponsors	General Information		NDP and PCI Information	
DESFA S.A. <div><div></div></div> 100%	Promoter	DESFA S.A.	Part of NDP	Yes (NDP 2017-2026)
	Operator	DESFA S.A.	NDP Number	2.1.2.1
	Host Country	Greece	NDP Release Date	
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	No
			Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	03/2017	01/2019	Considered Tariff Regime	Regulated
FEED	03/2019	11/2019	Applied for Exemption	No
Permitting	12/2018	03/2020	Exemption Granted	No
Supply Contracts		10/2020		
FID		06/2020	Exemption in entry direction	0.00%
Construction	12/2020	09/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Nea-Messimvria to Pontoiraklia/Stojakovo			700	50		0
Total				50		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	The condition imposed by the Regulator for the approval of the inclusion of the project iin the NDP (i.e. the execution of a successful Market Test) had as a consequence a delay for the drafting of the relevant Guidelines and Notice and for the alignment between the two gas transmission companies.

Expected Gas Sourcing	
Caspian Region, LNG (DZ,WO)	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	North Macedonia has a forecast gas demand showing an important increase due to their need to replace polluting energy sources in the District heating installations and in some of their power plants as well as in the residential space heating sector.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>Yes</i>
			<i>DESFA has requested grants for construction from PA (Partnership Agreement for the Development Framework) 2014-2020. This programme uses resources originating from the European Structural and Investment Funds (ESIF) of the European Union. The requested amount is 16.91 million EUR. The decision from the competent authorities is pending.</i>
		Comments	
		General Comments	

Poseidon Pipeline

TRA-A-10	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>The Poseidon Pipeline project represents a valid “multi-source” option to complete the Southern Gas Corridor aiming to increase the EU security of supply.</p> <p>The current configuration of the project includes 2 sections entirely within the EU territory: i) 770km onshore crossing Greece from the border with Turkey to Thesprotia and ii) 210 offshore crossing the Ionian Sea up to the Italian landfall in Otranto.</p> <p>In its first phase, Poseidon pipeline would transport 10-12 Bcm/y of the available gas volumes at Turkish/Greek border, towards Italy and the southern Balkans. In its second development phase, the project capacity will be increased up to 20 Bcm/y allowing the flow of gas coming from Eastern Mediterranean region through EastMed pipeline, to which Poseidon pipeline will be connected in Thesprotia.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
East Med / Thesprotia (Poseidon)	IGI Poseidon S.A.	2025	GR/EMD	GR/IGI	320.00 GWh/d
				Comment: 2nd phase	
Kipi (TR) / Kipi (GR)	IGI Poseidon S.A.	2022	TRi	IB-GRk	480.00 GWh/d
	IGI Poseidon S.A.	2025	TRi	IB-GRk	150.00 GWh/d
				Comment: 2nd phase	
Komotini (DESFA) - GR / IGB	IGI Poseidon S.A.	2022	IB-GRk	BG/IGB	90.00 GWh/d
	IGI Poseidon S.A.	2025	IB-GRk	BG/IGB	65.00 GWh/d
				Comment: 2nd phase	
Otranto - IT / IGI Poseidon	IGI Poseidon S.A.	2022	IB-ITs	GR/IGI	160.00 GWh/d
	IGI Poseidon S.A.	2022	GR/IGI	IB-ITs	380.00 GWh/d
	IGI Poseidon S.A.	2025	GR/IGI	IB-ITs	250.00 GWh/d
				Comment: 2nd phase	

Sponsors		General Information		NDP and PCI Information	
IGI POSEIDON S.A.	100%	Promoter		Natural Gas Submarine Interconnector Greece-Italy Poseidon S.A	Yes (Piano decennale di sviluppo delle reti di trasporto di gas naturale 2017-2026 (pag. 55, 56, 98))
		Operator		IGI Poseidon S.A.	n.a.
		Host Country		Greece	30/11/2017
		Status		Planned	NDP Website
		Website		Project's URL	NDP URL
				Currently PCI	Yes (7.3.3 (2020))

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Not Applicable
Feasibility	03/2004	10/2006	Considered Tariff Regime	Not Applicable
FEED	08/2017	01/2019	Applied for Exemption	Yes
Permitting	08/2017	06/2019	Exemption Granted	Not Yet
Supply Contracts				
FID		06/2019	Exemption in entry direction	0.00%
Construction	03/2020	09/2022	Exemption in exit direction	0.00%
Commissioning	2022	2025		
Grant Obtention Date				

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Poseidon offshore section		813	210	75
Poseidon onshore section		1,220	770	75
Total			980	150

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Strengthens SoS. Broadens SGC with route diversification and additional/multiple diversified sources including from E. Mediterranean to IT, GR and EUR markets, contributing to mitigating demand/supply unbalance risks. Contributes to N-1 indicator for GR (SLID) enables access to storage facilities in IT. Added SoS via reverse flow for GR and (via IGB) SE Europe, allowing gas sourced from the IT and ensuring remaining flexibility in case of Ukraine route disruption. Boosts market integration with physical connection of GR-IT and via the IGB and EastMed deepens integration of SE Europe to European gas system. Poseidon enhances competition. Fosters creation of an Italian and Greek gas hub, increasing market liquidity and number of players, with benefit for European price signals thanks to forward and reverse flow and continental markets by exerting competitive pressure on gas importers to other European countries. Strengthens sustainability by accelerate switching gas from coal.

Expected Gas Sourcing

Caspian Region, Cyprus and offshore Crete resources, coming through the EastMed pipeline.

Comments about the Third-Party Access Regime

The promoter has obtained for the initial configuration of Poseidon Project (offshore section), a TPA exemption for 89% of the forward flow capacity from Greece to Italy.

Benefits

Main Driver	Others
Main Driver Explanation	The Poseidon pipeline will provide valuable amounts of diversified sources of gas, leading to greater liquidity of the impacted markets, enhancing the competitiveness of prices. Other than Italy (as well as Greece through reverse flow) Poseidon, functioning in complementarity with the SNAM RETE GAS, Adriatica line will enable the delivery of gas to markets in North East Europe where its benefits will also be felt. While market demand is a key driver, the Poseidon pipeline, by allowing gas from the Southern Corridor to European markets, contributes fundamentally to security of supply.
Benefit Description	Through the promotion of diversification of sources, routes and counterparts, Poseidon serves to enhance energy security. In conjunction with the EastMed pipeline, it will enable the delivery of a completely new source, via a new route to reach markets, in Italy and beyond. Moreover, due to the reverse flow function, Poseidon will supply gas from Italy to the Greek system and thereby contribute decisively during disruption periods. As regards Italy, Poseidon creates a new entry point with firm capacity, enhancing the effectiveness of the N-1 indicator. The new gas will also lead to greater market liquidity creating conditions for healthy gas trading. Via synergies with the Transitgas pipeline, these benefits and excess gas created can contribute to SoS in regions bordering NE and NW of Italy while SE European market conditions will also be positively influenced through the connection, via Greece, with these more developed, hub-based markets.

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of Understanding between Greece and Turkey		Yes	01/05/2010
Protocol of Cooperation between Italy and Azerbaijan		Yes	01/12/2007
Italy-Greece-Turkey Intergovernmental Agreement		Yes	01/07/2007
Italy-Greece Intergovernmental Agreement		Yes	01/11/2005
Joint statement of the Italian Minister of Economic Development and the Turkish Minister of Energy and Natural Resources		Yes	01/11/2009

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>Yes</i>
Comments	<i>The Poseidon project has been awarded in 2010 with c.a. 5.5 M€ of EU grants through EEPR program (EEPR-2009-INTg-Poseidon), mainly for the technical development activities as Front-End-Engineering-Design and Design Appraisal and Certification for the project offshore section.</i>
General Comments	

South Kavala Underground Gas Storage facility

UGS-N-385	Project	Storage Facility	Non-FID
Update Date	06/01/2020		Non-Advanced
Description	The project involves the conversion of the offshore depleted gas field of South Kavala into an Underground Gas Storage Facility.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS South Kavala (GR)	Hellenic Republic Asset Management Fund	2023	STcGR	IB-GRk	44.00 GWh/d
			Comment: from storage to grid		
	Hellenic Republic Asset Management Fund	2023	IB-GRk	STcGR	55.00 GWh/d
			Comment: from grid to storage		

Sponsors		General Information		NDP and PCI Information	
Hellenic Republic Asset Development Fund (HRADF)	100%	Promoter	Hellenic Republic Asset Development Fund	Part of NDP	No ((3) the operators are not required to prepare and publish a NDP)
		Operator	Hellenic Republic Asset Management Fund	NDP Number	
		Host Country	Greece	NDP Release Date	
		Status	Planned	NDP Website	
		Website	Project's URL	Currently PCI	Yes (6.20.3 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		11/2019	Considered TPA Regime	Regulated
Feasibility	11/2019	06/2020	Considered Tariff Regime	Regulated
FEED	06/2020	10/2020	Applied for Exemption	No
Permitting	02/2021	09/2021	Exemption Granted	No
Supply Contracts				
FID		10/2021	Exemption in entry direction	0.00%
Construction	11/2021	09/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Technical Information (UGS)

Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
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South Kavala

Depleted Field

Yes

Single-phase Project

720

4.0

5.0

100

2023

Exact working gas volume (360 - 720 mcm per annum) depends on the number of cycles as well as the number of operating wells. The aforementioned estimates, as well as number of cycles, are based on various preliminary studies conducted in the past. However, as the transaction process progresses and upon completion of the FEED study more accurate project technical specifications will arise which can differ from the current known estimates.

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	- The storage facility may support the increased peneration of gas in the residential andcommercial sectors as this makes the yearly demand distribution less even due to the space heating seasonal demand

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	Current market conditions are considered favourable for the project's advancement and the project promoter strongly believes that the indicated timeline will be met.

Expected Gas Sourcing	
Caspian Region, Russia, LNG ()	

Comments about the Third-Party Access Regime	
The definition of the regulatory regime, including tariffs regime, is pending by the NRA.	

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	I. The UGS is expected to enhance Greece’s security of supply during peak demand seasons (i.e. winter, summer) and system balancing gas during intraday peak hours II. The UGS will serve as an additional source primarily for the Greek but also for the neighbouring interconnected European gas markets. III. The UGS is expected to compliment other natural gas projects, promote Greece as regional gas hub and increase the natural gas system's efficiency
Benefit Description	

Barriers	
Barrier Type	Description
Regulatory	The regulatory framework will be finalised after the selection of a consessionaire, however, the project promoter has already initiated discussions with the NRA in order to form a solid view and understanding for the regulatory framework that will be applicable for the project
Political	N/A - The Greek state supports the advancement of the project, being evident from the fact that the Joint Ministerial Decision, which is a prerequisite to launch the tender process, is close to be finalised and published
Financing	Final financing structure will be decided by the selected concessionaire, however, project's inclusion in the PCI list and support from the EU is deemed critical for the project's advancement

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(2) Yes, we have applied for CEF, but we have not received a decision yet</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 1.7</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

TAP Expansion

TRA-N-810	Project	Pipeline including CS	Non-FID
Update Date	29/10/2019		Advanced
Description	TAP's initial capacity is 10 bcm/a and it can expand up to 20 bcm/a, subject to binding market demand. TAP Expansion refers to the Incremental Capacity up to a maximum of 20 bcm/a that can be created by adding additional compression to the initial 10 bcm/a capacity of TAP. TAP launched the Market Test Non-Binding phase on 1 July 2019 and on 21 October 2019 published the Demand Assessment Report, indicating aggregated non-binding demand indications received at TAP's Interconnection Points in Greece, Italy and Albania. On 22 October 2019 TAP has launched the Coordinated Design phase to analyse suitable technical scenarios for accommodating the non-binding requests.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Kipi (TR) / Kipi (TAP)	Trans-Adriatic Pipeline AG	2025	TR/TNP	GR/TAP	233.00 GWh/d
	Comment: The total capacity entry Kipoi is identical with the total capacity exit Melendugno when adding the initial TAP project and the TAP Expansion together. GCV used for capacity calculations: 9.71 kWh/Sm3.				
Komotini - TAP / IGB	Trans-Adriatic Pipeline AG	2025	GR/TAP	BG/IGB	0.00 GWh/d
	Comment: GCV used for capacity calculations: 9.71 kWh/Sm3.				
Melendugno - IT / TAP	Trans-Adriatic Pipeline AG	2025	AL/TAP	IB-ITs	292.00 GWh/d
	Comment: The total capacity entry Kipoi is identical with the total capacity exit Melendugno when adding the initial TAP project and the TAP Expansion together. GCV used for capacity calculations: 9.71 kWh/Sm3.				
Nea Mesimvria	Trans-Adriatic Pipeline AG	2025	GR/TAP	GR	0.00 GWh/d
	Comment: The energy quantities have not been updated, given that the ones submitted for TAP initial capacity - for Nea Mesimvria exit cover also the non-binding demand indications received by TAP in the 2019 Market Test. GCV used for capacity calculations: 9.71 kWh/Sm3.				

Sponsors		General Information		NDP and PCI Information	
BP	20%	Promoter	<i>Trans Adriatic Pipeline AG</i>	Part of NDP	<i>No ((6) others - please comment below)</i>
SNAM	20%	Operator	<i>Trans-Adriatic Pipeline AG</i>	NDP Number	
SOCAR	20%	Host Country	<i>Greece</i>	NDP Release Date	
FLUXYS	19%	Status	<i>In Progress</i>	NDP Website	
ENAGAS	16%	Website	<i>Project's URL</i>	Currently PCI	<i>No</i>
AXPO	5%			Priority Corridor(s)	<i>SGC</i>

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		<i>03/2013</i>	Considered TPA Regime	<i>Regulated</i>
Feasibility	<i>01/2009</i>	<i>03/2013</i>	Considered Tariff Regime	<i>Negotiated</i>
FEED			Applied for Exemption	<i>No</i>
Permitting			Exemption Granted	<i>No</i>
Supply Contracts				
FID			Exemption in entry direction	<i>0.00%</i>
Construction			Exemption in exit direction	<i>0.00%</i>
Commissioning	<i>2025</i>	<i>2025</i>		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
TAP Expansion	TAP Expansion is built on TAP Initial Capacity by investment for additional compression at two existing compressor stations and by introducing two additional compressor stations.			275	2025
Total				275	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region

Comments about the Third-Party Access Regime

The initial capacity is exempted from TPA. TAP Expansion capacity is subject to TPA and is offered to the market via market tests, with the exception of short term obligations. TAP has received a Tariff Exemption for all capacity. The Tariff Exemption covers also the TAP Expansion capacity. Please see submission of data for TAP initial capacity.

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	Benefits of TAP Expansion are an enhancement of the benefits of TAP - Initial Capacity project.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Trans Adriatic Pipeline

TRA-F-51	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	Trans Adriatic Pipeline (TAP) will transport natural gas from Kipoi in Greece near the Greek-Turkish border, via Albania and across the Adriatic Sea, to Italy's southern Puglia region in the province of Lecce. TAP will interconnect with TANAP, which is linked further to the East with systems in Turkey, to secure access to the Shah Deniz natural gas field in Azerbaijan, and ties into Italy's gas transportation grid operated by Snam Rete Gas in the province of Lecce. TAP's initial capacity is 10 bcm/a and it can expand its capacity up to 20 bcm/a, subject to binding market demand. The expansion capacity will be offered to the market via market tests, from no later than start of operations and subsequently every two years.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Kipi (TR) / Kipi (TAP)	Trans-Adriatic Pipeline AG	2020	GR/TAP	TR/TNP	331.00 GWh/d
	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3. Commercial Reverse Capacity equal to booked forward entry capacity. Information commercial reverse flow at Kipoi exit point inserted given the commercial reverse capacities provided for Melendugno.				
	Please note that validation of Kipoi as an exit point is subject to further alignment with adjacent TSOs.				
Komotini - TAP / IGB	Trans-Adriatic Pipeline AG	2020	TR/TNP	GR/TAP	350.00 GWh/d
	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3.				
	Trans-Adriatic Pipeline AG	2020	GR/TAP	BG/IGB	142.00 GWh/d
Melendugno - IT / TAP	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3.				
	Trans-Adriatic Pipeline AG	2020	AL/TAP	IB-ITs	291.00 GWh/d
	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3.				
Nea Mesimvria	Trans-Adriatic Pipeline AG	2020	GR	GR/TAP	142.00 GWh/d
	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3. This entry point is subject to the development of required facilities by the adjacent TSO.				
	Trans-Adriatic Pipeline AG	2020	GR/TAP	GR	142.00 GWh/d

Comment: GCV used for capacity calculations: 11.071 kWh/Sm3.

Nea Mesimvria

Incremental capacity available for allocation is subject to a check of the system's capabilities and dependent on the capacity bookings in place.

Sponsors		General Information		NDP and PCI Information	
BP	20%	Promoter	Trans Adriatic Pipeline AG	Part of NDP	No ((6) others - please comment below)
Snam	20%	Operator	Trans-Adriatic Pipeline AG	NDP Number	
SOCAR	20%	Host Country	Greece	NDP Release Date	
Fluxys	19%	Status	In Progress	NDP Website	
Enagas	16%	Website	Project's URL	Currently PCI	Yes (7.1.3 (2020))
Axpo	5%			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Negotiated
Feasibility			Considered Tariff Regime	Negotiated
FEED	01/2008	03/2013	Applied for Exemption	Yes
Permitting	09/2011	11/2018	Exemption Granted	Yes
Supply Contracts		04/2015		
FID		12/2013	Exemption in entry direction	100.00%
Construction	05/2016	10/2020	Exemption in exit direction	100.00%
Commissioning	2020	2020		
Grant Obtention Date	02/08/2017	02/08/2017		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Main onshore section	90MW=45MW Kipoi+45MW Fier	1,200	773	90	0
Offshore section		900	105		0
Total			878	90	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Please find enclosed document entitled TYNDP 2020_TAP_Justification PCI.

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	N/A

Expected Gas Sourcing

Caspian Region

Comments about the Third-Party Access Regime

The initial capacity is exempted from TPA. Expansion capacity is subject to TPA and will be offered to the market via market tests, from no later than start of operations and subsequently every two years. In this regard, please note enclosed the exemption related materials.

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	TAP will contribute to the security and diversity of Europe's energy supply by connecting to existing gas networks and will allow gas to flow directly from the Caspian basin into European markets. TAP will be providing the necessary infrastructure to transport gas from the Shah Deniz field in Azerbaijan by the most direct route to Southern Europe.

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Host-government agreement between TAP and Greece	The HGA is designed to fill legal, regulatory and fiscal caviats to mitigate commercial risks and thereby provide the necessary investor protection to ensure that the project is built and enable construction and operation in accordance with high standards	Yes	26/06/2013
Inter-governmental Agreements (only applicable for import pipeline projects)	An IGA between Italy, Greece and Albania has formalized the state parties' support for the TAP project, ensure cross-country harmonization of standards in order to facilitate the implementation of TAP and provide the necessary investor protection measure	Yes	13/02/2013
Host-government agreement between TAP and Albania	The HGA is designed to fill legal, regulatory and fiscal caviats to mitigate commercial risks and thereby provide the necessary investor protection to ensure that the project is built and enable construction and operation in accordance with high standards	Yes	05/04/2013

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	Yes
Grants for studies amount	<i>Mln EUR 14.0</i>
Grants for works	No
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	No
Comments	
General Comments	<i>Regarding CEF, TAP project requested EUR 14 018 347 in 2016, amount which was granted. In 2017, TAP requested EUR 3 314 317, amount which was not granted. EIB funding does not qualify as a 'funding programme'.</i>

CNG filling station system development (CroBlueCorr project)

ETR-N-898	Project	Energy Transition Related Project	Non-FID
Update Date	10/06/2020		Advanced
Description	Plinacro is planning to initiate activities to encourage the construction of compressed natural gas filling stations (CroBlueCorr project) at 11 locations of petrol stations on motorways and other main traffic routes in Croatia. Initially, funds should be provided for 10 connections to the high-pressure transmission system.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	Plinacro Ltd
	Operator	Plinacro Ltd
	Host Country	Croatia
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		03/2021
Feasibility	04/2021	10/2021
FEED	11/2021	04/2022
Permitting	05/2022	12/2022
Supply Contracts		10/2022
FID		06/2022
Construction	01/2023	12/2025
Commissioning	2026	2026
Grant Obtention Date		



Compressor station 1 at the Croatian gas transmission system

TRA-F-334	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	Construction of such facilities is necessary due to the opening of the gas market, as well as providing sufficient transmission capacities and natural gas delivery pressure conditions and for development of the gas market in Croatia and the neighbouring countries. Compressor stations will significantly increase efficiency of the Croatian gas transmission system. Compressor stations are integral part of the transmission system, integrated in the system, primarily in a manner to increase the flexibility of managing the existing transmission capacities of the system, and to provide rational increase of transmission capacities according to user needs, that is, the requirements of the market and to satisfy market conditions arising from the application of new legal regulation.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Dravaszerdahely	Plinacro Ltd	2019	HR	HU	13.60 GWh/d

Sponsors		General Information		NDP and PCI Information	
<div>Plinacro</div> <div><div></div><div>100%</div></div>	Promoter	<i>Plinacro Ltd</i>	Part of NDP	<i>Yes (2018-2027)</i>	
	Operator	<i>Plinacro Ltd</i>	NDP Number	5.1	
	Host Country	<i>Croatia</i>	NDP Release Date	<i>15/12/2017</i>	
	Status	<i>Planned</i>	NDP Website	<i>NDP URL</i>	
	Website	<i>Project's URL</i>	Currently PCI	<i>Yes (6.5.5 (2020))</i>	
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	<i>Not Applicable</i>
Feasibility	11/2014	03/2015	Considered Tariff Regime	<i>Not Applicable</i>
FEED	09/2016	05/2017	Applied for Exemption	No
Permitting	06/2015	05/2018	Exemption Granted	No
Supply Contracts		01/2018		
FID		12/2017		
Construction	01/2018	12/2019	Exemption in entry direction	0.00%
Commissioning	2019	2019	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS 1				4	2019
Total				4	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Construction of such facilities is necessary due to the opening of the gas market, wich will have an influence on the market integration. It will provide sufficient transmission capacities and natural gas delivery pressure conditions and for development of the gas market in Croatia and the neighbouring countries wich will have an influence on the Security of supply. Compressor stations will significantly increase efficiency of the Croatian gas transmission system. Compressor stations are integral part of the transmission system, integrated in the system, primarily in a manner to increase the flexibility of managing the existing transmission capacities of the system, and to provide rational increase of transmission capacities according to user needs, that is, the requirements of the market and to satisfy market conditions arising from the application of new legal regulation.

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Project will enable the reverse flow in all interconnection points.
Benefit Description	Construction of such facilities is necessary due to the opening of the gas market, as well as providing sufficient transmission capacities and natural gas delivery pressure conditions and for development of the gas market in Croatia and the neighbouring countries. Compressor stations will significantly increase efficiency of the Croatian gas transmission system.

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	<i>Croatia;#Hungary</i>
Additional Comments	

Financial Assistance

Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Compressor stations 2 and 3 at the Croatian gas transmission system

TRA-N-1057	Project	Pipeline including CS	Non-FID
Update Date	21/09/2020		Advanced
Description	Construction of such facilities is necessary due to the opening of the gas market, as well as providing sufficient transmission capacities and natural gas delivery pressure conditions and for development of the gas market in Croatia and the neighbouring countries. Compressor stations will significantly increase efficiency of the Croatian gas transmission system. Compressor stations are integral part of the transmission system, integrated in the system, primarily in a manner to increase the flexibility of managing the existing transmission capacities of the system, and to provide rational increase of transmission capacities according to user needs, that is, the requirements of the market and to satisfy market conditions arising from the application of new legal regulation.		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
Plinacro	100%	Promoter	Plinacro Ltd	Part of NDP	Yes (2018-2027)
		Operator	Plinacro Ltd	NDP Number	5.3 and 5.4
		Host Country	Croatia	NDP Release Date	15/12/2017
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.26.1.3 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	06/2025	12/2025
FEED	01/2026	06/2026
Permitting	06/2025	06/2026
Supply Contracts		06/2026
FID		01/2027
Construction	01/2027	12/2029
Commissioning	2029	2029
Grant Obtention Date	25/04/2016	25/04/2016

Third-Party Access Regime	
Considered TPA Regime	Not Applicable
Considered Tariff Regime	Not Applicable
Applied for Exemption	Not Relevant
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Compressor station 2	Project is at early stage of development. Compressor power will be determined in the feasibility phase.	0	0	10	2029
Compressor station 3	Project is at early stage of development. Compressor power will be determined in the feasibility phase.	0	0	10	2029
Total			0	20	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Construction of such facilities is necessary due to the opening of the gas market, wich will have an influence on the market integration. It will provide sufficient transmission capacities and natural gas delivery pressure conditions and for development of the gas market in Croatia and the neighbouring countries wich will have an influence on the Security of supply. Compressor stations will significantly increase efficiency of the Croatian gas transmission system. Compressor stations are integral part of the transmission system, integrated in the system, primarily in a manner to increase the flexibility of managing the existing transmission capacities of the system, and to provide rational increase of transmission capacities according to user needs, that is, the requirements of the market and to satisfy market conditions arising from the application of new legal regulation.

