Moffat Physical Reverse Flow

TRA-N-1064	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		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 38.5GWH/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	National Grid Gas plc	2020	Y-UKm	UK	**176.2 GWh/d**

Sponsors

GNI (UK) Limited	100%

General Information

Promoter	*National Grid Gas plc*
Operator	*National Grid Gas plc*
Host Country	*United Kingdom*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (5.1.1)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	07/2017	11/2018
FEED	01/2019	12/2019
Permitting	01/2020	12/2020
Supply Contracts		
FID		12/2020
Construction	01/2021	12/2021
Commissioning	2020	2020
Grant Obtention Date	14/03/2017	14/03/2017

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	100.00%
Exemption in exit direction	0.00%

Fulfilled Criteria	
Specific Criteria Fulfilled	Market Integration, Security of Supply
Specific Criteria Fulfilled Comments	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

Delays since last TYNDP	
Grant Obtention Date	14/03/2017
Delay Since Last TYNDP	
Delay Explanation	

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

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

TRA-N-829	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		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 176.2 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	2020	IE	Y-UKm	**176.2 GWh/d**

Sponsors

GNI (UK) Limited	100%

General Information

Promoter	*GNI (UK) Limited*
Operator	*Gas Networks Ireland*
Host Country	*United Kingdom*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (GNI, Network Development Plan 2016)*
NDP Number	*PCI 5.1.1*
NDP Release Date	*15/12/2018*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.1.1)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	07/2017	11/2018
FEED	01/2019	12/2019
Permitting	01/2020	12/2020
Supply Contracts		
FID		12/2020
Construction	01/2021	12/2021
Commissioning	2020	2020
Grant Obtention Date	14/03/2017	14/03/2017

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
interconnector 1 & 2		914	100	40	0
	Total		**100**	**40**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market Integration: The intention of PRF is to enhance interoperability of the Irish and Northern Ireland (UK) gas markets with the Great Britain (UK) market, in line with the goal of the European Union in achieving an EU Single Market in Gas. Ireland and Northern Ireland (UK) are currently at the extremity of the EU gas network with no ability to export to Great Britain (UK) and beyond. The PRF projects would allow, for the first time, trade from Ireland/Northern Ireland (UK) to Great Britain (UK). This opportunity is likely to encourage new gas supply sources in Ireland and Northern Ireland which in turn would help increase trading opportunities between Ireland, Northern Ireland (UK) and Great Britain (UK), further enhancing market integration in these regions.

Delays since last TYNDP

Grant Obtention Date	14/03/2017
Delay Since Last TYNDP	
Delay Explanation	

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	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 Sannnon 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 1*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Bidirectional Austrian-Czech Interconnector (BACI)

TRA-N-21	Project	Pipeline including CS	Non-FID
Update Date	28/02/2018		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	2021	AT	CZ	**201.4 GWh/d**
	Comment: New bidirectional IP connecting the Austria and the Czech Market				
	Gas Connect Austria GmbH	2021	CZ	AT	**201.4 GWh/d**
	Comment: New bidirectional IP connecting the Austria and the Czech Market				

Sponsors

Pipeline on Austrian territory	
GAS CONNECT AUSTRIA GmbH	100%
Pipeline on Czech territory	
NET4GAS, s.r.o	100%

General Information

Promoter	*GAS CONNECT AUSTRIA GmbH*
Operator	*Gas Connect Austria GmbH*
Host Country	*Austria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (NDP 2018-2027)*
NDP Number	*GCA 2015/01a*
NDP Release Date	*19/01/2018*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.4)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	*10/2015*	
Supply Contracts		
FID		
Construction		*10/2021*
Commissioning	*2021*	*2021*
Grant Obtention Date	*30/04/2015*	*30/04/2015*

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
Austrian 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	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, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The BACI project entailing a direct connection of the Austrian and the Czech gas market would enable short way access to CEGH Hub in Baumgarten thus facilitating better market integration and fostering competition. Positive effects on the gas prices are expected. The project supports indirectly the substitution of coal by gas also e.g. as a back-up energy source for renewables, which would have a positive impact on the environment by reducing the CO2 emissions. The project supports the diversification of gas supply sources and routes by connecting both transmission systems to LNG terminals in Poland (Świnoujście) and Croatia (Krk) and further gas sources reaching the EU via the Baltic. Calculated welfare gains for the Czech - Austrian market integration are 62 million EUR/year as it was calculated by the Austrian NRA E-Contol in a study published on its website in 2017. The payback period for the project would be approximately 3 years after its commissioning.

Delays since last TYNDP

Grant Obtention Date	30/04/2015
Delay Since Last TYNDP	
Delay Explanation	

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	
Grants for works	*No*
Grants for works amount	*Mln EUR 0*
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*Yes*
Comments	*Feasibility Study 2013 GCA received 53.953,- thousand EUR on the basis of a European Commission decision according to TEN-E regulation.*
General Comments	

Bidirectional Austrian Czech Interconnection (BACI)

TRA-N-133	Project	Pipeline including CS	Non-FID
Update Date	23/03/2018		Advanced
Description	The transmission system operators of the Czech Republic (NET4GAS, s.r.o.) and Austria (GAS CONNECT AUSTRIA GmbH) are cooperating at planning of 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 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.	2021	AT	CZ	**201.4 GWh/d**
			Comment: Entry from AT to CZ		
	NET4GAS, s.r.o.	2021	CZ	AT	**201.4 GWh/d**
			Comment: Exit from CZ to AT		

Sponsors

Austria	
GAS CONNECT AUSTRIA GmbH	100%
Czech Republic	
NET4GAS, s.r.o.	100%

General Information

Promoter	*NET4GAS, s.r.o.*
Operator	*NET4GAS, s.r.o.*
Host Country	*Czechia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (CZ NDP 2016-2025 (approved))*
NDP Number	*TRA-N-133*
NDP Release Date	*31/10/2015*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.4)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		05/2009
Feasibility	03/2012	02/2014
FEED	03/2012	06/2018
Permitting	05/2015	11/2019
Supply Contracts		08/2019
FID		08/2019
Construction	12/2019	09/2021
Commissioning	2021	2021
Grant Obtention Date	01/01/2014	01/01/2014

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
Břeclav (CZ) - Poštorná/Reintal (CZ/AT)	CZ side	800	12		2021
Total			**12**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The first direct gas transmission systems interconnection of the Czech Republic and Austria would provide following benefits: - Market integration and Competition: The BACI project through direct connection of the AT and CZ gas market would enable access on a short way to CEGH Hub in Baumgarten and thus facilitating better market integration and fostering competition and positive effects on the gas prices are expected (identified by Austrian NRA E-Control as 62 mio EUR/year). - Sustainability: The project supports indirectly the substitution of coal by gas also e.g. as a back-up energy source for renewables, which would have a positive impact on the environment by reducing the CO2 emissions. - SoS: The project supports the diversification of gas supply sources and routes by connecting both transmission systems to LNG terminals in PL (Świnoujście) and HR (Krk) and further gas sources reaching the EU via the Baltic, Adriatic and Black Seas through the creation of a North-South Corridor.

Delays since last TYNDP	
Grant Obtention Date	01/01/2014
Delay Since Last TYNDP	0
Delay Explanation	Particular dates have been changed due to the fact that there is a change in permitting process caused by amendment of the Building Act valid as of January 1, 2018.

Benefits	
Main Driver	Others
Main Driver Explanation	Competition, Market Integration
Benefit Description	The BACI will ensure the first direct transmission capacity between the 2 member states (AT, CZ) and will facilitate better market integration and competition. It contributes to the diversification of gas supply and the increased transportation opportunities to and from countries like HU, PL, DE, IT, FR, SI, HR and SK and access to new and existing trading markets. The BACI will enhance the market development due to access to UGSs both on the Austrian and Czech side and therefore will enhance the market development by providing peak regulation and the flexibility of gas flow. The 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 the BACI the CEE region would become less vulnerable to a supply disruption through Ukraine and Belarus and therefore the region will have an increase of SoS.

Barriers	
Barrier Type	Description
Permit Granting	Permitting obstacles
Regulatory	Lack of proper transposition of EU regulation
Regulatory	Low rate of return

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*
Grants for works	*No*
Grants for works amount	
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 - Rogatec)

TRA-N-86	Project	Pipeline including CS	Non-FID
Update Date	22/02/2018		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	HR	SI	**162.0 GWh/d**
	Plinacro Ltd	2021	SI	HR	**162.0 GWh/d**

Sponsors

Plinacro	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.9, 1.10, 1.11*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.26.1.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	09/2014	12/2014
FEED		
Permitting	10/2015	12/2021
Supply Contracts		
FID		11/2019
Construction	12/2019	12/2021
Commissioning	2021	2021
Grant Obtention Date	25/04/2016	25/04/2016

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%

Enabled Projects

Project Code	Project Name
TRA-N-1057	Compressor stations 2 and 3 at the Croatian gas tranmission system

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Lučko-Zabok		700	33		0
Zabok-Rogatec		700	36		0
	Total		**69**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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

Grant Obtention Date	25/04/2016
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

Caspian Region, 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
Memorandum of Understanding	Signed among Plinacro, Plinovodi and Gas Connect Austria	Yes	28/12/2014
Letter of Intent	Signed between Plinacro and Plinovodi	Yes	22/05/2014

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 5*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Upgrade of Rogatec interconnection (M1A/1 Interconnection Rogatec)

TRA-N-390	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		Advanced
Description	Adjustment to operating parameters of the transmission system of the Croatian TSO, increasing the transmission capacity and enabling bidirectional operation. 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.	2022	HR	SI	**162.0 GWh/d**
	Plinovodi d.o.o.	2022	SI	HR	**162.0 GWh/d**

Sponsors

Plinovodi	100%

General Information

Promoter	*Plinovodi d.o.o.*
Operator	*Plinovodi d.o.o.*
Host Country	*Slovenia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (TYNDP for the period 2018-2027)*
NDP Number	*C12*
NDP Release Date	*09/10/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.26.6)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	07/2019	07/2021
Permitting		
Supply Contracts		
FID		07/2019
Construction	07/2021	12/2022
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%

Enabled Projects

Project Code	Project Name
TRA-N-94	CS Kidričevo, 2nd phase of upgrade
TRA-N-389	Upgrade of Murfeld/Ceršak interconnection (M1/3 Interconnection Ceršak)

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, Market Integration, Security of Supply
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

Norway, 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	
Grants for works	*No*
Grants for works amount	
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	30/03/2018		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	2023	LNG_Tk_HR	HR	**54.3 GWh/d**
Dravaszerdahely	Plinacro Ltd	2023	HR	HU	**54.3 GWh/d**
	Plinacro Ltd	2023	HU	HR	**135.9 GWh/d**

Sponsors

Plinacro	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.32*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.5.6)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	09/2015	10/2016
FEED		
Permitting	09/2014	01/2023
Supply Contracts		
FID		01/2020
Construction	01/2021	01/2023
Commissioning	2023	2023
Grant Obtention Date	24/11/2015	24/11/2015

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%

Enabled Projects

Project Code	Project Name
TRA-N-90	LNG evacuation pipeline Omišalj - Zlobin (Croatia)
TRA-N-75	LNG evacuation pipeline Zlobin-Bosiljevo-Sisak-Kozarac
TRA-N-1057	Compressor stations 2 and 3 at the Croatian gas tranmission system

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Kozarac-Slobodnica		800	128		0
	Total		**128**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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.

Delays since last TYNDP

Grant Obtention Date	24/11/2015
Delay Since Last TYNDP	
Delay Explanation	Project depend on LNG project

Expected Gas Sourcing

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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

LNG evacuation pipeline Omišalj - Zlobin (Croatia)

TRA-N-90	Project	Pipeline including CS	Non-FID
Update Date	22/05/2018		Advanced
Description	The pipeline is the connection of the LNG on the Krk island with the 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) 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	2019	LNG_Tk_HR	HR	**81.5 GWh/d**
Dravaszerdahely	Plinacro Ltd	2019	HR	HU	**40.8 GWh/d**
			Comment: It is necessary to use CS 1		

Sponsors

Plinacro	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.18*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.5.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	07/2009	12/2019
Supply Contracts		
FID		06/2018
Construction	07/2018	12/2019
Commissioning	2019	2019
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%

Enabled Projects

Project Code	Project Name
TRA-N-1058	LNG Evacuation Pipeline Kozarac-Slobodnica
TRA-N-75	LNG evacuation pipeline Zlobin-Bosiljevo-Sisak-Kozarac

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Omišalj-Zlobin		1,000	18		0
	Total		**18**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	
Delay Explanation	This project completely depends on LNG terminal project on island of Krk

Expected Gas Sourcing

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, 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	The project completly depends on the realisation of the Krk LNG project

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	
Grants for works	*Yes*
Grants for works amount	*Mln EUR 16*
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	22/05/2018		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	2020	LNG_Tk_HR	HR	**27.2 GWh/d**
Dravaszerdahely	Plinacro Ltd	2020	HR	HU	**54.3 GWh/d**

Sponsors

Plinacro	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.19, 1.20, 1.21*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.5.6)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	09/2015	10/2016
FEED		
Permitting	07/2009	01/2020
Supply Contracts		
FID		07/2018
Construction	10/2018	01/2020
Commissioning	2020	2020
Grant Obtention Date	24/11/2015	24/11/2015

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%

Enabled Projects

Project Code	Project Name
TRA-N-90	LNG evacuation pipeline Omišalj - Zlobin (Croatia)
TRA-N-1058	LNG Evacuation Pipeline Kozarac-Slobodnica

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Bosiljevo - Sisak		800	102		0
Kozarac - Sisak		800	20		0
Zlobin - Bosiljevo		800	58		0
	Total		**180**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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.

Delays since last TYNDP

Grant Obtention Date	24/11/2015
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 pr

Barriers

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

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	*Yes*
Grants for studies amount	*Mln EUR 2*
Grants for works	*Yes*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

LNG terminal Krk

LNG-N-82	Project	LNG Terminal	Non-FID
Update Date	22/05/2018		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 in the first development stage of transmission system of Republic of Croatia, up to 3.5 bcm/y after upgrade of transmission system and 7 bcm/y in final stage.		
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.	2019	LNG_Tk_HR	HR	**82.0 GWh/d**
				Comment: 2.6 bcm/y	
	LNG Hrvatska d.o.o.	2020	LNG_Tk_HR	HR	**110.0 GWh/d**
				Comment: 3.5 bcm/y	
	LNG Hrvatska d.o.o.	2023	LNG_Tk_HR	HR	**220.0 GWh/d**
				Comment: 7 bcm/y	

Sponsors

Plinacro d.o.o.	50%
HEP d.d.	50%

General Information

Promoter	*LNG Hrvatska d.o.o. za poslovanje ukapljenim prirodnim plinom*
Operator	*LNG Hrvatska d.o.o.*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (DESETOGODISNJI PLAN RAZVOJA PLINSKOG TRANSPORTNOG SUSTAVA REPUBLIKE HRVATSKE 2018. - 2027.)*
NDP Number	*LNG terminal on the island of Krk*
NDP Release Date	*01/11/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.5.1; 6.5.6)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		01/2013
Feasibility	07/2012	01/2014
FEED	03/2017	12/2017
Permitting	10/2013	05/2018
Supply Contracts		
FID		06/2018
Construction	06/2018	11/2019
Commissioning	2019	2023
Grant Obtention Date	18/12/2017	18/12/2017

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

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	1st phase	2.6	160,000	7.12	160,000	FSRU not determined yet	2019	100
The import terminal for the liquefied natural gas(LNG) on the Island of Krk	Yes	1st phase	3.5	0	2.47	0	After upgrade of transmission system network	2020	100
The import terminal for the liquefied natural gas(LNG) on the Island of Krk	Yes	1st phase	7.0	0	9.59	0	After upgrade of transmission system network	2023	100

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	All specific criteria are fulfilled by this project

Delays since last TYNDP

Grant Obtention Date	18/12/2017
Delay Since Last TYNDP	None
Delay Explanation	In comparison with last TYNDP, the project is rescheduled with new beginning of operation from year 2019.

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
Regulatory	.
Permit Granting	Permit granting process for onshore solution for the project has started in 10/2013 by requesting the EIA which was approved in 04/2014 and Location permit was approved in 09/2015. For the FSRU solution of the project permits will be modified / obtained accordingly.
Political	Onshore solution and FSRU solution of the LNG terminal project on the Island of Krk were declared of strategic importance for the Republic of Croatia. The Act on strategic investments enables this kind of projects to have the highest priority with faster and simplified procedure in obtaining necessary documents and permits for the project implementation.
Market	Market Background Analysis was carried out and it indicated that the market has commercial potential. Open Season procedure will serve as an official confirmation of that analysis. The binding phase of Open Season is currently being carried out.
Financing	Availability of funds and associated conditions

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
CESEC MoU	Memorandum of Understanding	Yes	10/07/2015

CBCA	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*09/07/2016*
Decision Date	*12/10/2016*
Website	*CBCA URL*
Countries Affected	*Croatia, Hungary*
Countries Net Cost Bearer	*Croatia*
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 6*
Grants for works	*Yes*
Grants for works amount	*Mln EUR 101*
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*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 €*
General Comments	

Capacity4Gas – CZ/SK

TRA-F-918	Project	Pipeline including CS	FID
Update Date	20/03/2018		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	PRJ-G-005 - CZ/SK Capacity4Gas Project - Capacity increase at IP Lanžhot		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Lanžhot	NET4GAS, s.r.o.	2020	CZ	SK	**333.0 GWh/d**
	Comment: The incremental capacity represents approx. exit capacity extension at the CZ/SK border.				

Sponsors

Czech Republic	
NET4GAS, s.r.o.	100%
Slovakia	
eustream, a.s.	100%

General Information

Promoter	*NET4GAS, s.r.o.*
Operator	*NET4GAS, s.r.o.*
Host Country	*Czechia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (CZ NDP 2018-2027 (currently under approval process))*
NDP Number	*TRA-F-918*
NDP Release Date	*31/10/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		04/2017
Feasibility		
FEED	04/2017	06/2018
Permitting	03/2018	08/2018
Supply Contracts		02/2019
FID		03/2017
Construction	05/2019	09/2020
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%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Capacity4Gas - CZ/SK					2020
	Total				

Benefits

Main Driver	Market Demand
Main Driver Explanation	Result of capacity auction
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Capacity increase at IP Lanžhot entry

TRA-F-902	Project	Pipeline including CS	FID
Update Date	27/03/2018		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	PRJ-G-005 - CZ/SK Capacity4Gas Project - Capacity increase at IP Lanžhot		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Lanžhot	eustream, a.s.	2019	CZ	SK	**884.0 GWh/d**

Sponsors

eustream, a.s.	100%

General Information

Promoter	*eustream,a.s. (a joint-stock company)*
Operator	*eustream, a.s.*
Host Country	*Slovakia*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Development Plan 2018-2027)*
NDP Number	*4.1.1.3. Lanžhot*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*NSIE, SGC*

Schedule	Start Date	End Date
Pre-Feasibility		06/2015
Feasibility	06/2015	10/2015
FEED	09/2015	07/2017
Permitting	08/2017	02/2018
Supply Contracts		01/2017
FID		12/2017
Construction	02/2018	11/2019
Commissioning	2019	2019
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
Capacity increase at IP Lanžhot entry				46	2019
	Total			**46**	

Delays since last TYNDP

Grant Obtention Date	
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	*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	*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.*

Financial Assistance

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

Poland - Slovakia Gas Interconnection (PL section)

TRA-F-275	Project	Pipeline including CS	FID
Update Date	22/05/2018		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	**143.9 GWh/d**
	GAZ-SYSTEM S.A.	2021	SK	PL	**174.5 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (6.2.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*04/2015*	*08/2018*
Permitting	*08/2016*	*08/2018*
Supply Contracts		
FID		
Construction		
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 Strachocina	up to 30 MW			30	0
PL-SK Interconnection - Polish section		1,000	58		0
Pogórka Wola - Tworzeń pipeline		1,000	160		0
Strachocina - Pogórska Wola pipeline		1,000	98		0
Tworóg - Tworzeń pipeline		1,000	56		0
	Total		**372**	**30**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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.

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.
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.

Barriers

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

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	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*31/10/2013*
Decision Date	*28/11/2014*
Website	*CBCA URL*
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	
Grants for works	*Yes*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*Yes*
Comments	*Structural Funds (Operational Programme Infrastructure and Environment 2014-2020): - Pogórska Wola - Tworzeń; - Strachocina - Pogórska Wola; - Tworóg - Tworzeń.*
General Comments	

Poland - Slovakia interconnection

TRA-F-190	Project	Pipeline including CS	FID
Update Date	22/05/2018		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	**144.0 GWh/d**
	Comment: Commissioning has been postponed to 09/2021 based on time schedule update				
	eustream, a.s.	2021	SK	PL	**174.6 GWh/d**
	Comment: Commissioning has been postponed to 09/2021 based on time schedule update				

Sponsors

eustream, a.s.	100%

General Information

Promoter	*eustream,a.s. (a joint-stock company)*
Operator	*eustream, a.s.*
Host Country	*Slovakia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Development Plan 2018-2027)*
NDP Number	*4.1.1.3.-PL-SK*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.2.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		05/2013
Feasibility	05/2011	07/2013
FEED	10/2015	04/2018
Permitting	08/2015	09/2018
Supply Contracts		10/2019
FID		03/2018
Construction	05/2018	11/2020
Commissioning	2021	2021
Grant Obtention Date	18/12/2017	18/12/2017

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
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, Market Integration, Security of Supply, Sustainability
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. Thereis 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

Grant Obtention Date	18/12/2017
Delay Since Last TYNDP	Yes
Delay Explanation	1)Unexpected decision of the relevant building authority to merge the localisation proceedings prior to obtainment of the Localisation permit for the pipeline and the compressor station and subsequent obligation to update Zoning Plans of Košice and Prešov Self-governing Regions. 2)Delay in finalization of the cross-border environmental impact assessment by the Slovak and the Polish nature protection authorities.3)Necessity to prolong public procurement proceeding due to the request of tenderers for extension of time period for submission of the initial tender bids. 4)Prolongation of the tendering process caused postponement of submission of documentation by the winning bidder all caused delay of detailed engineering. 5)Request of DG ENVIRO to deliver updated appropriate environmental impact assessment according to the chosen final routing of the pipeline.

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,Incease of SoS in the CEE region and potentially also to the Baltic region after constructing gas infrastructure between Poland and Baltic states Integration of gas infrastructure in the CEE region by constructing a cross-border interconnection between PL and SK that is currently missing. 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
Regulatory	Low rate of return
Financing	Availability of funds and associated conditions
Market	Lack of market support

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	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*31/10/2013*
Decision Date	*28/11/2014*
Website	*CBCA URL*
Countries Affected	*Czechia, Hungary, Poland, Slovakia, Ukraine*
Countries Net Cost Bearer	
Additional Comments	*It is expected that CAPEX and OPEX will be modified because of a decision (12/2017) not to contruct new compressor units at Veľké Kapušany but to technologically modify the existing compressor station at Veľké Kapušany. This will have a positive impact on CAPEX. However it will mean a slight increase of OPEX at eustream´s side. At this moment the project documents are being updated. It means that updated CAPEX and OPEX are not known.*

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 3*
Grants for works	*Yes*
Grants for works amount	*Mln EUR 55*
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*Yes*
Comments	*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).*
General Comments	

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

TRA-N-342	Project	Pipeline including CS	Non-FID
Update Date	21/11/2018		Non-Advanced
Description	The project aims at enhancing the capacity of the gas systems interconnection Latvia-Lithuania, ensuring safe and reliable natural gas supply, and achieving a more effective use of the infrastructure and better integration of the gas markets of the Baltic States. It is beneficial and important for the creation of the regional gas market. After the implementation of the project, the bi-directional capacity between Latvia and Lithuania will be increased up to 124.8 GWh (12 MCM) per day. The project is conditional upon other projects diversifying gas flows to be carried out in the Baltic States.		
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	2020	LV	LT	**60.0 GWh/d**
	AB Amber Grid	2020	LT	LV	**57.4 GWh/d**

Sponsors

AB Amber Grid	100%

General Information

Promoter	*AB Amber Grid*
Operator	*AB Amber Grid*
Host Country	*Lithuania*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Network Development Plan 2017-2026)*
NDP Number	*n/a*
NDP Release Date	*18/01/2018*
NDP Website	*NDP URL*
Currently PCI	*Yes (8.2.1)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*10/2017*	*09/2018*
FEED	*09/2018*	*04/2019*
Permitting	*05/2019*	*01/2020*
Supply Contracts		
FID		*01/2020*
Construction	*01/2020*	*12/2020*
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%*

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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 infrsatructure as well as contribute to the implementation of internal energy market to the Baltic States and Finland. It will ensure safe and reliable supply of gas. The project will contribute to the sustainability and increase of diversification of sources in the region.

Expected Gas Sourcing

Norway, LNG (NO)

Benefits

Main Driver	Market Demand
Main Driver Explanation	Increased gas flows between Latvia and Lithuania.
Benefit Description	The enhancement of bi-directional capacity of up to up to 124.8 GWh (12 MCM) per day 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.

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

Enhancement of Latvia-Lithuania interconnection (Latvian part)

TRA-N-382	Project	Pipeline including CS	Non-FID
Update Date	21/11/2018		Non-Advanced
Description	The project is aimed at the increase of interconnection capacity between Latvia and Lithuania. On Latvian side the initial project includes construction of a new pipeline Riga-Iecava and Iecava-Lithuanian border, however other solutions are posible, including, choise of different route or increase of pressure in the existing pipeline. On Lithuanian side it is planned to increase the capacity of Kiemenai metering station . The ongoing feasibilty study shall answer, which capacity increase is requested by the market and what scope of the project shall be chosen. The project is conditional upon other projects (GIPL) and gas market development in the Baltic countries.		
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
	Conexus Baltic Grid	2023	LV	LT	**60.0 GWh/d**
Kiemenai	Conexus Baltic Grid	2023	LT	LV	**57.4 GWh/d**

Comment: In case of lower market demand diameter of 500 mm can be used

Sponsors

General Information

Promoter	*JSC "Conexus Baltic Grid"*
Operator	*Conexus Baltic Grid*
Host Country	*Latvia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (8.2.1)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	10/2017	09/2018
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	2023	2023
Grant Obtention Date	30/03/2018	30/03/2018

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%

Enabled Projects

Project Code	Project Name
UGS-N-374	Enhancement of Incukalns UGS

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Riga-Iecava-Lithuanian border	In case of lower market demand diameter of 500 mm can be used	700	93	11	0
Total			**93**	**11**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
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.

Delays since last TYNDP

Grant Obtention Date	30/03/2018
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
Financing	Availability of funds and associated conditions
Market	Lack of market support

CBCA

Decision	*No, we have not submitted an investment request yet, but we do plan to submit it*
Submissin Date	*01/12/2018*
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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Balticconnector

TRA-F-895	Project	Pipeline including CS	FID
Update Date	28/02/2018		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
Balticonnector / Paldiski (EE)	Elering AS	2019	EE	FI/BAC	**80.0 GWh/d**
	Elering AS	2019	FI/BAC	EE	**80.0 GWh/d**

Sponsors

EE Kiili pressure reduction station	
Elering AS	100%
EE Kiili-Paldiski pipeline	
Elering AS	100%
EE Paldiski metering and Compressor station	
Elering AS	100%
FI Inkoo metering and compressor station	
Baltic Connector OY	100%
FI Inkoo-Siuntio pipeline	
Baltic Connector OY	100%
FI-EE Inkoo-Paldiski Offshore pipeline	
Elering AS	50%
Baltic Connector OY	50%

General Information

Promoter	*Elering AS*
Operator	*Elering AS*
Host Country	*Estonia*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (EESTI GAASIÜLEKANDEVÕRGU ARENGUKAVA 2018-2027)*
NDP Number	*paragraph 3.3*
NDP Release Date	*03/03/2018*
NDP Website	*NDP URL*
Currently PCI	*Yes (8.1.1)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		12/2005
Feasibility	01/2006	12/2006
FEED	01/2016	02/2016
Permitting	12/2012	01/2019
Supply Contracts		05/2018
FID		10/2016
Construction	11/2017	12/2019
Commissioning	2019	2019
Grant Obtention Date	21/10/2016	21/10/2016

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%

Enabled Projects

Project Code	Project Name
TRA-F-915	Enhancement of Estonia-Latvia interconnection
LNG-N-1119	Paldiski LNG
TRA-N-1121	TallinnLNG

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
FI Onshore	Inkoo-Siuntio pipeline, Inkoo compressor station	500	20	10	0
Offshore	Inkoo-Paldiski offshore pipeline	500	80		0
Total			**155**	**20**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The purpose of the Balticconnector natural gas pipeline project is to interconnect the Finnish and Estonian natural gas transmission networks and improve the energy security of the Baltic-Finnish region. The integration of the Finnish and Estonian gas infrastructures will ensure a more coherent and diverse natural gas transmission network in the Baltic Sea region, guarantee the security of natural gas supply for the north-eastern Member States of the EU by lifting Finland out of the current energy isolation and enhance EU energy solidarity by providing needed technical implementations for energy independence. The projects also target increased regional cooperation and have a strong focus on consumers and vulnerable energy customers. The aim is to move to Finnish-Baltic single entry-exit zone, which has been identified as the best fit solution in the "Baltic regional gas market study" and is expected to increase competition in the gas market.

Delays since last TYNDP

Grant Obtention Date	21/10/2016
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

Russia, LNG (?)

Benefits

Main Driver	Regulation-Interroperability
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	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*06/04/2016*
Decision Date	*22/04/2016*
Website	*CBCA URL*
Countries Affected	*Finland, Latvia*
Countries Net Cost Bearer	*Estonia*
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*
Grants for works	*Yes*
Grants for works amount	*Mln EUR 0*
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Balticconnector Finnish part

TRA-F-928	Project	Pipeline including CS	FID
Update Date	31/03/2018		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	**80.0 GWh/d**
	Baltic Connector Oy	2019	FI/BAC	FI	**80.0 GWh/d**
Balticonnector / Paldiski (EE)	Baltic Connector Oy	2019	EE	FI/BAC	**80.0 GWh/d**
	Baltic Connector Oy	2019	FI/BAC	EE	**80.0 GWh/d**

Sponsors	
EE Kiili pressure reduction station	
Elering AS	100%
EE Kiili-Paldiski pipeline	
Elering AS	100%
EE Paldiski metering and Compressor station	
Elering AS	100%
FI Inkoo metering and compressor station	
Baltic Connector OY	100%
FI Inkoo-Siuntio pipeline	
Baltic Connector OY	100%
FI-EE Inkoo-Paldiski Offshore pipeline	
Elering AS	50%
FI-EE Inkoo-Paldiski Offshore pipeline	
Baltic Connector OY	50%

General Information	
Promoter	*Baltic Connector Oy*
Operator	*Baltic Connector Oy*
Host Country	*Finland*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (8.1.1)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		*12/2005*
Feasibility	*01/2006*	*12/2006*
FEED	*01/2016*	*05/2017*
Permitting	*12/2012*	*05/2018*
Supply Contracts		*10/2017*
FID		*10/2016*
Construction	*11/2017*	*12/2019*
Commissioning	*2019*	*2019*
Grant Obtention Date	*21/10/2016*	*21/10/2016*

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
EE Onshore	Kiili-Paldiski onshore pipeline, Paldiski compressor station	700	50	10	0
FI Onshore	Inkoo-Siuntio pipeline, Inkoo compressor station	500	20	10	0
Offshore	Inkoo-Paldiski offshore pipeline	500	80		0
Total			**150**	**20**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The purpose of the Balticconnector natural gas pipeline project is to interconnect the Finnish and Estonian natural gas transmission networks and improve the energy security of the Baltic-Finnish region. The integration of the Finnish and Estonian gas infrastructures will ensure a more coherent and diverse natural gas transmission network in the Baltic Sea region, guarantee the security of natural gas supply for the north-eastern Member States of the EU by lifting Finland out of the current energy isolation and enhance EU energy solidarity by providing needed technical implementations for energy independence. The projects also target increased regional cooperation and have a strong focus on consumers and vulnerable energy customers. The aim is to move to Finnish-Baltic single entry-exit zone, which has been identified as the best fit solution in the “Baltic regional gas market study” and is expected to increase competition in the gas market.

Delays since last TYNDP

Grant Obtention Date	21/10/2016
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

Russia, LNG (?)

Benefits

Main Driver	Regulation-Interroperability
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	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*06/04/2016*
Decision Date	*22/04/2016*
Website	*CBCA URL*
Countries Affected	*Finland, Latvia*
Countries Net Cost Bearer	*Estonia*
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*
Grants for works	*Yes*
Grants for works amount	*Mln EUR 0*
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Reverse Flow Transitgas Switzerland

TRA-F-230	Project	Pipeline including CS	FID
Update Date	30/03/2018		Advanced
Description	Modification of the compressor station at Ruswil, the valve station at Lostorf and the metering station at Wallbach to allow the reversal of the border interconnection points at Gries Pass, Wallbach and Oltingue and a south-north use of the Transitgas pipeline.		
PRJ Code - PRJ Name	PRJ-G-012 - Bidirectional flows between Italy and Germany and France through Switzerland		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Griespass (CH) / Passo Gries (IT)	FluxSwiss	2018	IB-ITe	CH	**440.0 GWh/d**
Oltingue (FR) / Rodersdorf (CH)	FluxSwiss	2018	CH	IB-FR1	**200.0 GWh/d**
Wallbach	FluxSwiss	2018	CH	DEn	**240.0 GWh/d**

Sponsors

FluxSwiss	100%

General Information

Promoter	*FluxSwiss*
Operator	*FluxSwiss*
Host Country	*Switzerland*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((2) no NDP exists in the country)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

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

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

Expected Gas Sourcing

Algeria, Caspian Region, Libya, Russia, LNG (IT)

Benefits

Main Driver	Others
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Reverse Flow TENP Germany

TRA-F-208	Project	Pipeline including CS	FID
Update Date	30/03/2018		Advanced
Description	The project includes reversing of CS Hügelheim to allow gas coming from south Europe to be transported through the CBP Wallbach, as well as the construction of a deodorisation plant near the German-Swiss border, to allow gas coming from France to be transported through the CBP Wallbach. Additionally, an upgrading of the flow patterns of the CS Mittelbrunn and modifications to all necessary installations to ensure the by-directionality of the TENP-pipeline will be necessary. Fluxys TENP & Open Grid Europe will both take part in the commercial operation after completion of the project.		
PRJ Code - PRJ Name	PRJ-G-012 - Bidirectional flows between Italy and Germany and France through Switzerland		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Wallbach	Fluxys TENP GmbH	2018	CH	DEn	**240.0 GWh/d**

Sponsors

Fluxys TENP GmbH	64%
Open Grid Europe GmbH	35%

General Information

Promoter	*Fluxys TENP GmbH & Open Grid Europe GmbH*
Operator	*Fluxys TENP GmbH*
Host Country	*Germany*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Netzentwicklungsplan Gas 2016-2026)*
NDP Number	*305-02*
NDP Release Date	*16/10/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.10)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		01/2015
Feasibility	10/2012	01/2015
FEED	07/2016	12/2016
Permitting	12/2016	01/2018
Supply Contracts		04/2018
FID		01/2015
Construction	06/2017	06/2018
Commissioning	2018	2018
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%

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Liquefaction of natural gas market trading points in Europe (PSV & NCG), by transforming a unidirectional route towards a bidirectionality route. All consumers on the route will have an extra source of supply improving their SoS. The project enables a maximum use of existing infrastructure in a bidirectional way. By making the markets more liquid, the shippers have more choices in supply sources and routes and profit from competition.

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	
Decision	*Yes, we have submitted an investment request and have received a decision*
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*
Grants for works	*Yes*
Grants for works amount	*Mln EUR 0*
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Reverse capacity from CH to FR at Oltingue

TRA-F-45	Project	Pipeline including CS	FID
Update Date	29/03/2018		Advanced
Description	This project is a section of the South North Reverse Flow project, from Italy to France, Germany and Belgium via Switzerland. It will contribute to the Corridor "North-South Gas interconnection in Western Europe" and is also related through Italy with the Southern Corridor. Developements are needed at Oltingue and Morelmaison stations to enable this reverse flow from Switzerland/Italy to France.		
PRJ Code - PRJ Name	PRJ-G-012 - Bidirectional flows between Italy and Germany and France through Switzerland		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Oltingue (FR) / Rodersdorf (CH)	GRTgaz	2018	CH	IB-FR1	**100.0 GWh/d**

Sponsors

GRTgaz -- Infrastructure Projects	100%

General Information

Promoter	*GRTgaz*
Operator	*GRTgaz*
Host Country	*France*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Plan de développement du réseau de transport de GRTgaz 2017-2026)*
NDP Number	*Création de capacités d'entrée à partir de la Suisse*
NDP Release Date	*27/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		12/2010
Feasibility	10/2014	08/2015
FEED	09/2015	12/2016
Permitting		
Supply Contracts		01/2017
FID		07/2015
Construction	03/2017	11/2018
Commissioning	2018	2018
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
Morelmaison CS	Enable reverse flow from Oltingue			0	0
Oltingue interconnection station	Enable reverse flow			0	0
Total				**0**	

Expected Gas Sourcing

Algeria, Caspian Region, Libya, LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	During last open season on the project, shippers have confirmed their interest for reverse capacitites at the Oltingue / Rodersdorf IP.
Benefit Description	The project improves market integration between France, Switzerland and Italy. It creates a new entry point to the French network, giving access to new supply sources (Lybian and Azerian 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Support to the North West market and bidirectional cross-border flows

TRA-F-214	Project	Pipeline including CS	FID
Update Date	30/03/2018		Advanced
Description	The project consists in new on-shore pipelines and new compressor stations in the north of Italy and it permits to increase the flexibility of the gas transmission and the security of supply in the north-west area of Italy and it makes available additional export capacity over the project Support to the North West market.		
PRJ Code - PRJ Name	PRJ-G-012 - Bidirectional flows between Italy and Germany and France through Switzerland		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Griespass (CH) / Passo Gries (IT)	Snam Rete Gas S.p.A.	2018	IB-ITe	CH	368.0 GWh/d
	Comment: Total capacity of TRA-F-213 and TRA-F-214 is equal to 421 GWh/d. 232 GWh/d can be booked only at the point of Gries Pass, 189 GWh/d can be booked at the point of Tarvisio and/or Gries (competing capacity).				
Italy Northern Export Fork	Snam Rete Gas S.p.A.	2018	IT	IB-ITe	421.0 GWh/d
	Comment: Total capacity of TRA-F-213 and TRA-F-214 is equal to 421 GWh/d. 232 GWh/d can be booked only at the point of Gries Pass, 189 GWh/d can be booked at the point of Tarvisio and/or Gries (competing capacity).				
Tarvisio (IT) / Arnoldstein (AT)	Snam Rete Gas S.p.A.	2018	IB-ITe	AT	189.0 GWh/d
	Comment: Total capacity of TRA-F-213 and TRA-F-214 is equal to 421 GWh/d. 232 GWh/d can be booked only at the point of Gries Pass, 189 GWh/d can be booked at the point of Tarvisio and/or Gries (competing capacity).				

Sponsors	
Snam Rete Gas S.p.A.	100%

General Information	
Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Snam Rete Gas TYNDP 2017-2026)*
NDP Number	*RN_01*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.11)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2018*	*2018*
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		1,400	62	0	2018
Section 2		1,200	19	0	2018
Section 3		0	0	82	2018
	Total		**81**	**82**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project fulfills also the criteria of reverse flows, diversification of routes, N-1 regional, back-up for renewables, power-to-gas, market integration (increase of competition), flexibility of the system and reduction of GHG emissions.

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	Security of supply, reverse flows, diversification of routes, N-1 regional, back-up for renewables, power-to-gas, market integration (increase of competition), flexibility of the system and reduction of GHG emissions.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*Yes*
Comments	
General Comments	

Gaspipeline Brod - Zenica

TRA-N-224	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		Non-Advanced
Description	The starting point of Brod - Zenica gas pipeline is in close vicinity of Brod where it should be connected to the high-pressure gas pipeline Slobodnica - Brod (TSO – Plinacro) in the Republic of Croatia. Point of interconnection between Croatian and BiH natural gas transmission network is Brod/Slavonski Brod. The gas pipeline is planned to be bi-directional, and together with Southern Interconnection BiH/CRO creates a part of EC Gas Ring.		
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.	2023	HR	BA	**44.0 GWh/d**
	Comment: Technical entry capacity from Croatia to BiH is 44 GWh/day. Technical exit from BiH to Croatia is 35 GWh/day.				

Sponsors

BH-Gas d.o.o.	100%

General Information

Promoter	*BH-Gas d.o.o.*
Operator	*BH Gas d.o.o.*
Host Country	*Bosnia Herzegovina*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (SPP-Strategic plan and programme of FBiH)*
NDP Number	*PTG1*
NDP Release Date	*30/09/2009*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		02/2006
Feasibility	11/2017	04/2019
FEED	12/2019	04/2021
Permitting	01/2020	05/2021
Supply Contracts		05/2022
FID		11/2019
Construction	06/2022	09/2023
Commissioning	2023	2023
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Not Applicable
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
Brod-Zenica (section through FBiH and RS)		500	140	0	0
Total			**140**	**0**	

Fulfilled Criteria

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

Delays since last TYNDP

Grant Obtention Date	
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 neigboring 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 in case of disruptions, having in mind that currentlly BiH gas system is isolated and depending of one supply route.
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 rafinery 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 neccessary 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 conensus 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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	*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.*
General Comments	*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. Project was listed at PECI 2013 and it is submitted for PECI 2018.*

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

TRA-N-66	Project	Pipeline including CS	Non-FID
Update Date	26/02/2018		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 furter 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	2020	BA	HR	**162.0 GWh/d**
	Plinacro Ltd	2020	HR	BA	**162.0 GWh/d**

Sponsors

B&H, Bosanski Brod - Zenica

BH Gas 100%

Croatia, Slobodnica-Bosanski Brod (border)

Plinacro 100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.15*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	*01/2011*	*01/2019*
Supply Contracts		
FID		*11/2018*
Construction	*12/2019*	*12/2020*
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
Slobodnica - Bosanski Brod		700	6		0
	Total		**6**		

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	The start of the construction has been postponed until 2020.
Delay Explanation	

Expected Gas Sourcing

LNG (HR), It will be gas from Croatia transport system, Croatian UGS and Croatian planned LNG terminaland Baumgarten via Slovenia

Benefits

Main Driver	Market Demand
Main Driver Explanation	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.
Benefit Description	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 anable 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.

Barriers

Barrier Type	Description
Political	This project is politicaly very sensitive and depends on the agreement with Republika Srpska and agremments within B&H and its TSOs (BH Gas and GasRES)

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	signed between Plinacro and BH Gas	Yes	26/06/2006

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Southern Interconnection pipeline BiH/CRO

TRA-N-851	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		Non-Advanced
Description	Southern Interconnection pipeline BIH/CRO (Zagvozd-Posusje-Travnik with main branch to Mostar) - Project will integrate BiH with new supply route receiving gas from Croatian gas transmission system which will enable it to get gas supply from other markets (LNG, Caspian and Middle East sources). Project will be bi-directional and together with gaspipeline Zenica-Brod creates 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	HR/IAP	BA	**73.0 GWh/d**
	Comment: Technical entry capacity from Croatia to BiH is 73 GWh/day, Technical exit capacity from BiH to Croatia is 38 GWh/day				

Sponsors

BH-Gas d.o.o.	100%

General Information

Promoter	*BH-GAS d.o.o.*
Operator	*BH Gas d.o.o.*
Host Country	*Bosnia Herzegovina*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (SPP-Strategic plan and programme of FBiH)*
NDP Number	*PTG2*
NDP Release Date	*30/09/2009*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		10/2013
Feasibility	04/2017	04/2018
FEED	07/2018	09/2019
Permitting	07/2018	09/2019
Supply Contracts		08/2020
FID		06/2018
Construction	09/2020	12/2021
Commissioning	2023	2023
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Not Applicable
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
Posusje-Travnik with branch to Mostar		500	165	0	2023
Total			**165**	**0**	

Expected Gas Sourcing

Algeria, Caspian Region, Norway, Russia, LNG (HR), UGS in neighboring 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 2018.

