

GAS REGIONAL INVESTMENT PLAN 2017-2026

Southern Corridor



ANNEX B: PROJECT INFORMATION



















Austria

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FRA-N-361		Project			Pipeline including		lon-FID
Jpdate Date		06	5/05/2016			Ad	dvanced
Description	The Project enables increme Murfeld is achieved.	ntal capacity at the IP Murfelc	l in both directio	ons (AT->SI, SI->AT).	Moreover, physical R	RF capacity at the E	ntry Point
Regulatory Decisions and imilar material conditions							
Capacity Increments Variant	For Modelling						
Point		Operator		Year	From Gas System	To Gas System	Capacity
		Gas Connect Austri	ia GmbH	2019	AT	SI	53.7 GWh/o
Murfeld (AT) / Ceršak (SI)			Con	nment: conversion fro	om Nm³/h to kwh/h w	vith a GCV of 11.19	
Multela (AT) / Celsak (SI)		Gas Connect Austri	ia GmbH	2019	SI	AT	166.5 GWh/
			Con	nment: conversion fro	om Nm³/h to kwh/h w	vith a GCV of 11.19	
Sponsors		General	Information		No Ba	rriers Defined	
		Promoter	GAS CON	NECT AUSTRIA GmbH			Barriers (Count)
		Operator	Gas Connec	t Austria GmbH			rs (
		Host Country		Austria			e e
		Status		Planned			đ
		Website					
		Publication Approval Status	5	Approved			

NI	NDP 2017 - Annex A OP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Rec	Page 5 of 620
Part of NDP	Yes (NDP 2016 - 2025)		Start Date		Considered TPA Regime	Regulate
NDP Number	GCA 2015/08	Feasibility			Considered Tariff Regime	Regulate
	00,120,13,00	FEED			Applied for Exemption	۸cgulate
Currently PCI	Yes (6 26 4)	Market Test			Exemption Granted	N
currently r cr	105 (0.20.1)	Permitting	10/2015	07/2017	Exemption oranged	
CBCA Decision	No	Supply Contracts	10/2015	07/2017	Exemption in entry direction	0.00
Market Survey	Not Relevant (no CBCA decision)				Exemption in exit direction	0.00
		Construction		11/2019		0.00
		Commissioning	2019	2019		
		commissioning	2015	2015		
Pipelines and Com	pressor Stations					
	Pipeline Section	Pipe	line Comment		Diameter (mm) Length (km) Comp	ressor Power (MV
	Murfeld	The technical load factor must not be p	of the pipeline is con published in the TYND			
	т	otal				
		P	CI Details			
		ability to transmit gas acr ing of the project, Project			es concerned by at least 10%, compared v capacity	d to the situation
PCI Benefits						
PCI Benefits General Criteria Ful						
General Criteria Ful	filled Yes	egration, Security of Supp	oly, Sustainability			
General Criteria Ful Specific Criteria Ful	filled Yes filled Competition, Market Int	egration, Security of Supp	oly, Sustainability			
General Criteria Ful	filled Yes filled Competition, Market Int	egration, Security of Supp	oly, Sustainability			
General Criteria Ful Specific Criteria Ful	filled Yes filled Competition, Market Int					
General Criteria Ful Specific Criteria Ful	filled Yes filled Competition, Market Int		oly, Sustainability Benefits			
General Criteria Ful Specific Criteria Ful Specific Criteria Ful	filled Yes filled Competition, Market Int filled Comments Market Demand					

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TRA-N-021		Project			Pipeline including	g CS N	lon-FID
Update Date		06/	05/2016			A	dvanced
Description	connected to the existing Cz CONNECT AUSTRIA GmbH). acilitate better market integ	ech Interconnection (BACI) will ech transmission system via CS The project BACI will enable ca ration between Austria and the em by diversification of gas sup	Břeclav (NET4GAS s.r.o.) ar pacity transmission for the Czech Republic. The project	nd to th first tim ct BACI	e Austrian transmissi e between these two will also increase the	on system via Baur EU member state overall flexibility o	mgarten (GAS s and it will
Regulatory Decisions and similar material conditions Capacity Increments Variant Fo	or Modelling						
Point	br Modelling	Operator		Year	From Gas System	To Gas System	Capacity
		Gas Connect Austria	GmbH	2020	AT	CZ	201.4 GWh/
			directional IP connceting the acity will be between 750,00			h; conversion from	
Poštorná / Reintal		Gas Connect Austria	GmbH	2020	CZ	AT	201.4 GWh
			directional IP connceting the acity will be between 750,00			h; conversion from	
Sponsors		General Ir	nformation		No Ba	arriers Defined	1.0
Pipeline on Austrian territory		Promoter	GAS CONNECT AUST	ΡΙΑ			Ba
GAS CONNECT AUSTRIA GmbH	100%	FIOINOLEI	Gm	bH			rrie
Pipeline on Czech territory		Operator	Gas Connect Austria Gm				Barriers (Count
NET4GAS, s.r.o	100%	Host Country	Aus				oun
		Status	Planı	ned			đ
		Website					
		Publication Approval Status	Appro	rea			