Delays since last TYNDP
Delay Since Last TYNDP
Delay Explanation

Expected Gas Sourcing
Caspian Region, Russia, LNG (HR)

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Projects will enable the reverse flow in all interconnection point
Benefit Description	Construction of such facilities is neccessary due to the opening of the gas market, as well as providing sufficient transmission capacities and natural gas delivery pressure conditions and for development of the gas market in Croatia and the neighbouring countries. Compressor stations will significantly increase efficiency of the Croatian gas transmission system.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 4.4</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Gas storage facility Grubisno Polje

UGS-N-347	Project	Storage Facility	Non-FID
Update Date	13/11/2019		Non-Advanced
Description	In undepleted gas field Grubisno Polje, which is reasonably good candidate for gas storage (geological, petrofizic data) additional tests/data should be perform/collect in order to make decision to build a new storage facility. Project consists of two phases. In first phase additional data should be collect as this is small gas field with original gas in place. Additional HD measurements should be done. In second phase new gas storage shall be constructed. According to time schedule it should be finished in 2025/26.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Croatia	Podzemno skladiste plina d.o.o.	2025	STcHR	HR	16.00 GWh/d
	Podzemno skladiste plina d.o.o.	2025	HR	STcHR	23.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
Podzemno skladiste plina d.o.o. 100%	Promoter	Podzemno skladiste plina Ltd	No ((1) the NDP was prepared at an earlier date and the project will be proposed for inclusion in the next NDP)	
	Operator	Podzemno skladiste plina d.o.o.		
	Host Country	Croatia	Part of NDP	
	Status	In Progress	NDP Number	
	Website	Project's URL	NDP Release Date	
			NDP Website	
			Currently PCI	No
			Priority Corridor(s)	NSIE

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2018	Considered TPA Regime	Regulated
Feasibility	01/2019	06/2019	Considered Tariff Regime	Regulated
FEED	07/2019	12/2019	Applied for Exemption	No
Permitting	01/2020	07/2020	Exemption Granted	No
Supply Contracts		12/2020		
FID		12/2020	Exemption in entry direction	0.00%
Construction	01/2021	07/2021	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date	31/03/2017	31/03/2017		

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
Grubisno Polje	Depleted Field	Yes	Phase1	60	2.4	1.7	90	No comment.	2025

Fulfilled Criteria	
Specific Criteria Fulfilled	Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility
Specific Criteria Fulfilled Comments	

Delays since last TYNDP
Delay Since Last TYNDP
Delay Explanation

Comments about the Third-Party Access Regime
Act on gas market defines regulated TPA to storage

Benefits	
Main Driver	Others
Main Driver Explanation	Consumption profiles become demanding due to consumption decreasing and peak consumption increasing. Existing storage facility Okoli has adequate working volume but withdrawal curve is unfavorable (strong decline after 50% of occupancy)
Benefit Description	

Barriers	
Barrier Type	Description
Regulatory	Maximum allowed revenue (revenue cap)
Permit Granting	ongoing for phase one
Political	Project is submitted to national authority for issuing strategic status
Financing	Availability of funds and associated conditions
Market	Lack of market maturity
Financing	Amortization rates

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Interconnection Croatia/Serbia (Slobdnica-Sotin-Bačko Novo Selo)

TRA-A-70	Project	Pipeline including CS	Non-FID
Update Date	18/02/2020		Advanced
Description	Covering Croatia and Serbia, connecting the Croatian gas transmission system to the Serbian gas transmission system Slobodnica - Sotin (Croatia) - Bačko Novo Selo (Serbia). First phase would be Negoslavci-Sotin-Bačko Novo Selo plus the pipeline Osijek-Vukovar. It will be new interconnection, new entry point and transmission route for the needs of Serbia; it will be SoS and diversification of supply route for Serbia. It will enable Serbia access to Croatian UGS and enable supply of gas from Austria, Slovenia and Italy by the Croatian gas transmission system.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Slobodnica - Sotin (HR) / Bačko Novo Selo (RS)	Plinacro Ltd	2023	HR	RS	42.11 GWh/d
	Plinacro Ltd	2023	RS	HR	54.34 GWh/d
	Plinacro Ltd	2027	HR	RS	197.89 GWh/d
	Plinacro Ltd	2027	RS	HR	185.66 GWh/d

Sponsors		General Information		NDP and PCI Information	
Croatian section		Promoter	Plinacro Ltd	Part of NDP	Yes (2018-2027)
Plinacro	100%	Operator	Plinacro Ltd	NDP Number	1.30, 1.31, 1.22
Serbian section		Host Country	Croatia	NDP Release Date	15/12/2017
Srbijagas	100%	Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	01/2021	01/2021
FEED	01/2021	01/2025
Permitting	01/2010	01/2025
Supply Contracts		01/2022
FID		01/2022
Construction	01/2022	01/2027
Commissioning	2023	2027
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Negoslavci-Sotin		800	10		2023
Osijek-Vukovar		500	11		2022
Slobodnica-Negoslavci		800	87		2027
Sotin- Bačko Novo Selo		800	5		2023
Total			113		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region, LNG (HR), it will be gas from Croatian transport system, Croatian UGS

Benefits	
Main Driver	Market Demand
Main Driver Explanation	will integrate Serbia with the new supply route receiving gas from Croatia gas transmission system which will enable it to be supplied from all other neighbouring markets (Hungary, Austria, Italy). This project is an interconnection of the gas systems of Croatia and Serbia on the route Slobodnica-Sotin-Bačko Novo Selo and it is primarily intended for transport of LNG from the terminal on the island of Krk as well as from other possible routes and directions towards SEE countries. The most important impacts and benefits of the project: 1) It provides viable and secure supply of SEE countries, which are heavily dependent on the Russian gas and jeopardized by the Russian giving up on the South Stream project and the announcement regarding termination of gas transmission via Ukraine after 2019 2) It provides diversification of supply (also in case the previously mentioned threats fail to occur) and thereby competitiveness and lower prices for users 3) It facilitates market integration
Benefit Description	It will be new entry point and transmission route for the needs of Serbia

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Interconnection Croatia/Slovenia (Umag-Koper)

TRA-N-336	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	This pipeline is a regional link to Croatian and Slovenian system. Relevant gas pipeline is significant for the regional security of supply, especially in the light of the fact that these parts of Croatian and Slovenian markets are allocated at the ends of the associated gas transportation systems. It is also important for the competitiveness and market competition.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Sečovlje (SI) / Plovanija (HR)	Plinacro Ltd	2029	HR	SI	16.20 GWh/d
	Plinacro Ltd	2029	SI	HR	16.20 GWh/d

Sponsors	General Information	NDP and PCI Information
Plinacro100%	PromoterPlinacro Ltd	Part of NDPYes (2018-2027)
	OperatorPlinacro Ltd	NDP Number1.37
	Host CountryCroatia	NDP Release Date15/12/2017
	StatusPlanned	NDP WebsiteNDP URL
	WebsiteProject's URL	Currently PCINo
		Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	01/2027	01/2027	Considered Tariff Regime	Regulated
FEED	01/2028	01/2028	Applied for Exemption	No
Permitting	01/2026	01/2028	Exemption Granted	No
Supply Contracts		01/2028		
FID		01/2028	Exemption in entry direction	0.00%
Construction	01/2028	01/2029	Exemption in exit direction	0.00%
Commissioning	2029	2029		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
Umag - Plovanija (HR)- Koper (SI)	Croatian part is 8 km	300	8		2029	
Total			8			

Expected Gas Sourcing	
Russia, LNG (HR)	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Ionian Adriatic Pipeline

TRA-A-68	Project	Pipeline including CS	Non-FID
Update Date	12/08/2020		Advanced
Description	The pipeline will cross the territory along the Adriatic coast from Fieri in Albania via Montenegro to Split in Croatia and will be linked to the existing Croatian gas transmission system (main direction Bosiljevo – Split). The Ionian-Adriatic Pipeline will have an influence on the gasification for the entire region. The IAP project is based on the idea of connecting the existing Croatian gas transmission system, via Montenegro and Albania, with the TAP gas pipeline system (Trans Adriatic Pipeline). An exit to Bosnia and Herzegovina is planned. Plinacro is the project promoter for submitting the project to TYNDP on behalf of Plinacro, Montenegro Bonus and Albga.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Ionic-Adriatic Pipeline - IAP / AB	Plinacro Ltd	2025	HR/IAP	AL	33.30 GWh/d
Ionic-Adriatic Pipeline - IAP / ME	Plinacro Ltd	2025	HR/IAP	ME	16.60 GWh/d
	Plinacro Ltd	2023	HR/IAP	HR	83.20 GWh/d
			Comment: IT is Exit Croatia		
Ionic-Adriatic Pipeline - IAP / Split - HR	Plinacro Ltd	2025	HR	HR/IAP	116.60 GWh/d
			Comment: It is exit to Croatia		
	Plinacro Ltd	2025	IB-HRi/IAP	HR/IAP	166.50 GWh/d
			Comment: The entry pont from TAP (Fieri)		
Ionic-Adriatic Pipeline - IAP Entry	Plinacro Ltd	2025	AL/TAP	IB-HRi/IAP	166.50 GWh/d

Sponsors		General Information		NDP and PCI Information	
Albania		Promoter	<i>Plinacro Ltd</i>	Part of NDP	<i>Yes (2018-2027)</i>
Albgaz	100%	Operator	<i>Plinacro Ltd</i>	NDP Number	<i>1.12, 1.25-1.27, 5.5</i>
Croatia		Host Country	<i>Croatia</i>	NDP Release Date	<i>15/12/2017</i>
Plinacro	100%	Status	<i>Planned</i>	NDP Website	<i>NDP URL</i>
Montenegro		Website	<i>Project's URL</i>	Currently PCI	<i>No</i>
Montenegro Bonus	100%			Priority Corridor(s)	<i>NSIE, SGC</i>

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		<i>01/2008</i>	Considered TPA Regime	<i>Regulated</i>
Feasibility	<i>05/2012</i>	<i>02/2014</i>	Considered Tariff Regime	<i>Regulated</i>
FEED	<i>01/2017</i>	<i>01/2023</i>	Applied for Exemption	<i>No</i>
Permitting	<i>07/2009</i>	<i>01/2023</i>	Exemption Granted	<i>No</i>
Supply Contracts		<i>01/2022</i>		
FID		<i>01/2022</i>	Exemption in entry direction	<i>0.00%</i>
Construction	<i>01/2022</i>	<i>01/2025</i>	Exemption in exit direction	<i>0.00%</i>
Commissioning	<i>2023</i>	<i>2025</i>		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
IAP - Croatian part	2.5 billion m3 yearly	800	250	1	2023	
IAP- Albanian part	1 billion m3 yearly	800	180		2025	
IAP- Montenegro part	0.5 billion m3 yearly	800	110		2025	
Total			540	1		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	
Delays since last TYNDP	
Delay Since Last TYNDP	2 years delay
Delay Explanation	Dynamics of project implementation depends on the dynamics of TAP project implementation.
Expected Gas Sourcing	
Caspian Region, LNG (HR)	
Comments about the Third-Party Access Regime	
TPA regime is not defined yet	
Benefits	
Main Driver	Others
Main Driver Explanation	Gasification of Albania and Montenegro and southern part of Croatia and Bosnia and Herzegovina. Diversification of supply, Security of Supply
Benefit Description	Security of Supply, Reverse flow, Integration of market areas (market integration benefits for Croatia and region (Albania, Montenegro, Bosnia and Herzegovina and neighbouring countries), diversification of sources, diversification of routes, N-1 criteria completion on national and regional level, support back-up to renewables
Barriers	
Barrier Type	Description
Regulatory	Tariffs which depends on the Business Model
Political	The pipeline passes by EU country and Non EU countries.
Financing	Availability of funds and associated conditions

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of Understanding	Signed between Plinacro and TAP	Yes	05/02/2011
Ministerial declaration	signed by the Ministries of enegry of Albania, Montenegro and Croatia, from dezember 2008, Bosnia and Herzegovina signed as well	Yes	27/09/2007
Agreement to extend the Memorandum of Understanding	Signed between Plinacro and TAP	Yes	25/02/2014
Letter of Itent	Signed by Plinacro, Montenegro Bonus and Albgaz	Yes	15/02/2018
Memorandum of Understanding and Cooperation	signed by the Ministry of Energy and Industry of Republic of Albania, Ministry Foreign Trade and Economic Relations of Bosnia and Herzegovina, Ministry of Economy of the Republic of Croatia and Ministry of Economy of Montenegro	Yes	26/08/2016

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>Yes</i>
			<i>WBIF - EU preaccession Fund:</i>
			<i>-Comprehensive Feasibility Study – 3,5 mil EUR</i>
			<i>-Gas Master Plan MNE – 0,5 mil EUR</i>
			<i>-Gas Master Plan ALB – 1,2 mil EUR</i>
			<i>-Main Design (Preliminary Design for MNE and ALB) - 2, 5 mil EUR</i>
		Comments	
		General Comments	

Városföld CS

TRA-A-123	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	An additional compressor unit (5.7 MW) at the existing compressor station at Városföld necessary to ensure adequate pressure for the transportation along the HU section of the Corridor.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	NDP and PCI Information
FGSZ Ltd. 100%	Promoter Operator Host Country Status Website	FGSZ Ltd. FGSZ Ltd. Hungary Planned Project's URL
		Part of NDP NDP Number NDP Release Date NDP Website Currently PCI Priority Corridor(s)
		Yes (Hungarian TYNDP 2018) 12.10. 31/01/2019 NDP URL Yes (6.24.4.3 (2020))

Schedule	Start Date	End Date	Third-Party Access Regime
Pre-Feasibility		06/2014	Considered TPA Regime
Feasibility	09/2016	07/2017	Considered Tariff Regime
FEED	12/2019	01/2020	Applied for Exemption
Permitting	02/2020	08/2020	Exemption Granted
Supply Contracts		05/2020	
FID		10/2019	Exemption in entry direction
Construction	09/2020	12/2022	Exemption in exit direction
Commissioning	2022	2022	
Grant Obtention Date	14/10/2016	14/10/2016	

Pipelines and Compressor Stations						
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Városföld CS					6	0
		Total			6	
Fulfilled Criteria						
Specific Criteria Fulfilled		Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas				
Specific Criteria Fulfilled Comments		The compressor help to increase capacity of Vecsés 4 (MGT>FGSZ), Vecsés 4 (FGSZ>MGT, Balassagyarmat (SK>HU) and Balassagyarmat (HU>SK).				
Delays since last TYNDP						
Delay Since Last TYNDP		0				
Delay Explanation						
Expected Gas Sourcing						
Caspian Region, Black Sea						
Benefits						
Main Driver		Market Demand				
Main Driver Explanation						
Benefit Description		o The Hungarian projects taken as a whole main aim, is to enhance the flexibility of the Hungarian transmission system by connecting to neighbouring systems, ensuring reserves flow availability, and guaranteeing flow deliverability which will enhance the transmission systems security of supply position along with helping with further market integration.				

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date	<i>16/10/2015</i>	Grants for studies amount	<i>Mln EUR 2.3</i>
Website		Grants for works	<i>No</i>
Countries Affected	<i>Hungary, Romania</i>	Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Ervia Cork CCUS

ETR-N-22	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	This project will involve the development of the necessary infrastructure to transport captured CO2 from a CCUS cluster of heavy industry (oil refinery) and two gas fired CCGTs to enable the CO2 to be transported either to local geological store or if unavailable to another store managed by another CCUS project developer. The import infrastructure and geological store will also be made available as a backup storage facility to other CCUS developments to reduce the risk of cross chain default or as a market maker. Cork has unique attributes which combine to provide an opportunity for the first full chain CCUS project within the European Union. The soon to be depleted Kinsale Energy offshore gas field is due to be decommissioned in 2020/2021. This low pressure field on first look by the SEAI and GSI in 2008 looks to be a suitable reservoir for CO2 storage. Further analysis will take place over the coming years to ensure that it is a suitable, secure storage site.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
Ervia Cork CCUS	100%	
	Promoter	Ervia (parent company of Gas Networks Ireland)
	Operator	Ervia
	Host Country	Ireland
	Status	Planned
	Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		07/2019
Feasibility	07/2019	07/2020
FEED	07/2020	11/2022
Permitting	02/2022	05/2023
Supply Contracts		05/2023
FID		04/2024
Construction	04/2024	12/2028
Commissioning	2028	2028
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Ervia Cork CCUS	<p><i>This project will involve dedicated CO2 pipelines which will transport CO2 from 3 sources initially, from the combustion of gas, for the purpose of permanent geological storage of CO2 pursuant to Directive 2009/31/EC. This will include the repurposing of existing onshore /offshore gas pipelines and the construction of new dedicated CO2 pipelines. In order to provide backup storage for other CCUS projects, will involve the facilities for liquefaction, gasification and buffer storage of CO2 at port facilities in order to prepare CO2 for transportation by ship when either importing or exporting CO2. To ensure the safe and secure operation of the CO2 infrastructure a comprehensive utility system in line with existing gas safety frameworks will be installed and operated during the lifetime of this project. This will encompass the pipeline transportation, compression, liquefaction and gasification processes. This project will store first 60MT of CO2 at a rate of 2.5 MT/yr.</i></p>		2028



GNI Renewable Gas Central Grid Injection Project

ETR-N-20	Project	Energy Transition Related Project	Non-FID
Update Date	28/10/2019		Advanced
Description	<p>Gas Networks Ireland (GNI) has a strategic plan to achieve 20% renewable gas on the network by 2030. To achieve this, GNI is already progressing with the GRAZE Gas project which has been shortlisted for funding under the Irish Government’s Climate Action Fund. This is a pilot project comprising of one Central Grid Injection (CGI) facility (for injection of agri-based renewable gas onto the gas network), a logistics element, two CNG stations and a vehicle fund.</p> <p>The Renewable Gas Central Grid Injection Project will involve the construction of 5 further agri-based CGI facilities. These facilities will provide centralised locations for renewable gas producers from local AD plants (within a 50 km radius) to inject into GNI’s transmission system. This will help enable the rollout of renewable gas on a national basis and contribute significantly to the decarbonisation of Ireland’s agricultural sector as well as the national gas network.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Renewable Gas Ireland (IE)	Gas Networks Ireland	2023	NPcIE	IE	0.50 GWh/d
	Comment: Total project capacity of 0.5 GWh/d				
	Gas Networks Ireland	2024	NPcIE	IE	1.30 GWh/d
	Comment: Total project capacity of 1.8 GWh/d				
	Gas Networks Ireland	2025	NPcIE	IE	2.00 GWh/d
	Comment: Total project capacity of 3.8 GWh/d				
	Gas Networks Ireland	2026	NPcIE	IE	2.10 GWh/d
	Comment: Total project capacity of 5.9 GWh/d				
	Gas Networks Ireland	2027	NPcIE	IE	1.30 GWh/d
	Comment: Total project capacity of 7.2 GWh/d				
	Gas Networks Ireland	2028	NPcIE	IE	0.50 GWh/d
	Comment: Total project capacity of 7.7 GWh/d				

Sponsors		General Information	
Gas Networks Ireland	100%	Promoter	Gas Networks Ireland
		Operator	Gas Networks Ireland
		Host Country	Ireland
		Status	Planned
		Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		09/2019
Feasibility	10/2019	06/2020
FEED	05/2021	06/2024
Permitting	05/2021	06/2024
Supply Contracts		
FID		07/2022
Construction	08/2022	10/2025
Commissioning	2023	2028
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
GNI Renewable Gas Central Grid Injection Project	The first CGI facility will be commissioned in 2023, with an initial capacity of 0.5 GWh/d. A total of 5 CGI physical entry points will come on stream with an eventual entry capacity of 7.7 GWh/d by 2028.		2023

Shannon LNG Terminal and Connecting Pipeline

LNG-A-30	Project	LNG Terminal	Non-FID
Update Date	12/09/2019		Advanced
Description	<p>Shannon LNG proposes to construct a liquefied natural gas (LNG) terminal on the southern shore of the Shannon Estuary in County Kerry, Ireland. Shannon LNG also has obtained all of the major permits and consents for the LNG project including planning permission for the terminal and 26 KM export pipeline to the national gas grid, pipeline rights of way and foreshore leases and licenses.</p> <p>The Shannon LNG terminal is designed and permitted to export to the national gas grid up to 26.8 million normal cubic metres per day of natural gas. It is currently envisaged the project will have initial deliverability of 16.1 normal million cubic metres per day.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Shannon LNG	Shannon LNG	2022	LNG_Tk_IE	IE	86.00 GWh/d
	Comment: Consistent with 2.8 bcm/year under 'Type Specific Informatkon'				
	Shannon LNG	2025	LNG_Tk_IE	IE	64.00 GWh/d
	Comment: Cumulatively with first increment = 150 GWh/day = 480 mmscf/day				
	Shannon LNG	2029	LNG_Tk_IE	IE	100.00 GWh/d
	Comment: Cumulatively with first and second increments = 250 GWh/day = apx 800 mmscf/d				

Sponsors		General Information		NDP and PCI Information	
Shannon LNG Ltd	100%	Promoter	Shannon LNG Ltd	Part of NDP	Yes (Gas Networks Ireland 2018 Network Development Plan)
		Operator	Shannon LNG	NDP Number	5.4
		Host Country	Ireland	NDP Release Date	21/12/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (5.3 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		05/2006	Considered TPA Regime	Negotiated
Feasibility	05/2006	09/2007	Considered Tariff Regime	Negotiated
FEED	01/2020	06/2020	Applied for Exemption	Yes
Permitting	09/2007	01/2020	Exemption Granted	Yes
Supply Contracts		10/2020		
FID		03/2020	Exemption in entry direction	0.00%
Construction	04/2020	06/2022	Exemption in exit direction	0.00%
Commissioning	2022	2029		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Shannon LNG Terminal and connecting pipeline	No	Initial	2.8	265,000	7.70	200,000	Initial	2022	100
Shannon LNG Terminal and connecting pipeline	No	Phase 2	2.1	0	5.76	0	Phase 2	2025	100
Shannon LNG Terminal and connecting pipeline	No	Phase 3	3.3	0	9.00	0	Phase 2	2029	100

Pipelines and Compressor Stations							
Pipeline Section	Pipeline Comment			Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Shannon Pipeline	The pipeline is part of the core project and will connect the LNG terminal to the National Gas Grid.						0
Total							

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Ireland, up to 2015, imported over 90% of gas from GB – and relied on GB infrastructure to meet the N-1 standard on a regional basis. Currently this dependence is about 40% because of Corrib gas coming on stream. According to Gaslink Network Development Plan 2018, by 2026/27 Corrib gas supplies will have declined to less than 30% of initial peak production levels. The anticipated reduction in Corrib and Inch gas supplies will re-establish the Moffat Entry Point as the dominant supply point from 2018/19. The Shannon LNG project, at full capacity, would allow Ireland to pass the N-1 test enhancing security of supply. The LNG terminal will also allow for serving the Northern Ireland gas market. An LNG terminal in Ireland will also mean that, in the long term, Ireland will have two major supply import routes (i) pipeline imports from GB and (ii) LNG imports through the Shannon LNG terminal providing additional sustainability and competition in the market.

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	Previously we indicated a construction complete date of 1/4/2022. We are currently revising this with engineers and our current estimate is 30/6/2022

Expected Gas Sourcing	
LNG (LNG,QA,US), The world LNG market	

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	Ireland, up to 2015, imported over 90% of gas from the UK - and relied on UK infrastructure to meet the N-1 standard on a regional basis. Currently this dependence is about 40% because of Corrib gas. According to Gaslink Network Development Plan 2018, by 2026/27 Corrib gas supplies will have declined to less than 30% of initial peak production levels. The anticipated reduction in Corrib and Inch gas supplies will re-establish the Moffat Entry Point as the dominant supply point from 2018/19. The Shannon LNG project, at full capacity, would allow Ireland to pass the N-1 test - enhancing security of supply. The initial phase of the Shannon LNG project (16.1 mcm/d) will be capable of supplying approximately 60% of forecast Irish peak demand (26.6 mcm/d) for 2020/2021. The proposed LNG terminal will increase market integration and system flexibility by providing a new gas supply route to Ireland - enhancing Ireland's - and Europe's, long-term diversity of entry points with new source.
Benefit Description	The Shannon LNG project will enhance competition in the gas market in Ireland by providing a new supply source. The project supports reduction in emissions particularly in the power generation sector. The project can provide security and diversity of supply for Northern Ireland. Although, politically, Northern Ireland is part of the UK, there is a single Ireland/Ni electricity market. A new source of gas in Ireland has potential to enhance West to East gas movement.

Barriers	
Barrier Type	Description
Others	Project was granted extension of planning permission by the Planning Authority (An Bord Pleanala) - but was then subject to Judicial Review taken by an environmental group.
Regulatory	Low rate of return
Regulatory	Lack of proper transposition of EU regulation
Financing	Availability of funds and associated conditions

CBCA	
Decision	<i>No, we have not submitted an investment request yet, but we do plan to submit it</i>
Submissin Date	<i>01/04/2020</i>
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	<i>Shannon LNG did receive a CBCA decision in connection with the early build of the Shannon Pipeline. The CBCA involved agreement by the CRU in Ireland, Utility Regulator in Northern Ireland and Ofgem in the UK.</i>

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Additional Southern developments

TRA-N-9	Project	Pipeline including CS	Non-FID
Update Date	17/09/2020		Non-Advanced
Description	The project consists in new on-shore and off-shore pipelines and in development of compressor stations along the center-south of Italy to permit the increase of transport capacity at new or existing Entry Points in south Italy.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Italy Mezzogiorno Import Fork	Snam Rete Gas S.p.A.	2034	IB-ITs	IT	264.00 GWh/d
	Comment: Considering that the promoter submitted the project as relevant for TYNDP according to its national development plan, ENTSOG considers the capacity increment as relevant for modelling purposes in the final year of the publication (2035).				
Italy Southern Import Fork	Snam Rete Gas S.p.A.	2034	IB-ITi	IB-ITs	264.00 GWh/d
	Comment: Considering that the promoter submitted the project as relevant for TYNDP according to its national development plan, ENTSOG considers the capacity increment as relevant for modelling purposes in the final year of the publication (2035).				