Benefits

Main Driver	Others
Main Driver Explanation	Currently BiH gas system is isolated and depending of one supply route. Project is to interconnect natural gas systems of BiH and Croatia. 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. 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 in adoption process.
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, 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 maturity

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*Yes*
Comments	*0,40 Million EUR from WBIF, PFS finalized in October 2013; 0,141 Million EUR from CONNECTA, CBA scheduled for February 2018*
General Comments	

Interconnection Croatia-Bosnia and Herzegovina (South)

TRA-N-302	Project	Pipeline including CS	Non-FID
Update Date	26/02/2018		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 dievrsifed 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	2021	BA	HR/IAP	**81.0 GWh/d**
	Plinacro Ltd	2021	HR/IAP	BA	**81.0 GWh/d**

Sponsors

Croatian part of both options

Plinacro d.o.o.	100%

parts in B&H

BH Gas	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.13*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		09/2013
Feasibility		
FEED		
Permitting	08/2014	01/2021
Supply Contracts		
FID		01/2019
Construction	01/2020	01/2021
Commissioning	2021	2021
Grant Obtention Date		

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

Enabled Projects

Project Code	Project Name
TRA-N-68	Ionian Adriatic Pipeline

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Zagvozd-Imotski-Posušje		500	22		0
	Total		**22**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project will provide the SoS for Bosnia and Herzegovina, as BiH has only one gas entry. Via this pipeline BiH will have an access to existing gas sources (Baumgarten) as well as new gas sources as Krk LNG and IAP. The pipeline will ensure the market integration of two transmission system. AS it will provide a new source of gas it will have an influence on the prices (competition). The project will have an influenc on gasification on the part of Croatia and Bosnia and Herzegovina, wich will influence on suistainibility as it will come to the replacement of the usage of woods for heating.

Expected Gas Sourcing

Caspian Region, LNG (), Baumgarten via Slovenia and Croatia

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.

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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*Yes*
Comments	
General Comments	

West Interconnection BiH/CRO

TRA-N-910	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		Non-Advanced
Description	Western interconnection BiH/CRO (Licka Jesenica - Trzac-Bos. Krupa with branches to Bihac and Velika Kladusa) - Project will connect BiH with Croatian gas transmission system and enable gasification of part of Una-Sana Canton in the west side of BiH.		
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	HR	BA	73.0 GWh/d
	Comment: Technical entry capacity from Croatia to BiH is 73 GWh/day.				

Sponsors

BH-Gas d.o.o.	100%

General Information

Promoter	*BH-Gas d.o.o.*
Operator	*BH Gas d.o.o.*
Host Country	*Bosnia Herzegovina*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (SPP-Strategic plan and programme of FBiH)*
NDP Number	*PTG4*
NDP Release Date	*30/09/2009*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		06/2008
Feasibility	01/2018	04/2019
FEED	04/2019	12/2024
Permitting	01/2025	06/2025
Supply Contracts		05/2024
FID		10/2024
Construction	06/2025	06/2026
Commissioning	2026	2026
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Not Applicable
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
Licka Jesenica - Trzac - Bos.Krupa	Additionally, branches to Bihac and Velika Kladusa are 45 km length both, diameter 250 mm.	500	35	0	0
Total			**35**	**0**	

Expected Gas Sourcing

Algeria, Caspian Region, Norway, Russia, LNG (HR), UGS in neighboring 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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	*BH-Gas financed by its own funds Pre-fesibility Study developed in 2008.*
General Comments	

Interconnection Croatia-Bosnia and Herzegovina (west)

TRA-N-303	Project	Pipeline including CS	Non-FID
Update Date	26/02/2018		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	2027	BA	HR	**81.0 GWh/d**
	Plinacro Ltd	2027	HR	BA	**81.0 GWh/d**

Sponsors

Croatian part	
Plinacro d.o.o.	100%
part in B&H	
BH Gas	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.35 and 1.36*
NDP Release Date	*15/12/2018*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	12/2012	09/2026
Supply Contracts		
FID		12/2025
Construction	04/2026	11/2027
Commissioning	2027	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
Lička Jesenica-Rakovica		500	20		0
Rakovica-Bihać		500	10		0
	Total		**30**		

Expected Gas Sourcing

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

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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

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

TRA-F-341	Project	Pipeline including CS	FID
Update Date	30/05/2018		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 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	**58.3 GWh/d**
	AB Amber Grid	2021	PL	LT	**73.9 GWh/d**

Sponsors

AB Amber Grid	100%

General Information

Promoter	*AB Amber Grid*
Operator	*AB Amber Grid*
Host Country	*Lithuania*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Network Development Plan 2017-2026)*
NDP Number	*n/a*
NDP Release Date	*18/01/2018*
NDP Website	*NDP URL*
Currently PCI	*Yes (8.5)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		12/2012
Feasibility	02/2012	02/2013
FEED	05/2015	09/2016
Permitting	07/2016	09/2016
Supply Contracts		
FID		03/2018
Construction	03/2018	06/2021
Commissioning	2021	2021
Grant Obtention Date	15/10/2015	15/10/2015

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
Border PL/LT - Jauniunai		700	165		0
	Total		**165**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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 and increase of the diversification of the sources in the region.

Delays since last TYNDP

Grant Obtention Date	15/10/2015
Delay Since Last TYNDP	
Delay Explanation	

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	*31/10/2013*
Decision Date	*11/08/2014*
Website	*CBCA URL*
Countries Affected	
Countries Net Cost Bearer	*Estonia;#Latvia;#Lithuania*
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*
Grants for works	*Yes*
Grants for works amount	*Mln EUR 0*
Intention to apply for CEF	
Other Financial Assistance	*Yes*
Comments	
General Comments	

Gas Interconnection Poland-Lithuania (GIPL) - PL section

TRA-F-212	Project	Pipeline including CS	FID
Update Date	30/05/2018		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 with 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	**58.3 GWh/d**
	GAZ-SYSTEM S.A.	2021	PL	LT	**73.9 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (8.5)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*06/2015*	*10/2019*
Permitting	*12/2015*	*10/2019*
Supply Contracts		
FID		
Construction		
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				30	0
CS Hołowczyce - modernization					0
GIPL - Polish section		700	357		0
	Total		**357**	**30**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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

Grant Obtention Date	
Delay Since Last TYNDP	Yes
Delay Explanation	

Benefits

Main Driver	Others
Main Driver Explanation	Regulation SoS, market integration
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 unmaturity of the gas markets in the Baltic States.
Market	Lack of market maturity

CBCA	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*31/10/2013*
Decision Date	*11/08/2014*
Website	*CBCA URL*
Countries Affected	*Estonia, Latvia, Lithuania*
Countries Net Cost Bearer	*Poland*
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	
Grants for works	*Yes*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*Yes*
Comments	*TEN-E: Study: Identification of the business case and feasibility study for the Gas Interconnection Poland-Lithuania.* *TEN-E: Environmental Impact Assessment documentation up to environmental decision obtainment for the Gas Interconnection Poland - Lithuania.*
General Comments	

Transport of gas volumes to the Netherlands

TRA-N-808	Project	Pipeline including CS	Non-FID
Update Date	24/03/2018		Non-Advanced
Description	This Project builds a new IP towards the Netherlands resulting in an Exit Zone towards the NLs. In the first expansion step this IP will only take over the capacities, which are provided at the IP "Bunde (DE) / Oude Statenzijl (H) (NL) (GUD)". The measure is an optimization of the GUD export infrastructure. The new IP offers the potential to increase the capacity with moderate technical measures.		
PRJ Code - PRJ Name	PRJ-G-018 - Additional capacity at Oude Statenzijl from Germany to the Netherlands		

Capacity Increments Variant For Modelling

Variant : GUD OSZ-H 2. Offer Level — INC CAP: 2. Offer Level

Point	Operator	Year	From Gas System	To Gas System	Capacity
Zone Oude Statenzijl H	Gasunie Deutschland Transport Services GmbH	2025	DEg	IB-NLg	285.6 GWh/d

Capacity Increments Variant(s) For Information Only

Variant : GUD OSZ-H 1. Offer Level — INC CAP: 1. Offer Level

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	-55.7 GWh/d
Zone Oude Statenzijl H	Gasunie Deutschland Transport Services GmbH	2025	DEg	IB-NLg	230.9 GWh/d

Capacity Increments Variant(s) For Information Only

Variant : GUD OSZ-H Base — Base Case: Optimization - Replacing CS Bunder Tief

Point	Operator	Year	From Gas System	To Gas System	Capacity
Bunde (DE) / Oude Statenzijl (H) (NL) (GUD)	Gasunie Deutschland Transport Services GmbH	2023	DEg	IB-NLg	-55.7 GWh/d
Zone Oude Statenzijl H	Gasunie Deutschland Transport Services GmbH	2023	DEg	IB-NLg	55.7 GWh/d

Sponsors

General Information

Promoter	*Gasunie Deutschland Transport Services GmbH*
Operator	*Gasunie Deutschland Transport Services GmbH*
Host Country	*Germany*
Status	*Planned*
Website	

NDP and PCI Information

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)*
NDP Number	*ID 504-01a; ID 504-01b; ID 504-01c*
NDP Release Date	*01/04/2018*
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	*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%*

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Additional capacity at OSZ from Germany to the Netherlands

TRA-N-873	Project	Pipeline including CS	Non-FID
Update Date	27/03/2018		Non-Advanced
Description	This projects enables additional flow at the interconnection point between GTS and Gaspool at Oude Statenzijl. Market demand in the Netherlands and surrounding countries to compensate for declining indigenous production is an important driver for additional imports.		
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.	2025	IB-NLg	NL	**288.0 GWh/d**
Zone Oude Statenzijl H	Gasunie Transport Services B.V.	2025	DEg	IB-NLg	**288.0 GWh/d**

Sponsors

Gasunie Transport Services B.V.	100%

General Information

Promoter	*Gasunie Transport Services B.V.*
Operator	*Gasunie Transport Services B.V.*
Host Country	*Netherlands*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Netwerk Ontwikkelingsplan 2017)*
NDP Number	*6.5.4.*
NDP Release Date	
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	*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%*

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Baltic Pipe project – onshore section in Denmark

TRA-N-780	Project	Pipeline including CS	Non-FID
Update Date	14/09/2018		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	306.8 GWh/d
	Energinet	2022	PL	DK	91.1 GWh/d
Nybro	Energinet	2022	IB-NPcDKn	DK	306.8 GWh/d

Sponsors

General Information

Promoter	*Energinet.dk*
Operator	*Energinet*
Host Country	*Denmark*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (8.3.1)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	09/2015	12/2016
FEED	06/2018	02/2020
Permitting	12/2017	07/2019
Supply Contracts		
FID		12/2018
Construction	03/2020	10/2022
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%

Enabled Projects

Project Code	Project Name
TRA-N-394	Norwegian tie-in to Danish upstream system

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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

Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*27/10/2017*
Decision Date	*27/02/2018*
Website	*CBCA URL*
Countries Affected	*Denmark, Poland, Sweden*
Countries Net Cost Bearer	
Additional Comments	*The Danish NRA (DERA) approved the CBCA on the 27 February 2018. The Polish NRA (URE) approved the CBCA on the 12 March 2018.* *The Danish decision can be found here: http://energitilsynet.dk/gas/afgoerelser/tilsynsafgoerelser/2018/godkendelse-af-omkostningsfordelingen-mellem-polen-og-danmark-for-baltic-pipe-projektet/* *The Polish decision can be found here: 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*

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Poland - Denmark interconnection (Baltic Pipe) - offshore section

TRA-N-271	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		Advanced
Description	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. 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.		
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	**306.8 GWh/d**
	GAZ-SYSTEM S.A.	2022	PL	DK	**91.1 GWh/d**

Sponsors

GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (8.3.2)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*08/2017*	
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
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, Market Integration, Security of Supply, Sustainability
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.

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

Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*27/10/2016*
Decision Date	*12/03/2018*
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*Yes*
Comments	*TEN-E: "Baltic Pipe - Gas pipeline from Denmark to Poland - Pre-investment studies and authority process"* *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"*
General Comments	

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

TRA-N-1173	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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	**0.0 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (8.3.2)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*11/2017*	
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%*

Enabled Projects

Project Code	Project Name
TRA-N-271	Poland - Denmark interconnection (Baltic Pipe) - offshore section

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	188		0
	Total		**188**	**41**	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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.

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	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*27/10/2016*
Decision Date	*12/03/2018*
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Czech-Polish Gas Interconnector (CPI)

TRA-N-136	Project	Pipeline including CS	Non-FID
Update Date	23/03/2018		Advanced
Description	The subject of the project (Czech part) is the construction of the DN 1000 gas pipeline from Tvrdonice to Hať 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.) The Czech part of CPI consists of the following subprojects: 1) Poland-Czech Republic interconnector (STORK II; PCI project No. 6.2.10), and 2) Tvrdonice-Libhošť pipeline, including upgrade of CS Břeclav (PCI project No. 6.2.12)		
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	NET4GAS, s.r.o.	2022	CZ	PL	**219.1 GWh/d**
			Comment: Exit from CZ to PL		
	NET4GAS, s.r.o.	2022	PL	CZ	**153.2 GWh/d**
			Comment: Entry from PL to CZ		

Sponsors

Czech Republic	
NET4GAS, s.r.o.	100%
Poland	
Operator Gazociągów Przesyłowych GAZ-SYSTEM S.A.	100%

General Information

Promoter	*NET4GAS, s.r.o.*
Operator	*NET4GAS, s.r.o.*
Host Country	*Czechia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (CZ NDP 2016-2025 (approved))*
NDP Number	*TRA-N-136*
NDP Release Date	*31/10/2015*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.2.10; 6.2.12)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		08/2011
Feasibility	01/2009	12/2012
FEED	11/2014	10/2017
Permitting	02/2016	11/2019
Supply Contracts		11/2020
FID		12/2019
Construction	07/2021	12/2022
Commissioning	2022	2022
Grant Obtention Date	01/01/2018	01/01/2018

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
Tvrdonice (CZ) - Hať (CZ/PL)	The pipeline length at CZ side is approx. 207.4 km (Tvrdonice-Hať). Upgrade of the existing compressor station Břeclav (CZ) is needed.	1,000	207	24	2022
Total			**207**	**24**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The Poland-Czech Republic Interconnector meets following criteria: - Market integration through increasing cross-border capacity between CZ and PL markets. - Competition by connecting Poland to CEGH hub in Baumgarten and NCG hub in Germany. - Sustainability through CO2 emission reduction. - Diversification of sources of gas supply through connection to the Adriatic, Baltic and Black Seas as well as the LNG terminals in Croatia and Poland and therefore completing the North-South Gas Corridor. - Security of supply by keeping the possibility of gas supply from non-Russian sources and thus supporting increase of security of supply as well as route diversification.

Delays since last TYNDP

Grant Obtention Date	01/01/2018
Delay Since Last TYNDP	4 years
Delay Explanation	Delay was caused by political decisions.

Benefits	
Main Driver	Others
Main Driver Explanation	Competition, Market Intergration
Benefit Description	The Project benefits are: (a) The Project aims to increase the cross-border capacity between Poland and the Czech Republic by establishing a large transportation corridor that will allow for flexible transport of gas in Central Europe in direction North-South; (b) Implementation of the Project will increase the security of gas supply and provide the overall flexibility for the CEE region and diversify the supply routes for the CEE region; (c) Improve European gas grid interconnection; (d) Increase the security and reliability of the cross-border gas transmission between the Czech Republic and Poland; (e) Create a robust, well-functioning internal market in the Czech Republic and Poland and promote the competition; (f) Contribute to the creation of the integrated and competitive gas market in CEE region and thus decrease gas prices.

Barriers

Barrier Type	Description
Permit Granting	Large delays in process at the Ministry of Regional Development.
Political	Change of political decisions.
Regulatory	Lack of proper transposition of EU regulation
Regulatory	Low rate of return

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	20/04/2015
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	06/09/2016

CBCA	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*31/10/2013*
Decision Date	*17/10/2014*
Website	*CBCA URL*
Countries Affected	*Czechia, Poland*
Countries Net Cost Bearer	*Czechia;#Poland*
Additional Comments	

Financial Assistance	
Applied for CEF	*(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*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 0*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*TEN-E, 371 622 EUR*
General Comments	*Decision of CEF grant for CS Břeclav has been taken. The Grant Agreement is now under development.*

Poland - Czech Republic Gas Interconnection (PL section)

TRA-N-273	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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.	2022	CZ	PL	**219.1 GWh/d**
	GAZ-SYSTEM S.A.	2022	PL	CZ	**153.2 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (6.2.10)*
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	*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
PL-CZ Interconnection - Polish section		1,000	54		0
	Total		**54**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market integration: - Creation of a well-integrated and functioning market in the CEE region. SoS: - Mitigation of effects resulting from supply disruptions in the CEE countries; - Reduction of dependence on gas supplies from Russia in the CEE region; - Enhanced security of supply with an improved supply link in the CEE region to the European gas market, global LNG supplies, deliveries of gas from Norway. Competition: - Reduction of price differences between the CEE and North-West regions; - Enhanced access to new sources of supply in the CEE region (LNG, Norway, supplies from the EU market) that improves competition not only in PL but also in the whole CEE region. Sustainability - Reduction of emissions in the CEE region by promoting natural gas in national economies.

Benefits	
Main Driver	Others
Main Driver Explanation	Regulation SoS and market integration
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.

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

CBCA	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*31/10/2013*
Decision Date	*24/06/2014*
Website	*CBCA URL*
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

LNG Terminal Brunsbuettel

LNG-N-1198	Project	LNG Terminal	Non-FID
Update Date	22/05/2018		Non-Advanced
Description	Construction of the first German LNG Terminal in Brunsbuettel (Hamburg Area). The Terminal project is currently running an open-season market survey to determine the market for the project. The connencting projects are part of the Draft NDP 2018 of the German Gas TSOs.		
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	2021	DEg	LNG_Tk_DEg	**208.8 GWh/d**

Sponsors

General Information

Promoter	*Gasunie Deutschland Transport Service GmbH*
Operator	*Gasunie Deutschland Transport Services GmbH*
Host Country	*Germany*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((4) there is no obligation at national level for such a project to be part of the NDP)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2021*	*2021*
Grant Obtention Date		

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

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*								

Expected Gas Sourcing

LNG ()

Comments about the Third-Party Access Regime

German LNG Terminal GmbH is going to apply for an exemption in 2018

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

LNG Terminal Brunsbuettel - Grid Integration

TRA-N-1199	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		Non-Advanced
Description	Construction of the first German LNG Terminal in Brunsbuettel (Hamburg Area). The Terminal project is currently running an open-season market survey to determine the market for the project. The connencting projects are part of the NDP 2018 of the German Gas TSOs.		
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	2021	LNG_Tk_DEg	DEg	**208.8 GWh/d**

Sponsors

General Information

Promoter	*Gasunie Deutschland Transport Service GmbH*
Operator	*Gasunie Deutschland Transport Services GmbH*
Host Country	*Germany*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

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)*
NDP Number	*ID 502-01a; ID 502-01b*
NDP Release Date	*01/04/2018*
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	*2021*	*2021*
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
Brunsbuettel-Hetlingen		800	50		2021
	Total		**50**		

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Poland - Ukraine Gas Interconnection (PL section)

TRA-N-621	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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; Extenstion of CS Strachocina; Necessary additional transmission system development in Poland: Hermanowice-Strachocina pipeline; Strachocina-Pogórska Wola pipeline; Pogórska Wola-Tworzeń pipeline; Tworóg-Tworzeń 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	GAZ-SYSTEM S.A.	2020	PL	UAe	**153.2 GWh/d**
UA>PL Interconnector	GAZ-SYSTEM S.A.	2020	UA	PL	**153.2 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	09/2016	09/2018
Permitting	10/2016	09/2018
Supply Contracts		
FID		
Construction		
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%

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
Total			**2**		

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Poland-Ukraine Interconnector (Ukrainian section)

TRA-N-561	Project	Pipeline including CS	Non-FID
Update Date	22/05/2018		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; Extenstion 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	Ukrtransgaz	2020	PL	UAe	**245.0 GWh/d**
UA>PL Interconnector	Ukrtransgaz	2020	UA	PL	**215.0 GWh/d**

Sponsors

Ukrtransgaz	100%

General Information

Promoter	*PJSC UKRTRANSGAZ*
Operator	*Ukrtransgaz*
Host Country	*Ukraine*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*No ((2) no NDP exists in the country)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		02/2016
Feasibility	01/2015	12/2016
FEED	12/2016	07/2018
Permitting	12/2016	09/2018
Supply Contracts		
FID		
Construction	08/2018	03/2020
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
Drozdovychi - Bilche Volytsya		1,000	99	0	2020
	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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Embedding CS Folmhusen in H-Gas

TRA-N-951	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		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	**72.4 GWh/d**
Bunde (DE) / Oude Statenzijl (L) (NL) (GUD)	Gasunie Deutschland Transport Services GmbH	2020	IB-NLg	DEgL	**-54.9 GWh/d**

Sponsors

General Information

Promoter	*Gasunie Deutschland Transport Services GmbH*
Operator	*Gasunie Deutschland Transport Services GmbH*
Host Country	*Germany*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (NEP Gas 2015; NEP Gas 2016-2026)*
NDP Number	*ID 300-02*
NDP Release Date	*16/10/2017*
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	*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%*

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

GUD: Complete conversion to H-gas

TRA-N-955	Project	Pipeline including CS	Non-FID
Update Date	24/03/2018		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 excisting 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	**137.5 GWh/d**
Bunde (DE) / Oude Statenzijl (L) (NL) (GUD)	Gasunie Deutschland Transport Services GmbH	2030	IB-NLg	DEgL	**-137.5 GWh/d**
UGS Lesum	Gasunie Deutschland Transport Services GmbH	2021	STcDEgL	DEgL	**-48.9 GWh/d**
	Gasunie Deutschland Transport Services GmbH	2021	DEgL	STcDEgL	**-10.7 GWh/d**
Zone L-Gas GUD/OGE	Gasunie Deutschland Transport Services GmbH	2018	DEgL	DEnL	**0.0 GWh/d**
	Comment: Interruptable capacity according to NEP 2018				
	Gasunie Deutschland Transport Services GmbH	2027	DEgL	DEnL	**-42.0 GWh/d**

Sponsors

General Information

Promoter	*Gasunie Deutschland Transport Services GmbH*
Operator	*Gasunie Deutschland Transport Services GmbH*
Host Country	*Germany*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (NEP Gas 2014; NEP Gas 2015; NEP Gas 2016-2026)*
NDP Number	*ID 221-01 ID; ID 222-02; ID 223-01*
NDP Release Date	*17/10/2017*
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	*2018*	*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%*

Enabled Projects

Project Code	Project Name
TRA-N-951	Embedding CS Folmhusen in H-Gas

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

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

TRA-N-949	Project	Pipeline including CS	Non-FID
Update Date	01/03/2018		Non-Advanced
Description	This projects creates a new interconnection point for H-Gas between the Netherlands and Germany. 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	2024	IB-NLg	DEg	**59.3 GWh/d**
	Gastransport Nord GmbH	2025	IB-NLg	DEg	**59.3 GWh/d**
	Gastransport Nord GmbH	2026	IB-NLg	DEg	**59.3 GWh/d**
	Gastransport Nord GmbH	2027	IB-NLg	DEg	**118.7 GWh/d**

Sponsors

General Information

Promoter	*Gastransport Nord GmbH*
Operator	*Gastransport Nord GmbH*
Host Country	*Germany*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Netzentwicklungsplan Entwurf 2016 -2026)*
NDP Number	*432-01*
NDP Release Date	*16/10/2017*
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	*2024*	*2027*
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	*Regulated*
Considered Tariff Regime	*Regulated*
Applied for Exemption	*Yes*
Exemption Granted	*Yes*
Exemption in entry direction	*0.00%*
Exemption in exit direction	*0.00%*

Expected Gas Sourcing
Norway, Russia

Benefits	
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Transferring L-gas infrastructure to H-gas

TRA-N-882	Project	Pipeline including CS	Non-FID
Update Date	27/02/2018		Non-Advanced
Description	Due to the of production of 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, the first ones being Oude Statenzijl and Zevenaar. Other IPs may follow in the future. The first project is linked to initiatives of Gasunie Deutschland and GTG Nord.		
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)	Gasunie Transport Services B.V.	2022	IB-NLg	DEg	72.0 GWh/d
	Gasunie Transport Services B.V.	2026	IB-NLg	DEg	45.0 GWh/d
Bunde (DE) / Oude Statenzijl (H) (NL) (GUD)	Gasunie Transport Services B.V.	2020	IB-NLg	DEg	72.4 GWh/d
	Gasunie Transport Services B.V.	2030	IB-NLg	DEg	137.5 GWh/d
Virtual Ips (GTS) NL-DE (Gaspool)	Gasunie Transport Services B.V.	2020	NL	IB-NLg	72.4 GWh/d
	Gasunie Transport Services B.V.	2022	NL	IB-NLg	72.0 GWh/d
	Gasunie Transport Services B.V.	2026	NL	IB-NLg	45.0 GWh/d
	Gasunie Transport Services B.V.	2030	NL	IB-NLg	137.5 GWh/d

Sponsors

Gasunie Transport Services	100%

General Information

Promoter	*Gasunie Transport Services B.V.*
Operator	*Gasunie Transport Services B.V.*
Host Country	*Netherlands*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Netwerk Ontwikkelingsplan 2017)*
NDP Number	*6.5.1*
NDP Release Date	
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	*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	
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	
Grants for works	*No*
Grants for works amount	
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	31/05/2018		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 resulting 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
Brandov-EUGAL (CZ) / Deutschneudorf-EUGAL (DE)	NET4GAS, s.r.o.	2019	DEg	CZ	665.0 GWh/d
	Comment: The incremental capacity represents approx. entry capacity extension between the market areas of DE (Gaspool) and CZ.				
	NET4GAS, s.r.o.	2021	DEg	CZ	454.0 GWh/d
	Comment: Second phase				
Brandov-OPAL (DE)	NET4GAS, s.r.o.	2019	Y-CZb	CZ/GZL	-204.9 GWh/d
	Comment: capacity reallocation				
Hora Svaté Kateřiny (CZ) / Deutschneudorf (Sayda) (DE)	NET4GAS, s.r.o.	2019	DEg	CZ	15.6 GWh/d
	Comment: capacity reallocation				
Waidhaus	NET4GAS, s.r.o.	2019	IB-CZw	CZ	-241.4 GWh/d
	Comment: capacity reallocation				

Sponsors	
Czech Republic	
NET4GAS, s.r.o.	100%
Germany	
EUGAL (shareholders: GASCADE, Fluxys DE, Gasunie DE, ONTRAS)	100%

General Information	
Promoter	*NET4GAS, s.r.o.*
Operator	*NET4GAS, s.r.o.*
Host Country	*Czechia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (CZ NDP 2018-2027 (currently under approval process))*
NDP Number	*TRA-F-752*
NDP Release Date	*31/10/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		*03/2017*
Feasibility	*03/2017*	*10/2017*
FEED	*07/2017*	*06/2019*
Permitting	*07/2017*	*12/2019*
Supply Contracts		*01/2020*
FID		*03/2017*
Construction	*06/2018*	*09/2021*
Commissioning	*2019*	*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
HSK-Přimda	Second phase	1,400	152		2021
	The project comprises several technical measures, which factually leads to increase of entry capacity between DE (Gaspool) and CZ.			25	2019
Total			**152**	**25**	

Benefits

Main Driver	Market Demand
Main Driver Explanation	Result of capacity auction
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Additional East-West transport

TRA-N-809	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		Non-Advanced
Description	Additional East-West transport of gas volumes - for example to the Netherlands. The project is part of the projects related to the Euope-wide "more-capacity" market survey.		
PRJ Code - PRJ Name	PRJ-G-034 - More capacity – DE/CZ Capacity4Gas Project		

Sponsors

General Information

Promoter	*Gasunie Deutschland Transport Services GmbH*
Operator	*Gasunie Deutschland Transport Services GmbH*
Host Country	*Germany*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

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)*
NDP Number	*ID 507-01l*
NDP Release Date	*01/04/2018*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	*01/2018*	
Supply Contracts		
FID		
Construction		
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%*

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Reversion Holtum	Reversing of the compressor station Holtum				2020
Total					

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	PRJ-G-034 [More Capacity – DE/CZ Capacity4Gas Project] The aim of the project is to make the Central European network more robust and flexible, reliably strengthen the supply of natural gas to Germany, the Czech Republic and other European countries. The project is part of a larger initiative to have secure and cost-efficient access to gas supplies via additional pipeline capacities, especially in the Baltic Sea. Simultaneously, the newly-created infrastructure will be made available to all interested market participants on a fully transparent and non-discriminatory basis for the transportation of any kind of natural gas from producing countries. 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.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

EUGAL - Europaeische Gasanbindungsleitung (European Gaslink)

TRA-N-763	Project	Pipeline including CS	Non-FID
Update Date	26/03/2018		Advanced
Description	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. 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.		
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
Brandov-EUGAL (CZ) / Deutschneudorf-EUGAL (DE)	GASCADE Gastransport GmbH	2019	DEg	CZ	664.8 GWh/d
				Comment: Level 1	
	GASCADE Gastransport GmbH	2020	DEg	CZ	454.4 GWh/d
		Comment: Level 2, on top of Level 1 - in total 1119.23 GWh/d			
Lubmin II	GASCADE Gastransport GmbH	2019	RU/NO2	DEg	962.4 GWh/d
				Comment: Level 1	
	GASCADE Gastransport GmbH	2020	RU/NO2	DEg	778.9 GWh/d
		Comment: Level 2, on top of Level 1 - in total 1741.38 GWh/d			

Sponsors	
GASCADE Gastransport GmbH	50%
ONTRAS Gastransport GmbH	16%
Fluxys Deutschland GmbH	16%
Gasunie Deutschland GmbH & Co. KG	16%

General Information	
Promoter	*GASCADE GmbH / Fluxys Deutschland GmbH / GUD GmbH&Co.KG / ONTRAS GmbH*
Operator	*GASCADE Gastransport GmbH*
Host Country	*Germany*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
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)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	*01/2017*	*01/2018*
Supply Contracts		
FID		
Construction		
Commissioning	*2019*	*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%*

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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Upgrade for IP Deutschneudorf et al. for More Capacity

TRA-N-814	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		Non-Advanced
Description	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. 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. 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. 4. Upgrade of Groß Köris PRMS with new metering/control system for gas transmission to IP Deutschneudorf, due Dec. 2019. 5. Renewal of Sayda compressor station to ensure increasing transit and pressure levels at IP Deutschneudorf, due end of 2023.		
PRJ Code - PRJ Name	PRJ-G-034 - More capacity – DE/CZ Capacity4Gas Project		

Sponsors

Compressor station Sayda

ONTRAS Gastransport GmbH	100%

Pressure reduction & metering station at Börnicke

ONTRAS Gastransport GmbH	100%

Pressure reduction & metering station at Groß Köris

ONTRAS Gastransport GmbH	100%

Pressure reduction & metering station at Kienbaum with connection to EUGAL

ONTRAS Gastransport GmbH	100%

Pressure reduction & metering station at Steinitz

ONTRAS Gastransport GmbH	50%

General Information

Promoter	*ONTRAS Gastransport GmbH*
Operator	*ONTRAS Gastransport GmbH*
Host Country	*Germany*
Status	*Planned*
Website	

NDP and PCI Information

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)*
NDP Number	*ID 507-01g, ID 507-01h, ID 507-01i, ID 507-1j, ID 507-01m*
NDP Release Date	*01/04/2018*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		03/2016
Feasibility	07/2017	10/2017
FEED	10/2017	12/2017
Permitting	01/2018	
Supply Contracts		
FID		
Construction		
Commissioning	2019	2019
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	Not Relevant
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
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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection ES-PT (3rd IP) - 1st phase

TRA-N-168	Project	Pipeline including CS	Non-FID
Update Date	09/11/2018		Non-Advanced
Description	This projects consist on: - a pipeline from Zamora to the Portuguese border - an expansion of the compressor station in Zamora (Spain)		
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	Enagas Transporte S.A.U.	2024	PT	ES	**70.0 GWh/d**
	Comment: According to the best available data of the Joint Technical Study being developed by Enagás and REN Gasodutos the common capacity value is 70 ES-PT & 70 GWh PT-ES. Capacities on the Spanish side before applying the lesser rule: 70 ES-PT & 70 GWh PT-ES				
	Enagas Transporte S.A.U.	2024	ES	PT	**70.0 GWh/d**
	Comment: According to the best available data of the Joint Technical Study being developed by Enagás and REN Gasodutos the common capacity value is 70 ES-PT & 70 GWh PT-ES. Capacities on the Spanish side before applying the lesser rule: 70 ES-PT & 70 GWh PT-ES				

Sponsors

CS Zamora	
Enagás Transporte, S.A.U.	100%
Zamora - Portuguese Border	
Enagás Transporte, S.A.U.	100%

General Information

Promoter	*Enagás Transporte, S.A.U.*
Operator	*Enagas Transporte S.A.U.*
Host Country	*Spain*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (5.4.1)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*01/2019*	*05/2020*
FEED	*01/2019*	*05/2020*
Permitting	*09/2019*	*12/2021*
Supply Contracts		
FID		*05/2020*
Construction	*04/2022*	*12/2023*
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
CS Zamora	According to the best available data of the reassessment that is being developed by Enagás and REN Gasodutos the common capacity value is 70 ES-PT & 70 GWh PT-ES. Capacities on the Spanish side before applying the lesser rule: 70 ES-PT & 70 GWh PT-ES			4	2023
Zamora - Portuguese Border	According to the best available data of the reassessment that is being developed by Enagás and REN Gasodutos the common capacity value is 70 ES-PT & 70 GWh PT-ES. Capacities on the Spanish side before applying the lesser rule: 70 ES-PT & 70 GWh PT-ES	700	86		2023
Total			**86**	**4**	

Fulfilled Criteria

Specific Criteria Fulfilled	Market Integration, Security of Supply
Specific Criteria Fulfilled Comments	The project is important for the integration of the Portuguese market at Iberian and European level, improving competition and providing shippers with access to alternative balancing gas. From the point of view of security of supply, the 3rd Interconnection Portugal-Spain is necessary to improve the N-1 criterion fulfilment (Regulation (EC) Nº 994/2010) for the Portuguese natural gas system, considering the total failure of the most important supply infrastructure of the network - the LNG Terminal in Sines - during a day of exceptionally high gas demand occurring with a statistical probability of once in 20 years, as defined in the Regulation.

Expected Gas Sourcing

Algeria, LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	Integration of the Iberian Peninsula gas market with the rest of Europe
Benefit Description	The development of this project is linked to the development of a new interconnection between France and Spain by Spanish infrastructure promoters.

Barriers

Barrier Type	Description
Regulatory	It would be difficult to carry out an Open Season due to the size of the Portuguese market and the lack of long-term contracts in Portugal. The lack of long term binding commitments from network users cannot guarantee the return of the investment to the Spanish system.
Others	It would be difficult to carry out an Open Season due to the size of the Portuguese market and the lack of long-term contracts in Portugal. The lack of long term binding commitments from network users cannot guarantee the return of the investment to the Spanish system.
Market	Lack of market support
Regulatory	Low rate of return

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	Commission, France, Portugal and Spain sign High Level Group agreement to break energy barriers	Yes	04/03/2015

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection ES-PT (3rd IP) - 2nd phase

TRA-N-729	Project	Pipeline including CS	Non-FID
Update Date	09/11/2018		Non-Advanced
Description	The second phase of the third interconnection between Spain and Portugal consists on a pipeline from Guitiriz-Zamora-Adradas		
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	Enagas Transporte S.A.U.	2028	PT	ES	72.0 GWh/d
	Comment: According to the best available data of the reassessment that is being developed by Enagás and REN Gasodutos the common capacity value is 139 ES-PT & 126 GWh PT-ES. Capacities on the Spanish side before applying the lesser rule: 142 ES-PT & 142 GWh PT-ES				
	Enagas Transporte S.A.U.	2028	ES	PT	72.0 GWh/d
	Comment: According to the best available data of the reassessment that is being developed by Enagás and REN Gasodutos the common capacity value is 139 ES-PT & 126 GWh PT-ES. Capacities on the Spanish side before applying the lesser rule: 142 ES-PT & 142 GWh PT-ES				

Sponsors

Castropodame - Zamora	
Enagás Transporte, S.A.U.	100%
Guitiriz - Lugo	
Enagás Transporte, S.A.U.	100%
Lugo - Villafranca del Bierzo	
Enagás Transporte, S.A.U.	100%
Villafranca del Bierzo - Castropodame	
Enagás Transporte, S.A.U.	100%
Zamora - La Barbolla - Adradas	
Enagás Transporte, S.A.U.	100%

General Information

Promoter	*Enagás Transporte, S.A.U.*
Operator	*Enagas Transporte S.A.U.*
Host Country	*Spain*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Guitiriz-Lugo-Zamora-Adradas pipeline)*
NDP Number	*No code in the NDP*
NDP Release Date	*01/05/2018*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.4.2.)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2028*	*2028*
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
Castropodame - Zamora		600	170		2028
Guitiriz - Lugo		740	28		2028
Lugo - Villafranca del Bierzo		740	90		2028
Villafranca del Bierzo - Castropodame		740	30		2028
Zamora - La Barbolla - Adradas		800	307		2028
	Total		**625**		

Fulfilled Criteria

Specific Criteria Fulfilled	Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	This project has been included in the PCI list in 2013, 2015 and 2017.

Expected Gas Sourcing

Algeria, LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	Integration of the Iberian Peninsula gas market with the rest of Europe
Benefit Description	The development of this project is linked to the development of a new interconnection between France and Spain by Spanish infrastructure promoters.

Barriers

Barrier Type	Description
Regulatory	It would be difficult to carry out an Open Season due to the size of the Portuguese market and the lack of long-term contracts in Portugal. The lack of long term binding commitments from network users cannot guarantee the return of the investment to the Spanish system.
Market	It would be difficult to carry out an Open Season due to the size of the Portuguese market and the lack of long-term contracts in Portugal. The lack of long term binding commitments from network users cannot guarantee the return of the investment to the Spanish system.
Regulatory	Low rate of return

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	Commission, France, Portugal and Spain sign High Level Group agreement to break energy barriers	Yes	04/03/2015

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

3rd IP between Portugal and Spain (Compressor Station)

TRA-N-284	Project	Pipeline including CS	Non-FID
Update Date	09/11/2018		Non-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 contain a compressor station in the already existing pipeline Cantanhede-Mangualde. This project enables the project TRA-N-285 3rd IP between Portugal and Spain Spain (pipeline Cantanhede-Mangualde).		
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.	2028	PT	ES	**27.0 GWh/d**
	Comment: Second Step. of the 3RD Interconnection Point (IP) between Portugal and SP.				
	REN - Gasodutos, S.A.	2028	ES	PT	**22.0 GWh/d**
	Comment: Second Step. of the 3RD Interconnection Point (IP) between Portugal and SP.				

Sponsors

REN Gasodutos	100%

General Information

Promoter	*REN-Gasodutos, S.A.*
Operator	*REN - Gasodutos, S.A.*
Host Country	*Portugal*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (PDIRGN 2017)*
NDP Number	-
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (5.4.2.)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2028*	*2028*
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%*

Enabled Projects

Project Code	Project Name
TRA-N-285	3rd IP between Portugal and Spain (pipeline Cantanhede-Mangualde)

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Cantanhede Compressor Station	Second Step of the 3RD Interconnection Point (IP) between Portugal and Spain.			12	0
Total				**12**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project increases the security of supply in the Portuguese gas system and guarantees the fulfilment of the N-1 criterion of the Regulation Nº 994/2010. It facilitates the integration of the Portuguese market at Iberian and European level, improving competition and providing shippers with access to alternative balancing gas enhancing transmission fluidity. It also contributes to the European gas sources diversification, as pointed out in the EC COM (2904)330 European Energy Security Strategy. At the moment, Portuguese NG system has lower diversification indexes measured both on capacity and on supply sources, than most of the European countries. The assessment carried out by the Commission on the selection process for the second List of PCI, identified a high and balanced contribution of the project, between the criterions' of the Regulation nº 347/2013: market integration, security of supply and competition.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	4 years
Delay Explanation	This phase of the project is dependent on the 1st phase of the 3rd IP PT-ES (pipeline Celorico-Spanish border).

Expected Gas Sourcing

Norway, Russia, LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	Despite the mentioned start up dates of both the third and the fourth phases of the 3rd interconnection between Portugal and Spain, it should be noticed their planning shall be adjusted according to the real evolution of gas demand and market development in the Iberian Peninsula.
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.
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 2015 in what concerns this specific project, meaning that its potential users are not willing to make any prior commitments in terms of capacity booking.
Market	Lack of market support

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Madrid Declaration	European Comission, Portugal, France and Spain	Yes	04/03/2015
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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

3rd IP between Portugal and Spain (pipeline Cantanhede-Mangualde)

TRA-N-285	Project	Pipeline including CS	Non-FID
Update Date	09/11/2018		Non-Advanced
Description	TThe 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 corresponds to a second pipeline parallel to the already existing pipeline between Cantanhede and Mangualde.		
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.	2028	PT	ES	**29.0 GWh/d**
	Comment: Second Step of the 3RD Interconnection Point between Portugal and Spain.				
	REN - Gasodutos, S.A.	2028	ES	PT	**32.0 GWh/d**
	Comment: Second Step of the 3RD Interconnection Point between Portugal and Spain.				

Sponsors

REN Gasodutos	100%

General Information

Promoter	*REN-Gasodutos, S.A.*
Operator	*REN - Gasodutos, S.A.*
Host Country	*Portugal*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (PDIRGN 2017)*
NDP Number	-
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (5.4.2.)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2028*	*2028*
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
Pipeline Cantanhede-Mangualde	Second Step of the 3RD Interconnection Point between Portugal and Spain.	500	67		0
Total			**67**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project increases the security of supply in the Portuguese gas system and guarantees the fulfilment of the N-1 criterion of the Regulation Nº 994/2010. It facilitates the integration of the Portuguese market at Iberian and European level, improving competition and providing shippers with access to alternative balancing gas enhancing transmission fluidity. It also contributes to the European gas sources diversification, as pointed out in the EC COM (2904)330 European Energy Security Strategy. At the moment, Portuguese NG system has lower diversification indexes measured both on capacity and on supply sources, than most of the European countries. The assessment carried out by the Commission on the selection process for the second List of PCI, identified a high and balanced contribution of the project, between the criterions' of the Regulation nº 347/2013: market integration, security of supply and competition.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	2 years
Delay Explanation	This phase of the project is dependent on the 1st phase of the 3rd IP PT-ES (pipeline Celorico-Spanish border).