Sponsors		General Information		NDP and PCI Information	
Snam Rete Gas s.p.a.	100%	Promoter	Snam Rete Gas S.p.A.	Part of NDP	Yes (Snam Rete Gas TYNDP 2017-2026)
		Operator	Snam Rete Gas S.p.A.	NDP Number	RN_07
		Host Country	Italy	NDP Release Date	30/11/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2034	2034
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Section 1		800	255	0	0
Section 2		1,050	115	0	0
Section 3		1,200	590	0	0
Section 4		0	0	60	0
Total			960	60	

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	Security of Supply, Market integration, Diversification of sources, N-1 National (ITALY), Back-up for renewables, Power-to-gas, Market Integration (Increase of competition), Flexibility of the system.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Biomethane productions interconnection

TRA-N-1265	Project	Pipeline including CS	Non-FID
Update Date	17/09/2020		Non-Advanced
Description	The project consists of the interconnections of the new biomethane productions to existing Snam Rete Gas network that will be commissioned until 2022.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Forecast Production Italia	Snam Rete Gas S.p.A.	2022	NPcIT	IT	39.60 GWh/d

Sponsors		General Information		NDP and PCI Information	
Snam Rete Gas S.p.A.	100%	Promoter	Snam Rete Gas S.p.A.	Yes (en-year development plan of the natural gas transmission network 2018-2027)	
		Operator	Snam Rete Gas S.p.A.		
		Host Country	Italy	NDP Number	NA
		Status	Planned	NDP Release Date	30/11/2018
		Website		NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2022	2022
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
All the project	The present information represent the aggregate of all the interconnections that compose the project	100	21		2022
Total			21		

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

CNG and L-CNG stations

ETR-F-516	Project	Energy Transition Related Project	FID
Update Date	15/09/2020		Advanced
Description	The project consist in the development of about 150 CNG and L-CNG stations along Italy in order to facilitate the energy transition in the transport sector		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
Snam4Mobility S.p.A.	100%	Promoter Snam4mobility
		Operator Snam4Mobility S.p.A.
		Host Country Italy
		Status In Progress
		Website Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		11/2018
Construction		
Commissioning	2022	2022
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
All the project	The 150 CNG and L-CNG stations will be able to deliver up to 910 GWh/y		2022

Development for new import from the South (Adriatica Line)

TRA-N-7	Project	Pipeline including CS	Non-FID
Update Date	17/09/2020		Non-Advanced
Description	The project consists in new on-shore pipeline and compressor station along the center-south of Italy that will allow the increase of transport capacity at new or existing Entry Points in south Italy.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Italy Mezzogiorno Import Fork	Snam Rete Gas S.p.A.	2026	IB-ITs	IT	264.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
Snam Rete Gas s.p.a. 100%	Promoter	Snam Rete Gas S.p.A.	Yes (Ten-year development plan of the natural gas transmission network 2018-2027)	
	Operator	Snam Rete Gas S.p.A.		
	Host Country	Italy	NDP Number	RN_04
	Status	Planned	NDP Release Date	30/11/2018
	Website	Project's URL	NDP Website	NDP URL
			Currently PCI	Yes (7.3.4 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	01/2009	05/2011
Permitting	01/2009	09/2023
Supply Contracts		09/2023
FID		01/2021
Construction	09/2023	01/2026
Commissioning	2026	2026
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Adriatica Line		1,200	430	33	2026
Total			430	33	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	please find enclosed

Benefits	
Main Driver	Others
Main Driver Explanation	
Benefit Description	Security of supply, diversification of sources, diversification of routes, N-1 National (Italy), back-up for renewables, power-to-gas, market Integration (Increase of competition) and flexibility of the system.

CBCA	
Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	Yes
Comments	
General Comments	

Export to Malta

TRA-N-1063	Project	Pipeline including CS	Non-FID
Update Date	17/09/2020		Advanced
Description	The project consists of the creation of an infrastructure that allows an export capacity from Italy to Malta of about 5 Mcm/day		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Italy Mezzogiorno Import Fork	Snam Rete Gas S.p.A.	2024	IT	IB-ITs	56.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Snam Rete Gas S.p.A.	100%	Promoter	Snam Rete Gas S.p.A.	Part of NDP	No ((1) the NDP was prepared at an earlier date and the project will be proposed for inclusion in the next NDP)
		Operator	Snam Rete Gas S.p.A.		
		Host Country	Italy		
		Status	Planned	NDP Number	
		Website		NDP Release Date	
				NDP Website	
				Currently PCI	No
			Priority Corridor(s)	SGC	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2015	Considered TPA Regime	Regulated
Feasibility	04/2017	12/2017	Considered Tariff Regime	Regulated
FEED	09/2020	12/2022	Applied for Exemption	Yes
Permitting	09/2020	12/2022	Exemption Granted	Yes
Supply Contracts		01/2022		
FID		09/2020	Exemption in entry direction	0.00%
Construction	01/2023	01/2024	Exemption in exit direction	0.00%
Commissioning	2024	2024		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
all the project	The project is related to the realization of few meters of pipeline and of a regulation plant				2024

Total

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

GALSI Pipeline Project

TRA-A-12	Project	Pipeline including CS	Non-FID
Update Date	11/10/2019		Advanced
Description	Gas pipeline project aiming to create a new link between Algeria and Italy via Sardinia. It will be the first direct route between Algeria and Italy transporting 8 billions mc of gas. From El Kala (Koudiet Draouche) in Algeria an offshore section will cross the Mediterranean Sea going down to 2.800 m of depth getting to Porto Botte in Sardinia (which will be the entry point in the Italian RNG - Rete Nazionale Gasdotti or Gas National Network). From Porto Botte an onshore section will cross Sardinia towards Olbia in the north of the island (with 39 offtake point along the route to finally bring the long awaited gas to Sardinian users and thus remove the isolation of Sardinia from RNG). From Olbia then another offshore section of the pipeline will cross the Tyrrhenian Sea at around 800 m of depth to get to Piombino in Tuscany where the pipeline will be connected with the existing Rete Nazionale Gasdotti of Snam Rete Gas.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Koudiet Eddraouch (Galsi) (DZ)	Galsi S.p.A.	2022	DZ	DZi/GAL	258.00 GWh/d
		Comment: Entry of GALSI International Section Increment is equivalent to 8 bcm/y			
Olbia (Galsi)	Galsi S.p.A.	2022	ITs	ITn/GAL	258.00 GWh/d
		Comment: Increment is equivalent to 8 bcm/y			
	Galsi S.p.A.	2022	ITn/GAL	ITs	32.00 GWh/d
Piombino (Galsi)		Comment: Equivalent to 1 bcm/y			
	Galsi S.p.A.	2022	ITn/GAL	IB-ITs	226.00 GWh/d
Porto Botte (Galsi)		Comment: Equivalent to 7 bcm/y			
	Galsi S.p.A.	2022	DZi/GAL	ITs	258.00 GWh/d
		Comment: Exit of GALSI International Section Increment is equivalent to 8 bcm/y			

Sponsors		General Information		NDP and PCI Information	
Sonatrach	47%	Promoter	<i>Galsi S.p.A.</i>	Part of NDP	<i>Yes (SNAM NDP 2018-2027)</i>
Edison SpA	23%	Operator	<i>Galsi S.p.A.</i>	NDP Number	<i>n.a.</i>
Enel Produzione SpA	17%	Host Country	<i>Italy</i>	NDP Release Date	<i>31/12/2018</i>
Hera SpA	11%	Status	<i>Planned</i>	NDP Website	<i><u>NDP URL</u></i>
		Website	<i><u>Project's URL</u></i>	Currently PCI	<i>No</i>
				Priority Corridor(s)	<i>NSIW</i>

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	<i>Not Applicable</i>
Feasibility	<i>01/2006</i>	<i>12/2006</i>	Considered Tariff Regime	<i>Not Applicable</i>
FEED	<i>01/2007</i>	<i>12/2010</i>	Applied for Exemption	<i>Not Relevant</i>
Permitting	<i>07/2008</i>	<i>11/2018</i>	Exemption Granted	<i>Not Relevant</i>
Supply Contracts		<i>11/2020</i>		
FID		<i>11/2020</i>	Exemption in entry direction	<i>0.00%</i>
Construction	<i>12/2020</i>	<i>12/2022</i>	Exemption in exit direction	<i>0.00%</i>
Commissioning	<i>2022</i>	<i>2022</i>		
Grant Obtention Date	<i>13/08/2010</i>	<i>13/08/2010</i>		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
GALSI International Section	The GALSI International Section includes a compression station on the Algerian coast (3x33 MW) and a gas sealine from Algerian coast to South Sardinia coast (Porto Botte, near Cagliari)	660	288	99	0
GALSI Italian Section 1 onshore pipeline crossing Sardinia	The GALSI National Section will become integral part of the Italian National Gas Network, with the Entry Point located at the landfall of the sealine from Algeria in South Sardinia coast (Porto Botte). In Sardinia the project foresees 39 offtake points.	1,219	285		0
GALSI Italian Section 2 sealine Sardinia - Tuscany	This section includes a 285 km sealine from Olbia (Sardinia) - where it will be realized a 2x26 MW compression station - to Piombino (Tuscany) and 3 km onshore pipeline in Tuscany up to the interconnection with existing Snam gas newtwork.	812	288	52	0
Total			861	151	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	12 months
Delay Explanation	

Expected Gas Sourcing

Algeria

Comments about the Third-Party Access Regime

On 29th October 2010, the project has received from the competent Italian Authority (Ministry of the Economic Development) by decree a Priority Allocation right (Allocazione Prioritaria) of the entry capacity at the Porto Botte Entry Point, for 100% of the capacity and for a periofd of 25 years.

Benefits	
Main Driver	Market Demand
Main Driver Explanation	The project has been developed from its start on the basis of the prospected timing of European gas demand growth.
Benefit Description	<p>- The Galsi project will improve security of supply in Italy and Europe, providing for a new and more efficient route for Algerian gas to reach the centre of Italian gas consumption (located in northern Italy) and further on the northern European markets. In the longer term, with the development of new projects interconnecting different gas sources in Africa (e.g. new Algerian shale gas or TSGP project for Nigerian gas), the Galsi pipeline could provide a highly strategic diversification of gas supply routes to European markets and their supply flexibility.</p> <p>- The Galsi project will contribute to the creation of an Italian gas hub for gas supply to Europe which, through the increase of gas liquidity, will enable the export of major gas volumes from Italy to other European markets through the development of reverse flow capacities.</p> <p>- Reduction of GHG emissions; the Galsi project complies with sustainable development guidelines, i.e. the promotion of the substitution of high pollutant fo</p>

Barriers	
Barrier Type	Description
Regulatory	The Italian Section of the project will be ruled under the Italian regulatory framework. The International Section (from Algeria to Italian territorial waters in Sardinia) will be build and operated by Galsi as an independent operator with a tariff agreed between the Company and shippers.
Permit Granting	Permitting process (involved inter alia 2 regions, 9 provinces and 40 townships) substantially completed: environmental permits obtained in 2011 and Authorization Decree by the Ministry of the Economic Development needs only final approval of Tuscany.
Market	The persistent uncertainties in the market scenarios make more complex the finalisation by the Shareholders of the commercial framework of the project, i.e. the definition of suitable terms and conditions for the gas supply and gas transportation agreements, which represents an essential piece for the final investment decision.
Financing	EEPR funds for 120 millions euros were granted by the European Commission with decision on 13th August 2010. This grant was then cancelled with decision on 26th September 2014. Future availability of new European Commission funds would be a key issue for the success of the project.

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Italy – Algeria Inter-Governmental Agreement for Galsi project	Agreement between Italy and Algeria to promote and support the permitting, the construction and the commissioning of the Galsi Pipeline Project.	Yes	14/11/2007

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Gorizia plant upgrade

TRA-N-1227	Project	Pipeline including CS	Non-FID
Update Date	28/09/2020		Non-Advanced
Description	The project consists of the upgrading of Gorizia plant in order to increment the firm bidirectional capacity of the point up to 6 MScm/day (64.74 Gwh/day).		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Gorizia (IT) /Šempeter (SI)	Snam Rete Gas S.p.A.	2026	IT	SI	17.30 GWh/d
	Snam Rete Gas S.p.A.	2026	SI	IT	44.30 GWh/d

Sponsors		General Information		NDP and PCI Information	
Snam Rete Gas S.p.A.	100%	Promoter	Snam Rete Gas S.p.A.	Part of NDP	Yes (Ten-year development plan of the natural gas transmission network 2018-2027)
		Operator	Snam Rete Gas S.p.A.		
		Host Country	Italy	NDP Number	RN_16
		Status	Planned	NDP Release Date	30/11/2018
		Website	Project's URL	NDP Website	NDP URL
				Currently PCI	Yes (6.23 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2021	Considered TPA Regime	Regulated
Feasibility	01/2021	01/2021	Considered Tariff Regime	Regulated
FEED	01/2022	01/2022	Applied for Exemption	No
Permitting	01/2023	01/2023	Exemption Granted	No
Supply Contracts		01/2024		
FID		01/2021	Exemption in entry direction	0.00%
Construction	01/2024	01/2024	Exemption in exit direction	0.00%
Commissioning	2026	2026		
Grant Obtention Date				

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	The project Increases the flexibility and diversification of routes and gas sources and increment the SOS of region and Italian system (N-1).

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Green Crane - Italy

ETR-N-958	Project	Energy Transition Related Project	Non-FID
Update Date	21/09/2020		Advanced
Description	Green Crane is a joint initiative by SNAM and Enagás to deploy renewable hydrogen value chains at scale. It aims to develop local hydrogen demand as well as export routes to North and Central Europe. In Italy, it comprises the regional hubs of Puglia, Sardinia and Sicily. The Green Crane Italy also includes the decarbonization of steel production processes in Lombardia Region, blending of hydrogen for industrial uses and an HRS network development. All hubs foresee a certain amount of hydrogen to be blended in the natural gas grid (up to 10 % or more). The hydrogen will be used directly in industry and mobility projects. The asset readiness will be a central aspect of the whole project.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
PSV	SNAM S.p.A.	2025	IT	IT	1.00 GWh/d
Comment: Increment refers only to hydrogen injected into the grid (potential additional volumes could be available)					

Sponsors		General Information	
Snam	100%	Promoter	Snam
		Operator	SNAM S.p.A.
		Host Country	Italy
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		03/2020
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2025	2025
Grant Obtention		
Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
All the project	The aggregated RES capacity is estimaed at 1500MW.		2025

Import developments from North-East

TRA-N-8	Project	Pipeline including CS	Non-FID
Update Date	17/09/2020		Non-Advanced
Description	The project consists in new on-shore pipeline and in a new compressor station in the north east of Italy to permit the increase of transport capacity at new or existing Entry Points in that area.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
	Snam Rete Gas S.p.A.	2034	IB-ITn	IT	340.00 GWh/d
New IP North-East Italy	Comment: Considering that the promoter submitted the project as relevant for TYNDP according to its national development plan, ENTSOG considers the capacity increment as relevant for modelling purposes in the final year of the publication (2035).				

Sponsors	General Information	NDP and PCI Information
Snam Rete Gas s.p.a. 100%	Promoter Snam Rete Gas S.p.A.	Yes (Ten-year development plan of the natural gas transmission network 2018-2027)
	Operator Snam Rete Gas S.p.A.	
	Host Country Italy	NDP Number RN_06
	Status Planned	NDP Release Date 30/11/2018
	Website Project's URL	NDP Website NDP URL
		Currently PCI No
		Priority Corridor(s)

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2034	2034
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Section 1		1,050	15	0	0
Section 2		1,400	119	0	0
Section 3		0	0	75	0
Total			134	75	

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	Security of Supply, Market integration, Diversification of sources, Diversification of routes, N-1 National (Italy), Back-up for renewables, Power-to-gas, Market Integration (Increase of competition), Flexibility of the system.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Interconnection with production in Gela

TRA-F-1241	Project	Pipeline including CS	FID
Update Date	17/09/2020		Advanced
Description	The project consists of a pipeline that will allow the interconnection of a new indigenous production in Sicily near Gela.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
IT - Indigenous Production	Snam Rete Gas S.p.A.	2020	NPcIT	IT	45.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Snam Rete Gas S.p.A.	100%	Promoter	Snam Rete Gas S.p.A.	Part of NDP	Yes (Ten-year development plan of the natural gas transmission network 2018-2027)
		Operator	Snam Rete Gas S.p.A.		
		Host Country	Italy	NDP Number	RN_17
		Status	In Progress	NDP Release Date	30/11/2018
		Website		NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	01/2017	05/2017	Considered Tariff Regime	Regulated
FEED	09/2017	09/2018	Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts				
FID		09/2017	Exemption in entry direction	0.00%
Construction	09/2019	04/2020	Exemption in exit direction	0.00%
Commissioning	2020	2020		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
all the project	The project consists of the realization of 500 meter pipeline	500	1	0	2020	
Total			1	0		

Benefits	
Main Driver	Others
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	Mln EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	Mln EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	No
		Comments	
		General Comments	

Interconnection with Slovenia

TRA-N-354	Project	Pipeline including CS	Non-FID
Update Date	17/09/2020		Non-Advanced
Description	In line with the expected increase in gas consumption in the area of Koper (SLO), the project foresees new capacity at the new exit point of the national network of San Dorligo della Valle.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
San Dorligo della Valle (IT) /Osp (SI)	Snam Rete Gas S.p.A.	2023	IT	SI	3.60 GWh/d

Sponsors	General Information		NDP and PCI Information	
Snam Rete Gas s.p.a.	100%	Promoter	Snam Rete Gas S.p.A.	Yes (Ten-year development plan of the natural gas transmission network 2018-2027)
		Operator	Snam Rete Gas S.p.A.	Part of NDP
		Host Country	Italy	NDP Number
		Status	Planned	NDP Release Date
		Website	Project's URL	NDP Website
			Currently PCI	NDP URL
			Priority Corridor(s)	No

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	01/2020	01/2020
Permitting	01/2021	01/2022
Supply Contracts		01/2022
FID		01/2020
Construction	01/2022	01/2022
Commissioning	2023	2023
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
all the project		250	6	0	2023
Total			6	0	

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Italy-Sardinia Virtual Pipeline

LNG-N-304	Project	LNG Terminal	Non-FID
Update Date	17/09/2020		Advanced
Description	The project consist in the creation of a virtual connection between Sardinia and Italy through two LNG small size carrier (vessel capacity = 8000 liquid cm) and the upgrade of the Panigaglia LNG Regasification plant with reloading facilities. The project gives to Sardinia customers the possibility to be supplied of natural gas, a new sorurce in the energy market of the island, at the same price conditions of the other Italian regions.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Sardinia LNG	Snam Rete Gas S.p.A.	2021	LNG_Tk_ITs	ITs	50.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
Snam Rete Gas S.p.A. 100%	Promoter	Snam S.p.A.	No ((1) the NDP was prepared at an earlier date and the project will be proposed for inclusion in the next NDP)	
	Operator	Snam Rete Gas S.p.A.		
	Host Country	Italy	NDP Number	
	Status	Planned	NDP Release Date	
	Website		NDP Website	
			Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2019	Considered TPA Regime	Regulated
Feasibility	01/2019	12/2019	Considered Tariff Regime	Regulated
FEED	01/2020	01/2020	Applied for Exemption	No
Permitting	01/2020	12/2020	Exemption Granted	No
Supply Contracts		12/2020		
FID		01/2020	Exemption in entry direction	0.00%
Construction	01/2021	12/2021	Exemption in exit direction	0.00%
Commissioning	2021	2021		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Panigaglia LNG plant	Yes	Virtual pipe	0.0	0	0.00	0	0	2021	100

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
All the project	The project is about the construction of 2 LNG small size carrier (8000 liquid cm) and reloading facility of the Panigaglia LNG Regasification plant. These infrastructures will be used to create a virtual interconnection to supply the market of Sardinia				0	
Total						

Expected Gas Sourcing	
LNG ()	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA	
Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

Larino - Chieti

TRA-F-409	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	Construction of 113 km 24" LARINO-CHIETI linking the provinces of Campobasso and Chieti, through the industrial areas of San Salvo and Val di Sangro. The proget forsee realisation of a Gas Tranportation system on Adriatic coast that will: - ensure the security of service on the current backbone (which will undergo a progressive reduction in operating pressures due to obsolescence) over the coming decades; - avoid congestion in this section and meet capacity increases in relation to changes in demand		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Larino (IT)	Società Gasdotti Italia	2022	ITg	IT	53.00 GWh/d

Sponsors	General Information	NDP and PCI Information
	Promoter	<i>SGI S.p.A:</i> Part of NDP <i>Yes (LARINO-CHIETI)</i>
	Operator	<i>Società Gasdotti Italia</i> NDP Number <i>5712</i>
	Host Country	<i>Italy</i> NDP Release Date <i>30/09/2018</i>
	Status	<i>In Progress</i> NDP Website <i>NDP URL</i>
	Website	<i>Project's URL</i> Currently PCI <i>No</i>
		Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2012	Considered TPA Regime	Regulated
Feasibility	03/2013	11/2013	Considered Tariff Regime	Regulated
FEED	01/2014	11/2014	Applied for Exemption	No
Permitting	12/2014	06/2018	Exemption Granted	No
Supply Contracts		03/2019		
FID		06/2017	Exemption in entry direction	0.00%
Construction	04/2019	06/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Larino - Chieti		600	113		2021
Total			113		

Expected Gas Sourcing	
The project in an internal connection of existing network	

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	The proget forsee : - ensure the security of service on the current backbone (which will undergo a progressive reduction in operating pressures due to obsolescence) over the coming decades; - avoid congestion in this section and meet capacity increases in relation to changes in demand;
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Matagiola - Massafra pipeline

TRA-N-1195	Project	Pipeline including CS	Non-FID
Update Date	17/09/2020		Non-Advanced
Description	The new Matagiola - Massafra pipeline will allow the increment of the maximum capacity of the Puglia entry points up to 74 MScm/d without increasing the overall capacity of the system from the South.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Melendugno - IT / TAP	Snam Rete Gas S.p.A.	2026	AL/TAP	IB-ITs	310.00 GWh/d
Otranto - IT / IGI Poseidon	Snam Rete Gas S.p.A.	2026	GR/IGI	IB-ITs	310.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Snam Rete Gas S.p.A.	100%	Promoter	Snam Rete Gas S.p.A.	Part of NDP	Yes (Ten-year development plan of the natural gas transmission network 2018-2027)
		Operator	Snam Rete Gas S.p.A.		
		Host Country	Italy	NDP Number	RN_05
		Status	Planned	NDP Release Date	30/11/2017
		Website	Project's URL	NDP Website	NDP URL
				Currently PCI	Yes (7.3.4 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2019	Considered TPA Regime	Regulated
Feasibility	01/2020	12/2020	Considered Tariff Regime	Regulated
FEED	01/2021	01/2022	Applied for Exemption	No
Permitting	01/2022	06/2024	Exemption Granted	No
Supply Contracts		06/2024		
FID		01/2021	Exemption in entry direction	0.00%
Construction	06/2024	01/2026	Exemption in exit direction	0.00%
Commissioning	2026	2026		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Matagiola - Massafra		1,400	80		2026
Total			80		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Please find enclosed

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	Security of supply, competitiveness, Flexibility of the system.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Microliquefaction plants

ETR-N-528	Project	Energy Transition Related Project	Non-FID
Update Date	16/09/2020		Advanced
Description	The project consists in developing the sustainable mobility by realizing 2 microliquefaction plants that would be used to fuel heavy transport also in naval sector. The project will realize also the possibility to enable Bio-LNG use in the transport sector.		
PRJ Code - PRJ Name	-		

Sponsors	General Information
Snam4mobility100%	PromoterSnam4mobility
	OperatorSnam4Mobility S.p.A.
	Host CountryItaly
	StatusIn Progress
	Website

Schedule	Start Date	End Date
Pre-Feasibility		12/2019
Feasibility	01/2019	12/2019
FEED	01/2020	12/2021
Permitting	01/2020	12/2021
Supply Contracts		06/2020
FID		01/2020
Construction	01/2020	01/2022
Commissioning	2022	2022
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
All the project	<p>The project consiste in the construction of 2 microliquefaction plants.</p> <p>The project liquefaction capacity is still confidential as a part of the company strategy.</p>		2022

PEGASUS

ETR-N-305	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>Pegasus Project aims to demonstrate the operation on an industrial scale PtG system, one of the technologies that can contribute most to the increase of energy produced 100% from non-programmable renewable sources, for a progressive decarbonisation of the energy system.</p> <p>The aim of the project is to produce 100% renewable methane gas (CH4) on an industrial scale, through an integrated system of conversion of H2O to H2 through RES powered electrolysis and CO₂ supply from biomethane upgrading processes, with subsequent methanation and feeding into SGI transport network with access to all services of the gas system, i.e. export, storage, distribution and liquefaction.</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information
S.G.I. S.p.A. 100%	Promoter S.G.I. SpA
	Operator Società Gasdotti Italia
	Host Country Italy
	Status Planned
	Website Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		05/2019
Feasibility	06/2019	07/2019
FEED	08/2019	09/2020
Permitting	10/2020	12/2021
Supply Contracts		02/2022
FID		02/2022
Construction	03/2022	12/2023
Commissioning	2024	2024
Grant Obtention Date	01/03/2024	01/03/2024

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
PEGASUS	<p><i>The project includes:</i></p> <ul style="list-style-type: none"><i>- The project foresees</i><i>- High voltage interconnection with the electricity grid for renewable energy supply to water electrolysis process</i><i>- Interconnection with existing biogas plant for CO2 withdrawal, available from biomethane upgrading unit</i><i>- CO2 storage at 40 bar</i><i>- Electrolyzer for hydrogen production, nominal power 23 MW</i><i>- Hydrogen storage at 200 bar</i><i>- Methanation reactor, nominal power 4,5 MW (according to methane HHV)</i> <p><i>Capacity increment (production of renewable methane):</i> <i>0,12 GWh/day</i></p>	<p><i>Capacity increment (production of renewable methane) 0,12 GWh/day</i></p>	2024

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	

Power to gas plant in the south of Italy

ETR-N-591	Project	Energy Transition Related Project	Non-FID
Update Date	21/09/2020		Advanced
Description	The project is aimed to the injection of hydrogen from a power to gas plant located in the south of Italy.The electric feed is expected to come from renewable sources.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
SNAM	100%	Promoter Snam
		Operator SNAM S.p.A.
		Host Country Italy
		Status Planned
		Website

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2025	2025
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
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All the project	The projects enable the integration of an hydrogen capacity up to 10 MW.		
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SAN MARCO - RECANATI

TRA-F-424	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	Construction of 35 km 24" in the provinces of Fermo, Macerata and Ancona and will be interconnected with Snam Rete Gas national network in Recanati. The project foresees realisation of a Gas Transportation system on Adriatic coast that will: - ensure the security of service on the current backbone (which will undergo a progressive reduction in operating pressures due to obsolescence) over the coming decades; - avoid congestion in this section and meet capacity increases in relation to changes in demand		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Recanati (IT)	Società Gasdotti Italia	2022	IT	ITg	53.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
SGI SpA	100%	Promoter	SGI S.p.A.	Part of NDP	Yes (SAN MARCO - RECANATI)
		Operator	Società Gasdotti Italia	NDP Number	5681
		Host Country	Italy	NDP Release Date	30/11/2018
		Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2014	Considered TPA Regime	Regulated
Feasibility	07/2014	12/2014	Considered Tariff Regime	Regulated
FEED	04/2015	05/2015	Applied for Exemption	No
Permitting	06/2016	04/2018	Exemption Granted	No
Supply Contracts		01/2019		
FID		01/2015	Exemption in entry direction	0.00%
Construction	03/2019	09/2021	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
San Marco-Recanati		600	35		2021
Total			35		

Expected Gas Sourcing

The project is an internal connection of existing network

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	The proget forsee : - ensure the security of service on the current backbone (which will undergo a progressive reduction in operating pressures due to obsolescence) over the coming decades; - avoid congestion in this section and meet capacity increases in relation to changes in demand;
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments	<i>The project is an internal connection of existing network</i>	Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Sardinia Methanization

TRA-N-1194	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project includes the activities aimed at the realization of natural gas transport facilities interconnected with the supply points of new LNG plants in the region of Sardinia that is not even methanized.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Sardinia LNG	ENURA S.p.A.	2020	LNG_Tk_ITs	ITs	17.00 GWh/d
	ENURA S.p.A.	2022	LNG_Tk_ITs	ITs	22.00 GWh/d
	ENURA S.p.A.	2025	LNG_Tk_ITs	ITs	11.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
	Promoter	ENURA S.p.A.	Part of NDP	Yes (Ten-year development plan of the natural gas transmission network 2018-2027)
	Operator	ENURA S.p.A.		
	Host Country	Italy	NDP Number	RN_09
	Status	In Progress	NDP Release Date	30/11/2018
	Website	Project's URL	NDP Website	NDP URL
			Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		12/2016
Feasibility	01/2016	12/2016
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2020	2025
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
phase 1		1,300	92		2020
phase 2		800	104		2021
phase 3		1,050	104		2022
phase 4		1,000	85		2022
phase 5		400	34		2025
phase 6		350	23		2025
phase 7		550	131		2025
Total			573		

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Project has been developed with reference to the "Environmental Energy Plan of Sardinia Region 2015-2030" (PEARS), that hypothesizes that the supply to cover Sardinia Demand is guaranteed by LNG facilities.
Benefit Description	Competition: The Sardinian methanization project, introducing gas as the most competitive element in the energy mix of the region, will increase the competitiveness of the Sardinian market. Sustainability: The Sardinian methanization project could cause the substitution of source that cause an high production of CO2 with Natural Gas, leading to a reduction in the production of the pollutant.

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Sector coupling: hybrid compressor station

ETR-F-599	Project	Energy Transition Related Project	FID
Update Date	16/09/2020		Advanced
Description	The project consists of the installation of two new electro compressors in Malborghetto compressor station for a total of 24 MW in partial substitution of gas compressor power (particularly, the elder turbo compressors). The project makes possible the coupling of electricity and gas sectors activating flexibility resources at the benefit of the overall energy system.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
Snam Rete Gas S.p.A.	100%	Promoter Snam Rete Gas S.p.A.
		Operator Snam Rete Gas S.p.A.
		Host Country Italy
		Status In Progress
		Website

Schedule	Start Date	End Date
Pre-Feasibility		12/2017
Feasibility	01/2017	12/2017
FEED	01/2018	12/2021
Permitting	01/2019	12/2021
Supply Contracts		06/2024
FID		07/2018
Construction	06/2024	12/2024
Commissioning	2024	2024
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
All the project	The project consists of the installation of two new electro compressors in Malborghetto compressor station for a total of 24 MW in partial substitution of gas compressor power		2024

Stazione di Spinta "San Marco"

TRA-N-439	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	Construction 3 MW compression station SAN MARCO The project foresees the realisation of a revers flow capacity on Gas Transportation system of Adriatic coast		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Larino (IT)	Società Gasdotti Italia	2022	IT	ITg	53.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
SGI SpA	100%	Promoter	S.G.I. S.p.A.	Part of NDP	Yes (Stazione si Spinta San Marco)
		Operator	Società Gasdotti Italia	NDP Number	5515
		Host Country	Italy	NDP Release Date	30/11/2018
		Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		07/2015	Considered TPA Regime	Regulated
Feasibility	06/2018	10/2019	Considered Tariff Regime	Regulated
FEED	11/2019	06/2020	Applied for Exemption	No
Permitting	11/2019	03/2021	Exemption Granted	No
Supply Contracts		05/2021		
FID		01/2021	Exemption in entry direction	0.00%
Construction	06/2021	12/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
Compression Station				3	2022	
Total				3		

Expected Gas Sourcing

The project is an internal connection of existing network

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	The project will be increase the security enabling the revers-flow un the pipelines sistem allowing the delivery to Recanati interconnection point of gas coming from south
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	The project is an internal connection of existing network

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	MIn EUR 0.0
Grants for works	No
Grants for works amount	MIn EUR 0.0
Intention to apply for CEF	No, we do not plan to apply
Other Financial Assistance	No
Comments	
General Comments	

System Enhancements - Stogit - on-shore gas fields

UGS-F-260	Project	Storage Facility	FID
Update Date	17/09/2020		Advanced
Description	The project envisages the development of the following depleted on-shore gas fields: Fiume Treste - Minerbio - Ripalta - Sabbioncello - Sergnano - Alfonsine		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS - IT - Snam Rete Gas/STOGIT	STOGIT	2028	STcIT	IT	104.30 GWh/d
	Comment: Interconnection point Storage hub/Transportation grid is a commercial point. The capacity available is equal to the capacity offered or planned to be offered by the storage companies.				
UGS - IT - Snam Rete Gas/STOGIT	STOGIT	2028	IT	STcIT	20.90 GWh/d
	Comment: Interconnection point Storage hub/Transportation grid is a commercial point. The capacity available is equal to the capacity offered or planned to be offered by the storage companies.				

Sponsors	General Information	NDP and PCI Information
Stogit	Promoter	Yes (Ten-year development plan of the natural gas transmission network 2018-2027)
100%	Operator	Part of NDP
	Host Country	Italy
	Status	Planned
	Website	NDP Number
		NDP Release Date
		NDP Website
		Currently PCI
		Priority Corridor(s)
		NDP URL
		No

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	No
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2028	2028		
Grant Obtention				
Date				

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
Fiume Treste - Minerbio - Ripalta - Sabbioncello - Sergnano - Alfonsine	Depleted Field	No	System Enhancements - Stogit - on-shore gas fields	588	2.0	9.5	90	NA	2028

Benefits	
Main Driver	Others
Main Driver Explanation	
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

TAP interconnection

TRA-F-1193	Project	Pipeline including CS	FID
Update Date	17/09/2020		Advanced
Description	The project is functional to connect the new TAP import infrastructure, scheduled to arrive in Melendugno, with the existing national network near Brindisi.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Melendugno - IT / TAP	Snam Rete Gas S.p.A.	2020	IB-ITs	AL/TAP	158.00 GWh/d
	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3. Physical entry capacity for emergency operations in line with FJO (158). Commercial Reverse Capacity equal to booked forward exit capacity (272)				
	Snam Rete Gas S.p.A.	2020	AL/TAP	IB-ITs	509.00 GWh/d
	Comment: This project enables the connection of the TAP entry point to the transmission network.				

Sponsors		General Information		NDP and PCI Information	
Snam Rete Gas s.p.a.	100%	Promoter	Snam Rete Gas S.p.A.	Part of NDP	Yes (Ten-year development plan of the natural gas transmission network 2018-2027)
		Operator	STOGIT		
		Host Country	Italy	NDP Number	RN_02
		Status	In Progress	NDP Release Date	30/11/2017
		Website	Project's URL	NDP Website	NDP URL
				Currently PCI	Yes (7.1.3 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	04/2015	05/2018
Permitting	11/2015	05/2018
Supply Contracts		02/2019
FID		05/2018
Construction	02/2019	10/2020
Commissioning	2020	2020
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Tap Interconnection		1,400	55		2020
Total			55		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	please find enclosed

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Snam rete gas received a First Request for access to the National Gas Pipeline Network in accordance with Resolution ARG/Gas 2/10 of the Italian Autorità di Regolazione per Energia Reti e Ambiente and with paragraph 8 of Chapter 5 of the Snam Rete Gas Network Code (Open season).
Benefit Description	Security of supply, diversification of sources, diversification of routes, back-up for renewables, power-to-gas, market Integration (Increase of competition) and flexibility of the system.

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No decision yet taken</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Transport of hydrogen into natural gas network for industrial customers

ETR-N-595	Project	Energy Transition Related Project	Non-FID
Update Date	21/09/2020		Advanced
Description	Leveraging on the experience acquired thanks to Contursi pilot project (injection till 10% H2 blended with natural gas in the transmission network), the project aims at decarbonizing group of industrial customers transporting hydrogen in various locations with a gradual integration of hydrogen into the industrial processes and end-use applications. The projects includes also the facilities needed to inject into a grid portion a mixture of natural gas and hydrogen. Where necessary, the industrial plant technological adaptation is part of the project activities.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
PSV	SNAM S.p.A.	2025	IT	IT	0.19 GWh/d

Sponsors		General Information	
SNAM	100%	Promoter	<i>Snam</i>
		Operator	<i>SNAM S.p.A.</i>
		Host Country	<i>Italy</i>
		Status	<i>In Progress</i>
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2025	2025
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Section 1	The projects enable the integration of an hydrogen capacity up to 3 MW.		

Hydrogen injection into the gas network in Lithuania

ETR-N-900	Project	Energy Transition Related Project	Non-FID
Update Date	14/06/2020		Advanced
Description	The aim of the project is to analyze the physical impact of increased concentration hydrogen and natural gas blend to the gas infrastructure while transporting gas to consumers in Lithuania and neighboring (EU and non-EU) countries. The test and evaluation of hydrogen/ natural gas mix will be performed to Lithuania’s natural gas transmission and distribution infrastructure. The demonstration project of the injection of hydrogen into a high-pressure pipeline under real conditions will be implemented. Hydrogen blending equipment will be included into the project. Depending on the results of the Feasibility study, the capacity level will be defined.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Forecast Production Lithuania	AB Amber Grid	2024	NPcLT	LT	0.01 GWh/d

Sponsors		General Information	
AB Amber Grid	100%	Promoter	AB Amber Grid
		Operator	AB Amber Grid
		Host Country	Lithuania
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		03/2021
Feasibility	04/2021	06/2022
FEED	06/2022	12/2022
Permitting	12/2022	07/2023
Supply Contracts		07/2023
FID		07/2023
Construction	07/2023	11/2024
Commissioning	2024	2024
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Hydrogen injection	The capacity level will be defined in the Feasibility study. It is planned 1 MW electrolysis.		2024

LNG Terminal in Klaipeda

LNG-F-824	Project	LNG Terminal	FID
Update Date	18/11/2019		Non-Advanced
Description	As this pilot action of 10 year lease turned to be a success story, Klaipėdos nafta in line with legislative acts will purchase of the FSRU and extend the Terminal operations post 2024. This long-term solution will ensure a consolidation of the substantial regional benefits already brought to the region and ensure the sustainability of future regional gas market. The benefits include security of supply, availability of alternative natural gas supplies, LNG break bulk infrastructure and effective natural gas price cap. Purchase of the FSRU will also facilitate substantially lower costs of Terminal operations and consequentially lower the effective natural gas price cap for all consumers in the region, as well as facilitate faster development of small and mid-scale LNG infrastructure and faster switch-over to LNG from more polluting fuels.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Klaipeda (LNG)	AB Klaipėdos Nafta	2024	LNG_Tk_LT	LT	122.40 GWh/d

Sponsors		General Information		NDP and PCI Information	
AB Klaipėdos Nafta	100%	Promoter	AB Klaipėdos Nafta	Part of NDP	Yes (National Energy Independence strategy, approved 2018-06-26 by Parliament, Order No. XI-2133)
		Operator	AB Klaipėdos Nafta		
		Host Country	Lithuania	NDP Number	Action Plan of National Energy Independence strategy, approved by the Government on 2018-12-05, task 8.1.1.1.
		Status	Planned		
		Website	Project's URL	NDP Release Date	26/06/2018
				NDP Website	NDP URL
				Currently PCI	No
				Priority Corridor(s)	BEMIP

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		11/2017	Considered TPA Regime	Regulated
Feasibility	11/2017	04/2018	Considered Tariff Regime	Regulated
FEED	07/2011	03/2012	Applied for Exemption	No
Permitting	11/2011	10/2012	Exemption Granted	Not Relevant
Supply Contracts		12/2018		
FID		12/2018	Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2024	2024		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
FSRU Independence	Yes	Purchase	3.7	160,000	10.20	170,000	-	2024	40

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing
LNG (LNG,NO,US,WO), Nigeria, Trinidad and Tobago

Comments about the Third-Party Access Regime
Tariff regulation created by Lithuania NRA and Parliament, which was also approved by EC -State aid SA.36740 (2013/NN) – Lithuania. All services of Klaipeda LNG terminal is regulated.

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	Ensure certainty on the SoS in the region Without a project there is uncertainty on: - compliance with N-1 standard - competition of gas supply in the market - successful evolution of the regional gas market
Benefit Description	Ensure certainty of independence from the single external natural gas supplier Ensure certainty of diversification of natural gas supply sources Ensure certainty to the regional gas market players and create real gas market ensuring natural gas supply in the Baltics The project is also driven by a market demand to have flexibility in choosing different sources of supply, to be connected with global market

Barriers	
Barrier Type	Description
Market	Lack of market support
Market	Lack of market maturity
Financing	Amortization rates
Regulatory	Low or zero-priced short-term capacity

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>Yes, for work only</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Biomethane production with infrastructure building/enhancement in Latvia

ETR-N-125	Project	Energy Transition Related Project	Non-FID
Update Date	29/05/2020		Advanced
Description	The total installed electrical capacity of biogas in Latvia is 60.446 MW, which in 2018 produced 347.93 GWh. However, there is no biomethan production in Latvia. Only these biogas plants, which are close to the transmission grid is feasible to upgrade for biomethan production in order to inject biomethan into the transmission grid. 13 existing biogas production facilities for upgrade to biomethan production are chosen in Latvia: 8 in Zemgale region (Druvas unguri, Daile Agro, Bio Ziedi, Zemgaļi, Lielmežotne, Agro Iecava, Egg Energy) and 5 in Vidzeme region (Baltijas Darzeni, Zaļās zemes enerģija, Vecsiljāni, Pilslejas, International Investments). The project will start with the feasibility study resulting in selection of the pilot facility. The operation of the pilot facility will be assessed and based on experience other facilities will be upgraded and connected to the grid. The transmission grid might need to be upgraded for accommodation of the biomethan.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Forecast Production Latvia	Conexus Baltic Grid	2026	NPcLV	LV	0.73 GWh/d

Sponsors	General Information	
	Promoter	JSC "Conexus Baltic Grid"
	Operator	Conexus Baltic Grid
	Host Country	Latvia
	Status	Planned
	Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		12/2020
Feasibility	01/2021	12/2021
FEED		
Permitting		
Supply Contracts		
FID		
Construction	01/2024	12/2026
Commissioning	2026	2026
Grant Obtention Date		

Enhancement of Incukalns UGS

UGS-F-374	Project	Storage Facility	FID
Update Date	22/09/2020		Advanced
Description	With working gas capacity of 24 TWh Inčukalns Underground Gas Storage (hereinafter – IUGS) represents the largest available gas storage in the Baltic Sea region. IUGS is natural, aquifer type storage with compressor injection but natural withdrawal. Pressure difference between storage and transmission system ensures withdrawal from storage. Currently at the end of withdrawal season, pressure at entry from storage drops to 30 bar, allowing ensuring late winter supply. The aim of the project is to enhance the operations of the storage to allow the Inčukalns Underground gas storage to maintain its functionality after pressure upgrade in Baltic transmission system. The key benefit from the implementation of the Project is the ability to reduce the dependence of withdrawal capacity on the volume of gas reserves in the IUGS. Additional to the technological issues, improvement of physical, cybersecurity and SCADA system security.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Incukalns (LV)	Conexus Baltic Grid	2019	STcLV	LV	84.00 GWh/d
	Conexus Baltic Grid	2025	LV	STcLV	8.50 GWh/d
Comment: Incement of injection capacity					

Sponsors		General Information		NDP and PCI Information	
JSC "Conexus Baltic Grid"	100%	Promoter	JSC "Conexus Baltic Grid"	Part of NDP	No ((4) there is no obligation at national level for such a project to be part of the NDP)
		Operator	Conexus Baltic Grid		
		Host Country	Latvia	NDP Number	
		Status	In Progress	NDP Release Date	
		Website	Project's URL	NDP Website	
				Currently PCI	Yes (8.2.4 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		02/2012	Considered TPA Regime	Regulated
Feasibility	02/2017	11/2017	Considered Tariff Regime	Regulated
FEED	09/2019	07/2022	Applied for Exemption	No
Permitting	05/2014	12/2020	Exemption Granted	No
Supply Contracts		09/2022		
FID		03/2019	Exemption in entry direction	0.00%
Construction	03/2019	12/2025	Exemption in exit direction	0.00%
Commissioning	2019	2025		
Grant Obtention Date	19/05/2017	19/05/2017		

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
Incukalns Underground Gas Storage	Aquifer	No	Inčukalns UGS	0	20.0	40.0	60		2024

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Since Incukalns UGS is the only storage of the region, increase of gas withdrawal volumes especially in the end of withdrawal deason significantly increases security of supply during cold spell. It is important for creation of the common market zone in the Baltic Countries and Finland, and the project is of a key importance for market integration. Besides, by storing gas from different sources (pipeline and LNG) it contributes to the competition. Since technical activities provide for significant decrease of emissions it also contributes to the sustainability.

Delays since last TYNDP

Delay Since Last TYNDP	Two years
Delay Explanation	Change in market conditions.

Expected Gas Sourcing

Russia, LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	According to the 2017 feasibility study, the storage in the future will be more used for short term gas products and security of supply purposes. Short therm products will be used for LNG parking and power market peak demand. Regarding security of supply- the storage shall be divided as the strategic storage and storage with the filling requiremnts. After competion of GIPL and Balticconnector it is expected that market area for the storage will also include Poland and Finland. Other drivers: - request of the market for availability of gas at short notice - increase of transmission system working pressure will allowing to transfer gas flow from GIPL; Klaipeda LNG to Estonia and through Baltic Connector to Finland
Benefit Description	Ending energy isolation - Transit route through Latvia facilitates gas flow in region that is currently isolated from rest of EU. In addition, the storage provide option to diminish single supplier impact on gas supply by providing gas source where gas from LNG or other EU suppliers can be stored and at the time of supply transferred to countries currently fully dependent on one source of supply. Implementation of internal energy market - Reliable operations of IGUS is essential to whole East-Baltic region especially in relation to the creation of the joint gas market for Baltic Countries whereas availability of flexible volumes of gas can significantly increase liquidity of gas flows, thus contributing to the integration of energy markets. - One of the key users of storage is electricity producer, providing practical possibility for industry coupling. - Promoting wholesale market development, facilitating price improvement and increasing liquidity.

Barriers

Barrier Type	Description
Market	Lack of market maturity
Market	Lack of market support

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>25/09/2018</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>04/10/2018</i>	Grants for studies amount	<i>Mln EUR 0.2</i>
Website	<i>CBCA URL</i>	Grants for works	<i>Yes</i>
Countries Affected	<i>Estonia, Latvia, Lithuania</i>	Grants for works amount	<i>Mln EUR 44.0</i>
Countries Net Cost Bearer	<i>Latvia</i>	Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Power to Gas Production with infrastructure building/enhancement in Latvia

ETR-N-80	Project	Energy Transition Related Project	Non-FID
Update Date	29/05/2020		Advanced
Description	There are plans to develop wind farms in two regions of Latvia called Kurzeme and Zemgale with total expected installed capacity of 567 MW, where 207 MW has already received building permit and 360 MW is in pipeline with the final phase of the Environmental Impact Assessment. These windfarms are expected to generate 800 GWh a year. In order to use excess wind power, Power to Gas technology will be used and generated hydrogen as also potentially synthetic hydrocarbon will be injected into existing gas transmission grid with possible utilization of existing or creation of new aquifer gas storage. The first steps of the demonstration project will be feasibility study on the best location and technology as well the impact of hydrogen on aquifer storages. Option of production of the synthetic methane capturing CO2 from industrial site also will be considered.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Forecast Production Latvia	Conexus Baltic Grid	2030	NPcLV	LV	2.00 GWh/d

Sponsors		General Information	
JSC "Conexus Baltic Grid"	100%	Promoter	JSC "Conexus Baltic Grid"
		Operator	Conexus Baltic Grid
		Host Country	Latvia
		Status	Planned
		Website	Project's URL

Schedule	Start Date	End Date
Pre-Feasibility		12/2022
Feasibility	01/2023	12/2024
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2030	2030
Grant Obtention		
Date		

Interconnection North Macedonia-Greece (North Macedonian part)

TRA-A-980	Project	Pipeline including CS	Non-FID
Update Date	02/09/2019		Non-Advanced
Description	<p>The project will ensure supply of additional quantities of natural gas from Greece and other sources that will be available through Greece, direct connection to the existing LNG Terminal Revithoussa and possibly transit of additional quantities of natural gas intended for UNMIK and/or Serbia.</p> <p>Main gas pipeline section Negotino - Gevgelija (border with Greece)</p> <p>Within this section the following objects and systems are included:</p> <ul style="list-style-type: none">- Line part in length of 68 km with pipe diameter DN 700 (28"),- Valve stations- Pig Launching-Receiving Station DN700,-System for automatic operating with the technological process for natural gas transport (DCS/SCADA);-Line for connection with optic fibres;-Power supply system-Cathodic protection system- Security Signaling System and fire signalization. <p>maximum pressure (projected)pmax = 66.5 bars</p> <p>-Capacity 326.000 m3/h (76,4 GWh/day)</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Stojakovo village (MK) / Pontoiraklia (GR)	MER JSC Skopje	2022	GR	MK	76.50 GWh/d

Sponsors		General Information		NDP and PCI Information	
MER JSC Skopje	100%	Promoter	MER JSC Skopje	Part of NDP	Yes (Work Program of the Government of R.Macedonia)
		Operator	MER JSC Skopje	NDP Number	Energy sector, no. 2
		Host Country	North Macedonia	NDP Release Date	27/11/2018
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	03/2017	01/2019	Considered Tariff Regime	Regulated
FEED	03/2019	12/2019	Applied for Exemption	No
Permitting	12/2018	03/2020	Exemption Granted	No
Supply Contracts		10/2020		
FID		06/2020	Exemption in entry direction	0.00%
Construction	12/2020	09/2022	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Negotino-Gevgelija		700	68	0
	Total		68	0

Expected Gas Sourcing
Caspian Region, Russia, LNG ()

Benefits	
Main Driver	Market Demand
Main Driver Explanation	The project will add a second source of supply to North Macedonia and will allow the expected demand to be covered.
Benefit Description	By adding a second source of supply through Greece the project will increase: - Security of Supply - Market Integration, as gas from all sources supplying Greece will be available to North Macedonia - Sustainability, as the higher availability of gas will allow the substitution of lignite in the power generation and the space heating sectors.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Melita TransGas Pipeline

TRA-A-31	Project	Pipeline including CS	Non-FID
Update Date	19/09/2019		Advanced
Description	<p>The project addresses PCI 5.19 consisting on a gas pipeline between Malta (Delimara) and Italy (Gela, Sicily) with a capacity of 2 bcm/year, diameter of 22" (DN 560) and a length of 159 km (151 km offshore, 7 km onshore in Sicily and 1km onshore in Malta). The project will end Malta's isolation by connecting the island to the trans-European Natural Gas Network, allowing gas importation to meet Malta's gas demand for power generation and future inland market and hence enabling the gasification of the country.</p> <p>It will thus contribute to integration of the gas market, access to lower gas prices and improved security of energy supply, given that presently the island depends on LNG supply through shipping. The average load factor of 22% is attributed to only first three years from project commissioning and does not account for peak load conditions for which the max. technical capacity has been designed to supply the Maltese power generation sector.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Gela (Italy) SRG-MTGP (Malta) Interconnection Point	Melita TransGas Co. Ltd.	2024	IB-ITi	MT	56.00 GWh/d
	Comment: MTGP is designed with bi-directional flow capability.				
Gela (Italy) SRG-MTGP (Malta) Interconnection Point	Melita TransGas Co. Ltd.	2024	MT	IB-ITi	56.00 GWh/d
	Comment: MTGP is designed with bi-directional flow capability.				

Sponsors	General Information		NDP and PCI Information	
	Promoter	Melita TransGas Co. Ltd.	Part of NDP	Yes (Malta National Reform Programme April 2019)
	Operator	Melita TransGas Co. Ltd.	NDP Number	Section 4.3.2
	Host Country	Malta	NDP Release Date	30/04/2019
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	Yes (5.19 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		04/2015	Considered TPA Regime	Regulated
Feasibility	04/2013	04/2015	Considered Tariff Regime	Regulated
FEED	11/2018	03/2020	Applied for Exemption	No
Permitting	11/2017	07/2020	Exemption Granted	No
Supply Contracts		10/2021		
FID		07/2020	Exemption in entry direction	0.00%
Construction	03/2023	05/2024	Exemption in exit direction	0.00%
Commissioning	2024	2024		
Grant Obtention Date	25/01/2018	25/01/2018		

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Delimara (Malta) to Gela (Sicily) Italy	Length of the pipeline reflects the Basic Design study results and will be confirmed by Q3 2020 following the completion of the PMRS, FEED and permitting activities.	560	159	0	2024
Total			159	0	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Market integration: MTGP will eliminate Malta’s isolation from the EU Gas Network and will thus contribute to the integration of the Internal Energy Market; it will contribute to the overall flexibility and interoperability of the system as it will offer future possibility of reverse flows capacity. Security of supply: MTGP will provide a more reliable, secure and energy efficient form of transport of natural gas . The PCI is designed with bidirectional flow capability, and hence may provide for the possibility of reverse flow from Malta to Europe in case of emergency gas disruption situations. Sustainability: MTGP will remove emissions from LNG supply chain, while generating environmental landscape benefits from removal of FSU. Competition: The PCI will contribute to the diversification of import sources and import routes and will increase the competitiveness by promoting the integration of the internal energy market and the interoperability of electricity and gas networks.