Expected Gas Sourcing

Norway, Russia, LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	Despite the mentioned start up dates of both the third and the fourth phases of the 3rd interconnection between Portugal and Spain, it should be noticed their planning shall be adjusted according to the real evolution of gas demand and market development in the Iberian Peninsula.
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.
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 2015 in what concerns this specific project, meaning that its potential users are not willing to make any prior commitments in terms of capacity booking.

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Madrid Declaration	European Comission, Portugal, France and Spain	Yes	04/03/2015
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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

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

TRA-N-283	Project	Pipeline including CS	Non-FID
Update Date	09/11/2018		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. This project enables the projects TRA-N- 284 3rd IP between Portugal and Spain (Compressor Station), TRA-N-285 3rd IP between Portugal and Spain (pipeline Cantanhede-Mangualde) and TRA-N-320 Carregado Compressor Station.		
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.	2024	PT	ES	**70.0 GWh/d**
	Comment: First Step of the 3RD Interconnection Point (IP) PORTUGAL-SPAIN.				
	REN - Gasodutos, S.A.	2024	ES	PT	**85.0 GWh/d**
	Comment: First Step of the 3RD Interconnection Point (IP) PORTUGAL-SPAIN.				

Sponsors

REN Gasodutos	100%

General Information

Promoter	*REN-Gasodutos, S.A.*
Operator	*REN - Gasodutos, S.A.*
Host Country	*Portugal*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (PDIRGN 2017)*
NDP Number	-
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (5.4.1)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		12/2014
Feasibility	01/2015	03/2015
FEED	07/2015	
Permitting		
Supply Contracts		
FID		
Construction		12/2022
Commissioning	2024	2024
Grant Obtention Date	14/07/2015	14/07/2015

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%

Enabled Projects

Project Code	Project Name
TRA-N-284	3rd IP between Portugal and Spain (Compressor Station)
TRA-N-285	3rd IP between Portugal and Spain (pipeline Cantanhede-Mangualde)
TRA-N-320	Carregado Compressor Station

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		0
Total			**162**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project increases the security of supply in the Portuguese gas system and guarantees the fulfilment of the N-1 criterion of the Regulation Nº 994/2010. It facilitates the integration of the Portuguese market at Iberian and European level, improving competition and providing shippers with access to alternative balancing gas enhancing transmission fluidity. It also contributes to the European gas sources diversification, as pointed out in the EC COM (2904)330 European Energy Security Strategy. At the moment, Portuguese NG system has lower diversification indexes measured both on capacity and on supply sources, than most of the European countries. The assessment carried out by the Commission on the selection process for the second List of PCI, identified a high and balanced contribution of the project, between the criterions' of the Regulation nº 347/2013: market integration, security of supply and competition.

Delays since last TYNDP

Grant Obtention Date	14/07/2015
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	Despite the mentioned start up dates of both the third and the fourth phases of the 3rd interconnection between Portugal and Spain, it should be noticed their planning shall be adjusted according to the real evolution of gas demand and market development in the Iberian Peninsula.
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 make an adjustment to the initial route, maintaining the same point of interconnection with Spain.
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 2015 in what concerns this specific project, meaning that its potential users are not willing to make any prior commitments in terms of capacity booking.

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

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

South Transit East Pyrenees (STEP) - ENAGAS

TRA-N-161	Project	Pipeline including CS	Non-FID
Update Date	09/11/2018		Advanced
Description	This project consists of (Spain, Enagas zone) - A pipeline from Hostalrich to Figueras - A pipeline from Figueras to French Border - A compressor station in Martorell		
PRJ Code - PRJ Name	PRJ-G-039 - STEP (South Transit East Pyrenees)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP PIRINEOS	Enagas Transporte S.A.U.	2022	IB-FR4	ES	**110.0 GWh/d**
	Comment: These are the capacities obtained from the subsequent probabilistic study developed by Enagás. For further explanations, see the comment on the project for the current publication.				
	Enagas Transporte S.A.U.	2022	ES	IB-FR4	**120.0 GWh/d**
	Comment: These are the capacities obtained from the subsequent probabilistic study developed by Enagás. For further explanations, see the comment on the project for the current publication.				

Sponsors

CS Martorell	
Enagas Transporte, S.A.U.	100%
Figueras - French Border	
Enagas Transporte, S.A.U.	100%
Hostalrich - Figueras	
Enagas Transporte, S.A.U.	100%

General Information

Promoter	*Enagás Transporte, S.A.U.*
Operator	*Enagas Transporte S.A.U.*
Host Country	*Spain*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Conexión internacional con Francia por Cataluña)*
NDP Number	*No code in the NDP*
NDP Release Date	*01/05/2008*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.5.1)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		01/2009
Feasibility	01/2009	01/2009
FEED	01/2016	12/2016
Permitting	05/2019	11/2020
Supply Contracts		
FID		06/2019
Construction	04/2021	12/2022
Commissioning	2022	2022
Grant Obtention Date	25/01/2018	25/01/2018

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
CS Martorell	Date of Comissioning: December 2022			36	0
Hostalrich - Figueras	Date of Comissioning: December 2022	900	79		0
Pipeline Figueras - French Border	Date of Comissioning: December 2022	900	28		0
Total			**107**	**36**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	In the context of the High Level Group for Interconnections in South-West Europe, the European Commission gave the mandate to Pöyry to produce a Project Specific CBA for STEP project. This CBA has been complemented with additional studies, carried out by Frontier, TIGF and Enagás. STEP provides benefits, among others, such as Security of Supply, increased liquidity and increased market competition.

Delays since last TYNDP

Grant Obtention Date	25/01/2018
Delay Since Last TYNDP	1 year
Delay Explanation	

Expected Gas Sourcing

Algeria, LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	This project was part of the "Iberian-French corridor-Eastern Axis-Midcat Project" which was included in the 2nd PCI list (adopted by the European Commission the 18th of November 2015), and was seleected as PCI in 2017 (adopted by the European Commission the 24th November 2017) . This project will clearly improve the integration of the Iberian Peninsula with the rest of EU reducing its isolation from the EU gas markets, and helping to the price convergence of Iberian and EU gas markets.
Benefit Description	According to the conclusions of the study developed by Ramboll, requested by the European Commission within the High Level Group on Interconnections for South-West Europe, MidCat is justified as it will integrate the Iberian gas market with the rest of the EU. In this study, it is also concluded that a stepwise implementation of the interconnector is possible, when accepting that mostly interrumptible capacity will be available after the first stage.

Barriers

Barrier Type	Description
Regulatory	In 2010, Enagás, TIGF and GRTgaz carried out an OS to ask for binding commitments for capacities provided by MidCat and/or Irún/Biriatou and GRTgaz North-South link. Concerning MidCat, none of the three proposed infrastructure scenarios received enough bids to be triggered. This OS is currently the latest call made to the market regarding MidCat.However, MidCat has demonstrated benefits in terms of market integration (price convergence), security of supply and diversification of supply.Taking into account that the OS2015 was carried out in a context of economic prosperity in comparison with the current situation jointly with the new endency in contracting capacity (from long term to short term) well as the decrease in gas consumption, it is not foreseen that network users would make enough long-term commitments in order to fully cover the investment. Besides, recent changes in the Spanish regulatory framework would not contribute to have an appropriate rate of return of the investments
Market	In the Open Season launched in 2010 between Spain and France MidCat didn't obtain enough market support .
Market	Lack of market support
Regulatory	Low rate of return

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Madrid Declaration	Commission, France, Portugal and Spain sign High Level Group agreement to break energy barriers	Yes	04/03/2015
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

CBCA	
Decision	*No, we have not submitted an investment request yet, but we do plan to submit it*
Submissin Date	*28/03/2018*
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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	*In January 2016, Enagás Transporte SAU received a CEF-E grant for MidCat project to carry out the engineering studies of Martorell compressor station and the engineering studies of the pipeline from Figueras to the French border. These infrastructures are now included within STEP project.* *In January 2018, Enagás Transporte SAU received a CEF-E grant for studiers for permit granting process of STEP.*
General Comments	*INEA webpage on CEF-E grants for MidCat https://ec.europa.eu/inea/en/connecting-europe-facility/cef-energy/projects-by-country/spain/5.5-0054-esfr-s-m-15* *List of actions selected for receiving financial assistance under the 2017 CEF Energy Call for Proposals (January 2018) https://ec.europa.eu/energy/sites/ener/files/documents/list_of_actions_selected_for_receiving_financial_assistance_under_the_2017_cef_energy_call_for_proposals.pdf*

South Transit East Pyrenees (STEP) - TEREGA

TRA-N-252	Project	Pipeline including CS	Non-FID
Update Date	15/11/2018		Advanced
Description	On the French side, it is composed by a 120 km long pipeline between the french-spanish border (near Le Perthus) and the compressor station of Barbaira, close to Carcassonne.		
PRJ Code - PRJ Name	PRJ-G-039 - STEP (South Transit East Pyrenees)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP PIRINEOS	TERÉGA	2022	IB-FR4	ES	**0.0 GWh/d**
	Comment: On the French side, the capacities are interruptible, until 230 GWh/d from South to North, and 180 GWh/d from North to South.				
	TERÉGA	2022	ES	IB-FR4	**0.0 GWh/d**
	Comment: On the French side, the capacities are interruptible, until 230 GWh/d from South to North, and 180 GWh/d from North to South.				

Sponsors

TEREGA	100%

General Information

Promoter	*TEREGA*
Operator	*TERÉGA*
Host Country	*France*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2017 TEREGA NDP)*
NDP Number	*No number*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (5.5.1)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	01/2016	01/2017
FEED	01/2016	06/2019
Permitting	02/2019	12/2020
Supply Contracts		
FID		04/2019
Construction	12/2020	10/2022
Commissioning	2022	2022
Grant Obtention Date	19/01/2016	19/01/2016

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
Pipeline Spanish Border-Barbaira	French side	900	120		0
Total			**120**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	In the context of the High Level Group for Interconnections in South-West Europe, the European Commission gave the mandate to Pöyry to produce a Project Specific CBA for STEP project. This CBA has been complemented with additional studies, carried out by Frontier, TIGF and Enagás. STEP provides benefits, among others, such as Security of Supply, increased liquidity and increased market competition.

Delays since last TYNDP

Grant Obtention Date	19/01/2016
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

Algeria, LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	The project aims at lifting the isolation of the iberian peninsula and create market integration. The project can also be seen as a security of supply tool at european level as it reduces the dependance to russian gas, and creat access to LNG terminals in Spain and Algerian gas. Local security of supply can also be considered.
Benefit Description	

Barriers

Barrier Type	Description
Political	French regulator questions the interest of the project and request a cost / benefit analysys before taking any decision
Market	Lack of market support

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	Energy Interconnections Links Summit	Yes	04/03/2015

CBCA

Decision	*No, we have not submitted an investment request yet, but we do plan to submit it*
Submissin Date	*09/04/2018*
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*
Grants for works	*Yes*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Eastring - Bulgaria

TRA-N-654	Project	Pipeline including CS	Non-FID
Update Date	14/09/2018		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 IP Veľké Kapušany / Veľké Zlievce in the territory of Slovakia with a new IP at an external border of the EU in the territory of Bulgaria (Black Sea coast or Turkey). 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	2023	BGn	BG/EAR	200.0 GWh/d
	Comment: ntry/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.				
	Bulgartransgaz EAD	2023	BG/EAR	BGn	200.0 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	2023	BG/EAR	RO/EAR	570.0 GWh/d
	Comment: Phase 1 New IP, New capacity increment from Q4 2028 to the level of 1140 GWh/d				
	Bulgartransgaz EAD	2023	RO/EAR	BG/EAR	570.0 GWh/d
	Comment: Phase I New IP, New capacity increment from Q4 2028 to the level of 1140 GWh/d				
	Bulgartransgaz EAD	2028	BG/EAR	RO/EAR	570.0 GWh/d
	Comment: Phase II				
	Bulgartransgaz EAD	2028	RO/EAR	BG/EAR	570.0 GWh/d
	Comment: Phase II				
Eastring Cross-Border BG/EAR>TR	Bulgartransgaz EAD	2023	BG/EAR	TRe	570.0 GWh/d
	Comment: Transmission between Eastring -Bulgaria and Turkey via new IP at BG/TR border. New capacity increment from Q4 2028 to the level of 1140 GWh/d				

Eastring Cross-Border BG/EAR>TR	Bulgartransgaz EAD	2028	BG/EAR	TRe	**570.0 GWh/d**
				Comment: Phase II	
Eastring Cross-Border TR>BG/EAR	Bulgartransgaz EAD	2023	TRi	BG/EAR	**570.0 GWh/d**
	Comment: Transmission between Eastring -Bulgaria and Turkey via new IP at BG/TR border. New capacity increment from Q4 2028 to the level of 1140 GWh/d				
	Bulgartransgaz EAD	2028	TRi	BG/EAR	**570.0 GWh/d**
				Comment: Phase II	

Sponsors	
Bulgartransgaz EAD	100%

General Information	
Promoter	*Bulgartransgaz EAD*
Operator	*Bulgartransgaz EAD*
Host Country	*Bulgaria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (2017-2026 Ten-year network development plan of BTG)*
NDP Number	*Section 5.1(5.1,2)*
NDP Release Date	*10/04/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.25.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		*08/2016*
Feasibility	*09/2017*	*06/2018*
FEED	*10/2018*	*02/2020*
Permitting	*03/2020*	*12/2020*
Supply Contracts		*01/2020*
FID		
Construction	*01/2021*	*09/2023*
Commissioning	*2023*	*2028*
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 570 GWh/d, in case of increase of capacity up to 1140 GWh/d in 2028, compressor power at level of 374 MW will be needed	1,400	257	88	0
Total			**257**	**88**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The Project is located in one of the least developed gas market regions. The Project meets criteria of one of the pillars of the Energy Union. Based on the latest stress tests it is one of the most vulnerable region regarding the SoS. The Project will enhance overall development of the region.

Delays since last TYNDP

Grant Obtention Date	12/05/2017
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 (), 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.
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

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Declaration	Governmental declaration	No	21/05/2015

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	*Eustream applied and was granted Financial support for feasibility study execution from CEF.*
General Comments	

Eastring - Hungary

TRA-N-656	Project	Pipeline including CS	Non-FID
Update Date	14/09/2018		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 (Csengersima) to HU/SK border (Zemplénagárd). At this moment the load factor is estimated at 0% by all Project Promoters because of the low project maturity. The Project Promoters are in the phase of the preparation of the feasibility study, results of which could be basis for further assessments.		
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.	2023	HU/EAR	SK/EAR *Comment: I.phase*	**570.0 GWh/d**
	FGSZ Ltd.	2023	SK/EAR	HU/EAR *Comment: I.phase*	**570.0 GWh/d**
	FGSZ Ltd.	2028	HU/EAR	SK/EAR *Comment: II.phase; total incremental capacity I.+II.phase is at the level of 1140 Gwh/d*	**570.0 GWh/d**
	FGSZ Ltd.	2028	SK/EAR	HU/EAR *Comment: II.phase; total incremental capacity I.+II.phase is at the level of 1140 Gwh/d*	**570.0 GWh/d**
Eastring Cross-Border RO/EAR <> HU/EAR	FGSZ Ltd.	2023	HU/EAR	RO/EAR *Comment: I.phase*	**570.0 GWh/d**

	FGSZ Ltd.	2023	RO/EAR	HU/EAR *Comment: I.phase*	**570.0 GWh/d**
Eastring Cross-Border RO/EAR <> HU/EAR	FGSZ Ltd.	2028	HU/EAR	RO/EAR *Comment: II.phase; total incremental capacity I.+II.phase is at the level of 1140 Gwh/d*	**570.0 GWh/d**
	FGSZ Ltd.	2028	RO/EAR	HU/EAR *Comment: II.phase; total incremental capacity I.+II.phase is at the level of 1140 Gwh/d*	**570.0 GWh/d**
Eastring HU Domestic Point	FGSZ Ltd.	2023	HU/EAR	HU	**570.0 GWh/d**

Sponsors	
FGSZ Ltd.	100%

General Information	
Promoter	*FGSZ Ltd.*
Operator	*FGSZ Ltd.*
Host Country	*Hungary*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (National Development Plan 2017)*
NDP Number	*12.13.*
NDP Release Date	*28/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.25.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		08/2016
Feasibility	09/2017	06/2018
FEED	10/2018	02/2020
Permitting	03/2020	12/2020
Supply Contracts		01/2020
FID		
Construction	01/2021	09/2023
Commissioning	2023	2028
Grant Obtention Date	12/05/2017	12/05/2017

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
Eastring-HU-1/2	Data refers to the first stage - capacity 570 GWh/d for new route via SK,HU,RO,BG, in case of increase	1,400	112	0	2023
Total			**112**	**0**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The Project is located in one of the least developed gas market regions. The Project meets criteria of one of the pillars of the Energy Union. Based on the latest stress tests it is one of the most vulnerable region regarding the SoS. The Project will enhance overall development of the region.

Delays since last TYNDP

Grant Obtention Date	12/05/2017
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; - 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 - TANAP, Caspian, Iran, Iraq, Egypt, Israel, Cyprus. Most of them from perspective Turkish natural gas hub/border Turkey/BG;

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	Goverment declaration	No	21/05/2015

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	*Eustream received 1,000,000 EUR financial support for feasibility study for execution the whole SK-HU-RO-BG route from CEF.*
General Comments	

Eastring - Romania

TRA-N-655	Project	Pipeline including CS	Non-FID
Update Date	23/03/2018		Non-Advanced
Description	Eastring-RO, located in Romania is an essential part of the Eastring project, which connects IP Veľké Kapušany / Veľké Zlievce at the SK-UA border, with IP at the BG/TR border. Eastring is a natural gas pipeline project. It will not own or sell any natural gas and once available, all its capacity will be offered to any shipper on non-discriminatory basis respecting all EU rules and laws (Directives and Regulations). Eastring will connect the existing gas infrastructure between Slovakia, Hungary, Romania and Bulgaria in a bidirectional conjunction bringing a new transit potential and improving gas market situation in each of the respective countries. Maximum daily bi-directional capacity will be of 20 bcm/year (Stage I) and 40 bcm/year (Stage II). The project would secure supplies in case of RU disruption and therefore it will increase gas SoS in the broader Central-South-East EU region, as well as will allow access to alternative gas sources for Central, Western & Southern Europe		
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.	2023	BG/EAR	RO/EAR	**570.0 GWh/d**
	SNTGN Transgaz S.A.	2023	RO/EAR	BG/EAR	**570.0 GWh/d**
	SNTGN Transgaz S.A.	2028	BG/EAR	RO/EAR	**570.0 GWh/d**
	SNTGN Transgaz S.A.	2028	RO/EAR	BG/EAR	**570.0 GWh/d**
Eastring Cross-Border RO/EAR <> HU/EAR	SNTGN Transgaz S.A.	2023	HU/EAR	RO/EAR	**570.0 GWh/d**
	SNTGN Transgaz S.A.	2023	RO/EAR	HU/EAR	**570.0 GWh/d**
	SNTGN Transgaz S.A.	2028	HU/EAR	RO/EAR	**570.0 GWh/d**
	SNTGN Transgaz S.A.	2028	RO/EAR	HU/EAR	**570.0 GWh/d**
Eastring RO Domestic Point	SNTGN Transgaz S.A.	2023	RO	RO/EAR	**150.0 GWh/d**
	SNTGN Transgaz S.A.	2023	RO/EAR	RO	**150.0 GWh/d**

Sponsors	
Transgaz S.A.	100%

General Information	
Promoter	*SNTGN Transgaz SA*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
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)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (6.25.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		*08/2016*
Feasibility	*09/2017*	*06/2019*
FEED	*10/2018*	*02/2019*
Permitting	*03/2020*	*12/2020*
Supply Contracts		*01/2020*
FID		
Construction	*01/2021*	*09/2023*
Commissioning	*2023*	*2028*
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
Eastring-RO-2		1,400	651		2023
	Total		**651**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market Integration, SoS, Sustainability, Competition

Delays since last TYNDP

Grant Obtention Date	
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.
Benefit Description	Physical alternative for providing 100% of all Balkan countries' consumption; - 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.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Eastring - Slovakia

TRA-N-628	Project	Pipeline including CS	Non-FID
Update Date	14/09/2018		Advanced
Description	Eastring-SK is subproject located in Slovakia and is essential part of the Eastring project - a brand new pipeline project, which connects IP Veľké Kapušany / Veľké Zlievce in the territory of Slovakia with a new IP at an external border of the EU in the territory of Bulgaria (Black Sea coast or Turkey). 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.	2023	HU/EAR	SK/EAR	570.0 GWh/d
				Comment: I.phase	
	Eastring B.V.	2023	SK/EAR	HU/EAR	570.0 GWh/d
				Comment: I.phase	
	Eastring B.V.	2028	HU/EAR	SK/EAR	570.0 GWh/d
	Comment: II.phase; total incremental capacity I.+II.phase is at the level of 1140 Gwh/d				
	Eastring B.V.	2028	SK/EAR	HU/EAR	570.0 GWh/d
	Comment: II.phase; total incremental capacity I.+II.phase is at the level of 1140 Gwh/d				
Eastring SK/EAR <-> Veľké Kapušany	Eastring B.V.	2023	SK	SK/EAR	570.0 GWh/d
	Comment: I.phase; Connection of Eastring - SK to existing SK transmission system at Veľké Kapušany IP (VK)				
	Eastring B.V.	2023	SK/EAR	SK	570.0 GWh/d
	Comment: I.phase; Connection of Eastring - SK to existing SK transmission system at Veľké Kapušany IP (VK)				
	Eastring B.V.	2028	SK	SK/EAR	570.0 GWh/d
	Comment: II.phase; total incremental capacity I.+II.phase is at the level of 1140 Gwh/d				
	Eastring B.V.	2028	SK/EAR	SK	570.0 GWh/d

Eastring SK/EAR <-> Veľké Kapušany

Comment: II.phase, Connection of Eastring - SK to existing SK transmission system at Veľké Kapušany IP (VK), New capacity increment I.+II phase (from 4Q 2028) to the level of 1140 GWh/d.

Sponsors	
Eastring B.V.	100%

General Information	
Promoter	*eustream, a.s. (a joint stock company)*
Operator	*eustream, a.s.*
Host Country	*Slovakia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (National Development Plan 2018-2027)*
NDP Number	*4.1.1.3. Eastring*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.25.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		*08/2016*
Feasibility	*09/2017*	*06/2018*
FEED	*10/2018*	*02/2020*
Permitting	*03/2020*	*12/2020*
Supply Contracts		*01/2020*
FID		
Construction	*01/2021*	*09/2023*
Commissioning	*2023*	*2028*
Grant Obtention Date	*12/05/2017*	*12/05/2017*

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
Eastring - SK-2	Data refers to the first stage - capacity 570 GWh/d for new route via SK,HU,RO,BG, in case of increase of capacity up to 1140 GWh/d in 2028, increase of compressor power to the level of 93 MW will be needed	1,400	19	52	2023
Total			**19**	**52**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The Project is located in one of the least developed gas market regions. The Project meets criteria of one of the pillars of the Energy Union. Based on the latest stress tests it is one of the most vulnerable region regarding the SoS. The Project will enhance overall development of the region.

Delays since last TYNDP

Grant Obtention Date	12/05/2017
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, Norway, Russia, LNG (QA,TR,US), 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	13/07/2016
Memorandum of Understanding	Memorandum of Understanding	Yes	30/10/2017
Declaration	Governmental declaration	Yes	21/05/2015

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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 1*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*Yes*
Comments	*Financial support for feasibility study execution from CEF*
General Comments	

Iberian-French corridor: Eastern Axis - Midcat Project

TRA-N-727	Project	Pipeline including CS	Non-FID
Update Date	09/11/2018		Advanced
Description	MidCat consist of (Spain, Enagas zone), in addition to the infrastructures included in STEP project (pipeline Hostalrich-Figueras-French border and the CS in Martorell): - A pipeline (loop) from Castelnou to Villar de Arnedo - A pipeline (loop) form Tivissa to Arbós - New filter in CS Tivissa - A increment in CS Arbós - An increment in CS Zaragoza		
PRJ Code - PRJ Name	PRJ-G-044 - MidCat (Iberian-French corridor, Eastern Axis – MidCat project)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP PIRINEOS	Enagas Transporte S.A.U.	2024	IB-FR4	ES	**135.0 GWh/d**
	Comment: In 2015 Enagás,TIGF&GRTgaz developed a study to analyse the capacity created by a new IP between FR & ES. Common capacity value would be 230 ES-FR & 160 GWh FR-ES. Capacities on the Spanish side before applying the lesser rule: 230 ES-FR and 245 GWh FR-ES				
	Enagas Transporte S.A.U.	2024	ES	IB-FR4	**110.0 GWh/d**
	Comment: In 2015 Enagás,TIGF&GRTgaz developed a study to analyse the capacity created by a new IP between FR & ES. Common capacity value would be 230 ES-FR & 160 GWh FR-ES. Capacities on the Spanish side before applying the lesser rule: 230 ES-FR and 245 GWh FR-ES				

Sponsors	
CS Martorell	
Enagas Transporte, S.A.U.	100%
Figueras - French Border	
Enagás Transporte, S.A.U.	100%
Hostalrich - Figueras	
Enagás Transporte, S.A.U.	100%
Loop Castelnou – Villar de Arnedo + CS Zaragoza (increment)	
Enagás Transporte, S.A.U.	100%
Loop Tivissa – Arbós + CS Tivissa filters + CS Arbós (increment)	
Enagás Transporte, S.A.U.	100%

General Information	
Promoter	*Enagás Transporte, S.A.U.*
Operator	*Enagas Transporte S.A.U.*
Host Country	*Spain*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Conexión internacional con Francia por Cataluña)*
NDP Number	*No code in the NDP*
NDP Release Date	*01/05/2008*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.5.2)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*01/2008*	*01/2010*
FEED	*01/2020*	*05/2021*
Permitting	*09/2020*	*12/2022*
Supply Contracts		
FID		*05/2021*
Construction	*01/2023*	*12/2024*
Commissioning	*2024*	*2024*
Grant Obtention Date	*19/01/2016*	*19/01/2016*

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
CS Martorell				36	2024
Hostalrich - Figueras		900	79		2024
Loop Castelnou – Villar de Arnedo + CS Zaragoza (increment)		640	214	5	2024
Loop Tivissa – Arbós + CS Tivissa filters + CS Arbós (increment)		740	114	21	2024
Pipeline Figueras - French Border		900	28		2024
Total			**435**	**62**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	ENTSOG PS-CBA runr for TYNDP 2017 demonstrates visible benefits for MidCat. - For ES and PT, it reduces the dependency on LNG and increases the number of significant supply sources that ES and PT has access to. - For other european countries, it could provide significant access to gas from Algeria, and could increase their ability to benefit from low LNG prices. These benefits are additional to the ones provided by STEP (based on the PS-CBA developed by Poyry, validated within the High Level Group for Interconnections in South West Europe).

Delays since last TYNDP

Grant Obtention Date	19/01/2016
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

Algeria, LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	The "Iberian-French corridor - Eastern Axis - Midcat" was included in the list of Projects of Common Interest (PCI) adopted by the European Commission the 18th of November 2015. This project will clearly improve the integration of the Iberian Peninsula with the rest of Europe reducing its isolation from the European gas markets, and helping to the price convergence of Iberian and European gas markets. Due to the lack of enough interconnection capacity, there is a price differential between Spain and France. This price differential has been steadily maintained since recent years, preventing the Spanish consumers, both domestic and industrial, to access to energy under the same conditions as their European counterparts, causing a loss of competitiveness for the Spanish economy.
Benefit Description	

Barriers

Barrier Type	Description
Regulatory	In 2010, Enagás, TIGF and GRTgaz carried out an OS to ask for binding commitments for capacities provided by MidCat and/or Irún/Biriatou and GRTgaz North-South link. Concerning MidCat, none of the three proposed infrastructure scenarios received enough bids to be triggered. This OS is currently the latest call made to the market regarding MidCat.However, MidCat has demonstrated benefits in terms of market integration (price convergence), security of supply and diversification of supply.Taking into account that the OS2015 was carried out in a context of economic prosperity in comparison with the current situation jointly with the new tendency in contracting capacity (from long term to short term) well as the decrease in gas consumption, it is not foreseen that network users would make enough long-term commitments in order to fully cover the investment. Besides, recent changes in the Spanish regulatory framework would not contribute to have an appropriate rate of return of the investment
Market	In the Open Season launched in 2010 between Spain and France MidCat didn't obtain enough market support .
Market	Lack of market support
Regulatory	Low rate of return

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Madrid Declaration	Commission, France, Portugal and Spain sign High Level Group agreement to break energy barriers	Yes	04/03/2015
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

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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	*In January 2016, Enagás Transporte SAU received a CEF-E grant for MidCat project to carry out the engineering studies of Martorell compressor station and the engineering studies of the pipeline from Figueras to the French border. These infrastructures are now included within STEP project.* *In January 2018, Enagás Transporte SAU received a CEF-E grant for studiers for permit granting process of STEP.* *INEA webpage on CEF-E grants for MidCat* *https://ec.europa.eu/inea/en/connecting-europe-facility/cef-energy/projects-by-country/spain/5.5-0054-esfr-s-m-15* *List of actions selected for receiving financial assistance under the 2017 CEF Energy Call for Proposals (January 2018)* *https://ec.europa.eu/energy/sites/ener/files/documents/list_of_actions_selected_for_receiving_financial_assistance_under_the_2017_cef_energy_call_for_proposals.pdf*

Iberian-French corridor: Eastern Axis-Midcat Project

TRA-N-256	Project	Pipeline including CS	Non-FID Advanced
Update Date	09/11/2018		
Description	GRTgaz and TIGF contribution to increase the firm capacity at the VIP Pireneos through the creation of an Eastern axis. The project covers both: - the specific TIGF investment related to the creation of a new physical interconnection - new infrastructure in the core of GRTgaz network necessary to offer capacity on a firm basis It contributes to the Priority corridor "North-South gas interconnections in Western Europe"		
PRJ Code - PRJ Name	PRJ-G-044 - MidCat (Iberian-French corridor, Eastern Axis – MidCat project)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
VIP PIRINEOS	TERÉGA	2024	IB-FR4	ES	**160.0 GWh/d**
	Comment: Commissioning year based on a FID in 2016 and standard feasability study lead time for the "Artère du Midi" looping				
	TERÉGA	2024	ES	IB-FR4	**230.0 GWh/d**
	Comment: Commissioning year based on a FID in 2016 and standard feasability study lead time for the "Artère du Midi" looping				

Sponsors

GRTgaz section - Specific developments

GRTgaz	85%

TIGF section - Specific developments

TIGF	15%

General Information

Promoter	*GRTgaz and TIGF*
Operator	*GRTgaz*
Host Country	*France*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (GRTgaz and TIGF development plans 2017)*
NDP Number	*Augmentation des capacités d'interconnexion entre la France et l'Espagne*
NDP Release Date	*27/11/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.5.2)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		06/2012
Feasibility	03/2007	12/2019
FEED	09/2012	12/2021
Permitting	09/2012	12/2021
Supply Contracts		
FID		
Construction	03/2022	11/2024
Commissioning	2024	2024
Grant Obtention Date	19/01/2016	19/01/2016

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%

Enabled Projects

Project Code	Project Name
TRA-N-269	Developments for Fosmax (Cavaou) LNG 8.25 bcm expansion

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Arc Lyonnais (GRTgaz section)		1,200	150		0
Barbaira - Border (TIGF section)		900	120		0
Barbaira CS (TIGF section)				7	0
Eridan (GRTgaz section)		1,200	220		0
Midi pipeline (GRTgaz section)		1,050	200		0
Midi pipeline (TIGF section)		1,050	40		0
Palleau CS (GRTgaz section)	New station			50	0
Perche (GRTgaz section)		900	63		0
St-Avit CS (GRTgaz section)				15	0
St-Martin de Crau CS	New station			30	0
	Total		**793**	**102**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compared to the situation prior to the commissioning of the project According the PS-CBA from TYNDP2017, the project improves supply diversification and mitigate LNG dependency for the Iberian Peninsula.

Delays since last TYNDP

Grant Obtention Date	19/01/2016
Delay Since Last TYNDP	2 years
Delay Explanation	

Expected Gas Sourcing

Algeria, Norway, Russia, LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	The Iberian-French Corridor aims to further interconnect the Iberian peninsula with the rest of Europe.
Benefit Description	Results of previous CBA (TYNDP 2017) will have to be updated on the basis of TYNDP 2018 new set of assumptions. according to the results of the PS-CBA of TYNDP 2017, MidCat has the following benefits: - For Spain and Portugal, it could reduce the dependency to LNG and could increase the number of significant supply sources that both countries have access to. - For other European countries, it could provide significant access to gas from Algeria, and could increase their ability to benefit from low LNG prices.

Barriers

Barrier Type	Description
Market	Lack of market support

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Madrid Declaration	Energy interconnection links summit	Yes	04/03/2015
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

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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Development of Transmission Capacity at Slovak-Hungarian interconnector

TRA-N-636	Project	Pipeline including CS	Non-FID
Update Date	21/11/2018		Non-Advanced
Description	Reducing the flow direction switch operation time. Developing the transmission capacity in HU>SK and SK>HU direction from interruptible capacity to non-interruptible (firm) capacity.		
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	HUi	SK	102.0 GWh/d
	MGT Hungarian Gas Transit Ltd.	2022	SK	HUi	26.0 GWh/d

Sponsors

Magyar Gáz Tranzit ZRt.	100%

General Information

Promoter	*Magyar Gáz Tranzit Zrt.*
Operator	*MGT Hungarian Gas Transit Ltd.*
Host Country	*Hungary*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (National Development Plan - MGT 10 Year Development Plan)*
NDP Number	*TRA-N-636*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (6.2.13)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction	03/2020	03/2022
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%

Enabled Projects

Project Code	Project Name
TRA-N-524	Enhancement of Transmission Capacity of Slovak-Hungarian interconnector

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Hungarian section		800	92		0
Slovak section		800	18		0
	Total		**110**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
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 (), Romania - Pipeline

Benefits

Main Driver	Market Demand
Main Driver Explanation	The transmission capacity in HU>SK direction is changed from interruptible capacity to non-interruptible (firm) capacity.
Benefit Description	Reducing the flow direction switch operation time.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Enhancement of Transmission Capacity of Slovak-Hungarian interconnector

TRA-N-524	Project	Pipeline including CS	Non-FID
Update Date	14/09/2018		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	HUi	SK	102.0 GWh/d
	MGT Hungarian Gas Transit Ltd.	2022	SK	HUi	26.0 GWh/d
Vecsés MGT / FGSZ	MGT Hungarian Gas Transit Ltd.	2022	HU	HUi	102.0 GWh/d
	MGT Hungarian Gas Transit Ltd.	2022	HUi	HU	26.0 GWh/d

Sponsors

Magyar Gáz Tranzit Zrt.	100%

General Information

Promoter	*Magyar Gáz Tranzit Zrt.*
Operator	*MGT Hungarian Gas Transit Ltd.*
Host Country	*Hungary*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (National Development Plan- MGT 10 Year Development Plan)*
NDP Number	*TRA-N-524 (new nr will be received once project is approved)*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (6.2.13)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction	*03/2020*	*03/2022*
Commissioning	*2022*	*2022*
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	*Regulated*
Considered Tariff Regime	*Regulated*
Applied for Exemption	*Yes*
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
Hungarian section		800	92		0
Slovak		800	18		0
	Total		**110**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Firm transmission capacity increase at the IP Veľké Zlievce

TRA-N-1235	Project	Pipeline including CS	Non-FID
Update Date	15/03/2018		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	HUi	SK	153.0 GWh/d
	eustream, a.s.	2022	SK	HUi	25.4 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	HUi	SK	153.0 GWh/d
	eustream, a.s.	2022	SK	HUi	25.4 GWh/d

Sponsors	
eustream,a.s.	100%

General Information	
Promoter	*eustream,a.s. (a joint-stock company)*
Operator	*eustream, a.s.*
Host Country	*Slovakia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (National Development Plan 2018 - 2027)*
NDP Number	*4.1.1.3 Firm transmission capacity increase at the IP Veľké Zlievce*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction	*10/2020*	*06/2022*
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%*

Fulfilled Criteria
Specific Criteria Fulfilled
Specific Criteria Fulfilled Comments

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 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 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**
Regulatory	Capacity quotas
Regulatory	Low rate of return

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Gascogne Midi

TRA-F-331	Project	Pipeline including CS	FID
Update Date	15/11/2018		Advanced
Description	TEREGA :60 kms pipeline with 5,5 M/h compression in Barbaira station. This pipeline should reduce bottlenecks between north and south french areas. GRTgaz : adaptation of stations in Cruzy and St Martin		
PRJ Code - PRJ Name	PRJ-G-046 - Creation of a single gas market area in France		

Sponsors	
Adaptation of stations in Cruz and St Martin	
GRTgaz	100%
Artere Gascogne Midi	
TEREGA	100%

General Information	
Promoter	*TEREGA - GRTgaz*
Operator	*TERÉGA*
Host Country	*France*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (2015 NDP of GRTgaz and TEREGA)*
NDP Number	*No number*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*03/2015*	*06/2016*
Permitting	*02/2016*	*07/2017*
Supply Contracts		
FID		*09/2014*
Construction	*06/2017*	*07/2018*
Commissioning	*2018*	*2018*
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
Pipeline Lussagnet - Barran + CS in Barbaira		900	60	6	0
Total			**60**	**6**	

Benefits

Main Driver	Others
Main Driver Explanation	Merging of french north and south areas
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Val de Saône project

TRA-F-43	Project	Pipeline including CS	FID
Update Date	30/05/2018		Advanced
Description	This reinforcement of the French Network consists in the looping of the Bourgogne pipeline (between Etrez and Voisines). In addition to the projetcs Arc de Dierrey in the North and Gascogne Midi in the South, this project is needed to merge GRTgaz's North and South market zones. It will contribute to the priority corridor "North South gas interconnections in Western Europe".		
PRJ Code - PRJ Name	PRJ-G-046 - Creation of a single gas market area in France		

Sponsors	
GRTgaz	100%

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

NDP and PCI Information	
Part of NDP	*Yes (Plan décennal de développement du réseau de GRTgaz 2017-2026)*
NDP Number	*Fusion des zones*
NDP Release Date	*29/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		*07/2012*
Feasibility	*09/2012*	*07/2013*
FEED	*07/2013*	*07/2014*
Permitting	*10/2014*	*06/2016*
Supply Contracts		*08/2016*
FID		*09/2015*
Construction	*06/2016*	*11/2018*
Commissioning	*2018*	*2018*
Grant Obtention Date	*01/09/2015*	*01/09/2015*

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%*

Enabled Projects

Project Code	Project Name
TRA-F-45	Reverse capacity from CH to FR at Oltingue
TRA-N-47	Reverse capacity from France to Germany at Obergailbach

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Bourgogne	Looping of Artère de Bourgogne pipeline	1,200	189		0
Etrez CS				9	0
Palleau CS	Adaptation of station functionalities			0	0
Voisines CS	Adaptation of station functionalities			0	0
Total			**189**	**9**	

Delays since last TYNDP

Grant Obtention Date	01/09/2015
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

Algeria, Caspian Region, Libya, Norway, Russia, LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	The purpose of the Val de Saône project (along with the Gascogne-Midi project) is to remove the constraints on North to South gas flows in France, thus enabling to increase the potential share of gas imported by pipelines from the North of Europe within the South-Western part of the European market. In terms of market design, the Val de Saône project allows the creation of a single market area in France. This will bring a final solution to higher prices of gas in South of France and Iberian Peninsula.
Benefit Description	By facilitating the flow of gas from North-West Europe to Spain, the project will give Iberian Peninsula access to gas priced more extensively according to north west Europe price references. By creating a single French market place, current spread between PEG Nord and PEG South will disappear, and the Iberian peninsula will also benefit from the direct proximity of this large and liquid market place.

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Cross border cost allocation	Decision from CRE and CNMC on the request for cross order cost allocation between France and Spain for the project of common interest Val de Saône	Yes	10/04/2014

CBCA

Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*31/10/2013*
Decision Date	*10/04/2014*
Website	*CBCA URL*
Countries Affected	*France, Spain*
Countries Net Cost Bearer	*France*
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	
Grants for works	*Yes*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*Yes*
Comments	*EEPR programm: Pipeline purchase covered by a EEPR grant for a maximum amount of 74 M€*
General Comments	

Romanian-Hungarian reverse flow Hungarian section 1st stage

TRA-F-286	Project	Pipeline including CS	FID
Update Date	29/03/2018		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	**48.9 GWh/d**

Sponsors	
FGSZ Ltd.	100%

General Information	
Promoter	*FGSZ Ltd.*
Operator	*FGSZ Ltd.*
Host Country	*Hungary*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Hungarian TYNDP 2016)*
NDP Number	*12.1.*
NDP Release Date	*21/12/2016*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.1.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		06/2014
Feasibility	09/2016	07/2017
FEED	07/2018	10/2018
Permitting	07/2018	09/2018
Supply Contracts		12/2018
FID		06/2017
Construction	10/2018	12/2019
Commissioning	2019	2019
Grant Obtention Date	14/10/2015	14/10/2015

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
Csanadpalota				9	0
	Total			**9**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The pipeline enables to increase capacity of Csanádpalota (RO>HU) and Csanádpalota (HU>RO).

Delays since last TYNDP

Grant Obtention Date	14/10/2015
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

Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	
Decision Date	*06/10/2015*
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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Romanian-Hungarian reverse flow Hungarian section 2nd stage

TRA-N-377	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		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	**76.5 GWh/d**
	FGSZ Ltd.	2022	RO	HU	**76.5 GWh/d**

Sponsors

FGSZ Ltd.	100%

General Information

Promoter	*FGSZ Ltd.*
Operator	*FGSZ Ltd.*
Host Country	*Hungary*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Hungarian TYNDP 2017)*
NDP Number	*12.1.*
NDP Release Date	*28/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.4.6)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		06/2014
Feasibility	09/2016	07/2017
FEED	01/2019	01/2020
Permitting	10/2019	04/2020
Supply Contracts		05/2020
FID		03/2019
Construction	05/2020	12/2022
Commissioning	2022	2022
Grant Obtention Date	08/11/2016	08/11/2016

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%

Enabled Projects

Project Code	Project Name
TRA-F-286	Romanian-Hungarian reverse flow Hungarian section 1st stage
TRA-N-123	Városföld CS

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, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The pipeline enables to increase capacity of Csanádpalota (RO>HU) and Csanádpalota (HU>RO).

Delays since last TYNDP

Grant Obtention Date	08/11/2016
Delay Since Last TYNDP	0
Delay Explanation	

Expected Gas Sourcing

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	
Decision Date	*06/10/2015*
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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
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	28/02/2018		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	2023	LNG_Tk_FRs	IB-FR4	327.0 GWh/d
			Comment: for a 8.5 bcm expansion		

Sponsors

GRTgaz	100%

General Information

Promoter	*GRTgaz*
Operator	*GRTgaz*
Host Country	*France*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Plan décennal de développement du réseau de transport de GRTgaz 2017-2026)*
NDP Number	*Extension du terminal de Fos Cavaou à 16,5 Gm^3/an*
NDP Release Date	*27/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		06/2012
Feasibility	03/2007	
FEED		
Permitting		
Supply Contracts		
FID		
Construction		11/2023
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%

Enabled Projects

Project Code	Project Name
TRA-N-256	Iberian-French corridor: Eastern Axis-Midcat Project

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

Grant Obtention Date	
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 capcity 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	
Grants for works	*No*
Grants for works amount	
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	28/02/2018		Non-Advanced
Description	The project aims to expand the 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	2021	LNG_Tk_FRs	IB-FR4	**110.0 GWh/d**
		Comment: intermediate phase at 11 bcm/y (i.e. +2,75 bcm/y)			
	Fosmax LNG	2023	LNG_Tk_FRs	IB-FR4	**330.0 GWh/d**
		Comment: corresponds to 16.5 bcm:y (i.e. + 8,25 bcm/y)			

Sponsors

Fosmax LNG	100%

General Information

Promoter	*Fosmax LNG*
Operator	*Fosmax LNG*
Host Country	*France*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (GRTgaz Ten Year Development plan 2015-2024)*
NDP Number	*Fos Cavaou Extension*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		*06/2019*
Supply Contracts		
FID		*06/2019*
Construction	*06/2019*	*06/2023*
Commissioning	*2021*	*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%*

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	*No*								

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	
Delay Explanation	market was not yet there

Expected Gas Sourcing

LNG (DZ,CA,CY,LNG,NO,QA,RU,US,WO,YE), 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 public money
Benefit Description	Forecasts indicate that LNG's role in Europe will increase in the coming years following the commissioning of new LNG production capacities (in USA and Australia, in particular). 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, thanks to its location and its marginal cost, is an high efficient alternative to a third gas pipeline through the Pyreneans (note: the existing gas pipelines have heavily been used to compensate for LNG re-exports from Spain). Fos Cavaou is the best entry gate for LNG from Mediterranean, Middle East and Atlantic toward the core of European mainland gas market. Expansion of the Fos Cavaou will strongly contribute to market integration, competition, SoS and sustainability in the NSW corridor.

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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*small scale studies or works*
General Comments	

Developments for Montoir LNG terminal 2.5 bcm expansion

TRA-N-258	Project	Pipeline including CS	Non-FID
Update Date	28/02/2018		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	**100.0 GWh/d**

Sponsors

GRTgaz	100%

General Information

Promoter	*GRTgaz*
Operator	*GRTgaz*
Host Country	*France*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Plan décennal de développement du réseau de transport de GRTgaz 2017-2026)*
NDP Number	*Augmentation des capacités d'entrée à partir du terminal de Montoir de 10 à 12,5 Gm^3/an*
NDP Release Date	*27/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		*12/2011*
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		*12/2023*
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)	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

Grant Obtention Date	
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	
Grants for works	*No*
Grants for works amount	
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	28/02/2018		Non-Advanced
Description	The project aims to expand the Montoir de Bretagne LNG terminal capacity by 2.5 bcm/y, from 10 bcm/y to 12.5 bcm/y, and possibly to increase the LNG storage capacity.		
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	2021	LNG_Tk_FRn	IB-FR3	100.0 GWh/d
		Comment: commissioning year for storage 2023			

Sponsors

Elengy	100%

General Information

Promoter	*Elengy*
Operator	*Elengy*
Host Country	*France*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (GRTgaz Ten Year Development plan 2015-2024)*
NDP Number	*Montoir Extension*
NDP Release Date	*27/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		*06/2019*
Construction	*06/2019*	*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%*

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	*No*								

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	
Delay Explanation	market was not yet there

Expected Gas Sourcing

LNG (DZ,CA,CY,LNG,NO,QA,RU,US,WO,YE), 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 public money.
Benefit Description	Forecasts indicate that LNG's role in Europe will increase in the coming years following the commissioning of new LNG production capacities (in USA and Australia, in particular). 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, thanks to its location and its marginal cost, is an high efficient alternative to a third gas pipeline through the Pyreneans (note: the existing gas pipelines have heavily been used to compensate for LNG re-exports from Spain). 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. Expansion of Montoir will strongly contribute to market integration, competition, SoS and sustainability in the NSW corridor.

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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*small scale studies or work*
General Comments	

Entry capacity expansion GATE terminal

TRA-N-192	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		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 Gate		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Gate Terminal (I)	Gasunie Transport Services B.V.	2020	LNG_Tk_NL	NL	230.0 GWh/d
				Comment: Planned	

Sponsors

Gas Transport Services	100%

General Information

Promoter	*Gasunie Transport Services B.V.*
Operator	*Gasunie Transport Services B.V.*
Host Country	*Netherlands*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Netwerk Ontwikkelingsplan 2017)*
NDP Number	*6.5.2*
NDP Release Date	
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	*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%*

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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Gate terminal phase 3

LNG-N-50	Project	LNG Terminal	Non-FID
Update Date	30/05/2018		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 Gate		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Gate Terminal (I)	Gate Terminal B.V.	2020	LNG_Tk_NL	NL	**121.0 GWh/d**
		Comment: additional 11 (in million Nm3 per day)			

Sponsors	
NV Nederlandse Gasunie	50%
Royal Vopak NV	50%
	0%
OMV	0%

General Information	
Promoter	*Gate*
Operator	*Gate Terminal B.V.*
Host Country	*Netherlands*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (GTS)*
NDP Number	*unknown see GTS*
NDP Release Date	*01/03/2018*
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	*2020*	*2020*
Grant Obtention Date	*31/12/2007*	*31/12/2007*

Third-Party Access Regime	
Considered TPA Regime	*Not Applicable*
Considered Tariff Regime	*Not Applicable*
Applied for Exemption	*Yes*
Exemption Granted	*Yes*
Exemption in entry direction	*0.00%*
Exemption in exit direction	*100.00%*

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 (%)
Gate terminal Rotterdam	*No*								

Delays since last TYNDP

Grant Obtention Date	31/12/2007
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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

LNG terminal in northern Greece / Alexandroupolis - LNG Section

LNG-N-62	Project	LNG Terminal	Non-FID
Update Date	22/05/2018		Advanced
Description	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. 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
Alexandropoulis LNG	Gastrade S.A.	2020	LNG_Tk_GR	GRa	253.1 GWh/d
	Comment: Increment available 100% at operation start-up.				
Alexandroupolis Amphitriti	Gastrade S.A.	2020	GRa	IB-GRk	253.1 GWh/d
	Comment: Increment not assessed by ENTSOG: Increment already submitted via the Pipeline project				

Sponsors

LNG-N-062	
GASTRADE S.A.	100%
TRA-N-063	
GASTRADE S.A.	100%

General Information

Promoter	*Gastrade S.A.*
Operator	*Gastrade S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (6.9.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		12/2010
Feasibility	01/2014	06/2014
FEED	03/2017	09/2017
Permitting	12/2010	01/2015
Supply Contracts		
FID		11/2018
Construction	12/2018	09/2020
Commissioning	2020	2020
Grant Obtention Date	16/04/2015	16/04/2015

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

Enabled Projects

Project Code	Project Name
TRA-N-63	LNG terminal in northern Greece / Alexandroupolis - Pipeline Section

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	22,680,000.00	170,000	The increments correspond to the maximum flowrates	2020	40

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market Integration - Regional (SEE + Serbia + FYROM) 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, FYROM, 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

Grant Obtention Date	16/04/2015
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 September 2017. Final negotiations with Bulgarian Energy Holding (BEH) and Public Gas Corporation (DEPA) for acquiring stakes in GASTRADE is estimated to be completed by end of April 2018. GASTRADE plans to initiate a Market Test in May 2018 and critical mass terminal use agreements are anticipated by October 2018. Completion of financing agreements and EPC contract awards (subject to FID) required for FID. FID is planned for November 2018. 24 months required from FID to commercial start-up.

Expected Gas Sourcing

LNG (WO), Multi-sourced supply including new sources (e.g. U.S., East Med, Mozambique)

Comments about the Third-Party Access Regime

To date the Project Promoter has not applied officialy for a TPA Exemption. The project promoter has commenced discussions with NRA regarding the procedure for granting TPA Exemption. GASTRADE plans to submit a TPA Exemption request to the NRA in order to release a Market Test in May 2018.

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, FYROM, 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, FYROM, 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 provision for LNG-reloading ability for the purpose of supporting LNG bunkering activities or regional distribution of LNG to remote island locations for power generation and other industrial and commercial activities.

Barriers	
Barrier Type	Description
Regulatory	Tariff levels for the Project should enjoy the same structural 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)
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 and Serbia. Political stability in the region of the Project's direct influence will support commercial viability of the Project.
Others	Delays in the implementation/start up of new regional gas infrastructures (IGB, IBS) 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 will potentially apply for grants for works in a future Call from CEF and the Greek structural programs (NSRF). Award of such Public financing 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.
Financing	The Project has been awarded with grants for studies (CEF 2014 Call). The Project will also 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. 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	
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	*CBCA is non applicable for the Project*

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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies only*
Other Financial Assistance	*No*
Comments	*GASTRADE applied for grants for studies from CEF2017 on 10.10.2017 for a "site specific metocean study". The requested amount was: 207,500 euro. Although the study was sound and complete, it was not selected for funding due to the proposal's mature character.*
General Comments	

LNG terminal in northern Greece / Alexandroupolis - Pipeline Section

TRA-N-63	Project	Pipeline including CS	Non-FID
Update Date	22/05/2018		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
Alexandropoulis LNG	Gastrade S.A.	2020	LNG_Tk_GR	GRa	253.1 GWh/d
	Comment: Increment not assessed by ENTSOG: Increment already submitted via the LNG project				
Alexandroupolis Amphitriti	Gastrade S.A.	2020	GRa	IB-GRk	253.1 GWh/d
	Comment: Increment available 100% at operation start-up.				

Sponsors

LNG-N-062	
GASTRADE S.A.	100%
TRA-N-063	
GASTRADE S.A.	100%

General Information

Promoter	*Gastrade S.A.*
Operator	*Gastrade S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (6.9.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		12/2010
Feasibility	01/2014	06/2014
FEED	03/2017	09/2017
Permitting	12/2010	01/2015
Supply Contracts		
FID		11/2018
Construction	12/2018	09/2020
Commissioning	2020	2020
Grant Obtention Date	16/04/2015	16/04/2015

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

Enabled Projects

Project Code	Project Name
LNG-N-62	LNG terminal in northern Greece / Alexandroupolis - LNG Section

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	2020
	Total		**28**	**0**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market Integration - Regional (SEE + Serbia + FYROM) 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, FYROM, 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

Grant Obtention Date	16/04/2015
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 September 2017. Final negotiations with Bulgarian Energy Holding (BEH) and Public Gas Corporation (DEPA) for acquiring stakes in GASTRADE is estimated to be completed by end of April 2018. GASTRADE plans to initiate a Market Test in May 2018 and critical mass terminal use agreements are anticipated by October 2018. Completion of financing agreements and EPC contract awards (subject to FID) required for FID. FID is planned for November 2018. 24 months required from FID to commercial start-up.

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

To date the Project Promoter has not applied officialy for a TPA Exemption. The project promoter has commenced discussions with NRA regarding the procedure for granting TPA Exemption. GASTRADE plans to submit a TPA Exemption request to the NRA in order to release a Market Test in May 2018.

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, FYROM, 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, FYROM, 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 provision for LNG-reloading ability for the purpose of supporting LNG bunkering activities or regional distribution of LNG to remote island locations for power generation and other industrial and commercial activities.

Barriers	
Barrier Type	Description
Regulatory	Tariff levels for the Project should enjoy the same structural 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)
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 and Serbia. Political stability in the region of the Project's direct influence will support commercial viability of the Project.
Others	Delays in the implementation/start up of new regional gas infrastructures (IGB, IBS) 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 will potentially apply for grants for works in a future Call from CEF and the Greek structural programs (NSRF). Award of such Public financing 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.
Financing	The Project has been awarded with grants for studies (CEF 2014 Call). The Project will also 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. 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	
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	*CBCA is non applicable for the Project*

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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies only*
Other Financial Assistance	*No*
Comments	*GASTRADE applied for grants for studies from CEF2017 on 10.10.2017 for a "site specific metocean study". The requested amount was: 207,500 euro. Although the study was sound and complete, it was not selected for funding due to the proposal's mature character.*
General Comments	

Cornegliano UGS

UGS-F-242	Project	Storage Facility	FID
Update Date	27/03/2018		Advanced
Description	Ital Gas Storage will construct a new gas storage facility located in Lombardy (Italy). The facility will have, at regime, a working gas volume of 1.3 billion cubic meters. The maximum injection and withdrawal rate from the facility will be 27 million cubic meters per day. The project has been fully authorised in March 2011, construction is expected to end by Q3 2018; and commercial operation of the facility is expected to commence from Q4 2018.		
PRJ Code - PRJ Name	PRJ-G-056 - New UGS in Cornegliano Laudense (IT)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Cornegliano	ITAL Gas Storage S.r.l.	2018	STcIT	IT	**297.0 GWh/d**
	Comment: increas of 20% of actual Italian storage injection capacity				
	ITAL Gas Storage S.r.l.	2018	IT	STcIT	**297.0 GWh/d**
	Comment: increas of 11% of actual Italian storage withdrawal capacity				

Sponsors

Whysol Gas Storage Holding S.r.l.	100%

Default

ITAL GAS STORAGE S.P.A.	100%

General Information

Promoter	*ITAL Gas Storage*
Operator	*ITAL Gas Storage S.r.l.*
Host Country	*Italy*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Ten-year development plan of the natural gas transmission network 2017–2026)*
NDP Number	*RN_10*
NDP Release Date	*02/10/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	06/2009	03/2011
Permitting		03/2011
Supply Contracts		12/2012
FID		11/2015
Construction	12/2015	11/2018
Commissioning	2018	2018
Grant Obtention Date	15/03/2011	15/03/2011

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%

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
Cornegliano UGS	Depleted Field	Yes	In progress	800	27.0	27.0	100	Commercial operation of the facility is expected to commence from Q4 2018.	2018

Fulfilled Criteria

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

Delays since last TYNDP

Grant Obtention Date	15/03/2011
Delay Since Last TYNDP	
Delay Explanation	

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	In the last decade Italy faced at least 4 gas crisis, not depending on any extraordinary event. In the next years, due to Regulation 2017/1938 on security of supply, Italian storages could be used to grant citizens from other UE country in case of gas supply crisis, reducing the risk of curtailment in Entsog #1 Scenario and #16 Scenario
Benefit Description	Cornegliano UGS will contribute to the development of reverse gas flow from South Europe to Central Europe and North Europe by providing shippers with an important source of flexibility and gas modulation at relatively low cost (the national tariff in Italy is the lowest among Europe).

Barriers	
Barrier Type	**Description**
Regulatory	Low rate of return
Financing	Amortization rates

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection with UGS in Cornegliano Laudense

TRA-F-1228	Project	Pipeline including CS	FID
Update Date	30/03/2018		Advanced
Description	The project consists of the interconnection with a new UGS facility located in the north of Italy in Cornegliano Laudense (LO)		
PRJ Code - PRJ Name	PRJ-G-056 - New UGS in Cornegliano Laudense (IT)		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS - IT - Snam Rete Gas/Italgasstorage	Snam Rete Gas S.p.A.	2018	STcIT	IT	**294.3 GWh/d**
	Snam Rete Gas S.p.A.	2018	IT	STcIT	**294.3 GWh/d**

Sponsors

Snam Rete Gas S.p.A.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (TYNDP 2017-2026)*
NDP Number	*RN_10*
NDP Release Date	*30/11/2017*
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	*2018*	*2018*
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
Interconnection with UGS in Cornegliano Laudense		1,050	10		2018
	Total		**10**		

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Slovenian-Hungarian interconnector

TRA-N-325	Project	Pipeline including CS	Non-FID
Update Date	02/10/2018		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.		
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.	2022	HU	SI	12.8 GWh/d
				Comment: phase I.	
	FGSZ Ltd.	2022	SI	HU	12.8 GWh/d
				Comment: phase I.	
	FGSZ Ltd.	2023	HU	SI	51.2 GWh/d
		Comment: phase II. total capacity up to 64 GWh/d			
	FGSZ Ltd.	2023	SI	HU	51.2 GWh/d
		Comment: phase II. total capacity up to 64 GWh/d			

Sponsors

FGSZ Ltd.	100%

General Information

Promoter	*FGSZ Ltd.*
Operator	*FGSZ Ltd.*
Host Country	*Hungary*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Hungarian TYNDP 2017)*
NDP Number	*12.12.*
NDP Release Date	*28/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.23)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		12/2015
Feasibility	05/2016	12/2017
FEED	12/2019	12/2020
Permitting	11/2016	12/2019
Supply Contracts		
FID		07/2019
Construction	01/2020	10/2022
Commissioning	2022	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
Nagykanizsa-Kozármisleny	phase II.	600	150	12	2023
Nagykanizsa-Tornyiszentmiklós	phase I.	600	41		2022
Total			**191**	**12**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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.

Delays since last TYNDP

Grant Obtention Date	
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. Slower progress of project as planned.

Expected Gas Sourcing

Algeria, Caspian Region, Libya, LNG (HR,IT)

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
Regulatory	Low rate of return
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

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	
Grants for works	*Yes*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

R15/1 Pince - Lendava - Kidričevo

TRA-N-112	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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

Point	Operator	Year	From Gas System	To Gas System	Capacity
Pince (SI) / Tornyszentmiklos (HU)	Plinovodi d.o.o.	2022	HU	SI *Comment: Phase 1*	**12.8 GWh/d**
	Plinovodi d.o.o.	2022	SI	HU *Comment: Phase 1*	**12.8 GWh/d**
	Plinovodi d.o.o.	2023	HU	SI *Comment: Phase 2* *Total capacity 59.4 GWh/d.*	**46.6 GWh/d**
	Plinovodi d.o.o.	2023	SI	HU *Comment: Phase 2* *Total capacity 59.4 GWh/d.*	**46.6 GWh/d**

Sponsors

Plinovodi	100%

General Information

Promoter	*Plinovodi d.o.o.*
Operator	*Plinovodi d.o.o.*
Host Country	*Slovenia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (TYNDP for the period 2018-2027)*
NDP Number	*C3*
NDP Release Date	*09/10/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.23)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	07/2019	12/2021
Permitting		
Supply Contracts		
FID		07/2019
Construction	10/2020	12/2023
Commissioning	2022	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%

Enabled Projects

Project Code	Project Name
TRA-N-92	CS Ajdovščina, 1st phase of upgrade
TRA-N-108	M3 pipeline reconstruction from CS Ajdovščina to Šempeter/Gorizia

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
R15/1 Pince - Lendava - Kidričevo		500	73	6	0
Total			**73**	**6**	

Fulfilled Criteria

Specific Criteria Fulfilled	Market Integration, Security of Supply, Sustainability
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	*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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Albania - Kosovo Gas Pipeline

TRA-F-1028	Project	Pipeline including CS	FID
Update Date	15/11/2018		Advanced
Description	The Albania Kosovo Gas Pipeline (ALKOGAP) project is to interconnect the existing and planned gas transmission system of the Republic of Albania including TAP & IAP project) with the future projected gas transmission system of the Republic of Kosovo, and the transmission interconnectors which are part of eastern brunch of Energy Community Gas Ring (ECGR), as well. This transmission pipeline would create the preconditions for the further development of the natural gas markets of Albania, and the creation and development of the natural gas markets of Kosovo in the estimated annual level of 2 bcm (1-1.3 bcm for Albania and 0.5 - 0.7 bcm for Kosovo). It would be possible to increase its capacity (double or triple), in the case that ALKOGAP will be used to supply Serbia and other countries with Caspian or Middle East gas.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Variant : Lezha (Albania) - Prishtina (KO) — This routing scenario assumes that IAP moves forward to the implementation stage;

Point	Operator	Year	From Gas System	To Gas System	Capacity
Albania - Kosovo Gas Pipeline (ALKOGAP)	MIE Albania & Albgaz	2022	AL	XK	63.7 GWh/d
	Comment: The Capacity for Albania is 1-1.3 bcm and for Kosovo is 0.5-0.7 bcm;				
	MIE Albania & Albgaz	2022	XK	AL	63.7 GWh/d
	Comment: The Capacity for Albania is 1-1.3 bcm and for Kosovo is 0.5-0.7 bcm;				

Capacity Increments Variant(s) For Information Only

Variant : Fier - Lezha (AL) - Prishtina (KO) — This routing scenario shall be considered in case of not much progress is encountered with the implementation of IAP

Point	Operator	Year	From Gas System	To Gas System	Capacity
Albania - Kosovo Gas Pipeline (ALKOGAP)	MIE Albania & Albgaz	2022	AL	XK	63.7 GWh/d
	Comment: The Capacity for Albania is 1-1.3 bcm and for Kosovo is 0.5-0.7 bcm;				
	MIE Albania & Albgaz	2022	XK	AL	63.7 GWh/d
	Comment: The Capacity for Albania is 1-1.3 bcm and for Kosovo is 0.5-0.7 bcm;				

Sponsors

Fier – Lezha (ALbania) – Prishtina (Kosovo)

Min. of Infrastructure & Energy of AL & Min. of Economic Development of KO	100%

Lezha (Albania) - Pristina (Kosovo)

Min. of Infrastructure & Energy of AL & Min. of Economic Development of KO	100%

General Information

Promoter	*Min. of Infrastructure and Energy AL & Min. of Economic Development KO*
Operator	*MIE Albania & Albgaz*
Host Country	*Albania*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (General National Territory Plan of Albania)*
NDP Number	*Map no. 3.27, page 145*
NDP Release Date	*14/12/2016*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		*11/2018*
Feasibility	*01/2019*	*01/2020*
FEED		
Permitting		
Supply Contracts		
FID		*07/2016*
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%*

Enabled Projects

Project Code	Project Name
UGS-N-1229	Underground Natural Gas Storage in Dumrea Area (UGS Dumrea)

Pipelines and Compressor Stations

Lezha (Albania) - Prishtina (KO)	This routing scenario assumes that IAP moves forward to the implementation stage;				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Section 1	- bi-directions flow; This routing scenario assumes that IAP moves forward to the implementation stage;	610	175	2	2022
Total			**175**	**2**	

Pipelines and Compressor Stations - Alternative Variant

Fier - Lezha (AL) - Prishtina (KO)	This routing scenario shall be considered in case of not much progress is encountered with the implementation of IAP				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Section 2	- bi-directions flow; This routing scenario shall be considered in case of not much progress is encountered with the implementation of IAP;	610	260	2	2022
Total			**260**	**2**	

Fulfilled Criteria

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

Delays since last TYNDP

Grant Obtention Date

Delay Since Last TYNDP

Delay Explanation: We don't see any delay for this Project.

Expected Gas Sourcing

Caspian Region

Comments about the Third-Party Access Regime

This step will take place after the FS and ESIA will be concluded.

Benefits	
Main Driver	Market Demand
Main Driver Explanation	The Albania Kosovo Gas Pipeline (ALKOGAP) project is planned to interconnect the existing and planned gas transmission system of the Republic of Albania (including TAP & IAP project) with the future projected gas transmission system of the Republic of Kosovo, and the transmission interconnectors which are part of easternbrunch of Energy Community Gas Ring (ECGR), as well. The project aims to establish a new supply route fornatural gas from the Middle East and Caspian Region transported by Trans Adriatic Pipeline, northeastwards of the Western Balkan area towards Serbia. The ALKOGAP project however shall be planned as bidirectional pipeline, so the possible supply direction could also be north – south, from the ECGR, or other sources.
Benefit Description	The benefits will include: -introducing an environmentally more acceptable energy source in the region (replacement for firewood, coal, fuel oil and complementary generation to renewable energy, and the potential for increased cogeneration and CHP); -facilitating the gasification of considerable eastern parts of Albania and entire territory of Kosovo; -increasing energy security to both Albania and Kosovo; -providing diversified gas supply to the region providing the access to Albanian storage capacities; -providing significant transit capacity and income to Albania and Kosovo; -creating the preconditions for supporting the regional concept of South European Gas Ring; -reducing CO2 emissions in the region and facilitating economic development.

Barriers	
Barrier Type	**Description**
Regulatory	It is not foreseen any regulatory barrier related to ALKOGAP Project. This project will be developed based on the Law no. 102/2015 "On the the natural gas sector" for Albania (http://ere.gov.al/doc/ligj_nr._102,_dt._23.9.2015.pdf) and Law No. 05/L-082 "For natural gas" for Kosovo (http://ero-ks.org/2016/Ligjet/LIGJI_PER_GAZIN_NATYROR.pdf). Above mentioned laws are in accordance with the 3rd package of the Energy Community.
Permit Granting	The permit will be granting in accordance with the Regulation no. 347/2013.
Political	ALKOGAP Project has the support of Albanian and Kosovo Governments. This Project is part of "Single Project Pipeline" list of both governments.
Others	N/A.
Market	N/A. We don't see any market barrier.
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*We have received grant from WBIF: -1.1 million Euro for the preparation of the Gas Master Plan of Albania; -0.3 million Euro for the Pre-Feasibility Study for this Project. As this study will be concluded, we will apply to WBIF for grant in order to prepare the Feasibility Study and ESIA.*
General Comments	*The Gas Master Plan of Albania: http://www.qbz.gov.al/Botime/Akteindividuale/Janar%202018/Fletore%2023/VKM%20nr.%2087,%20date%2014.2.2018.pdf The National General Territory Plan: http://www.qbz.gov.al/botime/fletore_zyrtare/2016/PDF-2016/248-2016.pdf*

IAEF - Vlora ccgt

TRA-N-1303	Project	Pipeline including CS	Non-FID
Update Date	15/11/2018		Advanced
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 intermitent renewables 4. Provide the basis for PiP2 and PiP3 which are of European Relevance as they develop into connections to Montenegro, BiH and Croatia. This way gas from the Southern Gas Corridor will find its way into EU markets via an alternative route. 5. The work has already started on the FEED		
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	**0.0 GWh/d**

Sponsors

General Information

Promoter	*Albgaz Sha*
Operator	*Albgaz Sha*
Host Country	*Albania*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Plani 10 Vjecar i Zhvillimit)*
NDP Number	*PiP1*
NDP Release Date	*15/02/2018*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		02/2017
Feasibility	03/2017	02/2018
FEED	09/2018	09/2018
Permitting	11/2018	03/2019
Supply Contracts		06/2019
FID		09/2019
Construction	11/2019	11/2020
Commissioning	2020	2020
Grant Obtention Date	28/01/2016	28/01/2016

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	10.00%
Exemption in exit direction	10.00%

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

Specific Criteria Fulfilled Comments

Delays since last TYNDP

Grant Obtention Date 28/01/2016

Delay Since Last TYNDP

Delay Explanation

Expected Gas Sourcing

Caspian Region, Potential for new gas discoveries by Shell (currently drilling 4th well).

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 intermitent 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 intermitent 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	*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*
Submissin Date	*21/03/2018*
Decision Date	
Website	*CBCA URL*
Countries Affected	*Albania*
Countries Net Cost Bearer	*Albania*
Additional Comments	*We expect a positive decision any day by the National Regulatory Entity (ERE).*

Financial Assistance

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

Underground Natural Gas Storage in Dumrea Area (UGS Dumrea)

UGS-N-1229	Project	Storage Facility	Non-FID
Update Date	15/11/2018		Non-Advanced
Description	Albanian institutions have studied to develop two alternatives of salt formation in Dumrea area. The salt dome of Dumrea is a large diapir covering a surface area of approximately 250 km². The salt mirror is mostly at depth 2,000 m. The overburden is carstic to a large extent and consist of gypsum and anhydrite. The salt reaches down to 6,000 m. The salt volume is estimated to amount 1,400 km³. This UGS project, of about 1 – 1.2 bcm capacity, would create the preconditions for the further development of the natural gas markets of Albania. The location of this project is in Albanian territory. The construction of the UGS Dumrea would improve the gasification of Albania, Greece, Italy, Montenegro and Kosovo countries and providing a diversified and reliable natural gas supply. It would be possible to increase its capacity (double or triple), in the case that UGS Dumrea will be used to supply Greece, Italy, Serbia and Croatia and other countries with Caspian or Middle East gas.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Variant : UGS Dumrea Alternative 2 — Alternative A2

Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Dumrea	MIE Albania & Albgaz	2024	STcAL	AL	38.2 GWh/d
	Comment: Alternative 2: Working Capacity 1-1.2 bcm/y; Withdrawal rate 6 mcm/day; Injection Capacity 2mcm/day.				
	MIE Albania & Albgaz	2024	AL	STcAL	38.2 GWh/d
	Comment: Alternative 2: Working Capacity 1-1.2 bcm/y; Withdrawal rate 6 mcm/day; Injection Capacity 2mcm/day.				

Capacity Increments Variant(s) For Information Only

Variant : UGS Dumrea Alternative 1 — Alternative A1

Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Dumrea	MIE Albania & Albgaz	2024	STcAL	AL	9.6 GWh/d
	Comment: Alternative 1: Working Capacity 0.26 - 0.3 bcm/y; Withdrawal rate 1.29 mcm/day; Injection Capacity 0.43 mcm/day.				
	MIE Albania & Albgaz	2024	AL	STcAL	9.6 GWh/d

UGS Dumrea

Comment: Alternative 1: Working Capacity 0.26 - 0.3 bcm/y; Withdrawal rate 1.29 mcm/day; Injection Capacity 0.43 mcm/day.

Sponsors	
Ministry of Infrastructure and Energy of Albania & Albgaz sh.a	100%

General Information	
Promoter	*Ministry of Infrastructure and Energy of Albania and Albgaz sh.a.*
Operator	*MIE Albania & Albgaz*
Host Country	*Albania*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (National General Territory Plan of Albania DoCM no. 881, dated 14.012.2016)*
NDP Number	*Map no. 3.27; page no. 145*
NDP Release Date	*14/12/2016*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		*03/2017*
Feasibility	*01/2019*	*10/2019*
FEED	*01/2018*	*10/2019*
Permitting	*09/2020*	*12/2020*
Supply Contracts		*06/2020*
FID		*12/2019*
Construction	*01/2022*	*12/2024*
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%*

Enabled Projects

Project Code	Project Name
TRA-F-1028	Albania - Kosovo Gas Pipeline

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 Dumrea	*Salt Cavern*	*Yes*	*UGS Dumrea A.2*	*1,200*	*6.0*	*2.0*	*20*	*UGS Dumrea Alternative 2: Working Volume 1-1.2bcm/year.*	*2024*
UGS Dumrea	*Salt Cavern*	*Yes*	*UGS Dumrea A.1*	*300*	*1.3*	*0.4*	*30*	*UGS Dumrea Alternative 1: Working Volume 0.26 - 0.3 bcm/year.*	*2024*

Fulfilled Criteria

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

Delays since last TYNDP

Grant Obtention Date

Delay Since Last TYNDP

Delay Explanation This Project was not part of last TYNDP. This Project is in time without any delays.

Expected Gas Sourcing

Caspian Region

Comments about the Third-Party Access Regime

This phase will be done after the preparation of the FS and ESIA, also other necessary document.

Benefits	
Main Driver	Market Demand
Main Driver Explanation	The construction of the UGS Dumrea would improve the gasification of Albania, Montenegro and Kosovo and providing a diversified and reliable natural gas supply. This UGS project, of about 1 – 1.2 bcm capacity, would create the preconditions for the further development of the natural gas markets of Albania. It would be possible to increase its capacity (double or triple), in the case that UGS Dumrea will be used to supply Greece, Serbia and Croatia and other countries with Caspian or Middle East gas.
Benefit Description	The expected benefits will include: - Improve the introducing an environmentally more acceptable energy source in the region (helping on the replacement for firewood, coal, fuel oil and complementary generation to renewable energy, and the potential for increased cogeneration and CHP); - facilitating the gasification of Albania and other countries on the region; - providing diversified gas supply to the region; - providing the access to Albanian gas network; - providing significant transit capacity and income to Albania; - reducing CO2 emissions in the region and facilitating economic development.

Barriers	
Barrier Type	**Description**
Regulatory	We don't see any regulatory barriers. Albania has transpose the EU Regulation concretely the 3rd package of the Energy Community, Law no. 102/2015 "On the Natural Gas Sector" (http://ere.gov.al/doc/ligj_nr._102,_dt._23.9.2015.pdf). The document that transpose the Regulation 347/2013 is in process for approval by the CM of Albania.
Permit Granting	The permits are going to be granting in concordance with the Regulation 347/2013.
Political	This Project has the support of Albanian Government. Also, this Project is part of the "Single Project Pipeline" list of Albania Government.
Others	N/A
Market	We don't see any market barriers related to UGS Dumrea Project.
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*We have received grant from WBIF: -1.1 million Euro for the preparation of the Gas Master Plan of Albania. We have applied for the grant to prepare the Feasibility Study and ESIA for UGS Dumrea Project.*
General Comments	*The Gas Master Plan is approved with the DoCM no. 87, dated on 14.02.2018. In this study a detailed assessment is conluded related to this project. UGS Dumrea is consider as very important project regarding the benefits on the security of supply of Albanian and neighbour countries.*

GCA 2015/08: Entry/Exit Murfeld

TRA-N-361	Project	Pipeline including CS	Non-FID
Update Date	28/02/2018		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	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Murfeld (AT) / Ceršak (SI)	Gas Connect Austria GmbH	2022	AT	SI	**105.2 GWh/d**
	Comment: conversion from Nm^3/h to kwh/h with a GCV of 11.19				
	Gas Connect Austria GmbH	2022	SI	AT	**166.5 GWh/d**
	Comment: conversion from Nm^3/h to kwh/h with a GCV of 11.19				

Sponsors

General Information

Promoter	*GAS CONNECT AUSTRIA GmbH*
Operator	*Gas Connect Austria GmbH*
Host Country	*Austria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (NDP 2018 - 2027)*
NDP Number	*GCA 2015/08*
NDP Release Date	*19/01/2018*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.26.1.4)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	10/2015	07/2019
Supply Contracts		
FID		
Construction		06/2022
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
Murfeld	The technical load factor of the pipeline is confidential and must not be published in the TYNDP.				0
Total					

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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 strenghthens 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

GCA Mosonmagyaróvár

TRA-N-423	Project	Pipeline including CS	Non-FID
Update Date	28/02/2018		Advanced
Description	Current planning based on market indications. Potential connection to new gas sources from the Black Sea. Project will enable reverse flow.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Mosonmagyarovar	Gas Connect Austria GmbH	2022	HU	AT	**153.1 GWh/d**

Sponsors

General Information

Promoter	*GAS CONNECT AUSTRIA GmbH*
Operator	*Gas Connect Austria GmbH*
Host Country	*Austria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (NDP 2018 - 2027)*
NDP Number	*GCA 2015/05*
NDP Release Date	*19/01/2018*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.1.3)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	10/2015	07/2019
Supply Contracts		
FID		
Construction		05/2022
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
Mosonmagyarovar	The technical load factor of the pipeline is confidential and must not be published in the TYNDP.				0
Total					

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project allows for the connection to new gas sources from the Black Sea. It will enable reverse flow and increases diversification of routes. This will strengthen market intergration, security of supply and competition. In addition, it contributes favourably to sustainability goals.

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	Strenthening the establishment of a potential Southern Corridor and contribution to a diversification of sources e.g. Black Sea 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

TAG Reverse Flow

TRA-F-954	Project	Pipeline including CS	FID
Update Date	09/03/2018		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	2019	IB-ITe	AT	**0.0 GWh/d**
	Comment: The implementation of this project, which comprisesoperation 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 Nm^3/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 Nm^3/h, (0°C); GCV 11,19 kWh/Nm^3/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 Nm^3/h (0°C); GCV 11,19 kWh/Nm^3/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.				

Sponsors	
Trans Austria Gasleitung GmbH	100%

General Information	
Promoter	*Trans Austria Gasleitung GmbH*
Operator	*TAG GmbH*
Host Country	*Austria*
Status	*Planned*
Website	

NDP and PCI Information	
Part of NDP	*Yes (Coordinated Network Development Plan 2018-2027)*
NDP Number	*TAG 2016-01*
NDP Release Date	*19/01/2018*
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	*2019*	*2019*
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	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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

South Caucasus Pipeline - (Future) Expansion - SCP-(F)X

TRA-F-1138	Project	Pipeline including CS	FID
Update Date	27/03/2018		Advanced

Description

SCP, exporting natural gas from Shah Deniz Phase 1 deposit, became operational in 2006-07 and now has export capacity of around 7 bcm/y. It is expected these volumes will be more or less at the same level in future several years, though they are not attributed neither to SCPX nor SCPFX. SCP gas is contracted by BOTAS in Turkey.

SCPX is the expansion of SCP, which is made by adding SCPX looping in Azerbaijan (new 424 km to the existing 443 km) and in Georgia (63 km to the existing 248 km), construction of 2 km tie-in with TANAP, increase of power of Sangachal terminal compressor station in Azerbaijan and construction of two new compressor stations in Georgia. SCPX is a part of the Southern Gas Corridor for the export of additional 16 bcm/y (6 bcm/y for Turkey, 10 bcm/y for TAP System in the EU).

SCPFX is the concept of future expansion, but it will also use SCP/SCPX System. SCPFX throughput capacity depends on future demand, volumes of source gas, and of course costs of such FX.

PRJ Code - PRJ Name

-

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Türkgözü	SOCAR Midstream Operations	2018	AZ/SCP	TR/TNP *Comment: SCPX*	**464.0 GWh/d**

Sponsors

BP	28%
TPAO	19%
SOCAR affiliates	16%
Petronas	15%
NICO	10%
Lukoil	10%

General Information

Promoter	*SOCAR Midstream Operations LLC*
Operator	*SOCAR Midstream Operations*
Host Country	*Azerbaijan*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((2) no NDP exists in the country)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (7.1.1)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		04/2010
Feasibility	04/2010	01/2013
FEED	01/2011	01/2012
Permitting	09/2010	04/2014
Supply Contracts		09/2018
FID		12/2013
Construction	01/2014	09/2018
Commissioning	2018	2018
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Negotiated
Considered Tariff Regime	Negotiated
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
South-Caucasus Pipeline	The duty compressor power of SCP is 6.4 MW. The stand-by compressor power of SCP is also 6.4 MW.	1,067	691	6	2006
Total			**691**	**6**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	SCP-(F)X is an integral part of the Sothern Gas Corridor value chain, which connects giant 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

Grant Obtention Date	
Delay Since Last TYNDP	6 months
Delay Explanation	

Expected Gas Sourcing

Caspian Region

Benefits

Main Driver	Market Demand
Main Driver Explanation	
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
Intergovernmental Agreement between Azerbaijan and Georgia		Yes	17/04/2002

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

L/H Conversion Belgium

TRA-N-500	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		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	
Fluxys Belgium	100%

General Information	
Promoter	*Fluxys Belgium*
Operator	*Fluxys Belgium*
Host Country	*Belgium*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Ten-Year Indicative Investment Programme Fluxys Belgium & Fluxys LNG 2017-2026)*
NDP Number	*L/H Conversion*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (5.21)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	09/2015	
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	Not Relevant
Exemption Granted	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Zeebrugge LNG Terminal - 3rd Jetty

LNG-N-742	Project	LNG Terminal	Non-FID
Update Date	28/02/2018		Non-Advanced
Description	Given the contracted capacities on the Terminal for the current installations on the one hand, and on the other hand the growing small scale LNG market, with amongst others the LNG bunker vessel from Engie/Mitsubishi/NYK/Fluxys which is operational since Q2 2017 in the Zeebrugge Port, LNG feedering contracts for supply to Scandinavia, more and more commercial vessels converting to LNG, the Clean Power for Transport directive imposing to make LNG available in all seaports, etc, Fluxys LNG is evaluating in all domains (commercial and technical) the need and the possibilities to construct a 3rd Jetty, dedicated for small scale LNG ships as to support the realization of the directive. The purpose of this 3rd Jetty would be to serve LNG ships from the smallest size of about 1.000 m^3 up to about 30.000 m^3.		
PRJ Code - PRJ Name	-		

Sponsors	
Fluxys LNG	100%

General Information	
Promoter	*Fluxys LNG*
Operator	*Fluxys LNG*
Host Country	*Belgium*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Ten-Year Indicative Investment Programme Fluxys Belgium & Fluxys LNG 2017-2026)*
NDP Number	*Zeebrugge LNG Terminal - 3rd Jetty*
NDP Release Date	
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	*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%*

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 (%)
Zeebrugge LNG Terminal	*Yes*	*3rd Jetty*	*0.0*	*0*	*0.00*	*0*	*Berthing capacity*	*2023*	*50*

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Market	Lack of market maturity

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Zeebrugge LNG Terminal - 5th Tank

LNG-F-229	Project	LNG Terminal	FID
Update Date	27/03/2018		Advanced
Description	Construction of an additional storage tank with a capacity of 180000 m³ LNG (FID, commissioning foreseen 2019). Potential construction of additional send-out capacity of 450000 m³(n)/h (non-FID).		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Variant : FID	FID				
Point	Operator	Year	From Gas System	To Gas System	Capacity
Zeebrugge LNG	Fluxys LNG	2019	LNG_Tk_BEh	IB-BEhz	0.0 GWh/d

Capacity Increments Variant(s) For Information Only

Variant : non-FID	non-FID				
Point	Operator	Year	From Gas System	To Gas System	Capacity
Zeebrugge LNG	Fluxys Belgium	2019	LNG_Tk_BEh	IB-BEhz	122.0 GWh/d
	Fluxys LNG	2019	LNG_Tk_BEh	IB-BEhz	122.0 GWh/d

Sponsors

Fluxys LNG	100%

General Information

Promoter	*Fluxys LNG*
Operator	*Fluxys LNG*
Host Country	*Belgium*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Ten-Year Indicative Investment Programme Fluxys Belgium & Fluxys LNG 2017-2026)*
NDP Number	*Zeebrugge LNG Terminal - 5th Tank*
NDP Release Date	
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	*2019*	*2019*
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%*

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 (%)
Zeebrugge LNG Terminal	*Yes*	*5th Tank*	*0.0*	*0*	*0.00*	*180,000*	*NA*	*2019*	*50*

Expected Gas Sourcing

LNG (BE)

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Construction of a Looping CS Provadia – Rupcha village

TRA-N-594	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		Advanced
Description	Modernisation of the existing network for transit transmission with the construction of 50 km looping with prevailing diameter Dn 1200 from Provadia to the village of Rupcha, replacement of 20 km (2x10 km) 12 of existing gas pipelines with diameter of Dn 1000 from CS Strandja to the border with Turkey and increase in the capacity of CS Strandja with 10 MW. The realization of the project will ensure new capacity of 6 bcm/y (192,5 GWh/d) to Turkey.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Strandzha (BG) / Malkoclar (TR)	Bulgartransgaz EAD	2022	BGg/BGT	TRe	192.5 GWh/d
				Comment: a new looping	

Sponsors

Provadia - Rupcha	
Bulgartrasngaz EAD	100%
Strandja-IP BG/TR	
Bulgartrasngaz EAD	100%

General Information

Promoter	*Bulgartransgaz EAD*
Operator	*Bulgartransgaz EAD*
Host Country	*Bulgaria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2017-2026 Ten-year network development plan of BTG)*
NDP Number	*Section 5.1. (5.1.1)*
NDP Release Date	*10/04/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.25.4)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		06/2022
Commissioning	2022	2022
Grant Obtention Date	17/05/2017	17/05/2017

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%

Enabled Projects

Project Code	Project Name
TRA-N-592	Looping CS Valchi Dol - Line valve Novi Iskar
TRA-N-593	Varna-Oryahovo gas pipeline

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Strandja – a new IP with Turkey.	Replacement of 20 km of gas pipelines (2x10km), DN 1000 in the section CS Strandja – a new IP with Turkey.	1,000	20		0
Looping CS Provadia – Rupcha village	new looping and additional power to existing compressior station	1,200	50	10	0
Total			**70**	**10**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The concept for the creation of gas hub on the territory of Bulgaria is based on the idea significant quantities of natural gas from different sources to enter into a given real physical point in the region of Varna for their further transport and a venue for gas trade is organized at the same time at this point – a hub where every market participant could trade in gas. The idea of building the gas hub is supported by the strategic geographic location of Bulgaria, the well-developed existing gas infrastructure for transmission and storage and the projects for the construction of interconnections with Romania, Turkey, Greece and Serbia.