Delays since last TYNDP	
Delay Since Last TYNDP	Yes
Delay Explanation	

Expected Gas Sourcing	
Algeria, Caspian Region, Libya, Norway, Russia, LNG ()	

Benefits	
Main Driver	Others
Main Driver Explanation	The main driver is the elimination of Malta's isolation from the European Gas network.
Benefit Description	The gas pipeline interconnection will put an end to Malta’s isolation from the European gas network and contribute to the integration of the Internal Energy Market; moreover the project shall: • Replace the importation of LNG for the production of electricity; • Contribute to the system’s overall flexibility and interoperability in that it will offer the possibility of capacity for reverse flows in the future. • Complement the Energy Union’s strategy towards the diversification of sources, routes and suppliers of natural gas. • Guarantee greater security of energy supply to the island; • Enable easier access to the natural gas resources at a lower cost for Malta; • Support objectives of sustainability as it will contribute towards the reduction of GHG (Greenhouse Gas) emissions by delivering natural gas more efficiently, eliminating the need for liquefaction, shipping and regasification, as is the case with LNG use for electricity generation purposes.

Barriers	
Barrier Type	Description
Financing	Availability of funds and associated conditions

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date	<i>17/04/2019</i>	Grants for studies	<i>Yes</i>
Decision Date	<i>04/06/2019</i>	Grants for studies amount	<i>Mln EUR 4.8</i>
Website	<i>CBCA URL</i>	Grants for works	<i>Yes</i>
Countries Affected	<i>Italy, Malta</i>	Grants for works amount	<i>Mln EUR 299.4</i>
Countries Net Cost Bearer	<i>Malta</i>	Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments	<i>The CBCA decision jointly issued by the Maltese and Italian NRAs on the 4th June 2019, states that "Malta should bear 100% of the costs of the MTGP project and as such, no monetary transfer is needed between Italy and Malta".</i>	Other Financial Assistance	<i>Yes</i>
		<i>(1) TEN-E Programme 2012 Call: 'Feasibility Study and cost-benefit analysis of a gas pipeline between Malta and Sicily' 2012-G215/12-ENER/12/TEN-ESI2.661346 Decision Nr C(2013) 8516 - Amount: 125,925 Eur</i>	
		Comments	<i>(2) CEF Synergy Call of 2016: 'Technical Study and Cost-Benefit Analysis for the Development of LNG as a Marine Fuel in Malta' Grant Agreement No: INEA/CEF/SYN/A2016/1338428; Action No: 2016-MT-SA-0005 - Amount : 600,000 Eur</i>
		General Comments	

Green Hydrogen Hub Drenthe

ETR-N-833	Project	Energy Transition Related Project	Non-FID
Update Date	14/08/2020		Advanced
Description	Production of hydrogen via electrolysis and storage of hydrogen in salt caverns. GHH DR is located in the Province of Drenthe, NL, where large caverns suitable for storage of hydrogen in salt deposits are present. The location is close to existing energy infrastructure: high-voltage electricity transmission grid, gas transmission network, underground gas storage and wind resources in the Northern Seas Region. Electrolysis capacity - Year 2027 - 300 MW - Year 2031 - 1,000 MW Hydrogen storage capacity - Year 2027 - 200 GWh - Year 2031 - 400 GWh. The results of ETR-N-828 show that project benefits exceed project costs. Large-scale electrolysis optimises the value of RES-E & co-location with large-scale hydrogen storage maximises the technology benefits ensuring a robust hydrogen supply chain. ETR-N-828 illustrates sector coupling potential as Expressions of Interest for green hydrogen have already been received from entities engaged in transport, construction, and industry.		
PRJ Code - PRJ Name	-		

Sponsors		General Information	
Corre Energy Limited	100%	Promoter	Corre Energy Limited
		Operator	Corre Energy Storage Ltd
		Host Country	Netherlands
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		11/2021
Feasibility	12/2021	01/2022
FEED	02/2022	09/2022
Permitting	05/2022	05/2024
Supply Contracts		05/2024
FID		06/2024
Construction	09/2024	08/2026
Commissioning	2026	2026
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Planning	Power-to-hydrogen electrolysis system with a capacity of up to 1,000 MW - Salt cavern storage of up to 130 million Nm3 (400 GWh) of hydrogen producing 2.712 GWh/day of Green Hydrogen		2026

Green Hydrogen Hub Leer

ETR-N-874	Project	Energy Transition Related Project	Non-FID
Update Date	14/08/2020		Advanced
Description	<p>Production of hydrogen via electrolysis and storage of hydrogen in salt caverns. GHH DW is located in the state of Lower Saxony, DE, where salt deposits suitable for creation of caverns capable of large-scale storage of hydrogen are present. The location is close to existing energy infrastructure: high-voltage electricity transmission grid, gas transmission network, multiple gas storage caverns and wind resources in the Northern Seas Region.</p> <p>Electrolysis capacity: Year 2027 - 300 MW Year 2031 - 1,000 MW Hydrogen storage capacity: Year 2027 - 200 GWh Year 2031 - 400 GWh. The results of ETR-N-828 show that project benefits exceed project costs. Large-scale electrolysis optimises the value of RES-E & co-location with large-scale hydrogen storage maximises the technology benefits ensuring a robust hydrogen supply chain.ETR-N-828 illustrates sector coupling potential as expressions of interest for green hydrogen have been received from entities engaged in transport,construction & industry</p>		
PRJ Code - PRJ Name	-		

Sponsors		General Information	
Corre Energy Limited	100%	Promoter	Corre Energy Limited
		Operator	Corre Energy Storage Ltd
		Host Country	Netherlands
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		11/2021
Feasibility	12/2021	01/2022
FEED	02/2022	09/2022
Permitting	05/2022	05/2024
Supply Contracts		05/2024
FID		06/2024
Construction	09/2024	08/2026
Commissioning	2026	2026
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Planning	Power-to-hydrogen electrolysis system with a capacity of up to 1,000 MW - Salt cavern storage of up to 130 million Nm3 (400 GWh) of hydrogen producing 2.712 GWh/day of Green Hydrogen		2026

Green Hydrogen Hub Zuidwending

ETR-N-830	Project	Energy Transition Related Project	Non-FID
Update Date	14/08/2020		Advanced
Description	Production of hydrogen via electrolysis & storage of hydrogen in salt caverns. GHH ZW is located in the Province of Groningen, NL, where large caverns suitable for storage of hydrogen are created in salt deposits by Nouryon during its salt producing activities. Located close to existing energy infrastructure: high-voltage electricity transmission grid, gas transmission network, underground gas storage & wind resources in the Northern Seas Region. Electrolysis capacity - Year 2026-300 MW - Year 2030-1 GW Hydrogen storage capacity - Year 2026-200 GWh - Year 2030-400 GWh.The results of ETR-N-828 show that project benefits exceed project costs. Large-scale electrolysis optimises the value of RES-E & co-location with large-scale hydrogen storage maximises the technology benefits ensuring a robust hydrogen supply chain.ETR-N-828 illustrates sector coupling potential as expressions of interest for green hydrogen have been received from entities engaged in transport, construction & industry		
PRJ Code - PRJ Name	-		

Sponsors		General Information	
Corre Energy Limited	100%	Promoter	Corre Energy Limited
		Operator	Corre Energy Storage Ltd
		Host Country	Netherlands
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		11/2021
Feasibility	12/2021	01/2022
FEED	02/2022	09/2022
Permitting	05/2022	05/2024
Supply Contracts		05/2024
FID		06/2024
Construction	09/2024	08/2026
Commissioning	2026	2026
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Planning	Power-to-hydrogen electrolysis system with a capacity of up to 1,000 MW - Salt cavern storage of up to 130 million Nm3 (400 GWh) of hydrogen capable of producing 2.712 GWh/day of Green Hydrogen-CAES Zuidwending (CAES ZW), a hydrogen-fuelled CAES facility with generation capacity of 320 MW which is a European Project of Common Interest, PCI Number 1.17.		2026

Supercritical water gasification facilities

ETR-A-437	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>Supercritical water gasification (SCWG) is an innovative technology that converts wet biomass (waste) streams such as manure, biowaste and sewage sludge into sustainable energy and reusable raw materials.</p> <p>Supercritical water gasification is a thermo-chemical conversion technology that makes use of the water component in the wet waste streams. Compressing water, containing the biomass, under high temperature, creates the so-called supercritical phase.</p> <p>SCWG is a multi-feedstock technology, in which all kinds of (wet)biomass can be processed. In addition, the gas is produced under high pressure, without additional costs for compression.</p>		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
	Promoter	N.V. Nederlandse Gasunie
	Operator	Gasunie Transport Services B.V.
	Host Country	Netherlands
	Status	Planned
	Website	

Schedule	Start Date	End Date
Pre-Feasibility		12/2018
Feasibility	01/2018	06/2019
FEED	07/2019	12/2020
Permitting	01/2019	12/2020
Supply Contracts		01/2021
FID		07/2020
Construction	01/2021	12/2023
Commissioning	2021	2021
Grant Obtention Date		

FSRU Polish Baltic Sea Coast

LNG-N-947	Project	LNG Terminal	Non-FID
Update Date	04/08/2020		Non-Advanced
Description	The FSRU Polish Baltic Sea Coast project is planned as the first floating terminal in Poland. The annual regasification capacity will be about 4.5 bcm/y. The project will offer its regasification capacities to the gas consumers in Poland and other countries in the Baltic Sea region (supplies to be directed via Gas Interconnection Poland-Lithuania and/or LNG ships) and in Central-Eastern Europe (supplies within the North-South Gas Corridor via PL-CZ, PL-SK and PL-UA interconnections). The implementation of the project supports the EU's efforts to reduce the sulphur content of marine fuels by ensuring LNG supplies for short and long-haul shipping (for bunkering service). The FSRU terminal also supports the development of alternative fuels infrastructure for both road and sea transport. The project covers also the planned pipelines: Kolnik – Gustorzyn, Kolnik – Reszki and Kolnik – Gdańsk, as well as with a new compressor station CS Pomorze.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
FSRU Polish Baltic Sea Coast	GAZ-SYSTEM S.A.	2025	LNG_Tk_PL	PL	138.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
Gas Transmission Operator GAZ-SYSTEM S.A. 100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	Yes (National Ten-Year Transmission System Development Plan 2018-2027)
	Operator	GAZ-SYSTEM S.A.	NDP Number	N/A
	Host Country	Poland	NDP Release Date	
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	Yes (5.1.1 (2020))
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	03/2017	10/2017	Considered Tariff Regime	Regulated
FEED	01/2020	07/2022	Applied for Exemption	No
Permitting	09/2019	07/2022	Exemption Granted	Not Relevant
Supply Contracts		08/2020		
FID		10/2022	Exemption in entry direction	0.00%
Construction	03/2023	12/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
FSRU Polish Baltic Sea Coast	Yes	FSRU project	4.5	170,000	13.20	170,000	none	2025	0

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	- Diversification of supply, sources, routes and counterparts by enhancing the access to the global LNG market; - Reduction of dependence on a single supply sources in PL and other countries in the BEMIP and CEE regions; - Mitigation of exposure to supply disruptions from the East in the BEMIP and CEE regions; - Reduction of dependence on a single supply source in the CEE region; - Reduction of price differences between the BEMIP and North-West regions; - Reduction of emissions in the BEMIP and CEE regions by promoting natural gas in national economies.

Expected Gas Sourcing
LNG ()

Benefits	
Main Driver	Others
Main Driver Explanation	Project driver: SoS, market demand, sustainability
Benefit Description	

Barriers	
Barrier Type	Description
Financing	Availability of funds and associated conditions

CBCA	
Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

GCP GAZ-SYSTEM/ONTRAS - incremental capacity project

TRA-N-1202	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The incremental capacity project concerns the IP GCP GAZ-SYSTEM/ONTRAS. The demand for incremental capacity has been indicated in the direction from Poland to GASPOOL. To meet the indicated demand for incremental capacity at this IP, GAZ-SYSTEM S.A. and ONTRAS conducted analyses related to the technical development of the Lasów gas station. The maximum level of the capacity development is set on 2,025,676 kWh/h. In order to offer such incremental capacity, the Polish gas transmission system will have to be developed through extension of the Kiełczów gas node and Lasów metering station.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
GCP GAZ-SYSTEM/ONTRAS	GAZ-SYSTEM S.A.	2023	PL	DEg	48.60 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gas Transmission Operator GAZ-SYSTEM S.A.	100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	No ((6) others - please comment below)
		Operator	GAZ-SYSTEM S.A.	NDP Number	
		Host Country	Poland	NDP Release Date	
		Status	Planned	NDP Website	
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2023	2023
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Kielczów node - modernisation					0
Lasow metering station - modernisation					0
Total					

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	The lack of NRAs' coordinated decisions regarding the project.

Benefits

Main Driver	Market Demand
Main Driver Explanation	The incremental process regarding extension of the GCP GAZ-SYSTEM/ONTRAS capacity started in 2017 due to the interest of market participants in the incremental capacity in the given point.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

North - South Gas Corridor in Eastern Poland

TRA-N-245	Project	Pipeline including CS	Non-FID
Update Date	31/10/2019		Non-Advanced
Description	The investment tasks within the project constitute essential elements of the planned North-South gas interconnections in Central Eastern and South Eastern Europe. The corridor covers Eastern Poland and is planned to be connected to two interconnectors, Poland – Ukraine Interconnection and Poland – Slovakia Interconnection. Implementation of the project will allow for significant volumes of gas to be transported via the corridor in Eastern Poland towards PL-SK Interconnection and PL-UA Interconnection. This investment plays a key role in the integration with the CEE region along the North-South axis. It will also enhance the access to the UGS Strachocina that have large expansion potential and may serve as essential security of supply infrastructure in the CEE region.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
	GAZ-SYSTEM S.A.	2029	DScPL	PL	0.00 GWh/d
Aggregated Distribution (PL)	Comment: The is an internal project which is planned to be connected to PL-SK, PL-UA interconnections				

Sponsors		General Information		NDP and PCI Information	
Gas Transmission Operator	GAZ-SYSTEM S.A.	100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP
			Operator	GAZ-SYSTEM S.A.	Yes (National Ten-Year Transmission System Development Plan 2018-2027)
			Host Country	Poland	NDP Number
			Status	Planned	NDP Release Date
			Website	Project's URL	NDP Website
				Currently PCI	NDP URL
				Priority Corridor(s)	Yes (6.2.2 (2020))

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2029	2029
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Strachocina	up to 30 MW			30	0
Gustorzyn-Wronów pipeline		1,000	316		0
Hermanowice-Jarosław pipeline		1,000	39		0
Jarosław - Rozwadów pipeline		1,000	60		0
Płońsk-Uniszki Zawadzkie pipeline		1,000	72		0
Rembelszczyzna-Wronów pipeline		1,000	135		0
Rozwadów-Końskowola-Wronów pipeline		1,000	103		0
Total			725	30	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	The project is an internal enabler for PL-SK and PL-UA interconnections. Its implementation will have an impact on: Market integration: - Creation of a well-integrated and functioning market in the CEE region. SoS: - Mitigation of exposure to supply disruptions in CEE countries; - Reduction of dependence on gas supplies from Russia in the CEE region; - Bringing new route for natural gas to the south-eastern part of Poland which has developed gas transmission system and storage facilities. Competition: - Reduction of price differences between the CEE and North-West regions; - Enhanced access to new sources of supply in the CEE region (LNG, NO supplies). d) Sustainability - Reduction of emissions in the CEE region by promoting natural gas in national economies.

Benefits	
Main Driver	Others
Main Driver Explanation	Regulation SoS, market demand, sustainability
Benefit Description	The project will allow to transport significant volumes of gas via PL-SK and PL-UA Interconnections. It will also enhance the access to the UGS Strachocina that have large expansion potential and may serve as essential security of supply infrastructure in the CEE region. Construction of the pipelines within this project, together with completion of the PL-SK Interconnection and PL-UA Interconnection, will have a positive impact on the competition in the CEE region, as the project will provide a possibility to open the market for more gas suppliers. This would in turn mean ending the state of major dependency on one single gas supplier for the countries in the respective regions thanks to the potential access to gas deliveries from new sources.

Barriers	
Barrier Type	Description
Permit Granting	Efficient permitting procedures are necessary for timely implementation of the project.
Others	Due to the project drivers which are mainly related to SoS in Central-Eastern Europe, the project does not meet the criterion of economic viability, so the external co-financing is indispensable. Lack of external financial support may be a serious barrier in implementation.
Financing	Due to the project drivers which are mainly related to SoS in Central-Eastern Europe, the project does not meet the criterion of economic viability, so the external co-financing is indispensable. Lack of external financial support may be a serious barrier in implementation.

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>Yes</i>
		Comments	
		General Comments	

North - South Gas Corridor in Western Poland

TRA-F-247	Project	Pipeline including CS	FID
Update Date	09/12/2019		Advanced
Description	The investment tasks within the project constitute essential elements of the planned North-South gas interconnections in Central-Eastern Europe. The corridor covers Western Poland and it is planned to be connected to PL-CZ Interconnection. Implementation of the investment tasks within this project will allow for exploiting full potential of gas transmission from LNG Terminal in Świnoujście and Baltic Pipe through the North-South gas corridor to other CEE countries. This infrastructure will be used for purpose of PL-CZ Interconnection.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Aggregated Distribution (PL)	GAZ-SYSTEM S.A.	2021	DScPL	PL	0.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gas Transmission Operator	GAZ-SYSTEM S.A.	100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP
			Operator	GAZ-SYSTEM S.A.	Yes (National Ten-Year Transmission System Development Plan 2018-2027)
			Host Country	Poland	NDP Number
			Status	Planned	NDP Release Date
			Website	Project's URL	NDP Website
				Currently PCI	NDP URL
				Priority Corridor(s)	No

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	09/2013	08/2017
Permitting	11/2014	08/2017
Supply Contracts		
FID		11/2017
Construction	11/2017	03/2021
Commissioning	2021	2021
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Kędzierzyn				30	0
Kędzierzyn Node					0
Tworóg-Kędzierzyn Koźle pipeline		1,000	43		0
Zdzieszowice - Wrocław pipeline		1,000	130		0
Zdzieszowice-Kędzierzyn Koźle		1,000	19		0
Total			192	30	

Benefits	
Main Driver	Others
Main Driver Explanation	The project is driven by SoS, market demand considerations and sustainability
Benefit Description	Implementation of the investment tasks within this project will allow for ensuring full functionality of PL-CZ Interconnection. This project will have an impact on: enhancing functionality of transmission system in Central and Southern Poland in order to facilitate better operational functioning of the upgraded PL-CZ Interconnection; increasing the security of supply sources, routes and counterparts, as well as on providing an overall flexibility for the CEE region; improving European gas grid interconnections; creating a well-functioning internal market in the CEE region by ensuring high reliability of the cross-border transmission between Poland and the Czech Republic; promotng natural gas as a low emission source of energy in the economy.

CBCA	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>
Submissin Date	<i>31/10/2013</i>
Decision Date	<i>24/06/2014</i>
Website	<i>CBCA URL</i>
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>Yes</i>
	<i>Structural Funds (Operational Programme Infrastructure and Environment 2014-2020):</i>
	<i>- Tworóg - Kędzierzyn-Koźle;</i>
	<i>- Zdieszowice- Wrocław.</i>
Comments	<i>Zdieszowice- Wrocław:</i>
	<i>TEN-E: " Studies and preinvestment works related to the utilization and further development possibilities of the Interconnector Poland - Czech Republic"</i>

General Comments

UGS Damasławek

UGS-N-914	Project	Storage Facility	Non-FID
Update Date	04/10/2019		Non-Advanced
Description	The purpose of the project is to construct a UGS facility in salt caverns in Damasławek in central Poland along with the pipeline connecting the UGS facility with the gas transmission system. The initial working gas volume will amount for 800 mcm. UGS Damasławek will play an important role from the point of view of SoS and competition perspective. It will also be instrumental in terms of ensuring proper functioning of the transmission system in Poland. The project scope covers the UGS facility in Damasławek and a connecting pipeline to the transmission network.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Damasławek (PL)	GAZ-SYSTEM S.A.	2026	STcPL	PL	200.00 GWh/d
	GAZ-SYSTEM S.A.	2026	PL	STcPL	100.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gas Transmission Operator GAZ-SYSTEM S.A.	100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	Yes (National Ten-Year Transmission System Development Plan 2020-2029)
		Operator	GAZ-SYSTEM S.A.	NDP Number	N/A
		Host Country	Poland	NDP Release Date	
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility			Considered Tariff Regime	Regulated
FEED			Applied for Exemption	No
Permitting			Exemption Granted	Not Relevant
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2026	2026		
Grant Obtention Date				

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
UGS Damasławek	Salt Cavern	Yes	UGS Damaslawek	800	8.9	17.7	75		2026

Benefits	
Main Driver	Others
Main Driver Explanation	Project drivers: SoS, market demand
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Upgrade of LNG terminal in Świnoujście

LNG-F-272	Project	LNG Terminal	FID
Update Date	22/11/2019		Advanced
Description	<p>The project includes the extension of the regasification capacity from 5 bcm/y to 7.5 bcm/year (nominal capacity). Project consist of the following elements:</p> <ul style="list-style-type: none">- Additional submerged combustion vaporizers (SCVs);- Third LNG storage tank of min 160.000 cm LNG;- Second jetty;- Rail loading terminal; <p>The terminal will provide for small scale services covering bunkering, reloading to smaller vessels, trans-shipment and rail loading. The expansion would entail increasing plant's regasification capacity and supply of highly-specialized LNG reloading service for smaller vessels, through which the Polish LNG terminal could become a prominent reloading depot for smaller installations operating in the region, as well as for bunkering vessels with LNG.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Swinoujście	GAZ-SYSTEM S.A.	2023	LNG_Tk_PL	PL	76.57 GWh/d
	Polskie LNG S.A.	2023	LNG_Tk_PL	PL	76.57 GWh/d

Sponsors		General Information		NDP and PCI Information	
Gas Transmission Operator	GAZ-SYSTEM S.A. 100%	Promoter	GAZ-SYSTEM S.A.	Part of NDP	Yes (National Ten-Year Transmission System Development Plan 2018-2027)
		Operator	Polskie LNG S.A.	NDP Number	N/A
		Host Country	Poland	NDP Release Date	
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	BEMIP

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	04/2015	12/2017	Considered Tariff Regime	Regulated
FEED	12/2017	06/2018	Applied for Exemption	No
Permitting	08/2017	01/2019	Exemption Granted	Not Relevant
Supply Contracts				
FID		05/2018	Exemption in entry direction	0.00%
Construction	04/2018	05/2023	Exemption in exit direction	0.00%
Commissioning	2023	2023		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
LNG terminal in Świnoujście	Yes	Extension	2.5	90,000	6.86	180,000	N/A	2023	50

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Benefits	
Main Driver	Others
Main Driver Explanation	Implementation of the project is driven by SoS and market demand considerations
Benefit Description	The extension of the LNG terminal in Świnoujście will have an impact on: increasing security of supply in the Baltic Sea and CEE regions by diversifying supply routes, sources (new physical source of supply for both regions) and counterparts (access to global LNG market); enhancing competition on regional markets; promoting natural gas as a reliable, competitive and environmentally-friendly source of energy e.g. in the transport sector (maritime transport); creating a physical hub in Swinoujscie and/or a virtual hub in Poland; establishing adequate technical conditions necessary to cover the forecasted growth of the gas demand in Poland and possible leverage for market coupling potential in the Baltic Sea region and in Central-Eastern Europe. The LNG terminal in Świnoujście contributes to the NSI EAST corridor, as the supplies from Świnoujście may be directed through upgraded transmission system in Poland, PL-CZ PL-SK and PL-UA interconnections towards the CEE region.

Barriers	
Barrier Type	Description
Others	Possible lack of risk-taking in the private gas sector which would result in insufficient long term commitments to enable the investment decision for the infrastructure operator. It could be mitigated by external subsidies (EU) to cover positive externalities such as SoS, positive environmental impact (reduction of emissions due to fuel change in maritime transport) and supply diversification in the Baltic area and the CEE region (including Ukraine).
Financing	Availability of funds and associated conditions
Regulatory	Capacity quotas
Regulatory	Low rate of return
Market	Lack of market maturity

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Carregado Compressor Station

TRA-A-320	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	The project consists of a Compressor Station in the main high pressure pipeline and it aims to increase the capacity of the pipeline section between Sines and Leiria, to enable that higher flow rates can be transported from the Sines LNG Terminal. This project enables the projects TRA-N-283 3rd IP between Portugal and Spain (pipeline Celorico-Spanish Border).		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Sines	REN - Gasodutos, S.A.	2025	LNG_Tk_PT	PT	92.80 GWh/d
Comment: Incremental capacity in pipeline network from Sines LNG regaseification.					

Sponsors	General Information	NDP and PCI Information
REN Gasodutos, SA100%	PromoterREN-Gasodutos, S.A.	Part of NDPYes (PDIRGN 2018 - 2027)
	OperatorREN - Gasodutos, S.A.	NDP Number-
	Host CountryPortugal	NDP Release Date19/12/2018
	StatusPlanned	NDP WebsiteNDP URL
	WebsiteProject's URL	Currently PCINo
		Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2010	Considered TPA Regime	Regulated
Feasibility	09/2008	01/2010	Considered Tariff Regime	Regulated
FEED	08/2010	11/2010	Applied for Exemption	No
Permitting	02/2014	07/2016	Exemption Granted	No
Supply Contracts		10/2023		
FID		05/2023	Exemption in entry direction	0.00%
Construction	01/2024	12/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Setubal - Leiria (Lote 1)	Carregado Compressor Station.			14	2025
Total				14	

Delays since last TYNDP

Delay Since Last TYNDP	3 years
Delay Explanation	The investment in this infrastructure should be decided in future NDP. The schedule of this project is aligned and is a enabler of the PCI project 5.4 - 3rd interconnection between Portugal and Spain (TRA-N-283), which in turn is dependent on STEP's decision.

Expected Gas Sourcing

LNG (DZ,LY,MX,NO,QA,RU,SA,ES,AE,US,VE,WO,YE)

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Se comments below.
Benefit Description	The project aims to increase the capacity of the pipeline section between Sines and Leiria, to enable that higher flow rates can be transported from the Sines LNG Terminal. The project will increase the interoperability and system flexibility and consequently support intermittent renewable generation, mainly from the high share of wind generation capacity installed in Portugal and Spain. With the expansion of the Sines LNG Terminal and the consequent increase in their regasification capacity to RNTGN, this project will contribute for the diversification of supply sources and also supplying counter parts. From the strategic and planning point of view, the Carregado CS is proposed in order to integrate the other infrastructures of the RNTIAT, namely the Sines LNG terminal, the construction of the 3rd interconnection Portugal-Spain and the development of the Carriço underground storage (UGS).

Barriers	
Barrier Type	Description
Regulatory	In simple terms and according to the current Portuguese regulation, the revenue stream will be obtained by the remuneration of the net invested capital of the project plus the amortization recovery and the opex cost recovery (subject to a mix of price cap and revenue cap regimes). These revenues will be ensured through the payment of regulated TPA tariffs by network users Nevertheless, it's important to notice that it is not possible to predict if, when and to what extent any changes to this model may occur.

CBCA	
Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	MIn EUR 0.0
Grants for works	No
Grants for works amount	MIn EUR 0.0
Intention to apply for CEF	No, we do not plan to apply
Other Financial Assistance	No
Comments	
General Comments	

Bilciuresti daily withdrawal capacity increase

UGS-F-311	Project	Storage Facility	FID
Update Date	18/11/2019		Advanced
Description	Upgrade of the surface facilities : compressor station, new dehydration unit, upgrade of measurement station and a new collecting pipeline between the compressor station and the well field. The project also includes drilling of four new wells. The project aims to increase the withdrawal rate from 14 million cm/day to 18 million cm/day.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP Romgaz UGS (RO)	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	2025	STcRO	RO	42.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL100%	Promoter	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	Part of NDP	No ((2) no NDP exists in the country)
			NDP Number	
			NDP Release Date	
			NDP Website	
	Operator	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	Currently PCI	No
			Priority Corridor(s)	NSIE
	Host Country	Romania		
	Status	In Progress		
	Website			

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2015	Considered TPA Regime	Regulated
Feasibility	03/2016	03/2017	Considered Tariff Regime	Regulated
FEED	12/2017	07/2020	Applied for Exemption	No
Permitting	05/2018	12/2020	Exemption Granted	No
Supply Contracts		06/2023		
FID		06/2017	Exemption in entry direction	0.00%
Construction	05/2018	09/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
Bilciuresti	Depleted Field	No	Bilciuresti daily withdrawal capacity increase	0	5.0	0.0	80		2025

Fulfilled Criteria	
Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing
Romania

Benefits	
Main Driver	Others
Main Driver Explanation	Higher delivery rate of gas per day. The project aims at supplying directly or indirectly at least two Member States and although it meets the competition, market integration, security of supply and sustainability criteria, the project's main contribution is to the European security of supply, given its complementarity to future major pipeline projects in Romania developed by SNTGN Transgaz S.A creating on one hand interconnections with the NTS of neighboring Member States (HU and BG) and on the other hand access to the newly discovered gas resources in the Black Sea, which are expected to be monetized soon.
Benefit Description	Its main regional benefits are: (a) SoS will benefit from the increase of withdrawal capacity, (b) increase the flexibility of the storage system, (c) contribution to the sustainability and flexibility of the transmission system especially of high pressure pipelines, (d) reduction of dependency on Russian gas, and (e) support for Romania's gas export potential.

Barriers	
Barrier Type	Description
Regulatory	Lack of stability of the methodologies regarding tariffs computation - under current regulations the project would increase the storage tariffs at a level which makes the storage business less attractive and don't respond to the increasing demands of the gas market.
Political	Frequent changes in legislation
Market	Reduced market demand from the companies acting on the gas market due to availability of gas imports
Financing	Due to the characteristics of the storage business, financial institutions are not interested to support such project yet.
Regulatory	Low rate of return
Market	Lack of market maturity
Market	Lack of market support
Financing	Amortization rates

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for work only</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Depomures

UGS-A-233	Project	Storage Facility	Non-FID
Update Date	25/08/2020		Advanced
Description	<p>The project consists in the revamping and expansion of an existing gas storage facility of 300 mcm situated in Targu Mures, Central Romania. The rationale of the project is three fold (i) increase operational independence by building its own compression unit as currently compression services are rented from another party (ii) gradually expand the storage capacity (from 300 mcm to 400 mcm in a first stage and to 600 mcm in a second stage) and (iii) increase flexibility of the storage by increasing injection and withdrawing capacity from the existing average 1.7 mcm/ day to approx. 5.0 mcm/day after implementation of the second stage.</p> <p>The implementation of the first stage has already been completed with a partial investment commissioned in Q1 2018, while the FID for the entire phase I of the development project is expected in 2019. The project contributes to increasing security of supply in Romania and to facilitating possible gas export in the region.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Targu Mures	Depomures	2021	STcRO	RO	18.92 GWh/d
	Depomures	2021	RO	STcRO	18.92 GWh/d
	Depomures	2024	STcRO	RO	15.78 GWh/d
	Depomures	2024	RO	STcRO	15.78 GWh/d

Sponsors		General Information		NDP and PCI Information	
GDF International	59%	Promoter	Engie Romania SA	Part of NDP	Yes (National Gas Transmission System Development Plan 2018-2027)
SNGN Romgaz SA	40%	Operator	Depomures	NDP Number	8.5
FORAJ SONDE SA	0%	Host Country	Romania	NDP Release Date	14/12/2018
MIF SA	0%	Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.20.4 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2004	Considered TPA Regime	Regulated
Feasibility	06/2008	06/2009	Considered Tariff Regime	Regulated
FEED	06/2011	06/2012	Applied for Exemption	No
Permitting	06/2012	09/2017	Exemption Granted	Not Relevant
Supply Contracts		08/2016		
FID		12/2019		
Construction	01/2020	03/2024	Exemption in entry direction	0.00%
Commissioning	2021	2024	Exemption in exit direction	0.00%
Grant Obtention Date				

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
Targu Mures	Depleted Field	No	Phase 1	100	1.8	1.8	100		2021
Targu Mures	Depleted Field	No	Phase 2	200	1.5	1.5	100		2024

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Although the project meets all the criteria, the most significant contribution it brings is to the EU's security of supply. - The project group increases the remaining flexibility for Romania. - The project group partially mitigates risk of demand curtailment in case of Ukrainian disruption in Romania. - The project group allows for partially mitigates risk of demand curtailment in Romania in case of disruption of the single largest infrastructures in Romania (VIP Mediesu Aurit - Isaccea (RO-UA)).

Delays since last TYNDP

Delay Since Last TYNDP	3 years for Phase 2
Delay Explanation	The main delay encountered is related to permit granting for part of the investment (i.e. the last sector of the main gathering pipeline). The construction of the main gathering pipeline was essential for the entire project and a pre-requisite for implementing the rest of the project (dehydration and compression station and subsequent expansion to 600 mcm of the capacity). The permit was eventually obtained in September 2017. In addition, the lack of visibility and certainty on tariff methodology represents an important drawback when it comes for taking the FID and obtaining the necessary financing sources.

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	In addition to those mentioned in the additional comments to the specific criteria, the project is even more important in the current rather potentially unstable geo-political context in the far Eastern Europe in which having sufficient capacities of the gas storage facilities may become critical for ensuring security of supply both in Romania and the neighboring countries, particularly during the periods with high / peak demands.
Benefit Description	By increasing storage deliverability, transmission capacity in Southern Romania is relieved thus creating the premises for potential exports towards Bulgaria and Southern Europe in general and increasing resilience in general in various supply disruption scenarios thus contributing to a more integrated European gas market. On the other hand, insufficient storage capacity may create uncertainty in terms of energy pricing and hence the region might face more volatile winter gas prices and, at least on the short and medium term, may become too dependent on energy imports. The implementation of the project would also increase the competition on the Romanian storage market considering that currently there are only 2 players: Depomures, the private operator with ~10% market share and Romgaz, state owned, with ~90% market share. Also, increased flexible storage services coupled with higher regional market integration and liberalization are key in the light of the future expected developments.

Barriers

Barrier Type	Description
Regulatory	Since the storage in Romania is regulated, the tariff methodology and concerned regulation must be clear and incentivising allowing to recover all investments costs engaged; hence the authorities should take an engagement to keep such a regulation stable on the medium to long term.
Permit Granting	The permit granting process has been delayed due to difficulties in obtaining the building permit from local administration for the last section of the main collector pipeline, which eventually delayed the implementation of the entire project.
Financing	Availability of funds and associated conditions
Regulatory	Low rate of return
Regulatory	Low or zero-priced short-term capacity

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Development on the Romanian territory of the NTS (BG-RO-HU-AT)-Phase I

TRA-F-358	Project	Pipeline including CS	FID
Update Date	22/09/2020		Advanced
Description	<p>The project consists in the building of a gas transmission pipeline connecting the Podișor Technological Node and the Recas Technological Node and the construction of three gas compressor stations along the pipeline route (Jupa CS, Bibești CS and Podișor CS) as follows:</p> <ul style="list-style-type: none">• Podișor – Recaş 32" x 63 bar gas transmission pipeline approximately 479 km long;• three gas compressor stations (Podișor CS, Bibești CS and Jupa CS), each station being equipped with two compressors, with the possibility to ensure bi-directional gas flow. <p>After the implementation of the project the following transmission capacities will be ensured:</p> <ul style="list-style-type: none">• towards Hungary: 1.75 bcm/year;• towards Bulgaria: 1.5 bcm/year.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Csanadpalota	SNTGN Transgaz S.A.	2020	RO	HU	47.75 GWh/d
Ruse (BG) / Giurgiu (RO)	SNTGN Transgaz S.A.	2019	RO	BGn	20.80 GWh/d
	SNTGN Transgaz S.A.	2020	RO	BGn	20.75 GWh/d

Sponsors		General Information		NDP and PCI Information	
SNTGN Transgaz S.A. <div><div></div></div>	100%	Promoter	SNTGN Transgaz S.A.	Part of NDP	Yes (Development Plan for the National GTS 2018-2027)
		Operator	SNTGN Transgaz S.A.	NDP Number	7.1.1
		Host Country	Romania	NDP Release Date	14/12/2018
		Status	In Progress	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.24.1.2 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		12/2013	Considered TPA Regime	Regulated
Feasibility	01/2014	12/2014	Considered Tariff Regime	Regulated
FEED	07/2015	02/2017	Applied for Exemption	No
Permitting	01/2014	02/2018	Exemption Granted	Not Relevant
Supply Contracts		08/2017		
FID		11/2016		
Construction	12/2017	12/2020	Exemption in entry direction	0.00%
Commissioning	2019	2020	Exemption in exit direction	0.00%
Grant Obtention Date	09/09/2016	09/09/2016		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Phase I: Podisor-Recas		800	479	28	2020
Total			479	28	

Fulfilled Criteria

Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	Phase I – Security of supply

Delays since last TYNDP

Delay Since Last TYNDP	Stage 1- 9 months delay in commissioning Stage 2 – 21 months in commissioning
Delay Explanation	Due to delays occurred in the tendering procedures, the promotion of pieces of laws required for the implementation, the discovery of archaeological sites along the pipeline route and the unfavourable weather conditions, it is currently estimated that even if parts of the project will be completed in 2019, the entire project will be completed by 2020.

Expected Gas Sourcing

Caspian Region, LNG (), Black Sea

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	

CBCA	
Decision	Yes, we have submitted an investment request and have received a decision
Submissin Date	12/10/2015
Decision Date	06/10/2015
Website	CBCA URL
Countries Affected	Hungary, Romania
Countries Net Cost Bearer	Hungary;#Romania
Additional Comments	

Financial Assistance	
Applied for CEF	(1) Yes, we have applied for CEF and we have received a decision
Grants for studies	Yes
Grants for studies amount	Mln EUR 1.5
Grants for works	Yes
Grants for works amount	Mln EUR 179.3
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	

Development on the Romanian territory of the Southern Transmission Corridor

TRA-A-362	Project	Pipeline including CS	Non-FID
Update Date	28/10/2019		Advanced
Description	Pipeline with a total length of approximately 308.3 km, it is a telescopic pipeline made up of two sections and it is designed to transmit gas at a pressure of 63 bar. The two sections of the pipeline are: <ul style="list-style-type: none">• Section I, Black Sea shore – Amzacea, 32.4 km long, will have a diameter of Ø 48" (Dn1200);• Section II, Amzacea – Podișor, 275.9 km long, will have a diameter of Ø 40" (Dn1000);		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
A		Promoter	SNTGN Transgaz SA	Part of NDP	Yes (The National Gas Transmission System Development Plan 2018-2027)
SNTGN Transgaz SA	100%	Operator	SNTGN Transgaz S.A.	NDP Number	7.2
Default		Host Country	Romania	NDP Release Date	14/12/2018
GOGC (GE)	25%	Status	Planned	NDP Website	NDP URL
MVM (HU)	25%	Website	Project's URL	Currently PCI	Yes (6.24.4.5 (2020))
ROMGAZ (RO)	25%			Priority Corridor(s)	
SOCAR (AZ)	25%				

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2014	Considered TPA Regime	Regulated
Feasibility	07/2014	01/2016	Considered Tariff Regime	Regulated
FEED	06/2016	02/2018	Applied for Exemption	No
Permitting	01/2015	05/2018	Exemption Granted	Not Relevant
Supply Contracts				
FID		12/2019	Exemption in entry direction	0.00%
Construction	12/2019	12/2021	Exemption in exit direction	0.00%
Commissioning	2021	2021		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Black Sea shore - Podișor	The pipeline is telescopic, the diameter is reduced to 1,000 mm	1,200	308		2021
Total			308		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	Security of supply, Market Integration, Sustainability, Competition

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Because of the postponement of the final investment decision of the titleholders of the Black Sea blocks

Expected Gas Sourcing

Black Sea

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	- Increase of competition through the diversification of gas sources and transmission routes, and the emerging of new players on the regional gas market, with positive effects on the gas price, decreasing thus market concentration for each impacted country; - Increase of sustainability through diminishing CO2 emissions, as a result of replacing gas with liquid (oil) or solid fossil fuels (coal) with higher CO2 emissions.

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Falticeni UGS

UGS-N-399	Project	Storage Facility	Non-FID
Update Date	28/08/2019		Advanced
Description	The project aims to transform one or several depleted gas fields in gas storage facilities of approximately 200 mil mc total capacity an injection rate of 1.4 mmc/day and withdrawal capacity of approximately 2 mil mc/day		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP Romgaz UGS (RO)	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	2029	STcRO	RO	18.00 GWh/d
	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	2029	RO	STcRO	14.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	Promoter	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	Part of NDP	No ((2) no NDP exists in the country)
100%			NDP Number	
	Operator	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	NDP Release Date	
			NDP Website	
	Host Country	Romania	Currently PCI	No
			Priority Corridor(s)	
	Status	Planned		
	Website	Project's URL		

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	03/2020	03/2021	Considered Tariff Regime	Regulated
FEED	02/2024	02/2025	Applied for Exemption	No
Permitting	03/2025	03/2026	Exemption Granted	No
Supply Contracts		10/2027		
FID		11/2023	Exemption in entry direction	0.00%
Construction	09/2026	03/2029	Exemption in exit direction	0.00%
Commissioning	2029	2029		
Grant Obtention Date				

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
Falticeni UGS	Depleted Field	No	Falticeni new UGS	200	2.0	1.4	90	This is a one phase project. Expected Load Factor to be updated by the Feasibility Study	2027

Expected Gas Sourcing									
Romania									

Benefits

Main Driver	Others
Main Driver Explanation	The project aims at supplying with gas, directly or indirectly, the northern part of the country. it meets the market integration, security of supply and sustainability criteria
Benefit Description	Its main regional benefits are: (a) SoS in the region, (b) increase the flexibility of the storage system,

Barriers

Barrier Type	Description
Regulatory	Lack of stability of the methodologies regarding tariffs computation - under current regulations the project would increase the storage tariffs at a level which makes the storage business less attractive and don't respond to the increasing demands of the gas market
Political	Frequent changes in legislation
Market	Reduced market demand from the companies acting on the gas market due to availability of gas imports
Financing	Due to the characteristics of the storage business, financial institutions are not interested to support such project yet
Regulatory	Low rate of return
Financing	Amortization rates
Financing	Availability of funds and associated conditions
Market	Lack of market maturity
Market	Lack of market support

CBCA

Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>Yes, for work only</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Further enlargement of the BG—RO—HU—AT transmission corridor (BRUA) phase 3

TRA-N-959	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Non-Advanced
Description	Development of gas transmission capacity on the Onești – Coroi – Hațeg – Nădlac corridor depending on the available gas quantities at the Black Sea shore or from other on-shore blocks. The development of this gas transmission corridor requires: <input type="checkbox"/> the rehabilitation of some of the NTS existing pipelines; <input type="checkbox"/> replacement of some of the NTS existing pipelines with new pipelines or the building of new pipelines installed in parallel with the existing ones; <input type="checkbox"/> development of 4 or 5 new compressor stations having a total installed power of approximately 66- 82.5MW.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Csanadpalota 2	SNTGN Transgaz S.A.	2023	HU	RO	128.73 GWh/d
	SNTGN Transgaz S.A.	2023	RO	HU	128.73 GWh/d

Sponsors		General Information		NDP and PCI Information	
SNTGN Transgaz SA	100%	Promoter	SNTGN Transgaz SA	Part of NDP	Yes (The National Gas Transmission System Development Plan 2018-2027)
		Operator	SNTGN Transgaz S.A.	NDP Number	7.5
		Host Country	Romania	NDP Release Date	14/12/2018
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2023	2023
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Onesti - Nadlac	existing pipelines + rehabilitation + new pipelines	813	843	82	2023
Total			843	82	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region, LNG (), Black Sea or other on-shore blocks

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, but we do plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Ghercesti underground gas storage in Romania

UGS-N-398	Project	Storage Facility	Non-FID
Update Date	28/08/2019		Advanced
Description	Ghercesti Underground Storage in Romania consists in the increase of working capacity up to 600 MCM/cycle, resulting in a capacity increment of 450 Mcm/cycle, and enhanced withdrawal capacity of up to 5 million cm/day. The required investment consists of: - construction of two compressor module, - one dehydration unit; - 80 km of connecting pipeline; The geological suitability is backed up by existing reservoir studies. The rationale of the project is to: (a) fulfilling of N-1 rule at regional level, (b) increase the flexibility of the storage system, contribute to the sustainability and flexibility of the transmission system, (d) reduce dependency on Russian gas etc.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP Romgaz UGS (RO)	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	2026	STcRO	RO	28.00 GWh/d
	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	2026	RO	STcRO	18.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SR100%	Promoter	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	Part of NDP	No ((2) no NDP exists in the country)
	Operator	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	NDP Number	
			NDP Release Date	
			NDP Website	
			Currently PCI	No
			Priority Corridor(s)	NSIE
	Host Country	Romania		
	Status	Planned		
	Website	Project's URL		

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	02/2020	02/2021	Considered Tariff Regime	Regulated
FEED	06/2021	06/2022	Applied for Exemption	No
Permitting	07/2022	12/2023	Exemption Granted	No
Supply Contracts		03/2023		
FID		03/2021	Exemption in entry direction	0.00%
Construction	01/2024	12/2026	Exemption in exit direction	0.00%
Commissioning	2026	2026		
Grant Obtention Date				

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
Ghercesti	Depleted Field	No	Ghercesti underground gas storage in Romania	450	3.0	0.0	70	This is a one phase project. Expected Load Factor to be updated by the Feasibility Study	2027

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Romania

Benefits

Main Driver	Others
Main Driver Explanation	The project aims at supplying directly or indirectly at least two Member States and although it meets the competition, market integration, security of supply and sustainability criteria, the project’s main contribution is to the European security of supply, given its complementarity to future major pipeline projects in Romania developed by TSO creating on one hand interconnections with the NTS of neighboring Member States (HU and BG) and on the other hand access to the newly discovered gas resources in the Black Sea, which are expected to be monetized soon.
Benefit Description	Its main regional benefits are: (a)SoS will benefit from the increase of withdrawal capacity , (b) increase the flexibility of the storage system, (c) creating additional capacities for energy transition from coal to gas, (d) support for Romania's gas export potential.

Barriers

Barrier Type	Description
Regulatory	Lack of stability of the methodologies regarding tariffs computation - under current regulations the project would increase the storage tariffs at a level which makes the storage business less attractive and don't respond to the increasing demands of the gas market
Political	Frequent changes in legislation
Market	Reduced market demand from the companies acting on the gas market due to availability of gas imports
Financing	Due to the characteristics of the storage business, financial institutions are not interested to support such project yet.
Regulatory	Low rate of return
Financing	Amortization rates
Market	Lack of market maturity
Market	Lack of market support

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for work only</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Interconnection of the NTS with the DTS and reverse flow at Isaccea

TRA-F-139	Project	Pipeline including CS	FID
Update Date	22/11/2019		Advanced
Description	<div>The project consists in the following:</div> <ul style="list-style-type: none">• Phase I:<ul style="list-style-type: none">- NTS Interconnection with the international gas transmission pipeline Transit 1, in the area of the Isaccea metering station;- Repair works to the Dn 800 mm Cosmești - Onești pipeline (66,0 km).• Phase II:<ul style="list-style-type: none">- Upgrading and extension of the gas compressor station Siliștea;- Upgrading the Gas compressor station Onești;- Modifications inside the TN Siliștea and TN Onești- Works in the TN Șendreni.		
PRJ Code - PRJ Name	-		

Sponsors		General Information		NDP and PCI Information	
Transgaz	100%	Promoter	<i>SNTGN Transgaz SA</i>	Part of NDP	<i>Yes (The National Gas Transmission System Development Plan 2018-2027)</i>
		Operator	<i>SNTGN Transgaz S.A.</i>	NDP Number	<i>7.3</i>
		Host Country	<i>Romania</i>	NDP Release Date	<i>14/12/2018</i>
		Status	<i>In Progress</i>	NDP Website	<i><u>NDP URL</u></i>
		Website	<i><u>Project's URL</u></i>	Currently PCI	<i>No</i>
				Priority Corridor(s)	<i>NSIE</i>

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2014	Considered TPA Regime	Regulated
Feasibility	06/2017	12/2017	Considered Tariff Regime	Regulated
FEED	01/2018	12/2020	Applied for Exemption	No
Permitting	12/2017	12/2019	Exemption Granted	Not Relevant
Supply Contracts				
FID		04/2018	Exemption in entry direction	0.00%
Construction	05/2018	12/2020	Exemption in exit direction	0.00%
Commissioning	2020	2020		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Onesti - Cosmesti	Phase I: The length of the route from Onesti to Isaccea is approx.. 200 km, but repair/upgrading works are envisaged only for 66.0 km.	813	66		0
	Phase II: Gas Compressor Station Siliştea: the existing gas compressor station is equipped with three compressor units: one with a power of 3.2 MW which will be decommissioned and two with a power of 2.9 MW / compressor group which will be maintained.			9	0
Total			66	9	

Fulfilled Criteria

Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	12 months
Delay Explanation	Obtaining the necessary permits, authorizations and agreements, extension of the duration of the tender procedure

Expected Gas Sourcing

Black Sea

Benefits

Main Driver	Regulation-Interoperability
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Permit Granting	The permitting process is long and complicated
Financing	Availability of funds and associated conditions

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

New NTS developments for taking over gas from the Black Sea shore

TRA-F-964	Project	Pipeline including CS	FID
Update Date	22/11/2019		Advanced
Description	The project consists in the construction of a new 25 km pipeline from the Black Sea shore up to the international transit pipeline T1 with a diameter of DN 500 and a design pressure of 55 bar.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	NDP and PCI Information
SNTGN Transgaz SA100%	PromoterSNTGN Transgaz SA OperatorSNTGN Transgaz S.A. Host CountryRomania StatusPlanned Website	Part of NDPYes (The National Gas Transmission System Development Plan 2018-2027) NDP Number7.6 NDP Release Date14/12/2018 NDP WebsiteNDP URL Currently PCINo Priority Corridor(s)NSIE

Schedule	Start Date	End Date	Third-Party Access Regime
Pre-Feasibility		09/2016	Considered TPA RegimeRegulated
Feasibility	10/2016	05/2017	Considered Tariff RegimeRegulated
FEED	08/2017	01/2018	Applied for ExemptionNo
Permitting	03/2017	12/2017	Exemption GrantedNo
Supply Contracts		10/2018	
FID		02/2019	Exemption in entry direction0.00%
Construction	03/2019	12/2020	Exemption in exit direction0.00%
Commissioning	2021	2021	
Grant Obtention Date			

Pipelines and Compressor Stations						
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Vadu-Gradina			508	25		2021
Total				25		
Fulfilled Criteria						
Specific Criteria Fulfilled		Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas				
Specific Criteria Fulfilled Comments						
Expected Gas Sourcing						
Black Sea						
Benefits						
Main Driver	Market Demand					
Main Driver Explanation						
Benefit Description						
CBCA			Financial Assistance			
Decision	No, we have not submitted an investment request yet, and we do not plan to submit it		Applied for CEF		(3) No, we have not applied for CEF	
Submissin Date			Grants for studies		No	
Decision Date			Grants for studies amount		Mln EUR 0.0	
Website			Grants for works		No	
Countries Affected			Grants for works amount		Mln EUR 0.0	
Countries Net Cost Bearer			Intention to apply for CEF		No, we do not plan to apply	
Additional Comments		Other Financial Assistance		No		
		Comments				
		General Comments				



NTS developments in North-East Romania

TRA-F-357	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	The Project „NTS development in the North East area of Romaniei in order to improve gas supply in the area as well as to ensure transmission capacities to the Republic of Moldova” consists in the construction of a new gas transmission pipeline to connect the Technological Node Onești with the Technological Node Lețcani in the Onești – Gherăești – Lețcani direction. The project implies the construction of new objectives and the construction of two pipeline sections with a total length of 165,150 km from the Technological Node Onești and up to the Technological Node Lețcani and of two gas compressor stations.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Ungheni	SNTGN Transgaz S.A.	2021	RO	MD	42.11 GWh/d

Sponsors		General Information		NDP and PCI Information	
SNTGN Transgaz S.A.	100%	Promoter	SNTGN Transgaz SA	Part of NDP	Yes (The National Gas Transmission System Development Plan 2018 - 2027)
		Operator	SNTGN Transgaz S.A.	NDP Number	7.4
		Host Country	Romania	NDP Release Date	14/12/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		02/2014	Considered TPA Regime	Regulated
Feasibility	02/2014	01/2018	Considered Tariff Regime	Regulated
FEED	01/2016	01/2018	Applied for Exemption	No
Permitting	01/2016	01/2018	Exemption Granted	Not Relevant
Supply Contracts				
FID		12/2018	Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2021	2021		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Onesti - Gheraesti - Letcani		711	165	18	2021
Total			165	18	

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Obtaining the necessary endorsements, agreements and permits, extension of the procurement procedure durations.