Delays since last TYNDP

Grant Obtention Date	17/05/2017
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

Caspian Region, Russia, LNG (), Southern gas corridor gas sources; European gas hubs; Black sea shelf gas; Domestic production;

Benefits

Main Driver	Others
Main Driver Explanation	The concept for the creation of gas hub on the territory of Bulgaria is based on the idea significant quantities of natural gas from different sources to enter into a given real physical point in the region of Varna for their further transport and a venue for gas trade is organized at the same time at this point – a hub where every market participant could trade in gas. The idea of building the gas hub is supported by the strategic geographic location of Bulgaria, the well-developed existing gas infrastructure for transmission and storage and the projects for the construction of interconnections with Romania, Turkey, Greece and Serbia.
Benefit Description	The creation of a gas hub aims at building the gas transmission infrastructure required to link the natural gas markets for the EU members states in the region - Bulgaria, Greece, Romania, Hungary, Croatia, Slovenia and through them to the members states from Central and Western Europe and to the countries from the Energy Community - Serbia, Macedonia, Bosna and Herzegovina and others, thus contributing to achieving the main priorities of the European energy policy. In the context of the European objectives to build an interconnected and single pan-European marker, the realization of the projects, forming the gas hub concept, is in line with the projects for the development of the Southern gas corridor and in full compliance with the plans for development of gas infrastructure in Europe to enhance the security of supply and the diversification of natural gas supply sources.

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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Expansion of the gas infrastructure between BG-TR and BG-RS borders

TRA-N-1197	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		Non-Advanced
Description	The project envisages the construction of two new sections, the use of existing infrastructure in reverse operating regime with the necessary changes, the construction of two new compressor stations and one gas metering station, namely: - Section 1 – construction of a new gas pipeline with a length of about 9.3 km, DN 1200 and pressure 7,5 MPa and gas metering station (GMS) Strandja; - Section 2 – existing infrastructure consisting of two gas pipelines DN1000 with a length of about 155 km and a pressure of up to 5,4 MPa, as well as one gas pipeline with a length of 93 km with looping with a length of 45 km, DN 1200 and a pressure of up 5,4 working in reverse operating regime; - Section 3 - construction of a new gas pipeline, with a length of about 484.3 km, DN 1200 and a pressure of 7,5 MPa, CS Nova provadia and CS Rasovo.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Bolyarovo (BG) / Turkey (TR)	Bulgartransgaz EAD	2020	TRi	BGn	**567.8 GWh/d**
Kirevo (BG) / Serbia (RS)	Bulgartransgaz EAD	2022	BGn	RS	**357.7 GWh/d**

Sponsors

Bulgartransgaz	100%

General Information

Promoter	*Bulgartransgaz EAD*
Operator	*Bulgartransgaz EAD*
Host Country	*Bulgaria*
Status	*Planned*
Website	

NDP and PCI Information

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)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		*03/2022*
Commissioning	*2020*	*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
CS Strandja through CS Lozenets to CS Provadia	Use of the existing gas transmission infrastructure in reverse flow regime, nominal pressure of 5,4 MPa, after completing of necessary changes				2020
New gas pipeline from CS Provadia to the Bulgarian-Serbian border	New section from CS Provadia to the BG-RS border, nominla pressure of 7,5 MPa and 2 new CSs - CS Rasovo and CS Nova Provadia * The year indicated is the deadline for commissioning of the last of the sub-projects	1,200	484	64	2022
New gas pipeline from the Bulgarian-Turkish border to CS Strandja	Construction of new gas pipeline from the Bulgarian-Turkish border to CS Strandja, nominal pressure of 7,5 MPa and a new GMS - GMS Strandja	1,200	93	64	2020
Total			**577**	**128**	

Fulfilled Criteria

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

Benefits

Main Driver	Others
Main Driver Explanation	The realization of the project for the expansion of Bulgartransgaz EAD gas transmission infrastructure in the section from the Bulgarian-Turkish border to the Bulgarian-Serbian border will achieve: • security of natural gas supply to Bulgaria; • security of natural gas supply to the neighboring Balkan countries and the region; • market integration.
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection Bulgaria - Serbia

TRA-F-137	Project	Pipeline including CS	FID
Update Date	31/05/2018		Advanced
Description	IBS aims at connecting the national gas transmission networks of Bulgaria and Serbia. It will be implemented in 3 stages. 1st: a pipe will be built from Novi Iskar to Kalotina, BG (62.2 km) and from Nis to Dimitrovgrad, SR (108 km), with capacity from BG to SRB - 1,0 bcm/year, and from SRB to BG - 0.15 bcm/year. 2nd: the capacity will be increased from BG to SRB to 2,4 bcm/year, and from SRB to BG to 0,95 bcm/year, and later to 1,5 bcm/year, by construction of 2 CSs (20 MW each) and 2 new gas pipeline sections (from G Bogrov CS to N Iskar – 19 km and from V. Orašje to Nis – 161 km). 3rd: by construction of the looping VS Batulsi - G Bogrov CS (62 km) the capacity from BG to SRB will be increased to 3,2 bcm/year. In the direction from SRB to BG the construction of the pipeline Batajnica - V Orašje (116 km) will ensure transmission of 2 bcm/ year, and the construction of CS Batočina (20 MW) will increase the capacity from 2.0 bcm/year to up to 2.5 bcm/y.		
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	**51.0 GWh/d**
			Comment: Operator to be defined		
	IBS Future Operator	2022	RS	BGn	**51.0 GWh/d**
			Comment: Operator to be defined		

Sponsors	
Bulgarian section	
Ministry of Energy of Bulgaria	100%
Serbian section	
Serbijagas	100%

General Information	
Promoter	*Ministry of Energy*
Operator	*IBS Future Operator*
Host Country	*Bulgaria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (2017-2026 Ten-year network development plan of BTG)*
NDP Number	*Sectin 5.2 (5.2.3)*
NDP Release Date	*10/04/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.10)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		*02/2011*
Feasibility	*12/2011*	*12/2012*
FEED		
Permitting	*06/2013*	*12/2019*
Supply Contracts		*03/2020*
FID		*12/2012*
Construction	*03/2020*	*03/2022*
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
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, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	IBS will connect networks of Bulgaria and Serbia. It is a prerequisite for development of the natural gas market, increase of market integration and boosting competition. All this involves the use of the potential and existing gas infrastructure on the territory of Bulgaria and Serbia, Chiren UGS capacity, UGS Banatski Dvor and Banatski Itebej. IBS will significantly contribute to the SoS, diversification of the supply sources and routes; increasing the transport volumes and the liquidity of the regional gas market, as well as the integration with the EU gas network under EU regulations. Bulgaria will be able to take advantage of alternative gas supplies through the Baumgarten Hub, and Serbia will have access to natural gas from the Southeast through the gas interconnections of Bulgaria with in Turkey and Greece. The connection of the gas markets of Bulgaria and Serbia will consequently contribute to the connection with the markets of the countries of Southeastern Europe.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	
Delay Explanation	• Large archeological survey and researches along the route. • The Public procurement procedure for selection of a Contractor for the design phase, including apeal to Court, took rather long. • Need for amendment of the Detailed Development Plan. • The implementation of the project on Bulgarian territory, according to the requirements under OPIC 2014-2020 has exclusive conditionality with the Serbian section, namely the start of construction works on Serbian territory is an essential prerequisite to commission the grant under Operational Programme Innovation and Competitiveness for beginning of the construction works on the Bulgarian territory.

Expected Gas Sourcing

Caspian Region, 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 (increased interconnection between Bulgaria and Serbia)

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
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 signed in Brussels between Bulgaria and Serbia in 2012	Yes	14/12/2012
Memorandum of Understanding between Bulgaria and Serbia	Memorandum of Understanding between Bulgaria and Serbia	Yes	19/01/2017
Joint statement by Bulgaria and Serbia	Joint statement signed in Brussels by Bulgaria and Serbia in 2010	Yes	05/03/2010

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*'BS is developed by Ministry of Energy (ME), beneficiary of Competitiveness Operational Programme (2007-2013 and 2014-2020). The source of financing is the European Fund for Regional Development.*
General Comments	

Interconnection Turkey-Bulgaria

TRA-N-140	Project	Pipeline including CS	Non-FID
Update Date	31/05/2018		Non-Advanced
Description	Construction of new onshore gas pipeline in the section between the village of Losenets and the Bulgarian-Turkish border in the region of the village of Strandja in parallel to the existing transit gas pipeline of about 76 km length on Bulgarian territory, diameter of the pipe 700 mm and capacity of about 3 bcm/y at operating pressure 64 bar. A compressor station Losenets – 2 near the existing compressor station in the region of the village of Losenets is also envisaged to be built. The project, as part of the priority Southern Gas Corridor is crucial in terms of security and diversification of the sources and routes of natural gas supply to/through Bulgaria and the region. Its implementation is directly related to achievement of the conditions required for creation of a competitive gas market, increase of systems' flexibility and market integration.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Interconnector ITB (Turkey - Bulgaria) (BG>TR)	Bulgartransgaz EAD	2022	BGn	BG/ITB	**97.0 GWh/d**
Interconnector ITB (Turkey - Bulgaria) (TR>BG)	Bulgartransgaz EAD	2022	BG/ITB	BGn	**97.0 GWh/d**

Sponsors

Bulgartransgaz EAD for the gas pipeline section on the territory of Bulgaria	100%

General Information

Promoter	*Bulgartransgaz EAD*
Operator	*Bulgartransgaz EAD*
Host Country	*Bulgaria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2017-2026 Ten-year network development plan of BTG)*
NDP Number	*ITB*
NDP Release Date	*10/04/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*08/2015*	*02/2016*
FEED		
Permitting		
Supply Contracts		
FID		
Construction		*12/2022*
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
ITB Bulgarian Section		700	76	13	0
ITB Turkish Section			130		0
	Total		**206**	**13**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	ITB is a pivotal part of a larger gas markets integration strategy that includes interconnection projects Bulgaria-Romania, Bulgaria-Serbia, Romania-Hungary. The implementation of the project and the addition of alternative sources of gas in the region will promote the market integration of the region and the development of more infrastructures in the area and specifically in the countries mentioned above. The project will allow to alleviate to a great extent the dependency of countries in the area in a single import source/counterpart. ITB will definitely provide additional capacity in relation to national and regional N-1, considering that it will supply additional quantities of gas from an alternative route for alternative sources and counterparts to an area in urgent need of diversification. Considering that Bulgaria and the region are heavily dependent on gas imports from a single source, the diversification that ITB provides in all three (route, source and counterparts) will p

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	yes
Delay Explanation	

Expected Gas Sourcing

Caspian Region, LNG (), SGC, Azerbaijan, LNG, Iran, Turkmenistan and other entering Turkish system which has 6 entry points.

Benefits

Main Driver	Others
Main Driver Explanation	The project, as part of the priority Southern Gas Corridor is crucial in terms of security and diversification of the sources and routes of natural gas supply to/through Bulgaria and the region. ITB can secure access to all existing and future entry points and sources of Turkey, Azerbaijan and other natural gas and LNG spot supplies from the existing terminals in Turkey. Its implementation is directly related to achievement of the conditions required for creation of a competitive gas market, increase of systems' flexibility and market integration.
Benefit Description	The implementation of the project will considerably contribute for the achievement of the broad EU energy objectives and priorities such as: • Diversification of gas supply • Enhancing security of supply (by reducing the dependency on one source of gas supply) • Promoting further integration of the EU internal energy market • Encouraging and increasing market competitiveness • Contributing to the gas market liberalization

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Joint Declaration of the Minister of Energy and Natural Resources of the Republic of Turkey and the Minister of Economy, Energy and Tourism of the Republic of Bulgaria on Energy Cooperation	Declarationon Energy Cooperation	Yes	20/03/2012
Memorandum of Understanding between the Ministry of Economy, Energy and Tourism of the Republic of Bulgaria and the Ministry of Energy and Natural Resources of the Republic of Turkey on Comprehensive Cooperation in the Field of Energy	Memorandum of Understandingon Comprehensive Cooperation in the Field of Energy	Yes	29/01/2010
Memorandum of Understanding	a Memorandum of Understanding between the Ministry of Economy and Energy of the Republic of Bulgaria and the Ministry of Energy and Natural Resources of the Republic of Turkey, concerning ITB project	Yes	28/03/2014

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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 0*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	*On April 3, 2015 Bulgartransgaz EAD has signed a Grant Agreement No. INEA/CEF/ENER/M2014/0014 for the realization of a Feasibility study for the project Turkey – Bulgaria (ITB).* *Bulgartransgaz EAD intends to apply for PCI label of ITB in the next PCI round and respectively to apply for financial support for other type of studies and for works.*
General Comments	

Interconnector Greece-Bulgaria (IGB Project)

TRA-F-378	Project	Pipeline including CS	FID
Update Date	15/11/2018		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		
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	**90.0 GWh/d**
Komotini (DESFA) - GR / IGB	ICGB a.d.	2020	IB-GRk	BG/IGB	**90.0 GWh/d**
	ICGB a.d.	2025	IB-GRk	BG/IGB	**60.0 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 - IGB / BG	ICGB a.d.	2020	BG/IGB	BGn	**90.0 GWh/d**
	ICGB a.d.	2025	BG/IGB	BGn	**60.0 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

BEH EAD	50%
IGI Poseidon	50%

General Information

Promoter	*ICGB a.d.*
Operator	*ICGB a.d.*
Host Country	*Bulgaria*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Included in both the TYNDPs of Greece and Bulgaria)*
NDP Number	*not applicable*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (6.8.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		04/2009
Feasibility	05/2009	07/2009
FEED	08/2010	03/2016
Permitting	08/2010	06/2018
Supply Contracts		
FID		12/2015
Construction	09/2018	06/2020
Commissioning	2020	2025
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Not Applicable
Considered Tariff Regime	Not Applicable
Applied for Exemption	Yes
Exemption Granted	Not Yet
Exemption in entry direction	90.00%
Exemption in exit direction	90.00%

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
IGB	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	0
Total			**182**	**12**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	As regional gas interconnector, IGB will bring benefits on all criteria, an in particular will secure new gas sources and market integration in a SEE region, suffering from a high level of dependcy on single source of imports and lack of regional cross-border gas interconnections.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	1 year
Delay Explanation	Extension in permitting procedures for authorization of construction and of Exemption Procedure for new gas infrastructure. Requirement by Bulgarian authorities for conducting public procurement procedures for construction phase in accordance with Public Procurement Act (PPA) and received appeals under PPA causing delays.

Expected Gas Sourcing

Algeria, Caspian Region, Libya, Norway, Russia, LNG (DZ,EU,GR,IT,NO,QA,TAP,TR,AE,US)

Comments about the Third-Party Access Regime

The Exemption Application has been submitted for obtaining exemption from tariff regulation, TPA obligations and ownership unbundling. Finalization of the Exemption procedure is planned in 1st half 2018.

Benefits

Main Driver	Market Demand
Main Driver Explanation	The committments 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 Authorites in the conducted Market Test (see above information on Exemption Application). ARCAs signature will be followed by Gas Transportation Agreements execution within 2018 (as per provisions of the ARCAs).
Benefit Description	IGB development is not associated with a specific supply source. 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 committment 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 TPA exemption regime and licencing, and ensure a viable rate of financial return from the investment.
Permit Granting	Affected by delays
Political	Government support expected on issues such as streamlined permitting and regulatory decisions on commercial development, availability of financial incentives.
Others	Newly imposed public procurement procedures in accordance to Bulgarian Public Procurement Act ; 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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*Financial assisstance has been approved for the IGB in the amount of 45 mln. EUR under the European Energy Programme for Recovery (EEPR).* *IGB Project is applying for additional financial support from EU Structural and Investment Funds.*
General Comments	

Looping CS Valchi Dol - Line valve Novi Iskar

TRA-N-592	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		Advanced
Description	Modernisation of the national gas transmission network northern semi-ring with the construction of 383 km looping with a diameter of Dn 700 from CS Valchi dol to line valve Novi Iskar. The realization of the project will ensure capacity increment in the direction to Romania (through IBR) with 30.8 GWh/d and capacity increment in GMS Chiren with 44 GWh/d In the context of the European objectives to build an interconnected and single pan-European market, the realization of the presented projects, forming the gas hub concept, is in line with the projects for the development of the Southern gas corridor and in full compliance with the plans for development of gas infrastructure in Europe to enhance the security of supply and the diversification of natural gas supply sources.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
GMS Chiren	Bulgartransgaz EAD	2022	STcBGn	BGn	**44.0 GWh/d**
	Bulgartransgaz EAD	2022	BGn	STcBGn	**44.0 GWh/d**
Ruse (BG) / Giurgiu (RO)	Bulgartransgaz EAD	2022	BGn	RO	**30.8 GWh/d**
	Bulgartransgaz EAD	2022	RO	BGn	**30.8 GWh/d**

Sponsors

Bulgartransgaz EAD	100%

General Information

Promoter	*Bulgartransgaz EAD*
Operator	*Bulgartransgaz EAD*
Host Country	*Bulgaria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2017-2026 Ten-year network development plan of BTG)*
NDP Number	*Section 5.1. (5.1.1)*
NDP Release Date	*10/04/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.25.4)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		06/2022
Commissioning	2022	2022
Grant Obtention Date	17/05/2017	17/05/2017

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%

Enabled Projects

Project Code	Project Name
TRA-N-593	Varna-Oryahovo gas pipeline
TRA-N-594	Construction of a Looping CS Provadia – Rupcha village
UGS-N-138	UGS Chiren Expansion

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Valchi dol - line valve Novi Iskar		700	383		2022
	Total		**383**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The concept for the creation of gas hub on the territory of Bulgaria is based on the idea significant quantities of natural gas from different sources to enter into a given real physical point in the region of Varna for their further transport and a venue for gas trade is organized at the same time at this point – a hub where every market participant could trade in gas. The idea of building the gas hub is supported by the strategic geographic location of Bulgaria, the well-developed existing gas infrastructure for transmission and storage and the projects for the construction of interconnections with Romania, Turkey, Greece and Serbia.

Delays since last TYNDP

Grant Obtention Date	17/05/2017
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

Caspian Region, Russia, LNG (), Southern gas corridor gas sources; European gas hubs; Black sea shelf gas; Domestic production;

Benefits

Main Driver	Others
Main Driver Explanation	The concept for the creation of gas hub on the territory of Bulgaria is based on the idea significant quantities of natural gas from different sources to enter into a given real physical point in the region of Varna for their further transport and a venue for gas trade is organized at the same time at this point – a hub where every market participant could trade in gas. The idea of building the gas hub is supported by the strategic geographic location of Bulgaria, the well-developed existing gas infrastructure for transmission and storage and the projects for the construction of interconnections with Romania, Turkey, Greece and Serbia.
Benefit Description	The creation of a gas hub aims at building the gas transmission infrastructure required to link the natural gas markets for the EU members states in the region - Bulgaria, Greece, Romania, Hungary, Croatia, Slovenia and through them to the members states from Central and Western Europe and to the countries from the Energy Community - Serbia, Macedonia, Bosna and Herzegovina and others, thus contributing to achieving the main priorities of the European energy policy. In the context of the European objectives to build an interconnected and single pan-European marker, the realization of the projects, forming the gas hub concept, is in line with the projects for the development of the Southern gas corridor and in full compliance with the plans for development of gas infrastructure in Europe to enhance the security of supply and the diversification of natural gas supply sources.

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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Rehabilitation, Modernization and Expansion of the NTS

TRA-F-298	Project	Pipeline including CS	FID
Update Date	31/05/2018		Advanced
Description	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: Phase 1: Unifies the actions undertaken in the period 2013-2015, planned to be finalized in a short term and funded with BTG own resources and funds from the National Investment Plan. Phase 2: Includes actions initiated in 2016. They represent logic continuation of the overall realization of the project following the implementation of Phase 1. Phase 3: Conditional infrastructure necessary after taking the FID for stage 2 of the Interconnection Bulgaria – Serbia.		
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	19.4 GWh/d
	Comment: Conditional infrastructure necessary after taking the FID for stage 2 of the Interconnection Bulgaria – Serbia.				
	IBS Future Operator	2024	RS	BGn	19.4 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	13.8 GWh/d
Strandzha (BG) / Malkoclar (TR)	Bulgartransgaz EAD	2021	BGg/BGT	TRe	58.1 GWh/d

Sponsors	
Bulgartransgaz EAD	100%

General Information	
Promoter	*Bulgartransgaz EAD*
Operator	*Bulgartransgaz EAD*
Host Country	*Bulgaria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (2017-2026 Ten-year network development plan of BTG)*
NDP Number	*Section 5.5.*
NDP Release Date	*10/04/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.8.2)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		*12/2016*
Feasibility	*08/2008*	*08/2017*
FEED		
Permitting	*09/2009*	*02/2020*
Supply Contracts		
FID		
Construction	*09/2014*	*06/2021*
Commissioning	*2021*	*2024*
Grant Obtention Date	*27/04/2016*	*27/04/2016*

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%*

Enabled Projects

Project Code	Project Name
TRA-N-592	Looping CS Valchi Dol - Line valve Novi Iskar
TRA-N-593	Varna-Oryahovo gas pipeline
TRA-N-594	Construction of a Looping CS Provadia – Rupcha village
TRA-N-654	Eastring - Bulgaria
UGS-N-138	UGS Chiren Expansion
TRA-N-140	Interconnection Turkey-Bulgaria
TRA-F-137	Interconnection Bulgaria - Serbia

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, Market Integration, Security of Supply, Sustainability
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

Grant Obtention Date	27/04/2016
Delay Since Last TYNDP	yes
Delay Explanation	Fine-tuning the schedule to reflect the degree of project implementation. An update of the Implementation Schedule has been made consequently to the technical and economic analysis of the operation of the new equipment (installed during Stage 1 of the CS modernization) in connection with the second stage of the CS modernisation (Phase 2).

Expected Gas Sourcing

Algeria, Caspian Region, Russia, LNG (), 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, risk management optimization. It is directly related to the planned new interconnections with Greece (IGB), Turkey (ITB) and Serbia (IBS) as well as to the IBR (in operation already) and with the use of the UGS Chiren's capacity in relation to the project for its expansion, most of them labelled as PCIs, and 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	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*01/09/2017*
Decision Date	*10/10/2017*
Website	*CBCA URL*
Countries Affected	*Bulgaria*
Countries Net Cost Bearer	*Bulgaria*
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*
Grants for works	*Yes*
Grants for works amount	*Mln EUR 0*
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*Yes*
Comments	*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 Bulgartransgaz EAD received national funding for CS Petrich, CS Ihtiman and CS Lozenets to the total amount of EUR 26 million. For CS Strandzha, the project implementation costs of EUR 11 million were partially reimbursed. The reimbursement to the full amount of the specified in the NIP funds amounting to EUR 15 million is forthcoming.*
General Comments	*During the 2017 CEF Energy Call for proposals Bulgartransgaz EAD submitted a project proposal for works. The proposal was not recommended for funding.*

UGS Chiren Expansion

UGS-N-138	Project	Storage Facility	Non-FID
Update Date	22/05/2018		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 provides for the 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	2024	STcBGn	BGn	**48.9 GWh/d**
	Bulgartransgaz EAD	2024	BGn	STcBGn	**51.0 GWh/d**
	Bulgartransgaz EAD (SSO)	2024	STcBGn	BGn	**48.9 GWh/d**
	Bulgartransgaz EAD (SSO)	2024	BGn	STcBGn	**51.0 GWh/d**

Sponsors

Bulgartransgaz EAD	100%

General Information

Promoter	*Bulgartransgaz EAD*
Operator	*Bulgartransgaz EAD*
Host Country	*Bulgaria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2017-2026 Ten-year network development plan of BTG)*
NDP Number	*Section 5.3 (5.3.1)*
NDP Release Date	*10/04/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.20.2)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		06/2011
Feasibility	03/2015	10/2019
FEED	08/2020	11/2022
Permitting	04/2021	12/2022
Supply Contracts		
FID		
Construction	06/2021	06/2024
Commissioning	2024	2024
Grant Obtention Date	23/10/2015	23/10/2015

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%

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.	2024

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
Specific Criteria Fulfilled Comments	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 in an interconnected regional and Europe-wide market, as UGS Chiren is an integral part of the plans for development of the regional gas system consisting of interconnections, LNG terminals, storage facilities. 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

Grant Obtention Date	23/10/2015
Delay Since Last TYNDP	yes
Delay Explanation	Commissioning: 2024 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.

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 in an interconnected regional and Europe-wide market, as UGS Chiren is an integral part of the plans for development of the regional gas system consisting of interconnections, LNG terminals, storage facilities.

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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 4*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Varna-Oryahovo gas pipeline

TRA-N-593	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		Advanced
Description	Construction of new infrastructure, consisting of 844 km of gas pipeline with prevailing diameter Dn 1200 from Varna to Oryahovo (starting at a new IP at Varna to a new IP at Bulgaria/Romanian border near Oryahovo city), ensuring an additional capacity of 42,6 bcm/y (1366 GWh/d) and two new compressor stations with a total installed capacity of 265 MW securing the pressure required for transmission.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Oryahovo	Bulgartransgaz EAD	2022	BG/VAR	RO	**1,366.0 GWh/d**

Sponsors

Bulgartransgaz EAD	100%

General Information

Promoter	*Bulgartransgaz EAD*
Operator	*Bulgartransgaz EAD*
Host Country	*Bulgaria*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2017-2026 Ten-year network development plan of BTG)*
NDP Number	*Section 5.1. (5.1.1)*
NDP Release Date	*10/04/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.25.4)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		06/2022
Commissioning	2022	2022
Grant Obtention Date	17/05/2017	17/05/2017

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%

Enabled Projects

Project Code	Project Name
TRA-N-592	Looping CS Valchi Dol - Line valve Novi Iskar
TRA-N-594	Construction of a Looping CS Provadia – Rupcha village

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Varna-Oryahovo gas pipeline	a new pipeline incl. 2 CS	1,200	844	265	0
Total			**844**	**265**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The concept for the creation of gas hub on the territory of Bulgaria is based on the idea significant quantities of natural gas from different sources to enter into a given real physical point in the region of Varna for their further transport and a venue for gas trade is organized at the same time at this point – a hub where every market participant could trade in gas. The idea of building the gas hub is supported by the strategic geographic location of Bulgaria, the well-developed existing gas infrastructure for transmission and storage and the projects for the construction of interconnections with Romania, Turkey, Greece and Serbia.

Delays since last TYNDP

Grant Obtention Date	17/05/2017
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

Caspian Region, Russia, LNG (), Southern gas corridor gas sources; European gas hubs; Black sea shelf gas; Domestic production;

Benefits

Main Driver	Others
Main Driver Explanation	The concept for the creation of gas hub on the territory of Bulgaria is based on the idea significant quantities of natural gas from different sources to enter into a given real physical point in the region of Varna for their further transport and a venue for gas trade is organized at the same time at this point – a hub where every market participant could trade in gas. The idea of building the gas hub is supported by the strategic geographic location of Bulgaria, the well-developed existing gas infrastructure for transmission and storage and the projects for the construction of interconnections with Romania, Turkey, Greece and Serbia.
Benefit Description	The creation of a gas hub aims at building the gas transmission infrastructure required to link the natural gas markets for the EU members states in the region - Bulgaria, Greece, Romania, Hungary, Croatia, Slovenia and through them to the members states from Central and Western Europe and to the countries from the Energy Community - Serbia, Macedonia, Bosna and Herzegovina and others, thus contributing to achieving the main priorities of the European energy policy. In the context of the European objectives to build an interconnected and single pan-European marker, the realization of the projects, forming the gas hub concept, is in line with the projects for the development of the Southern gas corridor and in full compliance with the plans for development of gas infrastructure in Europe to enhance the security of supply and the diversification of natural gas supply sources.

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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Cyprus Gas2EU

LNG-N-1146	Project	LNG Terminal	Non-FID
Update Date	21/06/2018		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. The project focuses on two technological options: A Floating solution (FSRU) for LNG imports to Cyprus, including reception, storage and regasification for liquefied natural gas either onshore or nearshore in Cyprus. –A Gas Storage facility to facilitate a Buffer for the internal gas pipeline to EAC power station and to enable security of supply for the FSRU and other gas projects such as the PCI 7.3.1 EastMed pipeline. The CyprusGas2EU project relates to 4 options included in TYNDP that aim for the development of gas infrastructure in Cyprus which are the following: 1) CyprusGas2EU (FSRU) for LNG imports to Cyprus in Vassilikos area 2) Internal Gas Network to power stations of Moni and Dhekelia 3) LNG tank storage facility in Vassilikos area 4) Pipeline from Cyprus (Aphrodite field) to Egypt		
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	2020	LNG_Tk_CY	CY	**40.0 GWh/d**
	Comment: (the entry point provided is not the correct one)-The correct entry point is Terminal 2 of Limassol Port at Vasilikos area.				

Sponsors

General Information

Promoter	*Ministry of Energy, Commerce, Industry and Tourism*
Operator	*DESFA S.A.*
Host Country	*Cyprus*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((2) no NDP exists in the country)*
NDP Number	*NA*
NDP Release Date	
NDP Website	
Currently PCI	*Yes (7.5)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		02/2017
Feasibility	04/2017	10/2017
FEED	05/2017	12/2018
Permitting	08/2017	06/2019
Supply Contracts		
FID		
Construction	12/2018	11/2020
Commissioning	2020	2020
Grant Obtention Date		

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

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 (%)
CyprusGas2EU	No								

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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.

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	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*14/08/2017*
Decision Date	*13/10/2017*
Website	*CBCA URL*
Countries Affected	*Cyprus, Greece*
Countries Net Cost Bearer	*Cyprus*
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	
Grants for works	*Yes*
Grants for works amount	*Mln EUR 101*
Intention to apply for CEF	
Other Financial Assistance	*Yes*
Comments	*From CEF Synergy Call 2017*
General Comments	*www.Cynergy-project.eu*

Compressor Station Krummhoern

TRA-F-1271	Project	Pipeline including CS	FID
Update Date	28/02/2018		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	
CS Krummhoern extension step 1	
Open Grid Europe GmbH	100%
CS Krummhoern extension step 2	
Open Grid Europe GmbH	100%

General Information	
Promoter	*Open Grid Europe GmbH*
Operator	*Open Grid Europe GmbH*
Host Country	*Germany*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Netzentwicklungsplan Gas 2016 (German NDP 2016) and draft NDP 2018)*
NDP Number	*414-01 an 415-01*
NDP Release Date	*16/10/2017*
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
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

CS Elten

TRA-N-1254	Project	Pipeline including CS	Non-FID
Update Date	09/03/2018		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	
Open Grid Europe GmbH	50%
Thyssengas GmbH	50%

General Information	
Promoter	*Open Grid Europe GmbH and Thyssengas GmbH*
Operator	*Thyssengas GmbH*
Host Country	*Germany*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Netzentwicklungsplan 2016 (German NDP 2016) and consultation document German NDP 2018)*
NDP Number	*422/01*
NDP Release Date	*16/10/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*10/2018*	*06/2019*
FEED		
Permitting	*10/2018*	*04/2020*
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
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

CS Rimpar

TRA-N-755	Project	Pipeline including CS	Non-FID
Update Date	27/02/2018		Non-Advanced
Description	New construction of a compressor station at the existing site of Rimpar on the MEGAL gas transport system allowing the neccessary H-gas flows to the North of Germany replacing disappearing L-gas quantities.		
PRJ Code - PRJ Name	-		

Sponsors	
GRTgaz Deutschland GmbH	55%
Open Grid Europe GmbH	44%

General Information	
Promoter	*GRTgaz Deutschland GmbH*
Operator	*GRTgaz Deutschland GmbH*
Host Country	*Germany*
Status	*Planned*
Website	

NDP and PCI Information	
Part of NDP	*Yes (Netzentwicklungsplan Gas 2016 and consulation document Netzentwicklungsplan Gas 2018)*
NDP Number	*312-01*
NDP Release Date	*16/10/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	*01/2019*	*12/2019*
Supply Contracts		*04/2020*
FID		
Construction	*01/2020*	*12/2023*
Commissioning	*2023*	*2023*
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
CS Rimpar / MEGAL		0	0	39	2023
Total			**0**	**39**	

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	
Grants for works	*No*
Grants for works amount	
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	27/03/2018		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	
bayernets GmbH	55%
Open Grid Europe GmbH	45%

General Information	
Promoter	*bayernets GmbH*
Operator	*bayernets GmbH*
Host Country	*Germany*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Netzentwicklungsplan Gas 2018-2028)*
NDP Number	*036-04*
NDP Release Date	*01/04/2018*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*07/2015*	*11/2015*
FEED		
Permitting	*04/2016*	*04/2017*
Supply Contracts		*08/2017*
FID		*05/2016*
Construction	*09/2017*	*12/2019*
Commissioning	*2019*	*2019*
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%*

Enabled Projects

Project Code	Project Name
TRA-F-241	MONACO section phase I (Burghausen-Finsing)

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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Expansion MS Hetlingen

TRA-N-1200	Project	Pipeline including CS	Non-FID
Update Date	24/03/2018		Non-Advanced
Description	Connecting the measuring station Hetlingen to an additional South-North pilpeline. This optimaziation generates additional capacities for the exit in the direction of Denmark or the supply of the northern German Area (Schleswig-Holstein).		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Ellund	Gasunie Deutschland Transport Services GmbH	2019	Y-DKe	DEg	**-86.9 GWh/d**
	Gasunie Deutschland Transport Services GmbH	2019	DEg	Y-DKe	**24.0 GWh/d**
	Gasunie Deutschland Transport Services GmbH	2022	DEg	Y-DKe	**-24.0 GWh/d**

Sponsors

General Information

Promoter	*Gasunie Deutschland Transport Service GmbH*
Operator	*Gasunie Deutschland Transport Services GmbH*
Host Country	*Germany*
Status	*Planned*
Website	

NDP and PCI Information

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)*
NDP Number	*ID 503-01a*
NDP Release Date	
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	*2019*	*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%*

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

MONACO section phase I (Burghausen-Finsing)

TRA-F-241	Project	Pipeline including CS	FID
Update Date	27/03/2018		Advanced
Description	MONACO 1 is a new pipeline project with a length of 86,7 km and a daily capacity of 52.8 MCM/day, including two steering and metering stations. The pipeline has a nominal diameter of DN 1200 and a nominal pressure of MOP 100. Off-take points are located in Haiming and Finsing.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Haidach (AT) / Haidach USP (DE)	bayernets GmbH	2018	STcATn	DEn	293.8 GWh/d
	bayernets GmbH	2018	DEn	STcATn	267.1 GWh/d
Haiming 2 7F	bayernets GmbH	2018	IB-STcATmm	DEn	241.2 GWh/d
	bayernets GmbH	2018	DEn	IB-STcATmm	160.8 GWh/d
Haiming 2-RAGES/bn	bayernets GmbH	2018	STcATn	DEn	16.3 GWh/d
	bayernets GmbH	2018	DEn	STcATn	16.3 GWh/d
Überackern ABG (AT) / Überackern (DE)	bayernets GmbH	2018	AT	DEn	36.3 GWh/d
Überackern SUDAL (AT) / Überackern 2 (DE)	bayernets GmbH	2018	DEn	AT	143.4 GWh/d

Sponsors

bayernets GmbH	100%

General Information

Promoter	*bayernets GmbH*
Operator	*bayernets GmbH*
Host Country	*Germany*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Netzentwicklungsplan Gas 2018-2028)*
NDP Number	*030-02a, 030-02b*
NDP Release Date	*01/04/2018*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	03/2009	05/2009
FEED	08/2009	12/2009
Permitting	11/2013	02/2016
Supply Contracts		
FID		04/2015
Construction	10/2016	10/2018
Commissioning	2018	2018
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
Burghausen-Finsing		1,200	87		0
	Total		**87**		

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	Non existent
Delay Explanation	Because of extensive negotiations about the rights of way and the late finalisation of the approval procedure the project is, in comparison to the original planning, delayed. The commissioning will take place in October 2018. This has no impact on the planed capacity offer.

Expected Gas Sourcing

Russia, Gas storage 7Fields and gas storage Haidach

Benefits

Main Driver	Others
Main Driver Explanation	SoS and market demand to the same extent.
Benefit Description	The purpose of the pipeline is to link areas of high demand in Germany and further westwards with liquid gas sources in and through Austria (IP Überackern/Burghausen, Penta-West, WAG, MEGAL, Hub CEGH Baumgarten. It increases the flow capacity between NCG and the Austrian market area and therefore contributes to market integration and more competition by diversifying sources and routes. Moreover the pipieline will provide better access of large storages located in Autria (Haidach and 7Fields) to Germany. This connection will contribute to structure and substitute gas supply resulting from the decreasing L-Gas supply in Germany. The project therefore also contributes to Security of Supply. Finally the project serves capacity demands of existing and planned gas fired power plants in Bavaria functioning as a base load capable back up for renewables contributing to the goal of Sustainability in Europe.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Nord Stream 2

TRA-F-937	Project	Pipeline including CS	FID
Update Date	28/03/2018		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	**1,750.0 GWh/d**

Sponsors

General Information

Promoter	*Nord Stream 2 AG*
Operator	*Nord Stream 2 AG*
Host Country	*Germany*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((4) there is no obligation at national level for such a project to be part of the NDP)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	01/2012	10/2012
FEED		
Permitting	04/2013	06/2018
Supply Contracts		12/2016
FID		09/2015
Construction	02/2018	10/2019
Commissioning	2019	2019
Grant Obtention Date		

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
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.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

NOWAL - Nord West Anbindungsleitung

TRA-N-291	Project	Pipeline including CS	Non-FID
Update Date	03/08/2018		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). In the previous TYNDP, the project included more infrastructure elements. However, those are already in operation and are therefore not listed again in this overview. 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 by 260 up to a total of 500 GWh/d 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	**260.0 GWh/d**
	Comment: Level 2, on top of Level 1. In total 500 GWh/d. Increment due to upgrade of stations GDRM-Anlage Rehden and GDRM-Anlage Drohne.				

Sponsors

GASCADE Gastransport GmbH	100%

General Information

Promoter	*GASCADE Gastransport GmbH*
Operator	*GASCADE Gastransport GmbH*
Host Country	*Germany*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Netzentwicklungsplan Gas 2016-2026)*
NDP Number	*(already completed: 083-07, 409-01), 410-01 (older version compared to current draft NDP)*
NDP Release Date	*16/10/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	*01/2014*	*01/2016*
Supply Contracts		
FID		
Construction		
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%*

Enabled Projects

Project Code	Project Name
TRA-N-763	EUGAL - Europaeische Gasanbindungsleitung (European Gaslink)

Expected Gas Sourcing

VHP GASPOOL

Benefits

Main Driver	Market Demand
Main Driver Explanation	Part of the German National Development Plan 2016-2026: 083-07 (completed), 409-01 (completed), 410-01 and Part of the German National Development Plan 2018-2028: 410-01a, 410-01b
Benefit Description	Part of the German National Development Plan 2016-2026: 083-07 (completed), 409-01 (completed), 410-01 and Part of the German National Development Plan 2018-2028: 410-01a, 410-01b Ensures additional flows to NCG required due to transition from L-gas to H-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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Upgrade Sülstorf station

TRA-N-1267	Project	Pipeline including CS	Non-FID
Update Date	28/03/2018		Advanced
Description	The station Sülstorf has to be upgraded by a preheating facility and an additional measturing section in order to allow for additional flow from the pipeline NEL into the pipeline FGL 219.		
PRJ Code - PRJ Name	-		

Sponsors

- ONTRAS Gastransport GmbH
- Gasunie Deutschland GmbH & Co. KG
- NEL Gastransport GmbH
- Fluxys Deutschland GmbH

General Information

Promoter	*NGT GmbH / GUD GmbH & Co. KG / Fluxys D GmbH / ONTRAS GmbH*
Operator	*NEL Gastransport GmbH*
Host Country	*Germany*
Status	*Planned*
Website	

NDP and PCI Information

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)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*01/2017*	*01/2019*
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2019*	*2019*
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%*

Enabled Projects

Project Code	Project Name
TRA-N-763	EUGAL - Europaeische Gasanbindungsleitung (European Gaslink)

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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

ZEELINK

TRA-F-329	Project	Pipeline including CS	FID
Update Date	21/03/2018		Advanced
Description	Pipeline and compressor station project to support the changeover from low-calorific gas to high-calorific gas in Germany		
PRJ Code - PRJ Name	-		

Sponsors

CS Legden	
Open Grid Europe GmbH, Germany	75%
Thyssengas GmbH, Germany	25%
CS Würselen	
Open Grid Europe GmbH, Germany	75%
Thyssengas GmbH, Germany	25%
ZEELINK 1	
Open Grid Europe GmbH, Germany	75%
Thyssengas GmbH, Germany	25%
ZEELINK 2	
Open Grid Europe GmbH, Germany	75%
Thyssengas GmbH, Germany	25%

General Information

Promoter	*Open Grid Europe GmbH and Thyssengas GmbH*
Operator	*Open Grid Europe GmbH*
Host Country	*Germany*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Netzentwicklungsplan 2016 (German NDP 2016) and consultation document German NDP 2018)*
NDP Number	*204-02a, 205-02a, 416/02,*
NDP Release Date	*16/10/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
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)	Comissioning Year
CS Legden				26	2023
CS Würselen				39	2021
ZEELINK 1		1,000	112		2021
ZEELINK 2		1,000	115		2021
	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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Norwegian tie-in to Danish upstream system

TRA-N-394	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		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	306.8 GWh/d
		Comment: Connection to the Norwegian offshore			
Nybro	Energinet	2022	IB-NPcDKn	DK	306.8 GWh/d
			Comment: Delete peak increment		

Sponsors

General Information

Promoter	*Energinet.dk*
Operator	*Energinet*
Host Country	*Denmark*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	09/2015	12/2016
FEED	05/2018	02/2022
Permitting	01/2018	07/2019
Supply Contracts		
FID		12/2018
Construction	01/2020	10/2022
Commissioning	2022	2022
Grant Obtention Date		

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%

Enabled Projects

Project Code	Project Name
TRA-N-780	Baltic Pipe project – onshore section in Denmark

Expected Gas Sourcing

Norway

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	*27/10/2017*
Decision Date	*27/02/2018*
Website	*CBCA URL*
Countries Affected	*Denmark, Poland, Sweden*
Countries Net Cost Bearer	
Additional Comments	*The Danish NRA (DERA) approved the CBCA on the 27 February 2018. The Polish NRA (URE) approved the CBCA on the 12 March 2018.* *The Danish decision can be found here: http://energitilsynet.dk/gas/afgoerelser/tilsynsafgoerelser/2018/godkendelse-af-omkostningsfordelingen-mellem-polen-og-danmark-for-baltic-pipe-projektet/* *The Polish decision can be found here: 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*

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

Enhancement of Estonia-Latvia interconnection

TRA-F-915	Project	Pipeline including CS	FID
Update Date	28/03/2018		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	**105.0 GWh/d**
	Elering AS	2019	LV	EE	**46.4 GWh/d**

Sponsors

Karksi metering station

Elering AS	100%

Puiatu Compressor Station

Elering AS	100%

General Information

Promoter	*Elering AS*
Operator	*Elering AS*
Host Country	*Estonia*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (EESTI GAASIÜLEKANDEVÕRGU ARENGUKAVA 2018-2027)*
NDP Number	*paragraph 3.3*
NDP Release Date	*03/03/2018*
NDP Website	*NDP URL*
Currently PCI	*Yes (8.2.2)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		01/2015
Feasibility	01/2015	01/2016
FEED	05/2015	05/2016
Permitting	09/2015	06/2019
Supply Contracts		02/2018
FID		10/2016
Construction	06/2018	12/2019
Commissioning	2019	2019
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%

Enabled Projects

Project Code	Project Name
TRA-F-895	Balticconnector

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**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The Enhancement of Estonia-Latvia interconnection project, together with the Balticconnector project, will increase the security of supply of the Finnish and whole Baltic region by connecting the gas systems of Finland and Baltic countries. Bi-directionality of Estonia-Latvia interconnection point will also enable Finnish gas customers access to the Incukalns UGS in Latvia. In addition, connecting the gas systems of Baltic countries and Finland will create a positive environment for the development of regional gas market, which is also expected to increase competition in the gas market. The aim is to move to Finnish-Baltic single entry-exit zone, which has been identified as the best fit solution in the "Baltic regional gas market study".