Expected Gas Sourcing

European gas market, Black Sea

Benefits	
Main Driver	Others
Main Driver Explanation	To improve gas supply in the area, as well as to ensure transmission capacities to the Republic of Moldova
Benefit Description	By the completion of this project a constant gas flow is ensured to the consumers in the North-Eastern area of Romania, creating the possibility to deliver additional gas quantities, wich may contribute to the development of the area from an economic an social point of view. Creates the possibility to ensure security of supply of the Republic of Moldova.

Barriers	
Barrier Type	Description
Permit Granting	The permitting process is long and complicated
Political	Area with potential conflicts Requires the conclusion of an Intergovernmental Agreement
Financing	Availability of funds and associated conditions

Intergovernmental Agreements			
Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of Understanding	Memorandum of understanding between the Ministry of Economy, Commerce and Business Environment in Romania and the Ministry of Economy from the Republic of Moldova related to preparing the conditions for the construction of the high pressure gas transmissi	Yes	21/05/2015

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	No
Decision Date		Grants for studies amount	Mln EUR 0.0
Website		Grants for works	No
Countries Affected		Grants for works amount	Mln EUR 0.0
Countries Net Cost Bearer		Intention to apply for CEF	<i>No, we do not plan to apply</i>
Additional Comments		Other Financial Assistance	No
		Comments	
		General Comments	

NTS developments in North-Vest Romania

TRA-N-598	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	<p>The project entails the achievement of the objectives related to the National Gas Transmission System, in the North-Western part of Romania, with the aim to create new gas transmission capacities or to increase the existing ones. The project consists in:</p> <ul style="list-style-type: none">□ the construction of a gas transmission pipeline and of the related equipment in the direction Horia – Medieșu Aurit;□ the construction of a gas transmission pipeline and of the related equipment in the direction Sărmășel – Medieșu Aurit;□ the construction of a gas transmission pipeline and of the related equipment in the direction Huedin – Aleșd;□ the construction of a gas compressor station at Medieșu Aurit;		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP Mediesu Aurit - Isaccea (RO-UA)	SNTGN Transgaz S.A.	2026	RO	UAe	77.18 GWh/d

Sponsors		General Information		NDP and PCI Information	
SNTGN Transgaz SA	100%	Promoter	SNTGN Transgaz SA	Part of NDP	No ((1) the NDP was prepared at an earlier date and the project will be proposed for inclusion in the next NDP)
		Operator	SNTGN Transgaz S.A.		
		Host Country	Romania	NDP Number	No
		Status	Planned	NDP Release Date	
		Website		NDP Website	
				Currently PCI	
				Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		12/2016
Feasibility	07/2019	07/2020
FEED	07/2020	12/2023
Permitting	07/2020	12/2023
Supply Contracts		
FID		12/2020
Construction	01/2021	12/2026
Commissioning	2026	2026
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Abramut-Mediesu Aurit		700	134		2026
Bors-Abramut		700	28		2025
Horia-Bors		700	112		2022
Huedin-Alesd		500	73	10	2025
Sarmasel-Mediesu Aurit		400	171		2026
Total			518	10	

Expected Gas Sourcing

Caspian Region, Russia, LNG (), Black Sea, EU Hubs

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	Increase in the gas transmission capacity in the Western part of the country to ensure gas supply to the new developments and to enable reverse flow in the direction Ukraine- Mediesul Aurit
Benefit Description	

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

Romania-Serbia Interconnection

TRA-A-1268	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Non-Advanced
Description	The project implies the construction of a gas transmission pipeline DN 600 x 63 bar 97 Km long with the connection point in the BRUA pipeline in the Petrovaselo area, the county of Timiș. In the connection point a pig receiving/launching station will be installed. On the Romanian territory the pipeline is 85.56 km long, a Gas Metering Station, 18 line valves and two pig launching/receiving stations, one in the Petrovaselo direction and one in the Mokrin direction.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
RO/SB IP	SNTGN Transgaz S.A.	2020	RO	RS	46.27 GWh/d
	SNTGN Transgaz S.A.	2020	RS	RO	46.27 GWh/d

Sponsors	General Information		NDP and PCI Information	
SNTGN Transgaz SA	100%	Promoter	SNTGN Transgaz SA	Yes (THE NATIONAL GAS TRANSMISSION SYSTEM DEVELOPMENT PLAN 2018-2027)
		Operator	SNTGN Transgaz S.A.	
		Host Country	Romania	
		Status	Planned	
		Website		
			NDP Number	7.7
			NDP Release Date	14/12/2018
			NDP Website	NDP URL
			Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		02/2018	Considered TPA Regime	Regulated
Feasibility	02/2018	11/2018	Considered Tariff Regime	Regulated
FEED	03/2018	01/2019	Applied for Exemption	No
Permitting	03/2018	10/2019	Exemption Granted	No
Supply Contracts				
FID			Exemption in entry direction	0.00%
Construction			Exemption in exit direction	0.00%
Commissioning	2020	2020		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
PETROVASELO-COMLOȘU MARE	Romanian section of the interconnection pipeline	600	85		2020
Total			85		

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Permit Granting	The permitting process is long and complicated
Financing	Availability of funds and associated conditions

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Sarmasel underground gas storage in Romania

UGS-N-371	Project	Storage Facility	Non-FID
Update Date	28/08/2019		Non-Advanced
Description	<p>Sarmasel Underground Storage in Romania consists in the increase of working capacity up to 1.55 BCM/cycle, resulting in a capacity increment of 0.65 Bcm/cycle, an enhanced withdrawal capacity of up to 12 million cm/day and an increased injection rate of up to 10 million cm/day.</p> <p>The required investment consists of:</p> <ul style="list-style-type: none">- construction of one more compressor module,- refurbishment of surface infrastructure for all injection-withdrawal wells;- recompletion of all wells and installation of safety devices for each of them;- drilling new additional wells;- increasing the cushion gas. <p>The geological suitability is backed up by existing reservoir studies.</p> <p>The rationale of the project is to: (a) decongest existing storage capacities in South Romania which may become available for neighboring countries, (b) increase the flexibility of the storage system, contribute to the sustainability and flexibility of the transmission system , (d) reduce dependency on Russian gas etc.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP Romgaz UGS (RO)	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	2024	STcRO	RO	45.00 GWh/d
	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	2024	RO	STcRO	34.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SR	100%	Promoter	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	Part of NDP	No ((2) no NDP exists in the country)
				NDP Number	
				NDP Release Date	
				NDP Website	
		Operator	SNGN ROMGAZ SA - FILIALA DE INMAGAZINARE GAZE NATURALE DEPOGAZ PLOIESTI SRL	Currently PCI	Yes (6.20.6 (2020))
		Host Country	Romania	Priority Corridor(s)	
		Status	Planned		
		Website	Project's URL		

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2016	Considered TPA Regime	Regulated
Feasibility	03/2019	03/2020	Considered Tariff Regime	Regulated
FEED	06/2020	04/2021	Applied for Exemption	No
Permitting	04/2021	10/2021	Exemption Granted	No
Supply Contracts		12/2021		
FID		06/2020	Exemption in entry direction	0.00%
Construction	01/2022	10/2024	Exemption in exit direction	0.00%
Commissioning	2024	2024		
Grant Obtention Date	01/12/2021	01/12/2021		

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
UGS SARMASEL	Depleted Field	No	Sarmasel underground gas storage in Romania	650	3.2	4.0	70	This is a one phase project. Expected Load Factor to be updated by the Feasibility Study	2024

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	TYNDP views RO as gas source during 2020-2030, but afterwards there is major impact on RO: (1) Disruption Rate doubling from 10% to 20% in case of UA import route disruption, and (2) N-1 which cannot be fulfilled anymore, dropping to 83% for Low Infrastructure and to 85% for Adv. Infra. CBA assessment shows cross-border impact of the Sarmasel storage on SE Europe in terms of security of supply, in case of UA route disruption for all neighbouring countries: BG, HU, RS. CBA results show that irrespective of the geographical location of the storage or the distance to transit lines or the interconnection systems between countries, there is an impact on neighbouring countries through the transmission system in case of UA disruption. There is an impact of the project between 2and 4 % on DR for all scenarios and type of infrastructure. On N-1 the project impact varies between 3-4 % in 2030. It provides stability and flexibility to the entire transmission system, as shown in RO TSO NTS Dev Pl.

Delays since last TYNDP	
Delay Since Last TYNDP	FID has changed from Q1 2018 to 01/01/2019
Delay Explanation	

Expected Gas Sourcing	
Romania	

Benefits	
Main Driver	Others
Main Driver Explanation	The project aims at supplying directly or indirectly at least two Member States and although it meets the competition, market integration, security of supply and sustainability criteria, the project's main contribution is to the European security of supply, given its complementarity to future major pipeline projects in Romania developed by SNTGN Transgaz S.A creating on one hand interconnections with the NTS of neighboring Member States (HU and BG) and on the other hand access to the newly discovered gas resources in the Black Sea, which are expected to be monetized soon.
Benefit Description	Its main regional benefits are: (a) decongestion of existing storage capacities in South Romania which may become available for neighboring countries, (b) increase the flexibility of the storage system, (c) contribution to the sustainability and flexibility of the transmission system especially of high pressure pipelines, (d) reduction of dependency on Russian gas, and (e) support for Romania's gas export potential.

Barriers	
Barrier Type	Description
Regulatory	- lack of stability of the methodologies regarding tariffs computation - under current regulation the project could increase the storage tariffs at a level which make the storage business less attractive. The methodology does not respond to the increasing demands of the gas market for multiple types of tariffs
Political	Frequent changes in legislation
Market	Reduced market demand from the companies acting on the gas market due to availability of gas imports
Financing	Due to the characteristics of the storage business, financial institutions are not interested to support such project yet.
Market	Lack of market maturity
Financing	Amortization rates
Regulatory	Low rate of return
Market	Lack of market support

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.6</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for work only</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	<i>We have applied for CEF grant for studies but it was not approved</i>
		General Comments	<i>We have applied for CEF grant for studies but it was not approved,</i>

Upgrading GMS Isaccea 1 and GMS Negru Voda 1

TRA-F-1277	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	The project "Upgrading GMS Isaccea 1 and GMS Negru Vodă 1" consists in the construction of two new gas metering stations on the existing locations of the Metering Stations		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Isaccea (RO) - Orlovka (UA) I	SNTGN Transgaz S.A.	2021	RO/TBP	UAe	28.92 GWh/d

Sponsors		General Information		NDP and PCI Information	
SNTGN Transgaz SA	100%	Promoter	SNTGN Transgaz SA	Part of NDP	Yes (The National Gas Transmission System development Plan 2018 - 2027)
		Operator	SNTGN Transgaz S.A.	NDP Number	7.8
		Host Country	Romania	NDP Release Date	14/12/2018
		Status	Planned	NDP Website	NDP URL
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	01/2018	08/2018	Considered Tariff Regime	Regulated
FEED	01/2018	12/2019	Applied for Exemption	No
Permitting	01/2018	12/2019	Exemption Granted	No
Supply Contracts				
FID		12/2018	Exemption in entry direction	0.00%
Construction	12/2018	12/2020	Exemption in exit direction	0.00%
Commissioning	2021	2021		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
A	The project refers only to the upgrading of the two Gas Metering Stations				2021
Total					

Delays since last TYNDP

Delay Since Last TYNDP	
Delay Explanation	Obtaining the necessary permits, agreements and approvals, extension of the duration of the tender procedures

Expected Gas Sourcing

Caspian Region, Russia

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we do not plan to submit it
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Project GO4LNG LNG terminal Gothenburg

LNG-A-32	Project	LNG Terminal	Non-FID
Update Date	22/11/2019		Advanced
Description	A small-scale LNG terminal, including connection to the transmission grid, placed in the Gothenburg harbour, with flexible send out by rail, truck, bunkering and regasification.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Gothenburg LNG	Swedegas AB	2022	LNG_Tk_SE	SE	26.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
Swedegas AB	100%	Promoter	Swedegas AB	Part of NDP	No ((2) no NDP exists in the country)
		Operator	Swedegas AB	NDP Number	
		Host Country	Sweden	NDP Release Date	
		Status	Planned	NDP Website	
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	BEMIP

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2012	Considered TPA Regime	Regulated
Feasibility	01/2012	06/2012	Considered Tariff Regime	Regulated
FEED	01/2020	05/2020	Applied for Exemption	No
Permitting	10/2013	05/2014	Exemption Granted	No
Supply Contracts		05/2020		
FID		06/2020	Exemption in entry direction	0.00%
Construction	06/2020	04/2023	Exemption in exit direction	0.00%
Commissioning	2022	2022		
Grant Obtention Date				

Technical Information (LNG)									
Regasification Facility	Reloading Ability	Project Phase	Expected Increment (bcm/y)	Ship Size (m3)	Send-out capacity (mcm/d)	Storage capacity (m3 LNG)	Comments	Commissioning Year	Load Factor (%)
Gothenburg LNG terminal	Yes	Development	9,999.0	75,000	2.40	25,000	-	2023	100

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	Delayed because of market development is slower than expected. Discussions on-going with key potential players.

Expected Gas Sourcing	
LNG (EU,LNG,NO)	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers	
Barrier Type	Description
Market	Lack of market maturity

CBCA		Financial Assistance	
Decision	<i>Yes, we have submitted an investment request and have received a decision</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date	<i>17/09/2015</i>	Grants for studies amount	<i>Mln EUR 1.8</i>
Website	<i>CBCA URL</i>	Grants for works	<i>No</i>
Countries Affected	<i>Denmark, Sweden</i>	Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer	<i>Sweden</i>	Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>Yes</i>
		Comments	<i>TEN-T subsidy. Though Swedegas only spent 100kEUR of the total subsidy (due to delay in the project and loss of subsidy)</i>
		General Comments	

CS Ajdovščina, 1st phase of upgrade

TRA-N-92	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Non-Advanced
Description	Adjustment to the operating parameters of the transmission system of the Italian TSO and increasing the transmission capacity.		
PRJ Code - PRJ Name	-		

Sponsors	General Information		NDP and PCI Information	
Promoter	Plinovodi d.o.o.	Part of NDP	Yes (TYNDP for the period 2019-2028)	
Operator	Plinovodi d.o.o.	NDP Number	C1	
Host Country	Slovenia	NDP Release Date	26/11/2018	
Status	Planned	NDP Website	NDP URL	
Website	Project's URL	Currently PCI	Yes (6.23 (2020))	
		Priority Corridor(s)		

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	11/2014	02/2015	Considered Tariff Regime	Regulated
FEED	09/2021	12/2023	Applied for Exemption	No
Permitting	10/2022	10/2024	Exemption Granted	No
Supply Contracts		10/2025		
FID		09/2020	Exemption in entry direction	0.00%
Construction	10/2024	10/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Ajdovščina, 1st phase of upgrade	Power up to 5 MW.			5	0
Total				5	

Fulfilled Criteria

Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Algeria, Caspian Region, Russia, LNG (HR,IT), UGS in Hungary

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Agreement between PMs of Estonia and Finland	Agreement in regards to the gas infrastructure in the countries.	Yes	17/11/2014
Memorandum of Understanding	MoU between Estonia and Finland and LNG project promoters	Yes	28/02/2014

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

CS Kidričevo, 2nd phase of upgrade

TRA-N-94	Project	Pipeline including CS	Non-FID
Update Date	15/08/2019		Advanced
Description	Upgrade of CS for higher operational pressure in the existing M1/1 and M2/1 pipelines, higher flow and bidirectional operation in the frame of the bidirectional gas route Austria - Slovenia - Croatia. The project is a part of the PCI 6.26 Cluster Croatia - Slovenia - Austria at Rogatec.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	NDP and PCI Information
Plinovodi100%	PromoterPlinovodi d.o.o.	Part of NDPYes (TYNDP for the period 2019-2028)
	OperatorPlinovodi d.o.o.	NDP NumberC5
	Host CountrySlovenia	NDP Release Date26/11/2018
	StatusPlanned	NDP WebsiteNDP URL
	WebsiteProject's URL	Currently PCIYes (6.26.1.2 (2020))
		Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime
Pre-Feasibility		01/2015	Considered TPA RegimeRegulated
Feasibility	04/2015	05/2015	Considered Tariff RegimeRegulated
FEED	07/2020	07/2022	Applied for ExemptionNo
Permitting	07/2021	12/2022	Exemption GrantedNo
Supply Contracts		12/2023	
FID		09/2021	Exemption in entry direction0.00%
Construction	07/2022	12/2023	Exemption in exit direction0.00%
Commissioning	2023	2023	
Grant Obtention Date			

Pipelines and Compressor Stations						
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year	
CS Kidričevo, 2nd phase of upgrade	Up to three compressor units with total power of up to 30 MW.			30	0	
Total				30		

Fulfilled Criteria	
Specific Criteria Fulfilled	Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes
Specific Criteria Fulfilled Comments	Upgrade of CS for higher operational pressure in the existing M1/1 and M2/1 pipelines, higher flow and bidirectional operation. The project aims to assure additional necessary compressor power for the PCI 6.26 Cluster Croatia - Slovenia - Austria at Rogatec. The project will contribute to the facilitation of market integration and provide infrastructure allowing the increase of security of supply for the region.

Expected Gas Sourcing
Caspian Region, Russia, LNG (HR)

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Also essential contribution to Security of supply.
Benefit Description	

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Submissin Date		Grants for studies	<i>No</i>
Decision Date		Grants for studies amount	<i>Mln EUR 0.0</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>No decision yet taken</i>
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

M3 pipeline reconstruction from CS Ajdovščina to Šempeter/Gorizia

TRA-N-108	Project	Pipeline including CS	Non-FID
Update Date	26/11/2019		Non-Advanced
Description	Interconnector with the Italian TSO. Adjustment to operating parameters of the transmission system of the Italian TSO.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Gorizia (IT) /Šempeter (SI)	Plinovodi d.o.o.	2025	IT	SI	0.00 GWh/d
	Comment: Total capacity is 49 GWh/d.				
	Plinovodi d.o.o.	2025	SI	IT	0.00 GWh/d
	Comment: Total capacity is 49 GWh/d.				

Sponsors		General Information		NDP and PCI Information	
Plinovodi	100%	Promoter	Plinovodi d.o.o.	Part of NDP	Yes (TYNDP for the period 2019-2028)
		Operator	Plinovodi d.o.o.	NDP Number	C2
		Host Country	Slovenia	NDP Release Date	26/11/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	Yes (6.23 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Regulated
Feasibility	11/2014	02/2015	Considered Tariff Regime	Regulated
FEED	09/2021	12/2023	Applied for Exemption	No
Permitting	10/2022	10/2024	Exemption Granted	No
Supply Contracts		10/2025		
FID		09/2020	Exemption in entry direction	0.00%
Construction	10/2024	10/2025	Exemption in exit direction	0.00%
Commissioning	2025	2025		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
M3 pipeline reconstruction from CS Ajdovščina to Šempeter/Gorizia		500	12		0
Total			12		

Fulfilled Criteria

Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	na

Expected Gas Sourcing

Algeria, Caspian Region, Russia, LNG (HR,IT), UGS in Hungary

Benefits	
Main Driver	Others
Main Driver Explanation	Adjustment of IP boundary conditions (pressure).
Benefit Description	

CBCA	
Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

M3/1 Šempeter - Vodice

TRA-N-299	Project	Pipeline including CS	Non-FID
Update Date	26/11/2019		Advanced
Description	Interconnector with the Italian TSO, cross-border transmission. The project is connected to CS Ajdovščina, 1st phase of upgrade. In the frame of gas transmission corridor Hungary-Slovenia-Italy, it will enable the connection of gas markets in the Region.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Gorizia (IT) /Šempeter (SI)	Plinovodi d.o.o.	2026	IT	SI	49.00 GWh/d
	Comment: Total capacity is 77.3 GWh/d.				
	Plinovodi d.o.o.	2026	SI	IT	51.60 GWh/d
	Comment: Total capacity is 77.3 GWh/d.				

Sponsors		General Information		NDP and PCI Information	
Plinovodi	100%	Promoter	Plinovodi d.o.o.	Part of NDP	Yes (TYNDP for the period 2019-2028)
		Operator	Plinovodi d.o.o.	NDP Number	C7, C8, C9 (3 sections)
		Host Country	Slovenia	NDP Release Date	26/11/2018
		Status	Planned	NDP Website	NDP URL
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	NSIE

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	11/2014	02/2015
FEED	03/2021	03/2024
Permitting	03/2022	03/2024
Supply Contracts		01/2026
FID		09/2020
Construction	03/2024	12/2026
Commissioning	2026	2026
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
M3/1a Šempeter - Ajdovščina		800	30		2026
M3/1b Ajdovščina - Kalce		800	24		2026
M3/1c Kalce - Vodice		800	47		2026
Total			101		

Fulfilled Criteria

Specific Criteria Fulfilled	Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Algeria, Caspian Region, Russia, LNG (HR,IT), UGS in Hungary

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No decision yet taken
Other Financial Assistance	No
Comments	
General Comments	

Capacity increase at IP Lanžhot entry

TRA-F-902	Project	Pipeline including CS	FID
Update Date	18/11/2019		Advanced
Description	The goal of the project Capacity increase at IP Lanžhot (Entry - Eustream) is the upgrade of cross-border capacity at the entry IP Lanžhot. The incremental capacity will be secured by construction of a new compressor station in the territory of western Slovakia near the border with the Czech Republic. This solution represents prerequisite for market integration in the Central European region and requested flexibility for transmission mitigating impact on environment via utilization of existing transmission corridor.Project is also developed in the context of Eastring project, the aim is to provide sufficient future transit capacity for delivery of gas for the region of CEE/SEE Europe, integration of CEE/SEE region to developed spot marketsas well as ensuring security of supplies to Ukraine.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Lanžhot	eustream, a.s.	2019	CZ	SK	884.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
eustream, a.s. 100%	Promoter	eustream,a.s. (a joint-stock company)	Part of NDP	Yes (National Development Plan 2018-2027)
	Operator	eustream, a.s.	NDP Number	4.1.1.3. Lanžhot
	Host Country	Slovakia	NDP Release Date	30/11/2017
	Status	Planned	NDP Website	NDP URL
	Website	Project's URL	Currently PCI	No
			Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		06/2015	Considered TPA Regime	Regulated
Feasibility	06/2015	10/2015	Considered Tariff Regime	Regulated
FEED	09/2015	07/2017	Applied for Exemption	No
Permitting	08/2017	02/2018	Exemption Granted	No
Supply Contracts		01/2017		
FID		12/2017	Exemption in entry direction	0.00%
Construction	02/2018	11/2019	Exemption in exit direction	0.00%
Commissioning	2019	2019		
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Capacity increase at IP Lanžhot entry				46	2019
Total				46	

Delays since last TYNDP

Delay Since Last TYNDP	no
Delay Explanation	

Expected Gas Sourcing

Norway, Russia, Spot

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Capacity was auctioned via the PRISMA platform in the yearly auction in March 2017 .
Benefit Description	Effort to utilize existing gas infrastructure at maximum mitigating environmental impacts and stranded assets in order to meet market demand in the Czech Republic, Slovakia, Austria, Italy and other countries in the region supporting efforts of CZ and AT market integration (TRU option project). Project is in the context of Eastring project, the aim is to provide sufficient future transit capacity for delivery of gas for the region of CEE/SEE region, namely Balkan countries, as well as ensuring security of supplies to Ukraine as well as integration of CEE/SEE region to the developed spot markets.

Barriers	
Barrier Type	Description
Regulatory	Capacity quotas
Regulatory	Low rate of return

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	<i>Current technical capacity at the Czech side is 913,7 GWh/d. Incremental capacity on the Czech side based on Capacity increase at IP Lanžhot entry realization will be 333 GWh/d Current technical capacity at the Slovak side is 697 GWh/d. Incremental capacity on the Slovak side based on Capacity increase at IP Lanžhot entry realization will be 884 GWh/d It means that incremental capacity which should be taken into account for modelling is 549,7 GWh/d.</i>

Financial Assistance	
Applied for CEF	<i>(3) No, we have not applied for CEF</i>
Grants for studies	<i>No</i>
Grants for studies amount	<i>Mln EUR 0.0</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	<i>No, we do not plan to apply</i>
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

G2F - Gas to Future

ETR-N-315	Project	Energy Transition Related Project	Non-FID
Update Date	15/08/2019		Advanced
Description	Project Gas to Future (G2F) aims to store renewable energy in form of the hydrogen (H2) in the mixture with natural gas using the existing Naftas gas storages. The unique structure as well as the location of the UGS with all the interconnection allows to store and distribute H2 for neighbouring countries. The project is split in 2 phases. In the first phase, the H2 will be stored with natural gas continuously increasing the amount of H2 stored in whole NAFTA capacity to the volume of 2% of hydrogen and during the second phase the hydrogen content will increase to 10% of H2 vol. That capacity will allow to install and use more renewable energy without any negative impact to the electrical grid as well as will provide energy safety of supply. The project counts to install the electrolysis units to transform electricity to gas (H2). For storing of the H2 will be used the existing gas infrastructure. The project is consistent with goal to reduce CO2 emissions.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Lab (SK) (Nafta)	NAFTA a.s.	2025	STcSKm	IB-STcSKmm	1.32 GWh/d
	Comment: hydrogen to be withdrawn from the P2G facility & existing storage				
	NAFTA a.s.	2025	IB-STcSKmm	STcSKm	1.32 GWh/d
Comment: hydrogen to be injected from the P2G facility to existing storage					

Sponsors		General Information	
NAFTA a.s.	100%	Promoter	NAFTA a.s. (joint stock company)
		Operator	NAFTA a.s.
		Host Country	Slovakia
		Status	Planned
		Website	

Schedule	Start Date	End Date
Pre-Feasibility		12/2020
Feasibility	04/2021	04/2022
FEED	01/2023	12/2023
Permitting	05/2020	03/2024
Supply Contracts		04/2024
FID		
Construction	05/2024	06/2025
Commissioning	2025	2025
Grant Obtention Date		

Technical Information (ETR)			
Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
1st phase	<i>For the 1. phase of the project we would like to use our existing gas storages which are in daily use and therefore mostly we would like to use existing infrastructure, so the investment costs should be lower compared to purchase of the new technology. The injected hydrogen to NAFTA reservoirs should be at the rate of 1.32 GWh/day. In order to produce hydrogen and inject it in system at 2% vol. of hydrogen in NAFTAs capacity. It is expected to install P2G technology with power about 84 MW.</i>	none	2025
2nd phase	<i>If successful, the project will continue with Hydrogen production in order to achieve hydrogen volume of 10% in whole NAFTAs storage capacity. The injected hydrogen in this phase should be according to our calculation about 6.6 GWh/day. Once again, project will benefit from existing technology of existing NAFTAs storage facilities. Expected installed P2G technology should be at level of 332 MW.</i>	none	2035



Measures for the reduction of methane emissions

ETR-N-920	Project	Energy Transition Related Project	Non-FID
Update Date	11/06/2020		Advanced
Description	Reduction of methane emissions is a project aimed at the reduction of methane emissions that are created within the Slovak natural gas transmission system, in order to mitigate the impact on climate change.		
PRJ Code - PRJ Name	-		

Sponsors	General Information	
eustream, a.s.	100%	Promoter <i>eustream, a.s.</i>
		Operator <i>eustream, a.s.</i>
		Host Country <i>Slovakia</i>
		Status <i>Planned</i>
		Website

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	01/2022	06/2022
Permitting	07/2022	03/2023
Supply Contracts		06/2023
FID		12/2022
Construction	07/2023	12/2024
Commissioning	2024	2024
Grant Obtention Date		

Technical Information (ETR)

Section/Phase Name	Main Technical Parameters	Technical Information Comment	Commissioning Year
Basic Variant	Reduction of methane emissions (other pollutants)		2024

Trans-Caspian

TRA-A-339	Project	Pipeline including CS	Non-FID
Update Date	24/10/2019		Non-Advanced
Description	TCP will branch-off at a connection with the East-West pipeline in Turkmenistan. It will feed into Sangachal terminal and then SCP. Several economically justified scenarios of TCP's step by step expansion are possible. The first stage associated with one pipeline string is intended to transport up to 15 bcm/y towards Turkey (TANAP) starting from 2022. For the second stage (2023), the capacity is intended to be increased to up to 30 bcm/y and feed the White Stream pipeline from Georgia to Constanta, Romania. From Constanta gas will flow towards Baumgarten. We are currently doing the Pre-FEED study and evaluating an option of 2 phased development, each for 15 bcm/y, with two 32 in. strings. Estimated investment for 300 km 2x32 in. pipelines + one compression station and terminal is € 1.5 billion.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
TCP/SCP	W-Stream Caspian Pipeline Company OU	2022	TM	AZ/SCP	505.00 GWh/d
	Comment: The data regarding capacity and commissioning year belong to TCP 1st string. Since the system provides only the TCP/SCP as "point", only the entry data can be indicated - which are de facto the exit data of TCP 1st string. The entry point of TCP 1st string is located in Turkmenistan. The capacity is 505 GWh/d. (N.B. Operator will be W-Stream Caspian pipeline Company Limited respectively OU since the seat of the company had to be moved because of Brexit). If one selects this operator (W-Stream Caspain pipeline Company Limited) in box 081 it is not possible to file data in box 082 and box 83. Therefore "White Stream" was selected as Operator since allowing to file in the required data into the foreseen boxes.				
	W-Stream Caspian Pipeline Company OU	2023	TM	AZ/SCP	505.00 GWh/d
	Comment: The data regarding capacity and commissioning year belong to TCP 1st string. Since the system provides only the TCP/SCP as "point", only the entry data can be indicated - which are de facto the exit data of TCP 1st string. The entry point of TCP 1st string is located in Turkmenistan. The capacity is 505 GWh/d. (N.B. Operator will be W-Stream Caspian pipeline Company Limited respectively OU since the seat of the company had to be moved because of Brexit). If one selects this operator (W-Stream Caspain pipeline Company Limited) in box 081 it is not possible to file data in box 082 and box 83. Therefore "White Stream" was selected as Operator since allowing to file in the required data into the foreseen boxes.				

Sponsors		General Information		NDP and PCI Information	
W-STREAM PIPELINE COMPANY LIMITED	90%	Promoter	W-Stream Caspian Pipeline Company OU	Part of NDP	No ((2) no NDP exists in the country)
Georgian Oil and Gas Corporation (GOGC)	10%	Operator	W-Stream Caspian Pipeline Company OU	NDP Number	
		Host Country	Turkmenistan	NDP Release Date	
		Status	Planned	NDP Website	
		Website	Project's URL	Currently PCI	Yes (7.1.1 (2020))
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		01/2013	Considered TPA Regime	Regulated
Feasibility	05/2018	04/2020	Considered Tariff Regime	Negotiated
FEED	04/2020	12/2020	Applied for Exemption	No
Permitting	08/2019	12/2020	Exemption Granted	Not Relevant
Supply Contracts		06/2021		
FID		01/2021		
Construction	04/2021	09/2022	Exemption in entry direction	0.00%
Commissioning	2022	2023	Exemption in exit direction	0.00%
Grant Obtention Date	25/01/2018	25/01/2018		

Pipelines and Compressor Stations					
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
sub-sea (string 1)	175 MW total for two strings	915	300	175	2022
sub-sea (string 2)	175 MW total for two strings	915	300	175	2023
Total			600	350	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	30+ bcma of Turkmen gas, supplied via two different routes to different areas in the EU with expected growing import needs will significantly contribute to the enhancement of the level of competition, positively affect prices, improve Security of Supply, stimulate market integration and facilitate deployment of RES. Turkmen gas is readily available through wells with established production, including wells in the shut-in condition and connected to the 30 bcma throughput East-West pipeline with the Caspian shore. The overall transportation scheme is designed to maximize the use of pipelines already in operation or pipelines being constructed, thus in combination with relatively low production costs, this ensures competitive prices for gas for shippers. The TCP 1st and 2nd string will contribute to material reduction of share of the Russian supplies in affected countries.

Delays since last TYNDP	
Delay Since Last TYNDP	
Delay Explanation	The progress of the Trans Caspian Pipeline system was not that fast as previously expected because of lack of clarity regarding legal status of the Caspian Sea. Since the signature of the Caspian Sea convention - signed mid of 2018 - the perceived risks by potential investors has decreased, subsequently interest in the Trans Caspian Pipeline system has increased. Nevertheless, it takes some time to fully built up the necessary confidence of investors consequently it will be difficult to catch up regarding initial time schedule to the full extend, thus a rescheduling of the Trans Caspian Pipeline was advisable.

Expected Gas Sourcing	
Caspian Region, Turkmenistan/Central Asia	

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Gas from Turkmenistan can be the most competitively priced gas on the market in the European Union and the Energy Community. TCP could also further improve the economics of Azeri gas transportation via TANAP and enable the White Stream Pipeline, subsequently further increase market integration, competition and security of gas supply.
Benefit Description	TCP 1st and TCP 2nd string will indirectly and directly improve competition in the gas markets of the EU and the Energy Community, improve the security of gas supply, market integration and facilitate the deployment of RES at bigger scales in the EU as well as in the Energy Community.

Barriers	
Barrier Type	Description
Permit Granting	The project is at a too early stage at the moment regarding permit granting
Political	The progress of the Trans Caspian Pipeline system was not that fast as previously expected because of lack of clarity regarding legal status of the Caspian Sea. Since the signature of the Caspian Sea convention - signed mid of 2018 - the perceived risks by potential investors has decreased, subsequently interest in the Trans Caspian Pipeline system has increased. Nevertheless, it takes some time to fully built up the necessary confidence of investors consequently it will be difficult to catch up regarding initial time schedule to the full extend, thus a rescheduling of the Trans Caspian Pipeline was advisable.

CBCA	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>
Submissin Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	<i>TCP 1st and 2n string are not located in any of the EU-MS nor do they impact any of the EU-MS respectively Contracting Parties to the Energy Community directly.</i>

Financial Assistance	
Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Grants for studies	<i>Yes</i>
Grants for studies amount	<i>Mln EUR 1.9</i>
Grants for works	<i>No</i>
Grants for works amount	<i>Mln EUR 0.0</i>
Intention to apply for CEF	
Other Financial Assistance	<i>No</i>
Comments	
General Comments	

TANAP X- Expansion of Trans Anatolian Natural Gas Pipeline Projec

TRA-A-782	Project	Pipeline including CS	Non-FID
Update Date	18/10/2019		Advanced
Description	<p>TANAP X intends for the transportation of additional 9 bcma of the natural gas to be produced in Shah Deniz-2 field and other fields of Azerbaijan through Turkey to Europe.The TANAP (Trans-Anatolian Natural Gas Pipeline) Project will contribute to the European gas supply security and diversity by opening up the Southern Gas Corridor. It constitutes a significant part of the gas supply value chain together with SCPX (South Caucasus Pipeline-Expansion) and TAP (Trans Adriatic Pipeline) pipelines and provides a platform to foster gas to gas competition in European gas market based initially upon gas supplies from Azerbaijan’s Shah Deniz gas field.</p> <p>The TANAP pipeline length within the borders of Turkey is about 1850 km on the section up to Greece connection to TAP Pipeline Project. TANAP includes an outside pipe diameter of 56 and 48 inches, across land and two 36 inches outside diameter Offshore pipeline are planned for the Dardanelle crossing through the Sea of Marmara.</p>		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity
Kipi (TR) / Kipi (TAP)	TANAP TSO	2025	TR/TNP	GR/TAP	286.00 GWh/d
Türkgözü	TANAP TSO	2025	GE/SCP	TR/TNP	286.00 GWh/d

Sponsors		General Information		NDP and PCI Information	
"SOUTHERN GAS CORRIDOR" CLOSED JOINT STOCK COMPANY	51%	Promoter	SOCAR (The State Oil Company of the Azerbaijan Republic)	Part of NDP	No ((4) there is no obligation at national level for such a project to be part of the NDP)
BORU HATLARI İLE PETROL TAŞIMA A.Ş. (BOTAS)	30%	Operator	TANAP TSO	NDP Number	
BP PIPELINES (TANAP) LIMITED	12%	Host Country	Turkey	NDP Release Date	
SOCAR Turkey Energy A.S.	7%	Status	In Progress	NDP Website	
		Website	Project's URL	Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		08/2021	Considered TPA Regime	Negotiated
Feasibility	08/2021	12/2021	Considered Tariff Regime	Negotiated
FEED	01/2022	05/2022	Applied for Exemption	Not Relevant
Permitting	05/2022	07/2022	Exemption Granted	Not Relevant
Supply Contracts		09/2022		
FID		12/2022		
Construction	02/2023	12/2025	Exemption in entry direction	0.00%
Commissioning	2025	2025	Exemption in exit direction	0.00%
Grant Obtention Date	01/03/2016	01/03/2016		

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Eskishehir (Turkey)-Greece Border		1,219	460	70	2025
Georgia/Turkey border- Eskishehir		1,442	1,347	125	2025
Total			1,807	195	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	TANAP brings new alternative supply of natural gas from new supllier. It plays crucial role in diversification and security of supply to the EU, fosters sustainability and competition. It also develops gas network and fosters gasification of Central South and Southen Europe Region.

Delays since last TYNDP

Delay Since Last TYNDP

Delay Explanation

Expected Gas Sourcing

Caspian Region

Benefits

Main Driver	Others
Main Driver Explanation	Diversification of supply sources and routes New supply source to the European Union Market demand Competition Access to new markets
Benefit Description	Diversification of supply Diversification of routes Benefits sustainability Emission Reduction Benefit infrastructure bottleneck Enabling other PCI and non-PCI projects Significant cross-border effect Possibility of further expansion

Barriers

Barrier Type	Description
Others	Lack of support from Member States when applying for Support Letter for Grants. Relevant Member States authorities should be more aware of the Projects which bring gas volumes to EU markets.
Financing	Low oil prices in the world, which constitute the income of TANAP's major shareholder SGC.
Financing	Availability of funds and associated conditions
Market	Lack of market maturity
Market	Lack of market support

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Intergovernmental Agreement between Turkey and Azerbaijan	Intergovernmental Agreement (IGA) between the Government of the Republic of Turkey and the Government of the Republic of Azerbaijan Concerning the Trans Anatolian Natural Gas Pipeline System	Yes	26/06/2012

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we do not plan to submit it</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 15.4</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	<i>Yes, for studies only</i>
Additional Comments	<i>Our Project does not have CDCA desicion by NRA or ACER</i>	Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Trans-Balkan Bi-directional Flow

TRA-F-1169	Project	Pipeline including CS	FID
Update Date	15/06/2020		Advanced
Description	Trans-Balkan system is a key element of energy security of the Balkans and Southern Europe and indispensable element of North-South Gas Corridor. The Trans-Balkan route consists of three high diameter pipelines, which can transport bi-directionally up to 20 bcm of natural gas after some reconstructions. The Ukrainian GTS and Moldavian GTS can transport up to 20 bcm from/to UA-PL, UA-SK and UA-HU borders to/from the IPs with Romania. In case of construction of TANAP and Turkish stream, this project would become a strategic one as it could ensure security of supply of Balkan Region and would ensure utilization of the existing infrastructure. The key overall objectives are: - to facilitate export of natural gas from Romania to CEE Region, inter alia to provide the offshore gas production companies with the access to the gas infrastructure and the European gas market; - to develop interconnectivity in the Balkan and CEE regions; - to ensure utilization of existing infrastructure.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Variant : Phase 1		Phase 1 - establishment of physical and virtual flow via Transit 1 pipeline up to 1.5 bcm per year, which would not require building additional infrastructure			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Grebenyky	LLC Gas TSO of Ukraine	2020	UA	MD	43.10 GWh/d
Comment: Entry to Ukraine-reverse flow					

Capacity Increments Variant(s) For Information Only

Variant : Phase 3		Phase 3 -establishment of physical and virtual flow via Transit 1-2-3 pipelines up to their maximum capacity (approximately 20 bcm per year)			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Grebenyky	LLC Gas TSO of Ukraine	2024	UA	MD	574.10 GWh/d
Comment: Entry to Ukraine-reverse flow					

Capacity Increments Variant(s) For Information Only

Variant : Phase 2		Phase 2 - establishment of physical and virtual flow via Transit 1 pipeline up to its maximum capacity of 5 bcm per year			
Point	Operator	Year	From Gas System	To Gas System	Capacity
Grebenyky	LLC Gas TSO of Ukraine	2021	UA	MD	143.50 GWh/d
Comment: Entry to Ukraine-reverse flow					

Sponsors		General Information		NDP and PCI Information	
PJSC "UKRTRANSGAZ"	57%	Promoter	LLC Gas TSO of Ukraine	Part of NDP	No ((2) no NDP exists in the country)
		Operator		NDP Number	
		Host Country	Ukraine	NDP Release Date	
		Status	Planned	NDP Website	
		Website		Currently PCI	No
				Priority Corridor(s)	

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		08/2019	Considered TPA Regime	Regulated
Feasibility	08/2019	08/2019	Considered Tariff Regime	Regulated
FEED	08/2019	08/2019	Applied for Exemption	No
Permitting	08/2019	09/2019	Exemption Granted	No
Supply Contracts		09/2019		
FID		09/2019		
Construction	10/2019	11/2019	Exemption in entry direction	0.00%
Commissioning	2020	2020	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations						
Phase 1		Phase 1 - establishment of physical and virtual flow via Transit 1 pipeline up to 1.5 bcm per year, which would not require building additional infrastructure				
Pipeline Section	Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Phase 1	From the Ukrainian side it is necessary to reconstruct the GMS Grebenyky. On the Moldavian side, it is necessary to reconstruct the GMS Kaushany.		800	355	0	2020
Total				355	0	
Pipelines and Compressor Stations - Alternative Variant						
Phase 2		Phase 2 - establishment of physical and virtual flow via Transit 1 pipeline up to its maximum capacity of 5 bcm per year				
Pipeline Section	Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Phase 2	Phase 2 also requires some reconstruction works by Romanian TSO. From Ukrainian side is necessary reconstruction of CS and GMS Orlovka and the CS Berezivka. On the Moldavian side, it is necessary to reconstruct the CS Vulkaneshty.		800	355	20	2021
Total				355	20	
Pipelines and Compressor Stations - Alternative Variant						
Phase 3		Phase 3 -establishment of physical and virtual flow via Transit 1-2-3 pipelines up to their maximum capacity (approximately 20 bcm per year)				
Pipeline Section	Pipeline Comment		Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Phase 3	Phase 3 -establishment of physical and virtual flow via Transit 1-2-3 pipelines up to their maximum capacity (approximately 20 bcm per year)		1,400	449	305	2024
Total				449	305	

Expected Gas Sourcing

LNG (GR)

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

CBCA

Decision	No, we have not submitted an investment request yet, but we do plan to submit it
Submissin Date	01/07/2018
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance

Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	No, we do not plan to apply
Other Financial Assistance	No
Comments	
General Comments	

Islandmagee Gas Storage Facility

UGS-A-294	Project	Storage Facility	Non-FID
Update Date	28/09/2020		Advanced
Description	InfraStrata plc and its affiliated entity Islandmagee Energy Limited plans to create seven caverns, capable of storing up to a total of 500 million cubic metres of gas. This facility will safeguard Northern Ireland's ability to meet the increasing peak gas demand, whilst also enhancing security of supply in IE and GB.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Islandmagee	Islandmagee Storage Ltd	2022	STcUKn	UKn	90.00 GWh/d
	Islandmagee Storage Ltd	2022	UKn	STcUKn	132.00 GWh/d
	Comment: The project is a gas storage facility. Due to this the facility can provide a peak increment as stated. The facility is planned to inject at 12mcm a day and withdraw at 22mcm a day so the increment could be as low as 0 per day or peak at the stated 132. This will depend on local demand and it has been difficult to state an increment for this other than the peak.				
	Islandmagee Storage Ltd	2026	STcUKn	UKn	175.00 GWh/d
	Islandmagee Storage Ltd	2026	UKn	STcUKn	65.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
InfraStrata plc	100%	Promoter	Islandmagee Storage Limited	Part of NDP
		Operator	Islandmagee Storage Ltd	Yes (Northern Ireland Gas Capacity Statement)
		Host Country	United Kingdom	NDP Number
		Status	Planned	n.a.
		Website	Project's URL	NDP Release Date
				NDP Website
				Currently PCI
				Priority Corridor(s)

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility			Considered TPA Regime	Not Applicable
Feasibility			Considered Tariff Regime	Not Applicable
FEED	01/2018	12/2018	Applied for Exemption	Not Relevant
Permitting			Exemption Granted	Not Relevant
Supply Contracts		06/2019		
FID		09/2019		
Construction	10/2019	05/2022	Exemption in entry direction	0.00%
Commissioning	2022	2026	Exemption in exit direction	0.00%
Grant Obtention Date	17/06/2016	17/06/2016		

Technical Information (UGS)									
Storage Facility	Storage Facility Type	Multiple-cycle Facility	Project Phase	Working Volume (mcm)	Withdrawal Capacity (mcm/d)	Injection Capacity (mcm/d)	Load Factor (%)	Comments	Commisioning Year
Islandmagee Gas Storage Facility	Salt Cavern	Yes	Project Construction	420	22.0	12.0	20	The project is post FEED and currently in FID. Gas offtake agreement is in place with Vitol.	2022

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Market Integration, inter alia through lifting the isolation of at least one Member State and reducing energy infrastructure bottlenecks, interoperability and system flexibility, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	approx 3 years
Delay Explanation	The project has been rescheduled due to the availability of finance and the difficult trading conditions within the UK gas market.

Expected Gas Sourcing

The project will source its gas from the main UK network supply

Benefits

Main Driver	Others
Main Driver Explanation	The main project drivers are the security of gas supply for NI/IE and the ability to enable better stability of price for the gas consumers. At present IE have a single connector at Moffat that provides gas and any disruption to this would have major implications.
Benefit Description	The facility will remove the bottleneck between NI & IE markets caused by pressure differentials between the two networks, by enabling the pressures within NI to be sufficient to enable export of gas from NI to IE. The project will end energy isolation due to greater connectivity with IE/GB markets. NI is currently fully import dependent. The facility will permit exports to be delivered from NI, enhancing free flow of gas to meet localised demand. An alternative source of gas supply to IE. The facility will enhance physical and price security of supply for the NI, IE and GB markets. The project will provide support to renewable electricity generation in both ROI and NI by increasing the availability of flexible gas supplies to support gas generating plant which will be increasingly required to operate in conjunction with intermittent wind generation.

Barriers

Barrier Type	Description
Permit Granting	PCI projects cannot currently benefit from accelerated permitting without a local Executive in place.
Political	The UK government does not place enough importance on the availability of gas storage and as such the economic conditions for such a facility are difficult to manage.
Regulatory	Low rate of return
Market	Lack of market support
Regulatory	Low or zero-priced short-term capacity
Financing	Availability of funds and associated conditions

CBCA		Financial Assistance	
Decision	<i>No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not</i>	Applied for CEF	<i>(1) Yes, we have applied for CEF and we have received a decision;#(2) Yes, we have applied for CEF, but we have not received a decision yet</i>
Submissin Date		Grants for studies	<i>Yes</i>
Decision Date		Grants for studies amount	<i>Mln EUR 4.6</i>
Website		Grants for works	<i>No</i>
Countries Affected		Grants for works amount	<i>Mln EUR 0.0</i>
Countries Net Cost Bearer		Intention to apply for CEF	
Additional Comments		Other Financial Assistance	<i>No</i>
		Comments	
		General Comments	

Physical reverse flow from NI to GB and IE via SNIP pipeline

TRA-N-27	Project	Pipeline including CS	Non-FID
Update Date	22/11/2019		Non-Advanced
Description	Installation of bi-directional compression on Scotland to Northern Ireland pipeline (SNIP); pipework modifications at 2 AGI's to allow bidirectional metering and flow control and moving gas odourisation point to a new point(s) downstream of the bidirectional transmission system.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Moffat	Premier Transmission Ltd	2021	UKn	Y-UKm	131.00 GWh/d

Sponsors	General Information		NDP and PCI Information	
Premier Transmission Ltd	100%	Promoter	Premier Transmission Limited	Part of NDP
		Operator	Premier Transmission Ltd	Yes (Northern Ireland Gas Capacity Statement - section 3.21)
		Host Country	United Kingdom	NDP Number
		Status	Planned	NDP Release Date
		Website	Project's URL	NDP Website
			Currently PCI	No
			Priority Corridor(s)	NSIW

Schedule	Start Date	End Date	Third-Party Access Regime	
Pre-Feasibility		10/2019	Considered TPA Regime	Regulated
Feasibility	10/2019	10/2019	Considered Tariff Regime	Regulated
FEED	01/2020	01/2020	Applied for Exemption	Not Relevant
Permitting	10/2019	09/2020	Exemption Granted	Not Relevant
Supply Contracts		01/2020		
FID		12/2020		
Construction	01/2021	09/2022	Exemption in entry direction	0.00%
Commissioning	2021	2021	Exemption in exit direction	0.00%
Grant Obtention Date				

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
SNIP-Scotland to Northern Ireland		600		10	0
Total				10	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, inter alia through diversification of supply sources, supplying counterparts and routes, Security of Supply, inter alia through appropriate connections and diversification of supply sources, supplying counterparts and routes, Sustainability, inter alia through reducing emissions, supporting intermittent renewable generation and enhancing deployment of renewable gas
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Delay Since Last TYNDP	Approx 2 years
Delay Explanation	This project is linked to the Islandmagee gas storage project and has been subsequently delayed, in line with the gas storage project being delayed – caused by the absence of competitive transmission tariffs for gas storage.

Benefits	
Main Driver	Market Demand
Main Driver Explanation	Required by Islandmagee Gas Storage Project
Benefit Description	This project will open up the GB-NI-Republic of Ireland corridor, and the Republic of Ireland-NI-GB corridor, both currently unavailable. All three markets would have the ability for physical bi-directional links for the first time. The project will allow future gas finds in Northern Ireland to be accessed by GB and RoI. The project will allow GB and RoI to access flexible gas storage planned for Northern Ireland – which is essential for Northern Ireland gas storage to be feasible. The planned upgrade will allow security of supply benefits due to the ability to use the planned gas storage facility. It will also provide back-up support for renewable generation.

CBCA	
Decision	No, we have not submitted an investment request yet, and we have not yet decided whether we will submit or not
Submission Date	
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	

Financial Assistance	
Applied for CEF	(3) No, we have not applied for CEF
Grants for studies	No
Grants for studies amount	Mln EUR 0.0
Grants for works	No
Grants for works amount	Mln EUR 0.0
Intention to apply for CEF	
Other Financial Assistance	No
Comments	
General Comments	