Expected Gas Sourcing

Russia, LNG (?)

Benefits

Main Driver	Regulation-Interroperability
Main Driver Explanation	Main project driver is the operational link with the Balticconnector project
Benefit Description	

CBCA

Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*07/04/2016*
Decision Date	*22/04/2016*
Website	*CBCA URL*
Countries Affected	*Finland, Latvia*
Countries Net Cost Bearer	*Estonia*
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	
Grants for works	*Yes*
Grants for works amount	*Mln EUR 0*
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Paldiski LNG Terminal

LNG-N-79	Project	LNG Terminal	Non-FID
Update Date	28/03/2018		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	**140.0 GWh/d**
	Comment: The regasification capacity will be dependent on market demand and BalticConnector usage.				

Sponsors

Balti Gaas LLC	100%

General Information

Promoter	*Balti Gaas plc*
Operator	*Balti Gaas plc*
Host Country	*Estonia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Estonian transmission system development plan for 2018-2027)*
NDP Number	-
NDP Release Date	*03/03/2018*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		11/2008
Feasibility	01/2012	01/2016
FEED	04/2013	04/2014
Permitting	01/2008	06/2017
Supply Contracts		
FID		01/2022
Construction	11/2022	12/2025
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%

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	Phase I	1.2	160,000	13.30	160,000	Estimates	2025	25

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	SoS storage possibility for Estonia and Finland if needed. Diversification of sources, routes and counterparties for the whole region. Sustainability is improved by switching from high emissions fuels to NatGas, the adoption of biogas as well as the spot supply necessary for load balancing power plants is facilitated.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	2 years
Delay Explanation	The project is technically ready for construction, but no FID can be taken before the competing projects and govermental aid issues are solved (political decision regarding regional LNG terminal and potential financial aid to it).

Expected Gas Sourcing

LNG (?), Terminal operator is not responsible for LNG sourcing. This is done by terminal clients (TPA). The terminal has LNG quality a

Comments about the Third-Party Access Regime

The regulatory scheme applicable to this project is unclear. Since the project has a 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 (Finland, Estonia, Lativa and Lithuania)
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	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*10/08/2016*
Decision Date	*28/10/2016*
Website	*CBCA URL*
Countries Affected	*Estonia, Finland*
Countries Net Cost Bearer	
Additional Comments	*No net cost bearers were identified*

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 137*
Grants for works	*Yes*
Grants for works amount	*Mln EUR 137*
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	*The CEF funding application was declined due to unclear situation with the temporary solution in Klaipeda and lack of clarity regarding the permanent solution.*

Tallinn LNG

LNG-N-962	Project	LNG Terminal	Non-FID
Update Date	15/11/2018		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	Vopak / Elering	2022	LNG_Tk_EE	EE	**121.0 GWh/d**

Sponsors

Vopak / Vopak E.O.S.	75%
Port of Tallinn	25%

General Information

Promoter	*Vopak E.O.S. AS / Vopak LNG Holdings B.V/ Port of Tallinn AS*
Operator	*Vopak / Elering*
Host Country	*Estonia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Eesti Gaasi Ülekandevõrgu arengukava 2018-2027.)*
NDP Number	*Paragraph 3 point 7*
NDP Release Date	*03/03/2018*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		09/2012
Feasibility	01/2012	
FEED	01/2016	
Permitting	01/2012	01/2018
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 Yet
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

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, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Tallinn LNG terminal is an optimal project and only Estonian project on already exisitng (port) infrastructure and main industrial area, that: 1. Helps mitigating demand for curtailment under major import route distruption. 2. Ensures the compliance with the N-1 requirement. 3. Connects second or third gas source. 4. Contributes to the reduction of the exisiting differences in wholesale gas prices.

Delays since last TYNDP

Grant Obtention Date	
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.
Benefit Description	Reduces isolation and bottlenecks, interoperability, appropriate connections, diversification of sources, diversification of routes, sustainability.

Barriers	
Barrier Type	**Description**
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.
Market	Lack of market maturity

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Gran Canaria LNG Terminal

LNG-F-163	Project	LNG Terminal	FID
Update Date	25/06/2018		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, and 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.	2027	LNG_Tk_ESc	ESc	**41.9 GWh/d**
	Gascan	2027	LNG_Tk_ESc	ESc	**41.9 GWh/d**

Sponsors

Gascan	100%

General Information

Promoter	*Gascan*
Operator	*Gascan*
Host Country	*Spain*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Planta de regasificación de Gran Canaria)*
NDP Number	*No code in the NDP*
NDP Release Date	*01/05/2008*
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	*2027*	*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%*

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	*No*	*Gran Canaria*	*1.3*	*140*	*3,600,000.00*	*150,000*	*the commissioning year does not constitute an stimate of the start-up date*	*2027*	*100*

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Guitiriz - Lugo - Zamora pipeline

TRA-N-950	Project	Pipeline including CS	Non-FID
Update Date	15/11/2018		Advanced
Description	Construction of the Interconnector between Guitiriz, Lugo and Zamora, with a length of 318 km and 30" diameter.		
PRJ Code - PRJ Name	-		

Sponsors	
Reganosa	100%

General Information	
Promoter	*Reganosa*
Operator	*Reganosa*
Host Country	*Spain*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (PLANIFICACION ELECTRICIDAD Y GAS 2008-2016)*
NDP Number	*N/A.*
NDP Release Date	*01/05/2008*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*07/2017*	*12/2017*
FEED	*12/2017*	*12/2018*
Permitting	*11/2018*	*08/2019*
Supply Contracts		
FID		*08/2019*
Construction	*08/2019*	*11/2020*
Commissioning	*2024*	*2024*
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
Guitiriz-Lugo		750	30	0	2020
Lugo-Zamora		750	288	0	2020
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.
Benefit Description	This project is an "enabler" for the security of supply of the Northwest area in Spain.

Barriers

Barrier Type	Description
Regulatory	Lack of proper transposition of EU regulation

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Mugardos LNG Terminal: 2nd Jetty

LNG-N-296	Project	LNG Terminal	Non-FID
Update Date	09/03/2018		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	
Reganosa	100%

General Information	
Promoter	*Reganosa*
Operator	*Reganosa*
Host Country	*Spain*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*02/2015*	*12/2015*
FEED	*04/2016*	*06/2017*
Permitting	*10/2017*	*08/2018*
Supply Contracts		
FID		*08/2018*
Construction	*11/2018*	*09/2020*
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%*

Enabled Projects

Project Code	Project Name
LNG-N-297	Mugardos LNG Terminal: Storage Extension

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*	*This new jetty of the Terminal will be able to operate with a range of vessels from 1,000 m3 to 266,000m3*	*2020*	*100*

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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Mugardos LNG Terminal: Send-out Increase

LNG-N-295	Project	LNG Terminal	Non-FID
Update Date	23/02/2018		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.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Mugardos	Reganosa	2023	LNG_Tk_ESa	ES	**115.0 GWh/d**
	Reganosa (LSO)	2023	LNG_Tk_ESa	ES	**115.0 GWh/d**

Sponsors

Reganosa	100%

General Information

Promoter	*Reganosa*
Operator	*Reganosa*
Host Country	*Spain*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (PLANIFICACION ELECTRICIDAD Y GAS 2008-2016)*
NDP Number	*No Number- Name: Ampliación Planta de Reganosa. Ampliación de Emisión a 825,600 Nm3/h*
NDP Release Date	*01/05/2008*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*04/2017*	*02/2018*
FEED	*08/2018*	*11/2019*
Permitting	*03/2020*	*02/2021*
Supply Contracts		
FID		*02/2021*
Construction	*06/2021*	*09/2023*
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%*

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*	*Mugardos LNG*	*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.*	*2023*	*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	

Barriers

Barrier Type	Description
Regulatory	Capacity quotas
Market	Lack of market maturity
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Mugardos LNG Terminal: Storage Extension

LNG-N-297	Project	LNG Terminal	Non-FID Advanced
Update Date	09/03/2018		
Description	Construction of an additional storage tank with capacity of one hundred ninety thousand cubic meters of LNG.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Mugardos	Reganosa (LSO)	2022	LNG_Tk_ESa	ES	**0.0 GWh/d**

Sponsors

Reganosa	100%

General Information

Promoter	*Reganosa*
Operator	*Reganosa*
Host Country	*Spain*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*02/2015*	*12/2015*
FEED	*08/2016*	*11/2017*
Permitting	*04/2018*	*02/2019*
Supply Contracts		*02/2019*
FID		
Construction	*05/2019*	*12/2021*
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%*

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*	*Mugardos LNG*	*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.*	*2022*	*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 of 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**
Market	Lack of market maturity

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Musel LNG terminal

LNG-F-178	Project	LNG Terminal	FID
Update Date	13/09/2018		Advanced
Description	A new LNG terminal in Musel (North of Spain). Facility pending start-up authorisation by the government according to Royal Decree-Law 13/2012. Construction has been completed and Enagás Transporte expects to get the start-up authorization by 2020.		
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.	2020	LNG_Tk_ESa	ES	**0.0 GWh/d**

Sponsors

General Information

Promoter	*Enagás Transporte, S.A.U.*
Operator	*Enagas Transporte S.A.U.*
Host Country	*Spain*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (planta de regasificación de El Musel)*
NDP Number	*No code in the NDP*
NDP Release Date	*01/05/2008*
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	*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%*

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	*No*								

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Tenerife LNG Terminal

LNG-F-183	Project	LNG Terminal	FID
Update Date	25/06/2018		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.	2021	LNG_Tk_ESc	ESc	**41.9 GWh/d**
	Gascan	2021	LNG_Tk_ESc	ESc	**41.9 GWh/d**

Sponsors

Gascan	100%

General Information

Promoter	*Gascan*
Operator	*Gascan*
Host Country	*Spain*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Planta de regasificacion de Tenerife)*
NDP Number	*No code in the NDP*
NDP Release Date	*01/05/2008*
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	2021	2021
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%

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	No	Tenerife LNG	1.3	140,000	3,600,000.00	150,000	no additional comments	2021	100

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Adaptation L- gas - H-gas

TRA-N-429	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		Non-Advanced
Description	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 flexibilty is ensured by Gournay UGS and peak H-to-L conversion facility at Loon-Plage. 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. 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.		
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	BEl	FRnL	**-115.0 GWh/d**

Sponsors

Storage	
Storengy	5%
Transmission	
GRTgaz	95%

General Information

Promoter	*GRTgaz and Storengy*
Operator	*GRTgaz*
Host Country	*France*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Plan décennal de développement du réseau de GRTgaz 2017-2026)*
NDP Number	*Plan de conversion du gaz B en gaz H*
NDP Release Date	*27/11/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.21)*
Priority Corridor(s)	*NSIW*

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		12/2021
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, Market Integration, Security of Supply, Sustainability
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.

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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Reverse capacity from France to Germany at Obergailbach

TRA-N-47	Project	Pipeline including CS	Non-FID
Update Date	15/11/2018		Non-Advanced
Description	This project aims to create a reverse flow between France and Germany at the Obergailbach/Medelsheim IP. It consists in enabling a physical reverse flow from France to Germany by implementing a de-odorization facility at Obergailbach to meet German's requirements related to odorant level		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Obergailbach (FR) / Medelsheim (DE)	GRTgaz	2022	IB-FR1	Y-DEnm	**100.0 GWh/d**

Sponsors

GRTgaz	100%

General Information

Promoter	*GRTgaz*
Operator	*GRTgaz*
Host Country	*France*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Plan décennal de développement du réseau de transport de GRTgaz 2017-2026)*
NDP Number	*na*
NDP Release Date	*27/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		06/2013
Feasibility	07/2013	06/2017
FEED		
Permitting		
Supply Contracts		
FID		
Construction		11/2022
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
Obergailbach interconnection station	Enabling reverse flow and implementing a de-odorization facility				2022
Total					

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Creating a reverse flow would contribute to security of supply by enabling gas flow from France to Germany and connecting LNG terminals in France and Iberia to Germany and Central Eastern Europe markets. It will also respond to the need of more H-Gas sources in Germany in order to replace L-gas which will be strongly declining from 2016. In addition, it would improve market integration between French PEG and German NCG.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	1 year
Delay Explanation	

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	Market integration between France and Germany until now incomplete due to the absence of reverse capacity linked to different odorization practices.
Benefit Description	Creating a reverse flow would improve integration of German and French markets, and competition as a result. It would give access to LNG supplies from Atlantic and Mediterranean basins for Germany and Eastern markets

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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 0*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

White Stream

TRA-N-53	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		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 existing Trans-Balkan Pipeline, BRUA and other possible connectors to bring competitively priced gas from new sources to markets 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	2022	TM/SCP	RO *Comment: .*	**505.0 GWh/d**
South Caucasus Pipeline / White Stream	White Stream	2022	TM	TM/SCP *Comment: .*	**505.0 GWh/d**

Sponsors

W-Stream Pipeline Company Ltd	80%
Georgian Oil and Gas Corporation (GOGC)	10%
M Bryza	10%

General Information

Promoter	*White Stream Ltd*
Operator	*White Stream*
Host Country	*Georgia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		12/2011
Feasibility	09/2018	09/2019
FEED	10/2019	09/2020
Permitting	01/2020	12/2020
Supply Contracts		12/2020
FID		01/2021
Construction	06/2021	12/2022
Commissioning	2022	2022
Grant Obtention Date		

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

Enabled Projects

Project Code	Project Name
TRA-N-339	Trans-Caspian

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)	726	1,115	375	0
Vale to Supsa	Onshore	1,039	135		0
Total			**1,250**	**375**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	

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. For Germany and Austria White Stream also ensures lower transportation costs in comparison with the route via Turkey being advantageous for SEE. 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, improved security of gas supply because of the new source and new route and market integration because of enabling more competition even in Georgia (trade with the EU-internal market on swap basis).

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*TEN-E in 2008 and 2009*
General Comments	

Compressor station at Ambelia

TRA-N-1278	Project	Pipeline including CS	Non-FID
Update Date	31/10/2018		Non-Advanced
Description	The project consists in the installation of a new compressor station at Ambelia (in Central Greece).		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Kulata (BG) / Sidirokastron (GR)	DESFA S.A.	2022	GR	BGg/BGT	**60.0 GWh/d**
	DESFA S.A.	2022	BGg/BGT	GR	**54.7 GWh/d**

Sponsors

DESFA S.A.	100%

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Draft Development Plan 2017-2026)*
NDP Number	*2.1.2.3*
NDP Release Date	
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%*

Fulfilled Criteria	
Specific Criteria Fulfilled	
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	
Grants for works	*No*
Grants for works amount	
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	30/05/2018		Non-Advanced
Description	The project consists of the implementation of a 27 MW compressor 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.	2022	GR	GR/TAP	**142.0 GWh/d**

Sponsors

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (7.1.3)*
Priority Corridor(s)	*SGC*

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	*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 Messimvria to TAP				27	0
Total				**27**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
Specific Criteria Fulfilled Comments	The possibility to inject gas from the various sources supplying the Greek transmission network to TAP, provides increased security of supply and commercial options to the customers connected to the grids supplied by TAP.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Compressor station at Nea Messimvria (3rd unit)

TRA-N-1276	Project	Pipeline including CS	Non-FID
Update Date	31/10/2018		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 at the Northern (Sidirokastro) and Eastern (Kipi) import points		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Kulata (BG) / Sidirokastron (GR)	DESFA S.A.	2021	BGg/BGT	GR	**11.4 GWh/d**

Sponsors

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Draft Development Plan 2017-2026)*
NDP Number	*2.1.2.9*
NDP Release Date	
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	*2021*	*2021*
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%*

Fulfilled Criteria	
Specific Criteria Fulfilled	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Compressor Station Kipi

TRA-N-128	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		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. Depending on the variant that will be implemented the configuration will be (1+1) x 4.5 MW or (1+1) x 9.7 MW or (2+1) x 9.7 MW.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Variant : 103.20 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.	2020	TRi	IB-GRk *Comment: 3 bcm/y*	**54.4 GWh/d**
Komotini (DESFA) Bottleneck	DESFA S.A.	2020	IB-GRk	GR *Comment: 3 bcm/y*	**54.4 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.	2020	TRi	IB-GRk *Comment: 6 bcm/y*	**157.8 GWh/d**

Sponsors	
DESFA S.A.	100%

General Information	
Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Development Plan NNGS 2016-2025)*
NDP Number	*2.2.1.3*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (6.8.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
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%*

Pipelines and Compressor Stations

103.20 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.

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

Pipelines and Compressor Stations - Alternative 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.

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, Market Integration, Security of Supply
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

Grant Obtention Date	
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	

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Compressor Station Kipi Increment

TRA-N-1129	Project	Pipeline including CS	Non-FID
Update Date	31/10/2018		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	-		

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	**275.2 GWh/d**

Sponsors

DESFA S.A.	100%

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Development Plan NNGS 2016-2025)*
NDP Number	*2.2.1.3*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*SGC*

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	*Not Relevant*
Exemption in entry direction	*0.00%*
Exemption in exit direction	*0.00%*

Enabled Projects

Project Code	Project Name
TRA-N-14	Komotini-Thesprotia pipeline

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, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region, Russia, LNG ()

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

EastMed Pipeline

TRA-N-330	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		Non-Advanced
Description	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. The project consists of 5 sections connecting the following areas: Levantine basin – Cyprus –Crete- Peloponnese –West Greece-Thesprotia. 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.		
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	190.0 GWh/d
	IGI Poseidon S.A.	2025	GR/EMD	GRc	20.0 GWh/d
East Med / Cyprus (CY)	IGI Poseidon S.A.	2025	GR/EMD	CY	30.0 GWh/d
East Med / Cyprus/Israeli Production Field	IGI Poseidon S.A.	2025	NPcCY	GR/EMD	330.0 GWh/d
East Med / Peloponnesus (GR)	IGI Poseidon S.A.	2025	GR/EMD	GR	90.0 GWh/d
East Med / Thesprotia (Poseidon)	IGI Poseidon S.A.	2025	GR/IGI	GR/EMD	350.0 GWh/d

Sponsors

EastMed pipeline: from Crete to Peloponnese

IGI Poseidon SA	100%

EastMed pipeline: from Cyprus to Crete

IGI Poseidon SA	100%

EastMed pipeline: from Levantine Basin to Cyprus

IGI Poseidon SA	100%

EastMed pipeline: from Peloponnese to West Greece

IGI Poseidon SA	100%

EastMed pipeline: from West Greece to Thesprotia (tie-in with Poseidon)

IGI Poseidon SA	100%

General Information

Promoter	*Natural Gas Submarine Interconnector Greece-Italy Poseidon S.A*
Operator	*IGI Poseidon S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((4) there is no obligation at national level for such a project to be part of the NDP)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (7.3.1)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		*08/2012*
Feasibility	*05/2015*	*03/2018*
FEED	*11/2018*	*12/2020*
Permitting	*06/2018*	*06/2021*
Supply Contracts		
FID		*06/2021*
Construction	*06/2021*	*12/2024*
Commissioning	*2025*	*2025*
Grant Obtention Date	*25/01/2018*	*25/01/2018*

Third-Party Access Regime

Considered TPA Regime	*Not Applicable*
Considered Tariff Regime	*Not Applicable*
Applied for Exemption	*Not Yet*
Exemption Granted	*No*
Exemption in entry direction	*0.00%*
Exemption in exit direction	*0.00%*

Enabled Projects

Project Code	Project Name
TRA-N-10	Poseidon Pipeline

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, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market Integration The project provides significant contribution to Market Integration as it allows to interconnect Cyprus and Crete to European gas network system. Security of Supply The contribution of EastMed project to Security of Supply is particularly relevant as it provides diversification of sources, routes and counterparts, providing solutions to the disruption scenarios. An additional benefit will be provided by enabling the gasification of Cyprus, Crete and Western Greece. Competition The EastMed project will enhance market competition along the whole gas chain, including among producers. The new gas will compete, to the advantage of the consumer, with all existing supplies available in the European markets, enhancing the benefits arising from a better diversified market. Sustainability The EastMed project will provide competitive gas supply, contributing to displace power production from Coal and Oil, reducing CO2 emissions per energy unit generated.

Delays since last TYNDP

Grant Obtention Date	25/01/2018
Delay Since Last TYNDP	
Delay Explanation	Thanks to the positive outcomes of the Pre-FEED activities, co-financed by European Commission trough CEF program, the promoter has updated the project schedule increasing the accuracy of the next development activities.

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	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.
Benefit Description	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

Barriers

Barrier Type	Description
Political	A supportive political, fiscal and regulatory framework is necessary to secure the timely development of the EastMedProject.
Financing	It is going to be submitted a request to access CEF funds for feasibility studies

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
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
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
Italiy-Greece-Cyprus-Israel Working Group		Yes	01/12/2016

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 4*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	*The project has been awarded in 2015 with 2 M€ of CEF grants for the development activities related to Pre-FEED phase.* *In 2018, a second CEF grant of 34.5M€ has been awarded to the project for the development activities related to FEED Phase.*
General Comments	

Komotini-Thesprotia pipeline

TRA-N-14	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		Non-Advanced
Description	High pressure pipeline from Komotini to Thesprotia area near Ionian coast along with 2 compressor stations and 1 operation & maintenance centre.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Poseidon Greek Entry	DESFA S.A.	2024	IB-GRk	GR/IGI	**275.4 GWh/d**
	DESFA S.A.	2024	GR/IGI	IB-GRk	**80.0 GWh/d**

Sponsors

DESFA S.A.	100%

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Development Plan NNGS 2016-2025)*
NDP Number	*2.2.1.6*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*SGC*

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	*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
Komotini-Thesprotia	total length of new pipes	1,067	613	58	0
Total			**613**	**58**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Grant Obtention Date	
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 offshore project (sponsored by 3rd parties) will establish one more energy corridor between Asian, Middle Eastern and Eastern Mediterranean 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	*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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 0*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	*Financial support for studies was granted from Trans European Energy Networks, (TEN) in 2005 (Decision 2004 – G114/04 – TREN/05/TEN E – S07.51845).*
General Comments	

Metering and Regulating Station at Alexandroupoli

TRA-N-1090	Project	Pipeline including CS	Non-FID
Update Date	29/10/2018		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.	2020	GRa	IB-GRk	**268.0 GWh/d**

Sponsors	
DESFA S.A.	100%

General Information	
Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (6.9.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
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%*

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Market	Lack of market maturity

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Metering and Regulating station at Megalopoli

TRA-N-1091	Project	Pipeline including CS	Non-FID
Update Date	29/10/2018		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	**90.0 GWh/d**

Sponsors

DESFA S.A.	100%

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (7.3.1)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
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	*Not Relevant*
Exemption Granted	*Not Relevant*
Exemption in entry direction	*0.00%*
Exemption in exit direction	*0.00%*

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
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	
Grant Obtention Date	
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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Metering and Regulating station at Nea Messimvria

TRA-F-941	Project	Pipeline including CS	FID
Update Date	30/05/2018		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.	2019	GR/TAP	GR	**114.0 GWh/d**

Sponsors

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Development Plan NNGS 2016-2025)*
NDP Number	*2.2.1.5*
NDP Release Date	*27/01/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (7.1.3)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*05/2016*	*03/2018*
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2019*	*2019*
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, Market Integration, Security of Supply
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	
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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 0*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
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 5.45 million EUR.*
General Comments	

Metering and Regulating Station at UGS South Kavala

TRA-N-1092	Project	Pipeline including CS	Non-FID
Update Date	29/10/2018		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	**44.0 GWh/d**
			Comment: from storage to grid		
	DESFA S.A.	2023	IB-GRk	STcGR	**55.0 GWh/d**
			Comment: From grid to storage		

Sponsors

DESFA S.A.	100%

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (6.20.3)*
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	*No*
Exemption in entry direction	*0.00%*
Exemption in exit direction	*0.00%*

Fulfilled Criteria	
Specific Criteria Fulfilled	Market Integration, Security of Supply, Sustainability
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	
Grant Obtention Date	
Delay Since Last TYNDP	
Delay Explanation	The project schedule depends on the implementation of the UGS of South Kavala, promoted by others (HRADF). Therefore the completion date is indicative.

Expected Gas Sourcing

All sources of gas comprised in the Greek supply mix.

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	The UGS projets 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 will increase.

Barriers

Barrier Type	Description
Others	The implementation of the project depends on the implementation of the UGS South Kavala.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Nea-Messimvria to FYRoM pipeline

TRA-N-967	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		Non-Advanced
Description	The project consists of a pipeline from Nea-Messimvria to the GR/MK border allowing the supply of FYRoM 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.	2021	GR	MK	**76.5 GWh/d**

Sponsors

DESFA S.A.	100%

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Draft NDP 2017-2026)*
NDP Number	*2.1.2.2*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*NSIE*

Schedule

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2021*	*2021*
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
Nea-Messimvria to Pontoiraklia/Stojakovo		700	50		0
Total			**50**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
Specific Criteria Fulfilled Comments	

Expected Gas Sourcing

Caspian Region, LNG (DZ,WO)

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Market	Lack of market maturity

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	
Grants for works	*No*
Grants for works amount	
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 14.48 million EUR. The decision from the competent authorities is pending.*
General Comments	

Poseidon Pipeline

TRA-N-10	Project	Pipeline including CS	Non-FID Advanced
Update Date	26/02/2018		
Description	The Poseidon Pipeline project represents a valid "multi-source" option to complete the Southern Gas Corridor aiming to increase the EU security of supply. 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. 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.		
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	320.0 GWh/d
				Comment: 2nd phase	
Kipi (TR) / Kipi (GR)	IGI Poseidon S.A.	2022	TRi	IB-GRk	480.0 GWh/d
	IGI Poseidon S.A.	2025	TRi	IB-GRk	160.0 GWh/d
				Comment: 2nd phase	
Komotini (DESFA) - GR / IGB	IGI Poseidon S.A.	2022	IB-GRk	BG/IGB	95.0 GWh/d
	IGI Poseidon S.A.	2025	IB-GRk	BG/IGB	65.0 GWh/d
				Comment: 2nd phase	
Otranto - IT / IGI Poseidon	IGI Poseidon S.A.	2022	IB-ITs	GR/IGI	160.0 GWh/d
	IGI Poseidon S.A.	2022	GR/IGI	IB-ITs	380.0 GWh/d
	IGI Poseidon S.A.	2025	GR/IGI	IB-ITs	250.0 GWh/d
				Comment: 2nd phase	

Sponsors	
IGI POSEIDON S.A.	100%

General Information	
Promoter	*Natural Gas Submarine Interconnector Greece-Italy Poseidon S.A*
Operator	*IGI Poseidon S.A.*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Piano decennale di sviluppo delle reti di trasporto di gas naturale 2017-2026 (pag. 55, 56, 98))*
NDP Number	*n.a.*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (7.3.3)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*08/2017*	*01/2019*
Permitting	*08/2017*	*06/2019*
Supply Contracts		
FID		*06/2019*
Construction	*09/2019*	*09/2022*
Commissioning	*2022*	*2025*
Grant Obtention Date		

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

Enabled Projects

Project Code	Project Name
TRA-N-330	EastMed Pipeline

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Poseidon offshore section		915	210	75	2022
Poseidon onshore section		1,220	770	75	2022
Total			**980**	**150**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project creates the connection between the markets of Greece and Italy, enhancing connectivity and market integration, while promoting price convergence. Poseidon strengthens security of supply by promoting diversified sources of gas, potentially from the East Mediterranean, broadens the Southern Gas Corridor and provides reverse flow. Furthermore, by creating more liquidity the project will boost competition leading to more competitive and affordable prices in the markets concerned. The Poseidon pipeline furthers the EU's goal regarding the transition towards a low carbon economy by promoting the use of natural gas and contributing to the displacement of coal while constituting a valuable back up for renewables.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	
Delay Explanation	As a result of project promoter decision to extend Poseidon pipeline up to the Turkish-Greek border, the project development timeline has been rescheduled.

Expected Gas Sourcing

Caspian Region, Russia, 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	Market Demand
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-I 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
Protocol of Cooperation between Italy and Azerbaijan		Yes	01/12/2007
Italy-Greece-Turkey Intergovernmental Agreement		Yes	01/07/2007
Memorandum of Understanding between Greece and Turkey		Yes	01/05/2010
Joint statement of the Italian Minister of Economic Development and the Turkish Minister of Energy and Natural Resources		Yes	01/11/2009
Italy-Greece Intergovernmental Agreement		Yes	01/11/2005

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	*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.*
General Comments	

Revythoussa (2nd upgrade)

LNG-F-147	Project	LNG Terminal	FID
Update Date	28/03/2018		Advanced
Description	The projects consists of: - the upgrading of the send-out capacity from 1000 to 1400 m3/h (from 14,14 to 19,82 Nm3/d) - the upgrading of the storage capacity from 130.000 m3 to 225.000 m3 with the addition of a 3rd tank - the increase of maximum ship size from 140.000 to 260.000 m3		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Agia Triada	DESFA S.A.	2018	LNG_Tk_GR	GR	**80.4 GWh/d**
	DESFA S.A. (LSO)	2018	LNG_Tk_GR	GR	**80.4 GWh/d**

Sponsors

General Information

Promoter	*DESFA S.A.*
Operator	*DESFA S.A.*
Host Country	*Greece*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Development Plan NNGS 2016-2025)*
NDP Number	*2.2.1.7*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		*08/2018*
Commissioning	*2018*	*2018*
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%*

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 (%)
Revythoussa LNG Terminal	*No*								

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	two quarters
Delay Explanation	Delays in the contract award procedure Delays due to the capital controls imposed in Greece in July 2015 Delays due to the need to shut down the terminal in order to perform the tie-ins, in a low demand season.

Expected Gas Sourcing

LNG (DZ,WO)

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	The Revythoussa LNG Terminal plays a significant role regarding the Security of Supply of gas in Greece and the SE Europe region. The project will enhance this role along with its flexibility for serving more shippers. It will also increase the storage capacity of the terminal. The above benefits will also be felt by BG and RO through the reverse flow arrangements or new North-South interconnections

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*Yes*
Comments	*Total amount from ERDF funds 45.904 million Euro*
General Comments	

South Kavala Underground Gas Storage facility

UGS-N-385	Project	Storage Facility	Non-FID
Update Date	29/10/2018		Non-Advanced
Description	The projects consists in converting the offshore depleted gas field of South Kavala to 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	**44.0 GWh/d**
			Comment: from storage to grid		
	Hellenic Republic Asset Management Fund	2023	IB-GRk	STcGR	**55.0 GWh/d**
			Comment: from grid to storage		

Sponsors

Hellenic Republic Asset Develpment Fund (HRADF)	100%

General Information

Promoter	*Hellenic Republic Asset anagement Fund*
Operator	*Hellenic Republic Asset Management Fund*
Host Country	*Greece*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((3) the operators are not required to prepare and publish a NDP)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (6.20.3)*
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%*

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
South Kavala	*Depleted Field*	*Yes*							

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	2 years
Delay Explanation	Decision on the procedure to select the project promoter and time needed to prepare the relevant tender procedure.

Expected Gas Sourcing

Caspian Region, Russia, LNG (?), The project may source gas from all gas sources supplying or transitting Greece

Comments about the Third-Party Access Regime

At the present stage of maturity of the project the tariff regime is not known. It is possible that the project capacity might be split into a part under regulated tariff and a part under negociated access.

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	The project will enhance the national and regional (GR, BG, RO) security of supply and will help Users benefit from market oppportunities, especially in the LNG market. Given the proximity of the project location to the TAP route the benefits might also reach Italy.

Barriers

Barrier Type	Description
Market	Lack of market maturity

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Trans Adriatic Pipeline

TRA-F-51	Project	Pipeline including CS	FID
Update Date	31/05/2018		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	2019	TR/TNP	GR/TAP	350.0 GWh/d
	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3.				
Komotini - TAP / IGB	Trans-Adriatic Pipeline AG	2019	GR/TAP	BG/IGB	142.0 GWh/d
	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3.				
Melendugno - IT / TAP	Trans-Adriatic Pipeline AG	2019	AL/TAP	IB-ITs	291.0 GWh/d
	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3.				
Nea Mesimvria	Trans-Adriatic Pipeline AG	2019	GR	GR/TAP	142.0 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	2019	GR/TAP	GR	142.0 GWh/d
	Comment: GCV used for capacity calculations: 11.071 kWh/Sm3. *'ncremental capacity available for allocation is subject to a check of the system's capabilities and dependent on the capacity bookings in place.*				

Sponsors	
Snam	20%
BP	20%
SOCAR	20%
Fluxys	19%
Enagas	16%
Axpo	5%

General Information	
Promoter	*Trans Adriatic Pipeline AG*
Operator	*Trans-Adriatic Pipeline AG*
Host Country	*Greece*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (7.1.3)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*01/2008*	*03/2013*
Permitting	*09/2011*	*05/2018*
Supply Contracts		*04/2015*
FID		*12/2013*
Construction	*05/2016*	*12/2019*
Commissioning	*2019*	*2019*
Grant Obtention Date	*02/08/2017*	*02/08/2017*

Third-Party Access Regime	
Considered TPA Regime	*Negotiated*
Considered Tariff Regime	*Negotiated*
Applied for Exemption	*Yes*
Exemption Granted	*Yes*
Exemption in entry direction	*100.00%*
Exemption in exit direction	*100.00%*

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, Market Integration, Security of Supply
Specific Criteria Fulfilled Comments	Explanations enclosed.

Delays since last TYNDP

Grant Obtention Date	02/08/2017
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 Annexes.

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 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
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-ministerial agreement between Italy, Albania and Greece	An inter-ministerial agreement between Italy, Albania and Greece is required under Italian law to commence the TPA exemption application process in Italy.	Yes	27/09/2012
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

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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 3*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	*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'.*

Compressor station 1 at the Croatian gas transmission system

TRA-F-334	Project	Pipeline including CS	FID
Update Date	22/02/2018		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	**13.6 GWh/d**

Sponsors

Plinacro	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*5.1*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.5.5)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	11/2014	03/2015
FEED		
Permitting	06/2015	05/2018
Supply Contracts		01/2018
FID		12/2017
Construction	01/2018	03/2019
Commissioning	2019	2019
Grant Obtention Date		

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

Enabled Projects

Project Code	Project Name
TRA-N-86	Interconnection Croatia/Slovenia (Lučko - Zabok - Rogatec)
TRA-N-90	LNG evacuation pipeline Omišalj - Zlobin (Croatia)
TRA-N-75	LNG evacuation pipeline Zlobin-Bosiljevo-Sisak-Kozarac
TRA-N-66	Interconnection Croatia -Bosnia and Herzegovina (Slobodnica- Bosanski Brod)
TRA-N-70	Interconnection Croatia/Serbia (Slobdnica-Sotin-Bačko Novo Selo)
TRA-N-1058	LNG Evacuation Pipeline Kozarac-Slobodnica

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS 1				4	
	Total			**4**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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.

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 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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Compressor stations 2 and 3 at the Croatian gas tranmission system

TRA-N-1057	Project	Pipeline including CS	Non-FID
Update Date	22/05/2018		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	
Plinacro	100%

General Information	
Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (2018-2027)*
NDP Number	*5.3 and 5.4*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.26.1.3)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	09/2018	01/2020
Supply Contracts		
FID		10/2019
Construction	03/2020	12/2022
Commissioning	2022	2022
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%

Enabled Projects

Project Code	Project Name
TRA-N-86	Interconnection Croatia/Slovenia (Lučko - Zabok - Rogatec)
TRA-N-75	LNG evacuation pipeline Zlobin-Bosiljevo-Sisak-Kozarac
TRA-N-66	Interconnection Croatia -Bosnia and Herzegovina (Slobodnica- Bosanski Brod)
TRA-N-70	Interconnection Croatia/Serbia (Slobdnica-Sotin-Bačko Novo Selo)
TRA-F-334	Compressor station 1 at the Croatian gas transmission system

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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

Grant Obtention Date	25/04/2016
Delay Since Last TYNDP	
Delay Explanation	

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

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 4*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection Croatia/Serbia (Slobdnica-Sotin-Bačko Novo Selo)

TRA-N-70	Project	Pipeline including CS	Non-FID
Update Date	09/03/2018		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). 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	**227.5 GWh/d**
	Plinacro Ltd	2023	RS	HR	**227.5 GWh/d**

Sponsors

Croatian section

Plinacro	100%

Serbian section

Srbijagas	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.30, 1.31*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting	*01/2010*	*10/2023*
Supply Contracts		
FID		*10/2021*
Construction	*01/2022*	*10/2023*
Commissioning	*2023*	*2023*
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	*Regulated*
Considered Tariff Regime	*Regulated*
Applied for Exemption	*No*
Exemption Granted	*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
Slobodnica - Sotin	16 mcm daily-total capacity	800	97		0
Sotin- Bačko Novo Selo	I section	800	5		0
	Total		**102**		

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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection Croatia/Slovenia (Umag-Koper)

TRA-N-336	Project	Pipeline including CS	Non-FID
Update Date	23/02/2018		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 alocated 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	2027	HR	SI	**16.2 GWh/d**
	Plinacro Ltd	2027	SI	HR	**162.0 GWh/d**

Sponsors

Plinacro	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.37*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction	*04/2027*	*11/2027*
Commissioning	*2027*	*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
Umag - Plovanija (HR)- Koper (SI)	Croatian part is 8 km	300	8		0
Total			**8**		

Expected Gas Sourcing

LNG (HR), Croatian gas transmission system

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Ionian Adriatic Pipeline

TRA-N-68	Project	Pipeline including CS	Non-FID
Update Date	22/05/2018		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 Albgaz.		
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	2023	HR/IAP	AL	**33.3 GWh/d**
Ionic-Adriatic Pipeline - IAP / ME	Plinacro Ltd	2023	HR/IAP	ME	**16.6 GWh/d**
Ionic-Adriatic Pipeline - IAP / Split - HR	Plinacro Ltd	2022	HR	HR/IAP	**83.2 GWh/d**
	Plinacro Ltd	2023	HR/IAP	HR	**83.2 GWh/d**
			Comment: IT is Exit Croatia		
Ionic-Adriatic Pipeline - IAP Entry	Plinacro Ltd	2023	IB-HRi/IAP	HR/IAP	**166.5 GWh/d**
			Comment: The Entry point is from TAP in Fieri		
	Plinacro Ltd	2023	AL/TAP	IB-HRi/IAP	**166.5 GWh/d**

Sponsors

Albania	
Albgaz	100%
Croatia	
Plinacro	100%
Montenegro	
Montenegro Bonus	100%

General Information

Promoter	*Plinacro Ltd*
Operator	*Plinacro Ltd*
Host Country	*Croatia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (2018-2027)*
NDP Number	*1.12, 1.25-1.27, 5.5*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*NSIW, SGC*

Schedule	Start Date	End Date
Pre-Feasibility		01/2008
Feasibility	05/2012	02/2014
FEED		
Permitting	07/2009	01/2023
Supply Contracts		
FID		01/2019
Construction	01/2020	01/2023
Commissioning	2022	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
IAP - Croatian part	2.5 billion m3 yearly	800	250	1	0
IAP- Albanian part	1 billion m3 yearly	800	180		0
IAP- Montenego part	0.5 billion m3 yearly	800	110		0
Total			**540**	**1**	

Pipelines and Compressor Stations - Alternative Variant

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.				
Total					

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Expected Benefits: - gasification of southern part of Croatia; Bosnia and Herzegovina, Montenegro, Albania - Reverse flow capacity - introducing an environmentally acceptable energy source in the region (replacement for firewood, coal, fuel oil and complementary generation to renewable energy, and the potential for increased cogeneration and CHP) - providing diversified gas supply to the region - providing the access to Croatian and Albanian storage capacities - providing significant transit capacity and income to Albania, Montenegro and Croatia. - Reducing CO2 emissions in the region - 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

Delays since last TYNDP

Grant Obtention Date	
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, Rewerse 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	Tarrifs 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
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	Signed between Plinacro and TAP	Yes	05/02/2011
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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Városföld CS

TRA-N-123	Project	Pipeline including CS	Non-FID
Update Date	02/10/2018		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	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Vecsés MGT / FGSZ	FGSZ Ltd.	2022	HU	HUi	102.9 GWh/d
	Comment: The increment subject to ROHU Open season final result.				
	FGSZ Ltd.	2022	HUi	HU	25.9 GWh/d
	Comment: The increment subject to ROHU Open season final result.				

Sponsors

FGSZ Ltd.	100%

General Information

Promoter	*FGSZ Ltd.*
Operator	*FGSZ Ltd.*
Host Country	*Hungary*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Hungarian TYNDP 2017)*
NDP Number	*12.2.*
NDP Release Date	*28/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.4.3)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		06/2014
Feasibility	09/2016	07/2017
FEED	01/2019	01/2020
Permitting	10/2019	04/2020
Supply Contracts		05/2020
FID		03/2019
Construction	05/2020	10/2022
Commissioning	2022	2022
Grant Obtention Date	14/10/2015	14/10/2015

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%

Enabled Projects

Project Code	Project Name
TRA-N-377	Romanian-Hungarian reverse flow Hungarian section 2nd stage

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, Market Integration, Security of Supply, Sustainability
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

Grant Obtention Date	14/10/2015
Delay Since Last TYNDP	0
Delay Explanation	

Expected Gas Sourcing

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

Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	
Decision Date	*06/10/2015*
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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Vecsés-Városföld gas transit pipeline

TRA-N-831	Project	Pipeline including CS	Non-FID
Update Date	26/03/2018		Non-Advanced
Description	The aim of the project is to build a new bidirectional high pressure transit pipeline between Vecsés and Városföld to extend the Slovak-Hungarian Interconnecton into south direction. The project contributes to develop the North-South gas corridor and to increase the European energy security and to diversificate the gas supply sources and transmission routes.		
PRJ Code - PRJ Name	-		

Sponsors	
Magyar Gáz Tranzit ZRt.	100%

General Information	
Promoter	*Magyar Gáz Tranzit Zrt.*
Operator	*MGT Hungarian Gas Transit Ltd.*
Host Country	*Hungary*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (National Development Plan - MGT 10 Year Development Plan)*
NDP Number	*TRA-N-831*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (6.2.14)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction	*03/2020*	*03/2022*
Commissioning	*2022*	*2022*
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	*Regulated*
Considered Tariff Regime	*Regulated*
Applied for Exemption	*Yes*
Exemption Granted	*Yes*
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
Vecsés-Városföld	Pressure regulator at Vecsés node, hub and metering station at Városföld.,	800	80		0
Total			**80**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
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 (), Romania

Benefits

Main Driver	Market Demand
Main Driver Explanation	Security of Gas Supply New gas transit routes New gas sources Diversification of gas sources and routes
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Inisfree LNG

LNG-N-1231	Project	LNG Terminal	Non-FID
Update Date	15/11/2018		Non-Advanced
Description	The Inisfree LNG project is a LNG import project under development by NextDecade LNG, a US-based LNG project development company. The Inisfree LNG project is planned to be developed in Cork Harbour and will consist of a FSRU, offshore jetty, and a subsea pipeline connecting the project to the local natural gas transmission network operated by Gas Networks Ireland.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Cork LNG (IE)	NextDecade LNG	2022	LNG_Tk_IE	IE	**111.0 GWh/d**

Sponsors

NextDecade LNG	100%

General Information

Promoter	*NextDecade LNG*
Operator	*NextDecade LNG*
Host Country	*Ireland*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Gas Networks Ireland's 2017 Network Development Plan; approved by the Commission for Regulation of Utilities on Dec. 15, 2017 (CRU/17/340))*
NDP Number	*CER17278*
NDP Release Date	
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	*Negotiated*
Considered Tariff Regime	*Negotiated*
Applied for Exemption	*Not Yet*
Exemption Granted	*Not Yet*
Exemption in entry direction	*0.00%*
Exemption in exit direction	*0.00%*

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 (%)
Inisfree LNG	*No*								

Fulfilled Criteria

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

Expected Gas Sourcing

LNG (US)

Comments about the Third-Party Access Regime

The project intends to apply for a TPA exemption during the permitting phase

Benefits

Main Driver	Market Demand
Main Driver Explanation	Security of supply for Ireland pending Brexit
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Physical Reverse Flow on South North Pipeline

TRA-N-71	Project	Pipeline including CS	Non-FID
Update Date	21/03/2018		Non-Advanced
Description	Currently gas flow between Ireland & Northern Ireland via the South North Pipeline is uni-directional (North to South flows from the Gormanston Interconnection Point). This project will facilitate bi-directional flows on the existing South North pipeline.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
South North CSEP	Gas Networks Ireland	2023	UKn/BGI	IE	27.6 GWh/d
	Comment: PremierTransmission Ltd may also be a potential TSO under 'From TSO'				

Sponsors

Gas Networks Ireland	100%

General Information

Promoter	*Gas Networks Ireland*
Operator	*Gas Networks Ireland*
Host Country	*Ireland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Gaslink, Network development Plan 2013)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		05/2019
Feasibility	06/2019	05/2020
FEED	06/2020	05/2021
Permitting	06/2021	05/2022
Supply Contracts		
FID		
Construction	06/2022	12/2023
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)	Comissioning Year
	The work would involve compression and tie-in facilities to the Irish onshore transmission system. To be determined post feasibility study.				0
Total					

Fulfilled Criteria

Specific Criteria Fulfilled	
Specific Criteria Fulfilled Comments	

Benefits

Main Driver	Others
Main Driver Explanation	
Benefit Description	1.Physical reverse flow between Ireland and Northern Ireland is beneficial to the development of an integrated market on the island of ireland, having significant importance in the development and operation of a single gas market between both jurisdictions. 2. It would widen the market that is available to Northern Ireland gas market participants. 3. Contributes to the viability of LNG and storage projects.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Shannon LNG Terminal and Connecting Pipeline

LNG-N-30	Project	LNG Terminal	Non-FID Advanced
Update Date	20/03/2018		
Description	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. 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.		
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	**86.0 GWh/d**
	Comment: Consistent with 2.8 bcm/year under 'Type Specific Informatkon'				

Sponsors

Shannon LNG Ltd	100%

General Information

Promoter	*Shannon LNG Ltd*
Operator	*Shannon LNG*
Host Country	*Ireland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Gas Networks Ireland 2017 Network Development Plan)*
NDP Number	*3.3*
NDP Release Date	*15/12/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.3)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		05/2006
Feasibility	05/2006	09/2007
FEED	11/2017	10/2018
Permitting	09/2007	12/2010
Supply Contracts		03/2018
FID		11/2018
Construction	11/2018	04/2022
Commissioning	2022	2022
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Negotiated
Considered Tariff Regime	Negotiated
Applied for Exemption	Yes
Exemption Granted	Yes
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

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 Limited	No	Initial	2.8	265,000	7.70	200,000	.	2022	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, Market Integration, Security of Supply, Sustainability
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. However, by 2021, with the anticipated speedy decline in Corrib gas supply, Ireland's dependence will again rise above 75%. 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. The Shannon LNG project will be the closest European import terminal to the US LNG export terminals, facilitating a new source of competitive gas supplies for Europe enhancing market integration.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	2 years
Delay Explanation	Regulatory uncertainty, Low rate of return and lack of proper transposition of EU regulation.

Expected Gas Sourcing

LNG (LNG,QA,US), The United States is anticipated to be the main supply source, but the Promoter reserves the right to source outside the US

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	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. However, by 2021, with the anticipated speedy decline in Corrib gas supply, Ireland's dependence will again rise to above 75% according to Gaslink Network Development Plan 2016. 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. The project will enhance Ireland's - and Europe's, long-term diversity of entry points by providing an entirely new supply 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
Regulatory	Lack of proper transposition of EU regulation
Regulatory	Low rate of return
Financing	Availability of funds and associated conditions

CBCA

Decision	*No, we have not submitted an investment request yet, but we do plan to submit it*
Submissin Date	*30/11/2018*
Decision Date	
Website	
Countries Affected	
Countries Net Cost Bearer	
Additional Comments	*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.*

Financial Assistance

Applied for CEF	*(3) No, we have not applied for CEF*
Grants for studies	*No*
Grants for studies amount	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for work only*
Other Financial Assistance	*No*
Comments	
General Comments	

Additional Southern developments

TRA-N-9	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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	264.0 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	264.0 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

Snam Rete Gas s.p.a.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Snam Rete Gas TYNDP 2017-2026)*
NDP Number	*RN_07*
NDP Release Date	
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		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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Biomethane productions interconnection

TRA-N-1265	Project	Pipeline including CS	Non-FID
Update Date	27/03/2018		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	**39.6 GWh/d**

Sponsors

Snam Rete Gas S.p.A.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	

NDP and PCI Information

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)*
NDP Number	
NDP Release Date	
NDP 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	*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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Bordolano Second phase

UGS-F-1045	Project	Storage Facility	FID
Update Date	28/02/2018		Advanced
Description	The project is related to the conversion of the depleted reservoir of Bordolano, into a reservoir for the storage of methane gas		
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	2020	STcIT	IT	**177.1 GWh/d**
	STOGIT	2020	IT	STcIT	**103.4 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

STOGIT	100%

General Information

Promoter	*STOGIT S.p.A.*
Operator	*STOGIT*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Snam Rete Gas TYNDP 2017/2026)*
NDP Number	*NA*
NDP Release Date	*30/11/2017*
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	*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%*

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
Bordolano	*Depleted Field*	*No*	*Bordolano 2nd phase*	*757*	*16.2*	*9.5*	*90*	*NA*	*2020*

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	Increased flexibility of the system; Market integration (increase of competition and market liquidity).

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Development for new import from the South (Adriatica Line)

TRA-N-7	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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.	2025	IB-ITs	IT	**264.0 GWh/d**

Sponsors

Snam Rete Gas s.p.a.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Snam Rete Gas TYNDP 2017-2026)*
NDP Number	*RN_04*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (7.3.4)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
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	*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	2025
	Total		**430**	**33**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project fulfills also the criteria of 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.

Benefits

Main Driver	Market Demand
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*Yes*
Comments	
General Comments	

GALSI Pipeline Project

TRA-N-12	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		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.	2019	DZ	DZi/GAL	258.0 GWh/d
		Comment: Entry of GALSI International Section Increment is equivalent to 8 bcm/y			
Olbia (Galsi)	Galsi S.p.A.	2019	ITs	ITn/GAL	258.0 GWh/d
		Comment: Increment is equivalent to 8 bcm/y			
	Galsi S.p.A.	2019	ITn/GAL	ITs	32.0 GWh/d
		Comment: Equivalent to 1 bcm/y			
Piombino (Galsi)	Galsi S.p.A.	2019	ITn/GAL	IB-ITs	226.0 GWh/d
		Comment: Equivalent to 7 bcm/y			
Porto Botte (Galsi)	Galsi S.p.A.	2019	DZi/GAL	ITs	258.0 GWh/d
		Comment: Exit of GALSI International Section Increment is equivalent to 8 bcm/y			

Sponsors	
Sonatrach	47%
Edison SpA	23%
Enel Produzione SpA	17%
Hera SpA	11%

General Information	
Promoter	*Galsi S.p.A.*
Operator	*Galsi S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (SNAM NDP 2017-2026 (page 98))*
NDP Number	*n.a.*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		*12/2006*
Feasibility	*01/2006*	*12/2006*
FEED	*01/2007*	*12/2010*
Permitting	*07/2008*	*11/2018*
Supply Contracts		*11/2019*
FID		*11/2019*
Construction	*12/2019*	*12/2022*
Commissioning	*2019*	*2019*
Grant Obtention Date	*13/08/2010*	*13/08/2010*

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
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, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project will contribute to the creation of an Italian Gas Hub, by opening a more efficient route to reach the barycentre of Italian gas demand and further on the Central EU market. It will give a significant contribution to security of supply and competition for Italy and Europe. It represents a unique opportunity of a clean and sustainable energy source for Sardinia (and possibly for Corsica).

Delays since last TYNDP

Grant Obtention Date	13/08/2010
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	- 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. - 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. - Reduction of GHG emissions; the Galsi project complies with sustainable development guidelines, i.e. the promotion of the substitution of high pollutant fo

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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Gorizia plant upgrade

TRA-N-1227	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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.	2022	IT	SI	**17.3 GWh/d**
	Snam Rete Gas S.p.A.	2022	SI	IT	**44.0 GWh/d**

Sponsors

Snam Rete Gas S.p.A.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	

NDP and PCI Information

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)*
NDP Number	
NDP Release Date	
NDP 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	*No*
Exemption in entry direction	*0.00%*
Exemption in exit direction	*0.00%*

Fulfilled Criteria	
Specific Criteria Fulfilled	
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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Greece - Italy interconnection

TRA-N-1246	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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	-		

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	**357.7 GWh/d**

Sponsors

Snam Rete Gas S.p.A.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
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	*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 specific information are still to be defined at this stage				2025
Total					

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Import developments from North-East

TRA-N-8	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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
New IP North-East Italy	Snam Rete Gas S.p.A.	2034	IB-ITn	IT	**340.0 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

Snam Rete Gas s.p.a.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Snam Rete Gas TYNDP 2017-2026)*
NDP Number	*RN_06*
NDP Release Date	*30/11/2017*
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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection with production in Gela

TRA-F-1241	Project	Pipeline including CS	FID
Update Date	27/03/2018		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	**45.0 GWh/d**

Sponsors

Snam Rete Gas S.p.A.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*In Progress*
Website	

NDP and PCI Information

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)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
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
all the project	The project consists of the realization of 500 meter pipeline	500	1	0	2020
Total			**1**	**0**	

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection with Slovenia

TRA-N-354	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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	**3.6 GWh/d**

Sponsors	
Snam Rete Gas s.p.a.	100%

General Information	
Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (Snam Rete Gas TYNDP 2017-2026)*
NDP Number	*RN_03*
NDP Release Date	*30/11/2017*
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	*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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

LARINO - RECANATI Adriatic coast backbone

TRA-N-974	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		Advanced
Description	Complete the realisation of a Gas Tranportation system on Adriatic coast. The project forsees the development under 5 phases of the main backbone and the compression station. Of these 5 phases, one section is already completed and another one is under construction. - 1 Construction of 113 km 24" LARINO-CHIETI - 55 km 20" CHIETI - CELLINO (already completed and running) - 90 km 20" CELLINO - SAN MARCO (15 km completed and 75 km under construction) - Construction of 35 km 24" SAN MARCO Recanati - Construction 3 MW compression station SAN MARCO		
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	53.0 GWh/d
		Comment: Capacity values refer to the whole completed project			
	Società Gasdotti Italia	2022	ITg	IT	53.0 GWh/d
		Comment: Capacity values refer to the whole completed project			
Recanati (IT)	Società Gasdotti Italia	2022	IT	ITg	53.0 GWh/d
		Comment: Capacity values refer to the whole completed project			
	Società Gasdotti Italia	2022	ITg	IT	53.0 GWh/d
		Comment: Capacity values refer to the whole completed project			

Sponsors

General Information

Promoter	*Società Gasdotti Italia*
Operator	*Società Gasdotti Italia*
Host Country	*Italy*
Status	*In Progress*
Website	

NDP and PCI Information

Part of NDP	*Yes (Piano Decennale di sviluppo delle reti di trasporto gas naturale 2017-2026)*
NDP Number	*Dorsale Larino Recanati*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		*12/2013*
Feasibility	*01/2014*	*12/2014*
FEED	*01/2015*	*01/2015*
Permitting	*01/2015*	*12/2019*
Supply Contracts		*06/2019*
FID		*12/2018*
Construction	*03/2019*	*12/2022*
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
Cellino-San Marco	15 km completed, 75 km under construction	500	90		0
Chieti-Cellino	already completed and running	500	55		0
Larino - Chieti		600	113		0
San Marco-Recanati	Construction 3 MW compression station SAN MARCO	600	35	3	0
Total			**293**	**3**	

Benefits	
Main Driver	Regulation SoS
Main Driver Explanation	The construction of the adriatic coast pipeline will strengthen the flow capacity to SGI's network from the South. The project will enable a new connection to the Stogit's San Salvo Storage facitity and to additional potential future storage facilities planned in the area It is expected to deliver incremental capacity northward through connection to existing storage facilities (Cellino) and will complete a major integrated gas transport system in Central Italy The pipe, together with the construction of the planned compression station, will allow the return to SRG of volumes coming from Stogit San Salvo storage The project will strenghten an area where gas flows from the south and from the north merges at a relatively low pressure regime. In critical conditions this set up will face problem in meeting peak gas demand. The project will add 5 mil standard cubic meters per day to the peak gas capacity in reverse flow mode (both in the flow south/north and in the flow north/south).
Benefit Description	Increasing flexibility and allowing reverse flow along the Adriatic coasto:1) support the management of Emergency situation by Snam and 2) ensure the capability to meet increasing peak demand requirement in the area.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Matagiola - Massafra pipeline

TRA-N-1195	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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.	2025	AL/TAP	IB-ITs	**310.0 GWh/d**
Otranto - IT / IGI Poseidon	Snam Rete Gas S.p.A.	2025	GR/IGI	IB-ITs	**310.0 GWh/d**

Sponsors

Snam Rete Gas S.p.A.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Snam Rete Gas TYNDP 2017-2026)*
NDP Number	*RN_05*
NDP Release Date	*30/11/2017*
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	*2025*	*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
Matagiola - Massafra		1,400	80		2025
	Total		**80**		

Fulfilled Criteria

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	Security of supply, competitiveness, 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Porto Empedocle LNG

LNG-N-198	Project	LNG Terminal	Non-FID
Update Date	15/11/2018		Advanced
Description	The planned Porto Empedocle LNG Terminal will be located in Italy, in the Sicily Region, cadastral area of Porto Empedocle, for which the promoter received a thirty-year concession. It will consist of two underground storage tanks of 160.000 of m³ of capacity each, vaporiser pumps and other treatment facilities required to process LNG and a breakwater with mooring jetty and unloading arms. The LNG Terminal at Porto Empedocle will offer a nominal yearly regasification capacity of 8 billion m3; will be able to receive LNG tankers up to 155.000 m3 of capacity. The LNG Terminal will be able to inject the gas at the standard grid pressure (around 70 bar) and will be connected to the transmission system operated by SnamReteGas by means of a pipeline section specifically built by SnamReteGas.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Porto Empedocle LNG	Nuove Energie S.r.l.	2021	LNG_Tk_IT	IB-ITi	**301.5 GWh/d**

Sponsors

Nuove Energie Srl	100%

General Information

Promoter	*Nuove Energie S.r.l.*
Operator	*Nuove Energie S.r.l.*
Host Country	*Italy*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Piano decennale di sviluppo SNAM 2017-2026)*
NDP Number	*RN_12*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		01/2006
Feasibility	01/2006	
FEED	03/2006	09/2006
Permitting	01/2009	10/2009
Supply Contracts		
FID		10/2017
Construction	12/2018	12/2021
Commissioning	2021	2021
Grant Obtention Date		

Third-Party Access Regime	
Considered TPA Regime	Negotiated
Considered Tariff Regime	Negotiated
Applied for Exemption	Yes
Exemption Granted	Yes
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

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 (%)
Porto Empedocle LNG	No								

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market Integration: it provides a good contribution to the EU gas market integration, being the Italian system well interconnected with the rest of EU gas market, through TAG and Transitgas, with positive impact on prices, gas flows, diversification, flexibility and price convergence. Security of Supply: it provides a strong improvement of the SoS of the system, not only in Italy but also in other Member States; LNG is more diversified and flexible than gas via pipeline and it gives access to a plurality of markets and players. Sustainability: it provides additional gas-fired generation operational flexibility required by the growing intermittent renewables generation; building a terminal in Southern Italy (Sicily) would help to create new local and sutainable jobs in the area. Competition: it provides additional competitive pressure to traditional import sources (Algeria, Norway, Libya, Russia) which are becoming more important because of the indegenous production depletion

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	about 2 years
Delay Explanation	After the issues of the National Energy Strategy (SEN) in October 2017, Nuove Energie is reconsidering and reevaluating the project.

Expected Gas Sourcing

Algeria, LNG (DZ,QA,US), Nigeria, Trinindad and Tobago, Equatorial Guinea, United States

Comments about the Third-Party Access Regime

The TPA exemption has been granted as per EC Decision issued on 7.5.2012 and Italian Ministry of Economic Development Decree issued on June 6th, 2012 for 5 years . TPA exemption expired the 7.5.2017.

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Diversification: the presence of PE terminal facilitates a strong diversification of supply (in terms of both origins and counterparties) and makes Italy and Europe more resilient in case of disruption and / or increase in prices of the other gas sources System flexibility: Porto Empedocle LNG terminal is a strategic infrastructure for the supply of power technology like the CCGT plants, which provide flexibility to the electric system, also to compensate swift changes in electricity generation from intermittent renewable source. It is a matter of fact that the growing level of intermittent renewable energy sources requires more flexible operation of gas-fired power plants and that this implies a more flexible gas system
Benefit Description	The LNG terminal will provide some storage capacity within its tanks allowing to provide flexibility to the entire system and capability to cope gas emergency. The Porto Empedocle LNG terminal will represent a future platform for additional LNG services for ship bunkering and truck loading that are not currently existing in Italy.

Barriers

Barrier Type	Description
Permit Granting	The terminal is fully authorized
Financing	in the current italian market context, the PCI project status would help to finance the project
Regulatory	Low rate of return
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Sardinia Gas Transportation Network

TRA-N-975	Project	Pipeline including CS	Non-FID
Update Date	22/05/2018		Advanced
Description	Construction of an onshore Gas Tranportation Network on Sardinia island, to be supplied at least by 1 or more micro/mini/midi LNG regassification terminals with small scale LNG capabilities and/or by an offshore connection to mainland. The project forsees the development of the main backbone of the national gas transmission grid (national line) and the parallel connection of the regional lines: - Construction of 292,4 km of 16" national backbone - Additional 657 km of regional primary and secondary connections with diameter ranging from 4" to 16"		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Cagliari (IT)	Società Gasdotti Italia	2020	LNG_Tk_ITs	ITs	**17.0 GWh/d**
Oristano (IT)	Società Gasdotti Italia	2021	LNG_Tk_ITs	ITs	**7.0 GWh/d**

Sponsors

General Information

Promoter	*Società Gasdotti Italia*
Operator	*Società Gasdotti Italia*
Host Country	*Italy*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Piano decennale di sviluppo delle reti di trasporto gas naturale 2017-2026)*
NDP Number	*Metanizzazione della regione Sardegna*
NDP Release Date	*31/10/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		*06/2015*
Feasibility	*07/2015*	*07/2015*
FEED	*08/2015*	*12/2015*
Permitting	*03/2016*	
Supply Contracts		
FID		
Construction		
Commissioning	*2020*	*2021*
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
National Network backbone		400	400		0
Regional Network		250	200		0
	Total		**600**		

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	Sardinia, located off the West coast of Italy, has ca. 1.7mn inhabitants and is currently the only region in Italy that does not have a proper gas infrastructure Sassari, Nuoro, Oristano and Cagliari have already a developed local distribution network, supplied by aired LPG; local distribution companies are developing a network covering ca. 40% of the population. Additional investments would significantly improve gas penetration in the island. MSE, the Sardinia region and AEEGSI are assessing possible solutions to Sardinia's gas supply via LNG
Benefit Description	A single Sardinia price for gas - enabled by a region wide gas Network - will also bring a relevant cost reduction for Sardinia citizens and industries, whose energy prices can be as high as twice Italian average. Natural gas will replace other more polluting fossil fuels, reducing CO2 emissions, also converting coal and oil fired power stations to 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Sardinia Methanization

TRA-N-1194	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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	Snam Rete Gas S.p.A.	2020	LNG_Tk_ITs	ITs	**17.0 GWh/d**
	Snam Rete Gas S.p.A.	2025	LNG_Tk_ITs	ITs	**11.0 GWh/d**

Sponsors

Snam Rete Gas S.p.A.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Snam Rete Gas TYNDP 2017-2026)*
NDP Number	*RN_09*
NDP Release Date	*30/11/2017*
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	*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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

System Enhancements - Stogit - on-shore gas fields

UGS-F-260	Project	Storage Facility	FID
Update Date	27/03/2018		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	2027	STcIT	IT	104.3 GWh/d
	Comment: nterconnection 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.				
	STOGIT	2027	IT	STcIT	20.9 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

Stogit	100%

General Information

Promoter	*STOGIT*
Operator	*STOGIT*
Host Country	*Italy*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Snam Rete Gas TYNDP 2017-2026)*
NDP Number	*NA*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		*01/2025*
Supply Contracts		
FID		
Construction		
Commissioning	*2027*	*2027*
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%*

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
Stogit Enhancements and New Developments	*Depleted Field*	*No*	*System Enhancements - Stogit - on-shore gas fields*	*588*	*2.0*	*9.5*	*90*	*NA*	*2027*

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	Increased flexibility of the system; Market integration (increase of competition and market liquidity).

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

TAP interconnection

TRA-F-1193	Project	Pipeline including CS	FID
Update Date	31/05/2018		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.	2019	AL/TAP	IB-ITs	**509.0 GWh/d**
	Comment: This project enables the connection of the TAP entry point to the transmission network.				

Sponsors

Snam Rete Gas s.p.a.	100%

General Information

Promoter	*Snam Rete Gas S.p.A.*
Operator	*Snam Rete Gas S.p.A.*
Host Country	*Italy*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Snam Rete Gas TYNDP 2017-2026)*
NDP Number	*RN_02*
NDP Release Date	*30/11/2017*
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	*2019*	*2019*
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		2019
	Total		**55**		

Fulfilled Criteria

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

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	*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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

LNG Terminal in Klaipeda

LNG-N-824	Project	LNG Terminal	Non-FID
Update Date	30/05/2018		Non-Advanced
Description	As this pilot action of 10 year lease turned to be a success story, Klaipedos nafta decided to develop a project centred on the purchase of the FSRU Terminal, i.e. exercise the purchase option available within the pilot action's existing TCP contract. 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 would also facilitate substantially lower regasification and reload tariffs 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	**122.4 GWh/d**

Sponsors

AB Klaipėdos Nafta	100%

General Information

Promoter	*AB Klaipėdos Nafta*
Operator	*AB Klaipėdos Nafta*
Host Country	*Lithuania*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*11/2017*	*03/2018*
FEED		
Permitting		
Supply Contracts		
FID		*12/2020*
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	*Not Relevant*
Exemption in entry direction	*0.00%*
Exemption in exit direction	*0.00%*

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, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Enhanced security of natural gas supply Diversification of natural gas supply sources Full Third Party access Baltic States connection to the global gas markets Natural gas prices cap in the region LNG break bulk facility for the Baltic Sea Region Significant economic benefits created for the region

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**
Regulatory	Low or zero-priced short-term capacity
Financing	Amortization rates
Market	Lack of market maturity
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for work only*
Other Financial Assistance	*No*
Comments	
General Comments	

Enhancement of Incukalns UGS

UGS-N-374	Project	Storage Facility	Non-FID
Update Date	21/11/2018		Advanced
Description	The Incukalns Underground Gas Storage facility is the only gas storage of the East-Baltic region located within the EU. Reliable operation of Incukalns UGS is essential for the whole East-Baltic Region because considerable amount of gas in the region is used for heating, therefore, winter and summer consumption figures differ few times, and the storage is used for meeting of the gas demand during the heating season. The feasibility study revealed that beside using the storage as the seasonal storage there is high demand for flexible short term storage products and certain technical measures shall be implemented, which will lead to increasing of the daily withdraval capacity, thus improving significantly security of gas supply for the whole region. After construction of GIPL pipeline and Balticconector the market area for Incukalns will increase.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Incukalns (LV)	Conexus Baltic Grid	2020	STcLV	LV	**30.0 GWh/d**
	Conexus Baltic Grid	2024	STcLV	LV	**20.0 GWh/d**

Sponsors

JSC "Conexus Baltic Grid"	100%

General Information

Promoter	*JSC "Conexus Baltic Grid"*
Operator	*Conexus Baltic Grid*
Host Country	*Latvia*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (8.2.4)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		02/2012
Feasibility	02/2017	11/2017
FEED	09/2019	04/2020
Permitting	05/2014	12/2020
Supply Contracts		03/2022
FID		06/2019
Construction	03/2014	12/2024
Commissioning	2020	2024
Grant Obtention Date	19/05/2017	19/05/2017

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%

Enabled Projects

Project Code	Project Name
TRA-N-1181	LNG terminal in Latvia with the connecting pipe
TRA-N-382	Enhancement of Latvia-Lithuania interconnection (Latvian part)

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	50.0	20.0	60	Preject is aimed at improvement of flexibility	2024

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Project is extremely important for security of supply for the whole East-Baltic region. Since project contributes towards pressure increase in transmission system, which is essential for creation of the common market zone in the Baltic Countries and Finland, 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

Grant Obtention Date	19/05/2017
Delay Since Last TYNDP	Two years
Delay Explanation	Lack of financing and 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 Balticconector 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 improvements. Increasing liquidity though immediately available gas in s

Barriers

Barrier Type	Description
Others	Lack of socialization of costs in the Baltic Region
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

CBCA	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*25/09/2018*
Decision Date	*04/10/2018*
Website	*CBCA URL*
Countries Affected	*Latvia, Lithuania*
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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for work only*
Other Financial Assistance	*No*
Comments	*We are planning to apply for financial support for works in 2018*
General Comments	

Skulte LNG

LNG-N-912	Project	LNG Terminal	Non-FID
Update Date	15/11/2018		Non-Advanced
Description	The purpose of the project is to build cost effective LNG FRU solution which will have directly linked to Latvia Incukalns underground storage facilities providing considerable flexibility and low price spread with European gas hubs		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Skulte (LV)	AS Skulte LNG Terminal	2021	LNG_Tk_LV	LV	**150.0 GWh/d**

Sponsors

Full project	
Nacionala gazes terminala biedriba (National Gas Terminal Society)	56%
Arnfinn Unum	16%
Peter Ragauss	16%
SIA DIGAS	10%

General Information

Promoter	*AS Skulte LNG Terminal*
Operator	*AS Skulte LNG Terminal*
Host Country	*Latvia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((4) there is no obligation at national level for such a project to be part of the NDP)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		03/2015
Feasibility	03/2015	05/2016
FEED	06/2018	02/2019
Permitting	01/2019	03/2019
Supply Contracts		02/2020
FID		03/2019
Construction	03/2019	09/2021
Commissioning	2021	2021
Grant Obtention Date	01/08/2018	01/08/2018

Third-Party Access Regime	
Considered TPA Regime	Regulated
Considered Tariff Regime	Regulated
Applied for Exemption	No
Exemption Granted	No
Exemption in entry direction	100.00%
Exemption in exit direction	100.00%

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	PreFeed	1.5	170,000	17.00	700,000	All LNG will be stored in UGS	2021	30

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Provides significant decrease/elimination of price spreads with European gas hubs

Delays since last TYNDP

Grant Obtention Date	01/08/2018
Delay Since Last TYNDP	
Delay Explanation	

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Market Demand
Main Driver Explanation	Existing import entry points in the region does not provide price convergence with European gas hubs
Benefit Description	Low cost LNG terminal with direct link to UGS - provides felixibility of supply.

Barriers

Barrier Type	Description
Regulatory	Lack of proper transposition of EU regulation
Market	Lack of market maturity

CBCA

Decision	*No, we have not submitted an investment request yet, but we do plan to submit it*
Submissin Date	*01/10/2018*
Decision Date	
Website	
Countries Affected	*Estonia, Finland, Latvia, Lithuania*
Countries Net Cost Bearer	*Estonia;#Finland;#Latvia*
Additional Comments	

Financial Assistance

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

Trans-Balkan Bi-directional Flow (Moldavia phase)

TRA-N-1253	Project	Pipeline including CS	Non-FID
Update Date	29/03/2018		Non-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 — 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	Moldovatransgaz LLC	2019	UA	MD	43.1 GWh/d
			Comment: Entry to Ukraine-reverse flow		

Capacity Increments Variant(s) For Information Only

Variant : 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	Moldovatransgaz LLC	2021	UA	MD	143.5 GWh/d
			Comment: Entry to Ukraine-reverse flow		

Capacity Increments Variant(s) For Information Only

Variant : 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	Moldovatransgaz LLC	2024	UA	MD	574.1 GWh/d
			Comment: Entry to Ukraine-reverse flow		

Sponsors	
Moldovatransgaz LLC	100%

General Information	
Promoter	*Moldovatransgaz LLC*
Operator	*Moldovatransgaz LLC*
Host Country	*Moldavia*
Status	*Planned*
Website	

NDP and PCI Information	
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)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2019*	*2019*
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

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	Phase 1 - From the Ukrainian side it is necessary to reconstruct the CS and GMS Orlovka, CS Berezivka and the GMS Grebenyky. On the Moldavian side, it is necessary to reconstruct the CS Vulkaneshty and the GMS Kaushany.	1,200	320		2019
Total			**320**		

Pipelines and Compressor Stations - Alternative Variant

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.	1,200	320		2021
Total			**320**		

Pipelines and Compressor Stations - Alternative Variant

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)	1,200	320		2024
Total			**320**		

Fulfilled Criteria

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

Expected Gas Sourcing

Caspian Region, Russia, LNG (GR), Romanian gas production

Benefits

Main Driver	Market Demand
Main Driver Explanation	Romanian gas producers in Black Sea offshore fields are planning to start gas production in 2020. They are looking for ways to export gas and the project will open for them Ukranian market.
Benefit Description	

Barriers

Barrier Type	Description
Financing	Amortization rates
Financing	Availability of funds and associated conditions

CBCA

Decision	*No, we have not submitted an investment request yet, but we do plan to submit it*
Submissin Date	*02/07/2018*
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection Macedonia-Bulgaria

TRA-N-976	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		Non-Advanced
Description	Main gas pipeline section Hamzali – Novo Selo (border with Bulgaria). Within this section the following objects and systems are included: -Line part in length of 25 km with pipe diameter DN 700 (28''), -Valve stations with nominal diameter DN700, 3 pcs. -Pig Launching-Receiving station DN700, 2 pcs. -Main Measuring station Novo Selo, -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 working (operating) pressure p= 40 bars; maximum pressure (projected) pmax = 54 bars minimum pressure pmin = 25 bars -Capacity 326.000 m3/h (76,4 GWh/d)		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Novo Selo (MK) / Samuilova Krepost (BG)	MER JSC Skopje	2021	BGg/BGT	MK	**1.0 GWh/d**

Sponsors

Hamzali-Novo Selo

MER JSC Skopje	100%

section Hamzali – Novo Selo (border with Bulgaria)

Bulgartransgaz	100%

General Information

Promoter	*MER JSC Skopje*
Operator	*MER JSC Skopje*
Host Country	*North Macedonia*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Work Program of the Government of R.Macedonia)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	04/2009	07/2010
FEED		07/2010
Permitting		
Supply Contracts		
FID		
Construction		
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
Main gas pipeline section Hamzali – Novo Selo (border with Bulgaria)		700	25		0
Total			**25**		

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	
Delay Explanation	MER JSC Skopje for the first time submits its projects in the TYNDP. The possibility of delay is due to the interstate procedures and financing.

Expected Gas Sourcing

Caspian Region, Russia, The interconnection allows access to all gas sources from the neighbouring countries

Comments about the Third-Party Access Regime

The transmission tariff will be regulated according to EU regulations.

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Development of the national gasification system and hence increased consumption/demand on the market.
Benefit Description	-Security of supply -Diversification of sources -Development of the region (reversible gas pipelines)

Barriers

Barrier Type	Description
Others	Barriers regarding the realization of the project have not been encountered.

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of understanding between Macedonia and Bulgaria		No	18/05/2016

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection Macedonia-Greece

TRA-N-980	Project	Pipeline including CS	Non-FID
Update Date	22/05/2018		Non-Advanced
Description	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 transit of additional quantities of natural gas intended for Serbia. Main gas pipeline section Stip-Hamzali-Stojakovo (border with Greece) Within this section the following objects and systems are included: - Line part in length of 110 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. working (operating) pressure p= 40 bars; maximum pressure (projected)pmax = 54 bars minimum pressurepmin = 25 bars -Capacity 326.000 m3/h (76,4 GWh/day)		
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	2020	GR	MK	**76.5 GWh/d**

Sponsors	
DESFA	100%

General Information	
Promoter	*MER JSC Skopje*
Operator	*MER JSC Skopje*
Host Country	*North Macedonia*
Status	*Planned*
Website	

NDP and PCI Information	
Part of NDP	*Yes (Work Program of the Government of R.Macedonia)*
NDP Number	*N/A*
NDP Release Date	
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	*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
Stip-Hamzali-Stojakovo (border with Greece)					0
Total					

Benefits

Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of understanding between DESFA S.A. and MER JSC Skopje		No	18/05/2016

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection Macedonia-Serbia

TRA-N-965	Project	Pipeline including CS	Non-FID
Update Date	30/05/2018		Non-Advanced
Description	Main gas pipeline section Klechovce-Sopot (border with Serbia). Dimensions and capacity: Diameter: DN500 Length: 23 km Capacity (m3/day): Q= 160. 000 m3/h Working (operating), maximum and minimum pressure p= 40 bars; pmax = 54 bars, pmin = 25 bars. Data on accompanying elements of the gas pipeline: Valve stations with nominal diameter DN500: 2pcs. Pig Launching-Receiving Station DN500: 1 pcs Pig Receiving station DN500: 1 pcs. Telemetric system for monitoring Main regulation and measuring station		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Sopot (MK) / Strezovac (RS)	MER JSC Skopje	2021	RS	MK	**1.0 GWh/d**

Sponsors

General Information

Promoter	*MER JSC Skopje*
Operator	*MER JSC Skopje*
Host Country	*North Macedonia*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (Work Program of the Government of R. Macedonia)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*04/2009*	*07/2010*
FEED		*07/2010*
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2021*	*2021*
Grant Obtention Date		

Third-Party Access Regime

Considered TPA Regime	*Regulated*
Considered Tariff Regime	*Regulated*
Applied for Exemption	*Yes*
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
Main gas pipeline section Klechovce-Sopot (border with Serbia)		500	23		0
Total			**23**		

Expected Gas Sourcing

Caspian Region, Russia, The interconnection allows access to all gas sources from the neighbouring countries.

Comments about the Third-Party Access Regime

The transmission tariff will be regulated according to EU regulations.

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	Enormous development of the national gasification system and increased consumption/demand in the market
Benefit Description	-Security of supply -Diversification of sources -Development of the region (reversible gas pipelines)

Barriers

Barrier Type	Description
Permit Granting	After determining the project financing.
Others	Barriers regarding the implementation of the projects have not been encountered.

Intergovernmental Agreements

Agreement	Agreement Description	Is Signed	Agreement Signature Date
Memorandum of understanding between Macedonia and Serbia		No	18/05/2016

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Melita TransGas Pipeline

TRA-N-31	Project	Pipeline including CS	Non-FID
Update Date	21/11/2018		Advanced
Description	The project addresses PCI 5.19 'Connection of Malta to the European Gas Network — pipeline interconnection with Italy at Gela' consisting on a gas pipeline interconnection between Malta (Delimara) and Italy (Gela, Sicily) with a capacity of 2 bcm/year, diameter of 22" (DN 560) and an approximate length of 159 km (151 km offshore, 7 km onshore in Sicily and 1km onshore in Malta). The pipeline is being designed for bi-directional flow but its primary aim is to enable gas flows from Italy to Malta. The project will end Malta's isolation from the European gas network and thus contribute to integration of the gas market and improved security of energy supply, given that presently the island depends on LNG supply through shipping. It will provide access to a potentially lower cost fuel for both power generation and the inland market thereby improving competitiveness and affordability.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Delimara (Malta) to Sicily (Italy) Interconnection	Melita TransGas Co. Ltd.	2024	IB-ITi	MT	**56.0 GWh/d**
	Comment: Construction date has been shifted earlier (i.e. from 2026 to 2024) following results of the basic design study completed in June 2017.				
	Melita TransGas Co. Ltd.	2024	MT	IB-ITi	**56.0 GWh/d**
	Comment: Malta-Italy gas pipeline interconnection is desigmed with bi-directional flow capability.				

Sponsors

General Information

Promoter	*Melita TransGas Co. Ltd.*
Operator	*Melita TransGas Co. Ltd.*
Host Country	*Malta*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Malta National Reform Programme April 2017)*
NDP Number	*Section 4.3.2*
NDP Release Date	*30/04/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.19)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		04/2015
Feasibility	04/2013	04/2015
FEED	11/2018	03/2020
Permitting	11/2017	07/2020
Supply Contracts		10/2021
FID		07/2020
Construction	03/2023	05/2024
Commissioning	2024	2024
Grant Obtention Date	25/01/2018	25/01/2018

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
Delimara (Malta) to Gela (Sicily) Italy	Length of the pipeline interconnection has been updated following the results of the basic design study completed in June 2017.NOTE: With reference to the load factor figure of 22% of the pipeline stated in the PCI call submission below, it is to be note	560	159	0	2024
Total			**159**	**0**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project will contribute to market integration as it will eliminate Malta's isolation by connecting to the European gas network. It will improve Malta's security of energy supply and diversification of fuels by reducing the current dependence on imported fuel oils and LNG supply through shipping. The project will support objectives of sustainability as it will contribute to the reduction of GHG emissions by eliminating the need for liquefaction, shipping and regasification, as is the case with LNG use and will support back-up for renewable energy. It will contribute to diversification of import sources and thus enhance competition in Italy. In Malta, it will provide access to a potentially lower cost fuel for power generation and potentially for the inland market sector thereby improving competitiveness and affordability.

Delays since last TYNDP

Grant Obtention Date	25/01/2018
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.

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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 4*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*Yes*
Comments	*(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* *(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*
General Comments	

FSRU Polish Baltic Sea Coast

LNG-N-947	Project	LNG Terminal	Non-FID
Update Date	15/11/2018		Non-Advanced
Description	The FSRU Polish Baltic Sea Coast project is planned as the first floating terminal in Poland. It will come on stream in 2022 with annual regasification capacity about 4.5 bcm/y. Terminal will consist of storage tanks with the capacity of approx. 165 tcm and other equipment to be used during the loading and reloading of LNG. 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 sulfur 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.		
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.	2022	LNG_Tk_PL	PL	**138.0 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	03/2017	01/2018
FEED	10/2018	05/2019
Permitting	10/2018	12/2019
Supply Contracts		05/2020
FID		05/2019
Construction	07/2020	06/2022
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%

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	No								

Expected Gas Sourcing

LNG ()

Benefits

Main Driver	Others
Main Driver Explanation	Project driver: SoS, market demand
Benefit Description	

Barriers

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

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	
Grants for works	*Yes*
Grants for works amount	
Intention to apply for CEF	
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	15/11/2018		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 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 capacity, the Polish gas transmission system will have to be developed through extension of the Kiełczów gas node. The FID will be made after the auction of the incremental capacity in 2019 and if the economic test is positive.		
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.	2022	PL	DEg	**48.6 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP 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
Kiełczów node - modernisation					0
	Total				

Benefits

Main Driver	Market Demand
Main Driver Explanation	The incremental process regarding extension of the GCP GAZ-SYSTEM/ONTRAS capacity has been started due to the interest of market participants in the incremental capacity in the given point.
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

North - South Gas Corridor in Eastern Poland

TRA-N-245	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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. Hermanowice – Strachocina pipeline and Gustorzyn-Wronów pipeline are planned to be comissioned by 2022. The other investments are planned by 2027.		
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.	2022	DScPL	PL	**0.0 GWh/d**
	Comment: The is an internal project which is planned to be connected to PL-SK, PL-UA interconnections				

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (6.2.2)*
Priority Corridor(s)	*NSIE*

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%*

Enabled Projects

Project Code	Project Name
TRA-F-275	Poland - Slovakia Gas Interconnection (PL section)
TRA-N-621	Poland - Ukraine Gas Interconnection (PL section)

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Gustorzyn-Wronów pipeline		1,000	316		0
Hermanowice-Jarosław pipeline		700	39		0
Hermanowice-Strachocina pipeline		700	72		0
Jarosław - Rozwadów pipeline		700	60		0
Rembelszczyzna-Wronów pipeline		1,000	135		0
Rozwadów-Końskowola-Wronów pipeline		700	103		0
	Total		**725**		

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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
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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*Yes*
Comments	*Structural Funds (Operational Programme Infrastructure and Environment 2014-2020) - Hermanowice - Strachocina pipeline.*
General Comments	

North - South Gas Corridor in Western Poland

TRA-F-247	Project	Pipeline including CS	FID
Update Date	30/03/2018		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.	2020	DScPL	PL	**0.0 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (6.2.11)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	09/2013	08/2017
Permitting	11/2014	08/2017
Supply Contracts		
FID		11/2017
Construction		
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%

Enabled Projects

Project Code	Project Name
TRA-N-273	Poland - Czech Republic Gas Interconnection (PL section)

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
CS Kędzierzyn				30	0
CS Odolanów				34	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**	**64**	

Fulfilled Criteria	
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project is an internal enabler for PL-CZ interconnection. Its implementation will have an impact on: Market integration: - Creation of a well-integrated and functioning market in the CEE region. SoS: - Mitigation of effects resulting from supply disruptions in the CEE countries; - Reduction of dependence on gas supplies from Russia in the CEE region; - Enhanced security of supply with an improved supply link in the CEE region to the European gas market, global LNG supplies, deliveries of gas from Norway. Competition: - Reduction of price differences between the CEE and North-West regions; - Enhanced access to new sources of supply in the CEE region (LNG, Norway, supplies from the EU market) that improves competition not only in PL but also in the whole CEE region. Sustainability - Reduction of emissions in the CEE region by promoting natural gas in national economies.

Benefits	
Main Driver	Others
Main Driver Explanation	The project is driven by SoS and market demand considerations
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.

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.

CBCA	
Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	*31/10/2013*
Decision Date	*24/06/2014*
Website	*CBCA URL*
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*Yes*
Comments	*Structural Funds (Operational Programme Infrastructure and Environment 2014-2020): - Tworóg - Kędzierzyn-Koźle; - Zdzieszowice- Wrocław. Zdzieszowice- Wrocław: TEN-E: " Studies and preinvestment works related to the utilization and further development possibilities of the Interconnector Poland - Czech Republic"*
General Comments	

UGS Damasławek

UGS-N-914	Project	Storage Facility	Non-FID
Update Date	15/11/2018		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.		
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	**200.0 GWh/d**
	GAZ-SYSTEM S.A.	2026	PL	STcPL	**100.0 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*GAZ-SYSTEM S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
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	*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%*

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*							

Benefits

Main Driver	Others
Main Driver Explanation	Project drivers: SoS, market demand
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Upgrade of LNG terminal in Świnoujście

LNG-F-272	Project	LNG Terminal	FID
Update Date	15/11/2018		Advanced
Description	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: - Additional submerged combustion vaporizers (SCVs); - Third LNG storage tank of min 160.000 cm LNG; - Second jetty; - Rail loading terminal; 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.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Swinoujscie	GAZ-SYSTEM S.A.	2023	LNG_Tk_PL	PL	**76.6 GWh/d**
	Polskie LNG S.A.	2023	LNG_Tk_PL	PL	**76.6 GWh/d**

Sponsors

Gas Transmission Operator GAZ-SYSTEM S.A.	100%

General Information

Promoter	*GAZ-SYSTEM S.A.*
Operator	*Polskie LNG S.A.*
Host Country	*Poland*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (National Ten-Year Transmission System Development Plan 2018-2027)*
NDP Number	*N/A*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (8.7)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*04/2015*	*12/2017*
FEED	*12/2017*	*06/2018*
Permitting		
Supply Contracts		
FID		*01/2018*
Construction	*06/2018*	*01/2023*
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%*

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	*No*								

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	SoS - Diversification of supply sources, routes and counterparts by enhancing the access to the global LNG market; - Reduction of dependence on a single supply source in PL and other countries in the BEMIP region; - Mitigation of exposure to supply disruptions from the East in the BEMIP and CEE regions; - Development of small scale services that supply isolated gas systems. 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 and LNG in the transport sector and the industry.

Benefits

Main Driver	Others
Main Driver Explanation	Implementation of the project is driven by SoS and market demand considarations
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 committments to enable the investment decision for the infrastructure operator. It could be mitgated by external susbisdies (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).
Regulatory	Capacity quotas
Regulatory	Low rate of return
Financing	Availability of funds and associated conditions
Market	Lack of market maturity

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

Carregado Compressor Station

TRA-N-320	Project	Pipeline including CS	Non-FID
Update Date	22/05/2018		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), TRA-N- 284 3rd IP between Portugal and Spain (Compressor Station) and TRA-N-285 3rd IP between Portugal and Spain (pipeline Cantanhede-Mangualde).		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Sines	REN - Gasodutos, S.A.	2024	LNG_Tk_PT	PT	**92.8 GWh/d**
	Comment: Incremental capacity in pipeline network from Sines LNG regaseification.				

Sponsors

REN Gasodutos, SA	100%

General Information

Promoter	*REN-Gasodutos, S.A.*
Operator	*REN - Gasodutos, S.A.*
Host Country	*Portugal*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (PDIRGN 2017)*
NDP Number	-
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	09/2008	01/2010
FEED	08/2010	11/2010
Permitting		
Supply Contracts		
FID		
Construction		12/2022
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%

Enabled Projects

Project Code	Project Name
TRA-N-283	3rd IP between Portugal and Spain (pipeline Celorico-Spanish border)
TRA-N-284	3rd IP between Portugal and Spain (Compressor Station)
TRA-N-285	3rd IP between Portugal and Spain (pipeline Cantanhede-Mangualde)

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	0
Total				**14**	

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	3 years
Delay Explanation	Demand forecasts decrease due to the economic and financial context in Portugal and in the EU. Decrease in the demand for the CCGTs due to the low prices of the CO2 emissions.The investment in this infrastructure should be decided by 2018, with the commissioning to occur by the end of 2021.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, TRA-N-284, TRA-N-285).

Expected Gas Sourcing

LNG (DZ,NO,QA,US,WO,YE)

Benefits

Main Driver	Market Demand
Main Driver Explanation	
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 intermitent 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 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Azerbaijan, Georgia, Romania Interconnector - AGRI

LNG-N-376	Project	LNG Terminal	Non-FID
Update Date	26/03/2018		Non-Advanced
Description	The solution for the transmission of natural gas from Caspian region through the territory of Azerbaijan and Georgia, its liquefaction and transportation via Black Sea to Romania and Hungary and potentially to other European markets; Romania and Hungary as EU Member State Support this project being involved as shareholder in the project company (the promoter of this project). As a "standby LNG project", AGRI will implement and operate the LNG portion: - the "natural gas the liquefaction Facilities") on Georgian Shore; - transport of LNG from Georgian shore to Romanian shore; - the "natural Re-gasification terminal" on Romanian Shore.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
AGRI / Constanta (RO)	AGRI	2026	GEa	RO	**240.0 GWh/d**
			Comment: Regazification terminal		
AGRI / Poti (GE)	AGRI	2026	TM/SCP	GEa	**240.0 GWh/d**
			Comment: Liquefaction terminal		

Sponsors	
GOGC (GE)	25%
SOCAR (AZ)	25%
MVM (HU)	25%
ROMGAZ (RO)	25%

General Information	
Promoter	*AGRI LNG Project Company SRL (RO)*
Operator	*AGRI*
Host Country	*Romania*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*No ((4) there is no obligation at national level for such a project to be part of the NDP)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	*NSIE, SGC*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	*06/2012*	*04/2015*
FEED	*01/2019*	*04/2020*
Permitting	*01/2018*	*09/2019*
Supply Contracts		*10/2022*
FID		*11/2020*
Construction	*06/2022*	*08/2026*
Commissioning	*2026*	*2026*
Grant Obtention Date		

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%*

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 (%)
AGRI - Regazification Terminal	*No*	*AGRI*	*8.0*	*280,000*	*22.00*	*160,000*	*2 ships of 140000*	*2026*	*80*

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Diversification of supply sources

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	
Delay Explanation	longer process for deciding the next steps of the Project

Expected Gas Sourcing

Caspian Region, LNG (GE)

Benefits

Main Driver	Others
Main Driver Explanation	Diversification of supply sources; New Markets competition; Market demand
Benefit Description	Links EU market with Azerbaijan (Caspian) gas source by the most direct route wich avoids sole reliance on pipelines. .

Barriers

Barrier Type	Description
Permit Granting	long duration for obtaining permits
Market	market further integration with the local Project is required
Financing	Availability of funds and associated conditions
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Depomures

UGS-N-233	Project	Storage Facility	Non-FID Advanced
Update Date	28/03/2018		
Description	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. The implementation of the first stage has already been initiated with a partial investment finalized in Q1 2018, while the FID for the entire phase I of the development project is expected in 2018.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Targu Mures	Depomures	2020	STcRO	RO	**18.9 GWh/d**
	Depomures	2020	RO	STcRO	**18.9 GWh/d**
	Depomures	2023	STcRO	RO	**15.8 GWh/d**
	Depomures	2023	RO	STcRO	**15.8 GWh/d**

Sponsors

GDF International	59%

General Information

Promoter	*Engie Romania SA*
Operator	*Depomures*
Host Country	*Romania*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((2) no NDP exists in the country)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (6.20.4)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		06/2004
Feasibility	06/2008	06/2009
FEED	06/2011	06/2012
Permitting	06/2012	09/2017
Supply Contracts		12/2018
FID		06/2018
Construction	07/2015	03/2023
Commissioning	2020	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%

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	N/A	2020
Targu Mures	Depleted Field	No	Phase 2	200	1.5	1.5	100	N/A	2023

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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 is even more important in a low infrastructure scenario, in which the N-1 indicator is below 100% and in which the additional storage capacity of Depomures would partially compensate a malfunction at Mediesu-Aurit/ Isaccea gas entry point from Ukraine to Romania. - The remaining flexibility indicator shows that the project successfully contributes to increasing resilience in case of additional demand in almost all scenarios with impact on Romania, Bulgaria, Hungary, Italy, Greece and Croatia. The impact is most visible in extreme scenarios such as Ukraine disruption with 2 week cold spell. - The project contributes to a decrease of the disrupted demand in two Members States, namely Romania and Bulgaria, and also in the FYR of Macedonia (although not a Member State) in most scenarios.

Delays since last TYNDP

Grant Obtention Date	
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 at the end of 2017.

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	Market Integration The Project successfully contributes to increasing resilience in case of additional demand in almost all disruption scenarios with positive impact on Romania, Bulgaria, Hungary, Italy, Greece and Croatia. Thus, indirectly it contributes to a more integrated gas market. Sustainability It replaces existing rather obsolete gas compression facilities with modern and high-efficiency technology (new electro-compressors etc.) which will reduce emissions currently generated by the compression services supplied by the third party. Competition The implementation of this 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. After project COD, the market share of the private sector would increase proportionally.

Barriers

Barrier Type	Description
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.
Regulatory	Low or zero-priced short-term capacity
Regulatory	Low rate of return
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	
Grants for works	*No*
Grants for works amount	
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 I

TRA-F-358	Project	Pipeline including CS	FID
Update Date	15/11/2018		Advanced
Description	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: • Podişor – Recaş 32" x 63 bar gas transmission pipeline approximately 479 km long; • three gas compressor stations (Podişor CS, Bibeşti CS and Jupa CS), each station being equipped with two compressors, with the possibility to ensure bi-directional gas flow. After the implementatiopn of the project the following transmission capacities will be ensured: • 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.	2019	RO	HU	**50.6 GWh/d**
Ruse (BG) / Giurgiu (RO)	SNTGN Transgaz S.A.	2019	RO	BGn	**29.6 GWh/d**

Sponsors

SNTGN Transgaz S.A.	100%

General Information

Promoter	*SNTGN Transgaz S.A.*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Development Plan for the National GTS 2017-2026)*
NDP Number	*7.1*
NDP Release Date	*22/06/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.1.2)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		12/2013
Feasibility	01/2014	12/2014
FEED	07/2015	02/2017
Permitting	01/2014	02/2018
Supply Contracts		08/2017
FID		11/2016
Construction	12/2017	12/2019
Commissioning	2019	2019
Grant Obtention Date	09/09/2016	09/09/2016

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%

Enabled Projects

Project Code	Project Name
TRA-N-362	Development on the Romanian territory of the Southern Transmission Corridor

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Phase I: Podisor-Recas		800	479	28	2019
Podisor - Horia		1,626	1,056	100	
	Total		**1,535**	**128**	

Fulfilled Criteria

Specific Criteria Fulfilled	Security of Supply
Specific Criteria Fulfilled Comments	Phase I – Security of supply

Delays since last TYNDP

Grant Obtention Date	09/09/2016
Delay Since Last TYNDP	Stage 1- 9 months delay in commissioning Stage 2 – 21 months in commissioning
Delay Explanation	Phase I – on time. FID taken in November 2016. Comissioning in 2019

Expected Gas Sourcing

Caspian Region, LNG (), Black Sea

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Regulatory	The Competent Authority to coordinate all permit granting processes is not yet functional in Romania.

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 2*
Grants for works	*Yes*
Grants for works amount	*Mln EUR 179*
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

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

TRA-N-1322	Project	Pipeline including CS	Non-FID
Update Date	21/06/2018		Advanced
Description	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: • Podişor – Recaş 32" x 63 bar gas transmission pipeline approximately 50 km long; • extension of the three gas compressor stations (Podişor CS, Bibeşti CS and Jupa CS) by mounting an additional compressor in each station; • extension of the Horia GMS . After the implementatiopn of the project the following transmission capacities will be ensured: • towards Hungary: 4.4 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.	2022	HU	RO	**78.1 GWh/d**
	SNTGN Transgaz S.A.	2022	RO	HU	**75.9 GWh/d**

Sponsors

SNTGN Transgaz SA	100%

General Information

Promoter	*SNTGN Transgaz SA*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (2017- 2026 TYNDP)*
NDP Number	*7.1*
NDP Release Date	*22/06/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.4.4)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		12/2013
Feasibility	01/2014	09/2015
FEED	07/2015	03/2018
Permitting	01/2016	
Supply Contracts		
FID		12/2018
Construction	01/2021	12/2022
Commissioning	2022	2022
Grant Obtention Date	18/05/2015	18/05/2015

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%

Enabled Projects

Project Code	Project Name
TRA-N-362	Development on the Romanian territory of the Southern Transmission Corridor
TRA-N-1268	Romania-Serbia Interconnection

Pipelines and Compressor Stations

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

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Sustainability
Specific Criteria Fulfilled Comments	Market integration, Sustainability, Competition

Delays since last TYNDP

Grant Obtention Date	18/05/2015
Delay Since Last TYNDP	
Delay Explanation	Due to the calendar of the Open Season procedure for 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 2*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Development on the Romanian territory of the Southern Transmission Corridor

TRA-N-362	Project	Pipeline including CS	Non-FID
Update Date	28/02/2018		Advanced
Description	The pipeline with a total length of approximately 308,2 km, is a telescopic pipeline made up of two sections and designed to transmit gas at a pressure of 63 bar. The two pipeline sections are: • Section I, Black Sea shore – Amzacea, with a length of 32,5 km, will have a diameter of Ø 48" (Dn1200); • Section II, Amzacea – Podișor, with a length of 275,7 km, will have a diameter of Ø 40" (Dn1000);		
PRJ Code - PRJ Name	-		

Sponsors

A	
SNTGN Transgaz SA	100%
Default	
ROMGAZ (RO)	25%
GOGC (GE)	25%
MVM (HU)	25%
SOCAR (AZ)	25%

General Information

Promoter	*SNTGN Transgaz SA*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (The National Gas Transmission System Development Plan 2017-2026)*
NDP Number	*7.2*
NDP Release Date	*22/06/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.4.5)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		06/2014
Feasibility	07/2014	01/2016
FEED	06/2016	02/2018
Permitting	01/2015	05/2018
Supply Contracts		
FID		06/2018
Construction	01/2019	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	Not Relevant
Exemption in entry direction	0.00%
Exemption in exit direction	0.00%

Enabled Projects

Project Code	Project Name
TRA-F-358	Development on the Romanian territory of the NTS (BG–RO-HU-AT)-Phase I

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		2020
Total			**308**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Security of supply, Market Integration, Sustainability, Competition

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.

Barriers

Barrier Type	Description
Regulatory	Changes in national/EU legislation whcih may impact the implementation of the project.
Permit Granting	Long and complicated process requiring also the obtaining of the right of way
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
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	15/11/2018		Non-Advanced
Description	Development of gas transmission capacity on the Oneşti – Coroi – Haţeg – 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: ▯ the rehabilitation of some of the NTS existing pipelines; ▯ replacement of some of the NTS existing pipelines with new pipelines or the building of new pipelines installed in parallel with the existing ones; ▯ 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	**128.7 GWh/d**
	SNTGN Transgaz S.A.	2023	RO	HU	**128.7 GWh/d**

Sponsors

SNTGN Transgaz SA	100%

General Information

Promoter	*SNTGN Transgaz SA*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (The National Gas Transmission System Development Plan 2017-2026)*
NDP Number	*7.5*
NDP Release Date	*22/06/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.10.2)*
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, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market Integration, Security of Supply, Sustainability, Competition

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Interconnection of the NTS with the DTS and reverse flow at Isaccea

TRA-N-139	Project	Pipeline including CS	Non-FID
Update Date	19/03/2018		Advanced
Description	The project consists in the following: • Phase I: - 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: - 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	
Transgaz	100%

General Information	
Promoter	*SNTGN Transgaz SA*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (The National Gas Transmission System Development Plan 2017-2026)*
NDP Number	*7.3*
NDP Release Date	*22/06/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.10.1)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		*12/2013*
Feasibility	*12/2016*	*04/2017*
FEED	*05/2017*	*06/2018*
Permitting	*03/2017*	*07/2018*
Supply Contracts		
FID		*06/2018*
Construction	*12/2018*	*12/2019*
Commissioning	*2019*	*2019*
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%*

Enabled Projects

Project Code	Project Name
TRA-N-959	Further enlargement of the BG—RO—HU—AT transmission corridor (BRUA) phase 3

Fulfilled Criteria

Specific Criteria Fulfilled	Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Security of supply, Market Integration, Sustainability

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	12 months
Delay Explanation	

Expected Gas Sourcing

Black Sea

Benefits

Main Driver	Regulation-Interroperability
Main Driver Explanation	
Benefit Description	

Barriers

Barrier Type	Description
Regulatory	The Competent Authority to coordinate all permit granting processes is not yet functional in Romania.
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	
Grants for works	*No*
Grants for works amount	
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-N-964	Project	Pipeline including CS	Non-FID
Update Date	09/03/2018		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	
SNTGN Transgaz SA	100%

General Information	
Promoter	*SNTGN Transgaz SA*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	

NDP and PCI Information	
Part of NDP	*Yes (The National Gas Transmission System Development Plan 2017-2026)*
NDP Number	*7.6*
NDP Release Date	*22/06/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.24.10.3)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		*09/2016*
Feasibility	*10/2016*	*05/2017*
FEED	*08/2017*	*01/2018*
Permitting	*03/2017*	*12/2017*
Supply Contracts		*10/2018*
FID		
Construction	*11/2018*	*07/2019*
Commissioning	*2019*	*2019*
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%*

Enabled Projects

Project Code	Project Name
TRA-N-139	Interconnection of the NTS with the DTS and reverse flow at Isaccea
TRA-N-357	NTS developments in North-East Romania
TRA-N-959	Further enlargement of the BG—RO—HU—AT transmission corridor (BRUA) phase 3

Pipelines and Compressor Stations

Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	Comissioning Year
Vadu-Gradina		508	25		2019
	Total		**25**		

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market integration, SoS, Sustainability, Competition

Expected Gas Sourcing

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 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

NTS developments in North-East Romania

TRA-N-357	Project	Pipeline including CS	Non-FID
Update Date	28/02/2018		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.	2019	RO	MD	**42.1 GWh/d**

Sponsors

SNTGN Transgaz S.A.	100%

General Information

Promoter	*SNTGN Transgaz SA*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (The National Gas Transmission System Development Plan 2017 - 2026)*
NDP Number	*7.4*
NDP Release Date	*22/06/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		02/2014
Feasibility	02/2014	01/2018
FEED	01/2016	01/2018
Permitting	01/2016	01/2018
Supply Contracts		
FID		04/2018
Construction	06/2018	10/2019
Commissioning	2019	2019
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 - Gheraesti - Letcani		711	165	18	2019
	Total		**165**	**18**	

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	
Delay Explanation	Delays in obtaining the necessary approvals, permits and authorizations

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

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Romania-Serbia Interconnection

TRA-N-1268	Project	Pipeline including CS	Non-FID
Update Date	15/11/2018		Non-Advanced
Description	The project implies the construction of a 97 km long gas transmission pipeline DN 600 x 63 bar with the connection point from the BRUA pipeline in the area of Petrovaselo, the county of Timiș. In the connection point a pig launching/receiving station will be installed. On the territory of Romania the pipeline is 84,6 km long, a Gas Metering Station, 18 block valves and two pig launching/receiving stations, one in the Petrovaselo direction and on 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	**46.3 GWh/d**
	SNTGN Transgaz S.A.	2020	RS	RO	**46.3 GWh/d**

Sponsors

SNTGN Transgaz SA	100%

General Information

Promoter	*SNTGN Tranzgaz SA*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (THE NATIONAL GAS TRANSMISSION SYSTEM DEVELOPMENT PLAN 2017-2026)*
NDP Number	*7.7*
NDP Release Date	*22/06/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		02/2018
Feasibility	02/2018	08/2018
FEED	03/2018	12/2018
Permitting	03/2018	12/2018
Supply Contracts		
FID		10/2018
Construction	10/2018	04/2019
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
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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

Sarmasel undeground gas storage in Romania

UGS-N-371	Project	Storage Facility	Non-FID
Update Date	01/08/2018		Non-Advanced

Description

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 to10 million cm/day and an increased injection rate of up to 10 million cm/day.

The required investment consists of:
- 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.

The geological suitability is backed up by existing reservoir studies.
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.

PRJ Code - PRJ Name

-

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Sarmasel	S.N.G.N. Romgaz S.A.	2024	STcRO	RO	**34.0 GWh/d**
	S.N.G.N. Romgaz S.A.	2024	RO	STcRO	**42.0 GWh/d**

Sponsors

SNGN ROMGAZ S.A.	100%

General Information

Promoter	*Societatea Naţională de Gaze Naturale ROMGAZ S.A.*
Operator	*S.N.G.N. Romgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((5) others - please comment below)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (6.20.6)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		06/2016
Feasibility	05/2018	05/2019
FEED	08/2019	06/2020
Permitting	06/2019	08/2020
Supply Contracts		12/2020
FID		10/2020
Construction	02/2021	10/2024
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%

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	Market Integration, Security of Supply
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

Grant Obtention Date	
Delay Since Last TYNDP	FID has changed from Q1 2018 to 01/01/2019
Delay Explanation	The commissioning deadline was changed to 2024. The change occurred due to:(a) the need to correlate the development of storage system with NTS development directions (stages of NTS and interconnections HU, BG and RS, changes in the status of transit lines, clarifications on gas sources for the entire NTS), (b) upcoming monetisation of Black Sea developments , (c) the impact on the financial results generated from the evolution of the gas price on the market which caused a drop in storage services demand..

Expected Gas Sourcing

Romania

Benefits

Main Driver	Regulation SoS
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	- no negotiated tariffs - no daily/weekly balance reports - Under the current regulation the project could increase the storage tariffs at a level which make the storage business less attractive in reality actual regulatory tariffs don't respond to the increasing demand of multiple types of tariffs and / or missing of price mobility and negotiation possibilities.
Market	Reduced market demand from the companies acting on the gas market due to a reduced price of import gas price.
Financing	Due to the lack of market and the characteristics of the storage business financial institution are not interested to support such project.
Regulatory	Low or zero-priced short-term capacity
Regulatory	Low rate of return
Financing	Amortization rates
Market	Lack of market maturity
Market	Lack of market support

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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 1*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	*We have applied for CEF grant for studies but it was not approved,*

Upgrading GMS Isaccea 1 and GMS Negru Voda 1

TRA-N-1277	Project	Pipeline including CS	Non-FID
Update Date	28/02/2018		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.	2019	RO/TBP	UA	**28.9 GWh/d**

Sponsors

SNTGN Transgaz SA	100%

General Information

Promoter	*SNTGN Transgaz SA*
Operator	*SNTGN Transgaz S.A.*
Host Country	*Romania*
Status	*Planned*
Website	

NDP and PCI Information

Part of NDP	*Yes (The National Gas Transmission System development Plan 2017 - 2026)*
NDP Number	*7.8*
NDP Release Date	*22/06/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility	01/2018	08/2018
FEED	01/2018	08/2018
Permitting	01/2018	08/2018
Supply Contracts		
FID		08/2018
Construction	08/2018	12/2019
Commissioning	2019	2019
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
A	The project refers only to the upgrading of the two Gas Metering Stations				2019
Total					

Expected Gas Sourcing

Caspian Region, Russia

Benefits

Main Driver	Regulation SoS
Main Driver Explanation	
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 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

Project GO4LNG LNG terminal Gothenburg

LNG-N-32	Project	LNG Terminal	Non-FID
Update Date	30/05/2018		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	2020	LNG_Tk_SE	SE	**26.0 GWh/d**

Sponsors

Swedegas AB	100%

General Information

Promoter	*Swedegas AB*
Operator	*Swedegas AB*
Host Country	*Sweden*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((2) no NDP exists in the country)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (8.6)*
Priority Corridor(s)	*BEMIP*

Schedule	Start Date	End Date
Pre-Feasibility		*01/2012*
Feasibility	*01/2012*	*06/2012*
FEED	*01/2017*	*01/2017*
Permitting	*10/2013*	*05/2014*
Supply Contracts		*12/2017*
FID		*12/2017*
Construction	*01/2018*	*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%*

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 (%)
GO4LNG Gothenburg	*No*								

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The project is designed to cover several market segments with the main volume driver LNG send out to marine and industrial segments but also for injection to Swedegas' existing transmission grid. Facilitates supply to non grid customers, such as industry replacing oil and future bunkering of ships to comply with the coming SECA regulation. Connetion to the grid allows an second entry point to the Swedish transmission grid increasing security of supply and competition. Connection also timproves functionality such as pressure holding, short term storage etc.

Delays since last TYNDP

Grant Obtention Date	
Delay Since Last TYNDP	Delayed
Delay Explanation	Slower market development than expected.

Expected Gas Sourcing

LNG (?)

Benefits

Main Driver	Market Demand
Main Driver Explanation	The project is designed to cover several market segments with the main volume driver LNG send out to marine and industrial segments but also for injection to Swedegas' existing transmission grid.
Benefit Description	Facilitates supply to non grid customers, such as industry replacing oil and future bunkering of ships to comply with the coming SECA regulation. Connetion to the grid allows an second entry point to the Swedish transmission grid increasing security of supply and competition. Connection also timproves functionality such as pressure holding, short term storage etc.

Barriers

Barrier Type	Description
Regulatory	Small scale LNG is an emerging market with no mature trade patterns which make it difficult to combine capacity holders in a cost-efficient way - given a low rate of return.
Permit Granting	Permits obtained
Regulatory	Low rate of return
Market	Lack of market support

CBCA

Decision	*Yes, we have submitted an investment request and have received a decision*
Submissin Date	
Decision Date	*17/09/2015*
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	*No*
Grants for studies amount	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	

CS Ajdovščina, 1st phase of upgrade

TRA-N-92	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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

Plinovodi	100%
Paldiski LNG Terminal	
Balti Gaas LLC	100%

General Information

Promoter	*Plinovodi d.o.o.*
Operator	*Plinovodi d.o.o.*
Host Country	*Slovenia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (TYNDP for the period 2018-2027)*
NDP Number	*C1*
NDP Release Date	*09/10/2017*
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%*

Enabled Projects

Project Code	Project Name
TRA-N-108	M3 pipeline reconstruction from CS Ajdovščina to Šempeter/Gorizia

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

Specific Criteria Fulfilled Comments

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	
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

CS Kidričevo, 2nd phase of upgrade

TRA-N-94	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		Advanced
Description	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.		
PRJ Code - PRJ Name	-		

Sponsors	
Plinovodi	100%

General Information	
Promoter	*Plinovodi d.o.o.*
Operator	*Plinovodi d.o.o.*
Host Country	*Slovenia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (TYNDP for the period 2018-2027)*
NDP Number	*C5*
NDP Release Date	*09/10/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.26.1.2)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	*07/2019*	*07/2021*
Permitting		
Supply Contracts		
FID		*07/2019*
Construction	*07/2021*	*12/2022*
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%*

Enabled Projects

Project Code	Project Name
TRA-N-390	Upgrade of Rogatec interconnection (M1A/1 Interconnection Rogatec)
TRA-N-389	Upgrade of Murfeld/Ceršak interconnection (M1/3 Interconnection Ceršak)

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, Security of Supply
Specific Criteria Fulfilled Comments	The project will contribute to the facilitation of market integration and provide infrastructure allowing the increase of security of supply for the region. 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.

Expected Gas Sourcing

Norway, 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

M3 pipeline reconstruction from CS Ajdovščina to Šempeter/Gorizia

TRA-N-108	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		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.	2022	IT	SI	**36.6 GWh/d**
	Plinovodi d.o.o.	2022	SI	IT	**39.2 GWh/d**

Sponsors

Plinovodi	100%

General Information

Promoter	*Plinovodi d.o.o.*
Operator	*Plinovodi d.o.o.*
Host Country	*Slovenia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (TYNDP for the period 2018-2027)*
NDP Number	*C2*
NDP Release Date	*09/10/2017*
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%*

Enabled Projects

Project Code	Project Name
TRA-N-92	CS Ajdovščina, 1st phase of upgrade

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

Specific Criteria Fulfilled Comments

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
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	15/11/2018		Advanced
Description	Adjustment to operating parameters of the transmission system of the Austrian TSO, increasing the transmission capacity and enabling bidirectional operation. The project is a part of the PCI 6.26 Cluster Croatia - Slovenia - Austria at Rogatec.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Murfeld (AT) / Ceršak (SI)	Plinovodi d.o.o.	2022	AT	SI	**78.7 GWh/d**
	Plinovodi d.o.o.	2022	SI	AT	**162.0 GWh/d**

Sponsors

Plinovodi	100%

General Information

Promoter	*Plinovodi d.o.o.*
Operator	*Plinovodi d.o.o.*
Host Country	*Slovenia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (TYNDP for the period 2018-2027)*
NDP Number	*C4*
NDP Release Date	*09/10/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (6.26.1.5)*
Priority Corridor(s)	*NSIE*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	07/2019	07/2021
Permitting		
Supply Contracts		
FID		07/2019
Construction	07/2021	12/2022
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%

Enabled Projects

Project Code	Project Name
TRA-N-94	CS Kidričevo, 2nd phase of upgrade
TRA-N-390	Upgrade of Rogatec interconnection (M1A/1 Interconnection Rogatec)

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, Market Integration, Security of Supply
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

Norway, 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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

System Enhancements - Eustream

TRA-N-17	Project	Pipeline including CS	Non-FID
Update Date	15/11/2018		Non-Advanced
Description	Modernization and Upgrade of the Network and Replacement of Technologies due to new Environmental Norms. This Project consists of several projects rolling in a time period such as : enhancement of key technology accessibility, improvement/ upgrade of pipelines integrity,complet overhaul of compressor technology, - redesign of compressor stations,enhancement of transmission system flexibility .		
PRJ Code - PRJ Name	-		

Sponsors	
eustream, a.s.	100%

General Information	
Promoter	*eustream, a.s.*
Operator	*eustream, a.s.*
Host Country	*Slovakia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information	
Part of NDP	*Yes (National Development Plan 2018-2027)*
NDP Number	*4.2.1*
NDP Release Date	*30/11/2017*
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	*2027*	*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%*

Comments about the Third-Party Access Regime

The map is not uploaded as the Project consists of several different projects focuesed on modernization and upgrade of the network and replacement of technologies due to new environmental standards.

Benefits

Main Driver	Others
Main Driver Explanation	Enhancement of internal operational efficiency of the transmission system.
Benefit Description	Modernization and upgrade of the network and replacement of technologies due to new environmental standards.

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Underground Gas Storage Velke Kapusany

UGS-N-356	Project	Storage Facility	Non-FID Advanced
Update Date	28/03/2018		
Description	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. 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: - 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	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
UGS Velke Kapusany	NAFTA a.s.	2023	STcSK	SK	**39.8 GWh/d**
			Comment: exit from UGS into TSO		
	NAFTA a.s.	2023	SK	STcSK	**39.8 GWh/d**
			Comment: entry from TSO into UGS		

Sponsors

NAFTA a.s.	100%

General Information

Promoter	*NAFTA a.s. (joint stock company)*
Operator	*NAFTA a.s.*
Host Country	*Slovakia*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Ten-Year Network Development Plan of the transmission system of the company Eustream)*
NDP Number	*chapter 3.3*
NDP Release Date	*30/11/2017*
NDP Website	*NDP URL*
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		11/2017
Feasibility	04/2019	09/2019
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		

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

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
Underground Gas Storage Velke Kapusany	Depleted Field	Yes	Commissioning	340	3.8	3.8	100	none	2023

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	Market integration will be enhanced by: -supporting the emerging "gas hub" at Velke Kapusany -enhancing active trading in the border area of four CEE countries and supported by PL-SK interconnector and Eastring -improving physical utilization of existing and new pipeline interconnections and enhancing the overall flexibility of the system -contributing to price convergence between the countries in CEE region (mainly SK, PL, HU) and the Balkans Making its storage capacity available to Poland via the future PL-SK Interconnector will improve the fulfillment of the N-1 rule for Poland. Other benefactors will be Ukraine and also countries along the southern part of the NSI East Gas corridor and Eastring, notably Bulgaria and Romania. UGS Velke Kapusany will be designed as hydrogen-ready for mixtures with up to 10% hydrogen content. UGS Velke Kapusany will become an important component ensuring higher supplier competition for Poland, Ukraine and secondarily also for Balkan countries.

Expected Gas Sourcing

Caspian Region, Norway, Russia, LNG (PL)

Benefits	
Main Driver	Market Demand
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.
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 maturity
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies and works*
Other Financial Assistance	*No*
Comments	
General Comments	

Trans-Caspian

TRA-N-339	Project	Pipeline including CS	Non-FID
Update Date	30/03/2018		Non-Advanced
Description	TCP will branch-off at a connection with the East-West pipeline or initially from a connection point of the offshore Caspian production/treatment 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 8-15 bcm/y towards Turkey (TANAP). For the second stage (end of 2022), the capacity is intended to be increased to up to 30-32 bcm/y and feed both Turkish (TANAP) and cross-Black Sea (via White Stream towards Baumgarten) directions. We are currently evaluating an option of 2 phased development, each for 15 bcm/y, with two 32 in. strings. Estimated costs for 2x32 in. pipelines + one compression station and terminal -€ 1.5 billion.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Constanta (White Stream)	White Stream	2022	TM/SCP	RO	500.0 GWh/d
	Comment: Second phase (2nd string) of TCP towards White Stream (N.B. Operator will be W-Stream Caspian pipeline Company Limited)				
South Caucasus Pipeline / White Stream	White Stream	2021	TM	TM/SCP	500.0 GWh/d
	Comment: Fisrt phase of TCP to SCP/TANAP/TAP,(N.B. Operator will be W-Stream Caspian Pipeline Company Limited				

Sponsors

W-STREAM PIPELINE COMPANY LIMITED	90%
Georgian Oil and Gas Corporation (GOGC)	10%

General Information

Promoter	*W-Stream Caspian Pipeline Company Ltd*
Operator	*W-Stream Caspian Pipeline Company Ltd*
Host Country	*Turkmenistan*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((2) no NDP exists in the country)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (7.1.1)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		01/2013
Feasibility	03/2018	02/2019
FEED	02/2019	11/2019
Permitting	06/2019	11/2019
Supply Contracts		11/2020
FID		12/2019
Construction	04/2020	09/2021
Commissioning	2021	2022
Grant Obtention Date	25/01/2018	25/01/2018

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

Enabled Projects

Project Code	Project Name
TRA-N-53	White Stream

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	812	300	175	0
sub-sea (string 2)	175 MW total for two strings	812	300	175	0
Total			**600**	**350**	

Fulfilled Criteria

Specific Criteria Fulfilled: Competition, Market Integration, Security of Supply

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 and stimulate Market integration. Turkmen gas is readily available through wells with established production, including wells in the shut-in condition and connected to the 30bcma 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, therefore in combination with relatively low production costs, this ensures competitive prices of gas for shippers. The TCP 1st and 2nd string will contribute to removing bottlenecks for the countries which are – so far solely supplied with Russian gas, namely Bulgaria, Former Yugoslav Republic of Macedonia in case of natural gas supply interruptions.

Delays since last TYNDP

Grant Obtention Date	25/01/2018
Delay Since Last TYNDP	
Delay Explanation	

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 the 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 and market integration 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

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	*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.*

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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No decision yet taken*
Other Financial Assistance	*No*
Comments	
General Comments	

TANAP - Trans Anatolian Natural Gas Pipeline Project

TRA-F-221	Project	Pipeline including CS	FID
Update Date	30/05/2018		Advanced
Description	TANAP intends for the transportation 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. 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.		
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	2019	TR/TNP	GR/TAP	**318.0 GWh/d**
Türkgözü	TANAP TSO	2018	AZ/SCP	TR/TNP	**490.0 GWh/d**
			Comment: 490.95257 Gwh/d		

Sponsors

"SOUTHERN GAS CORRIDOR" CLOSED JOINT STOCK COMPANY	58%
BORU HATLARI İLE PETROL TAŞIMA A.Ş. (BOTAS)	30%
BP PIPELINES (TANAP) LIMITED	12%

General Information

Promoter	*SOCAR (The State Oil Company of the Azerbaijan Republic)*
Operator	*TANAP TSO*
Host Country	*Turkey*
Status	*In Progress*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*No ((4) there is no obligation at national level for such a project to be part of the NDP)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*Yes (7.1.1)*
Priority Corridor(s)	*SGC*

Schedule	Start Date	End Date
Pre-Feasibility		08/2012
Feasibility	01/2013	03/2013
FEED	09/2012	05/2014
Permitting	04/2014	07/2014
Supply Contracts		06/2019
FID		12/2013
Construction	06/2014	06/2019
Commissioning	2018	2019
Grant Obtention Date	01/03/2016	01/03/2016

Third-Party Access Regime	
Considered TPA Regime	Negotiated
Considered Tariff Regime	Negotiated
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
Eskishehir (Turkey)-Greece Border		1,219	460	46	2019
Georgia/Turkey border- Eskishehir		1,442	1,347	46	2018
	Total		**1,807**	**92**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
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.

Delays since last TYNDP

Grant Obtention Date	01/03/2016
Delay Since Last TYNDP	No
Delay Explanation	#Error

Expected Gas Sourcing

Caspian Region

Benefits

Main Driver	Others
Main Driver Explanation	Market demand Competition Access to new markets
Benefit Description	Diversification of supply Diversification of routes Benefits sustainability Emission Reduction Benefit infrastructure bottleneck Enabling other PCİ and non-PCİ projects Significant cross-border effect Possibility of further expansion

Barriers

Barrier Type	Description
Permit Granting	There is no permit granting barriers. All permits have been acquired.
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, leads to difficulties on TANAP's financing
Financing	Availability of funds and associated conditions

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

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	*Our Project does not have CDCA desicion by NRA or ACER*

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*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*Yes, for studies only*
Other Financial Assistance	*No*
Comments	
General Comments	

Trans-Balkan Bi-directional Flow

TRA-N-1169	Project	Pipeline including CS	Non-FID
Update Date	22/05/2018		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	Ukrtransgaz	2019	UA	MD	43.1 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	Ukrtransgaz	2021	UA	MD	143.5 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	Ukrtransgaz	2024	UA	MD	574.1 GWh/d
			Comment: Entry to Ukraine-reverse flow		

Sponsors	
PJSC "UKRTRANSGAZ"	57%

General Information	
Promoter	*PJSC "UKRTRANSGAZ"*
Operator	*Ukrtransgaz*
Host Country	*Ukraine*
Status	*Planned*
Website	

NDP and PCI Information	
Part of NDP	*No ((2) no NDP exists in the country)*
NDP Number	
NDP Release Date	
NDP Website	
Currently PCI	*No*
Priority Corridor(s)	

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED		
Permitting		
Supply Contracts		
FID		
Construction		
Commissioning	*2019*	*2019*
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

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 CS and GMS Orlovka, CS Berezivka and the GMS Grebenyky. On the Moldavian side, it is necessary to reconstruct the CS Vulkaneshty and the GMS Kaushany.	1,200	320	0	2019
Total			320	0	

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)	1,200	320	0	2024
Total			320	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.	1,200	320	0	2021
Total			320	0	

Expected Gas Sourcing

Caspian Region, LNG (!,GR), Romanian gas production

Benefits

Main Driver	Market Demand
Main Driver Explanation	Romanian gas producers in Black Sea offshore fields are planning to start gas production in 2020. They are looking for the ways to export gas and the project will open for them Ukrainian market
Benefit Description	

Barriers

Barrier Type	Description
Financing	Amortization rates
Financing	Availability of funds and associated conditions

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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	*No, we do not plan to apply*
Other Financial Assistance	*No*
Comments	
General Comments	

Islandmagee Gas Storage Facility

UGS-N-294	Project	Storage Facility	Non-FID Advanced
Update Date	29/03/2018		
Description	IMSL 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 providing a greater degree of security of supply to Ireland and Great Britain.		
PRJ Code - PRJ Name	-		

Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Islandmagee	Islandmagee Storage Ltd	2022	UKn	STcUK	**132.0 GWh/d**
	Comment: The project is a gas storage facility. Due to this the facility can provide a peak incremet 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.				

Sponsors

Islandmagee Storage Limted	100%

General Information

Promoter	*Islandmagee Storage Limited*
Operator	*Islandmagee Storage Ltd*
Host Country	*United Kingdom*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Northern Ireland Gas Capacity Statement)*
NDP Number	*n.a.*
NDP Release Date	
NDP Website	*NDP URL*
Currently PCI	*Yes (5.1.3)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		
Feasibility		
FEED	01/2018	12/2018
Permitting		
Supply Contracts		06/2019
FID		05/2019
Construction	09/2019	05/2022
Commissioning	2022	2022
Grant Obtention Date	17/06/2016	17/06/2016

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%

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 Storage Facility	Salt Cavern	Yes	Project Construction	420	22.0	12.0	20	The project is currently at the FEED stage so the technical information is likley to change as this process materialises.	2019

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	The Islandmagee facility will enhance physical and price security of supply for the Northern Ireland, Republic of Ireland and Great Britain gas markets. It will also enable a number of renewabnle energy projects to become more viable because the gas facility can be used to support rapid injection of gas during periods of peak volatility and also during periods of low renewable generation.

Delays since last TYNDP

Grant Obtention Date	17/06/2016
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	Thge main project drivers are the security of gas supply for the Island of Ireland and the ability to enable better stability of price for the gas consumers. At present the Irish have a sinbgle connector at Moffat that provides gas and any disruption to this would have major implications. With this facility the Island some resilience to such a situation.
Benefit Description	The facility will remove the bottleneck between Northern Ireland (NI) and Republic of Ireland (ROI) 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 ROI. The project will end energy isolation due to greater connectivity with ROI and Great Britain (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 the island of Ireland. The facility will enhance physical and price security of supply for the N.Ireland, ROI and GB markets. The project will provide support to renewable electricity generation in both ROI and NI by increasing the availbility 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
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.
Market	The Islandmagee gas storage facility requires competitive gas storage transmission tariffs in order to compete against GB storage facilities.
Regulatory	Low or zero-priced short-term capacity
Regulatory	Low rate of return
Financing	Availability of funds and associated conditions
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	*(1) Yes, we have applied for CEF and we have received a decision*
Grants for studies	*Yes*
Grants for studies amount	*Mln EUR 4*
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
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	30/05/2018		Non-Advanced
Description	Installation of bi-drectional 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
Twynholm	Premier Transmission Ltd	2021	UKn	Y-UKm	**131.0 GWh/d**

Sponsors

Premier Transmission Ltd	100%

General Information

Promoter	*Premier Transmission Limited*
Operator	*Premier Transmission Ltd*
Host Country	*United Kingdom*
Status	*Planned*
Website	*Project's URL*

NDP and PCI Information

Part of NDP	*Yes (Northern Ireland Gas Capacity Statement)*
NDP Number	*n.a.*
NDP Release Date	*26/10/2017*
NDP Website	*NDP URL*
Currently PCI	*Yes (5.1.2)*
Priority Corridor(s)	*NSIW*

Schedule	Start Date	End Date
Pre-Feasibility		10/2018
Feasibility	10/2018	10/2018
FEED	01/2019	01/2019
Permitting	10/2018	09/2019
Supply Contracts		01/2019
FID		12/2019
Construction	01/2021	09/2021
Commissioning	2021	2021
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
SNIP-Scotland to Northern Ireland		600		10	0
	Total			**10**	

Fulfilled Criteria

Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comments	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 would 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.

Delays since last TYNDP

Grant Obtention Date	
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*
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	
Grants for works	*No*
Grants for works amount	
Intention to apply for CEF	
Other Financial Assistance	*No*
Comments	
General Comments	