NDP	and PCI Information	Schedule	Start Date	End Date	Tł	nird-Party Acc	ess Regime
Part of NDP	Yes (NDP 2016-2025)	Pre-Feasibility			Considered TPA R	Regime	Regulate
NDP Number	GCA 2015/01a	Feasibility			Considered Tariff	Regime	Regulate
		FEED			Applied for Exem	ption	٨
Currently PCI	Yes (6.4)	Market Test		06/2016	Exemption Grante	ed	Not Releva
		Permitting	10/2015				
CBCA Decision	No	Supply Contracts			Exemption in entr	y direction	0.00
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit	direction	0.00
		Construction		10/2020			
		Commissioning	2020	2020			
F	Pipeline Section	Pipe	eline Comment		Diameter (mm)	Length (km)	Compressor Power (M)
	Austrian Side	The technical load factor					·
	Austrian Side Czech Side	The technical load factor must not be	r of the pipeline is conf		Biameter (mm)	12	0
	Austrian Side Czech Side	The technical load factor must not be	r of the pipeline is conf published in the TYND				Compressor Power (MW 0 0
	Austrian Side Czech Side	The technical load facto must not be otal	r of the pipeline is conf published in the TYND PCI Details	P.	800	12 12	0
PCI Benefits	Austrian Side Czech Side To Project changes the cap	The technical load factor must not be	r of the pipeline is conf published in the TYND PCI Details ross the borders of the	P.	800 es concerned by at	12 12	0
	Austrian Side Czech Side Transformation Project changes the cap prior to the commission	The technical load factor must not be otal ability to transmit gas ac	r of the pipeline is conf published in the TYND PCI Details ross the borders of the	P.	800 es concerned by at	12 12	0 0
PCI Benefits	Austrian Side Czech Side To Project changes the cap prior to the commission led Yes	The technical load factor must not be otal ability to transmit gas ac	r of the pipeline is conf published in the TYND PCI Details ross the borders of the t concerns investment	P.	800 es concerned by at	12 12	0 0
PCI Benefits General Criteria Fulfill	Austrian Side Czech Side Transformer Project changes the cap prior to the commission led Yes led Competition, Market Int	The technical load factor must not be otal ability to transmit gas ac ing of the project, Project	r of the pipeline is conf published in the TYND PCI Details ross the borders of the t concerns investment	P.	800 es concerned by at	12 12	0 0
PCI Benefits General Criteria Fulfill Specific Criteria Fulfill	Austrian Side Czech Side Transformer Project changes the cap prior to the commission led Yes led Competition, Market Int	The technical load factor must not be otal ability to transmit gas ac ing of the project, Project	r of the pipeline is conf published in the TYND PCI Details ross the borders of the t concerns investment	P.	800 es concerned by at	12 12	0 0

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. The project 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 project BACI the CEE region would become less vulnerable to a supply

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| 8

	Project		Pipeline including	n CSN	on-FID
Ipdate Date		05/2016			dvanced
	lanning based on market indications. Potential cor		ial establishment of a		
egulatory Decisions and milar material conditions	, , , , , , , , , , , , , , , , , , ,				
apacity Increments Variant For Model					
oint	Operator	Year	From Gas System	To Gas System	Capacity
	Gas Connect Austria		HU	AT	153.1 GWh/d
losonmagyarovar	Comment:	5 bcma. Further upgrade potentia Conversion fr	l up to development og om Nm³/h to kwh/h w		
ponsors	General In	ofrmation	No Ba	rriers Defined	
	Promoter	GAS CONNECT AUSTRIA GmbH			Barriers (Count)
	Operator	Gas Connect Austria GmbH			ers (
	Host Country	Austria			Cor
	Status	Planned			nt)
	Website				a
	Publication Approval Status	Approved			

	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Acc	ess Regime
Part of NDP	Yes (NDP 2016 - 2025)	Pre-Feasibility			Considered TPA Regime	Regulate
NDP Number	GCA 2015/05	Feasibility			Considered Tariff Regime	Regulate
		FEED			Applied for Exemption	Ye
Currently PCI	Yes (6.24.3)	Market Test			Exemption Granted	Ye
		Permitting	10/2015	07/2017		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.009
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.009
		Construction		10/2020		
		Commissioning	2020	2020		
	Mosonmagyarovar	The technical load factor must not be p	of the pipeline is contublished in the TYND			
	Т	otal				
		Р	CI Details			
PCI Benefits						
General Criteria I	Fulfilled Yes					
Specific Criteria	Fulfilled Competition, Market Int	egration, Security of Supp	ly, Sustainability			
Specific Criteria	Fulfilled Comments					
			Benefits			

Strenthening the establishment of a potential Southern Corridor and contribution to a diversification of sources e.g. Black Sea Gas.

Main Driver Explanation Pipeline projects are planned according to market demand. Current planning is based on market indications.

Benefit Description

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plate Date 0//05//2016 Advanced rescription Deproject will be a new infrastructure directly connecting the Austrian and Czech market and is connected to the project C4G of N4G at the AT/CZ egulatory Decisions and miniar material conditions apacity Increments Variant For Modelling To Gas System To Gas System Capacity apacity Increments Variant For Modelling Gas Connect Austria GmbH 2020 CZ AT 1,118.1 GWh/r oštorná / Reintal Comment: The incremental capacity represents an entry capacity extension above planned exit capacity at CZ/AT border. GCV:11.1 To Gas Connect Austria GmbH 2020 CZ AT 1,118.1 GWh/r ponsors General Information No Barriers Defined Verstriers CV:11.1	FRA-N-801	Project			Pipeline including	JCS N	lon-FID
escription border. egulatory Decisions and milar material conditions apacity Increments Variant For Modelling oint Operator Year From Gas System To Gas System Capacity of Gas Connect Austria GmbH 2020 CZ AT 1,118,1 GWh/A of Comment: The incremental capacity represents an entry capacity extension above planned exit capacity at CZ/AT border. GCV:11.19 ponsors No Barriers Defined Promoter GAS CONNECT AUSTRIA GrabH Operator Gas Connect Austria GmbH Operator Gas Connect Austria GmbH Operator Gas Connect Austria GmbH Host Country Austria Status Planned Website Publication Approval Status Approved To Gas Connect Austria GmbH Operator Gas Connect Austria GmbH Host Country Austria Status Planned Website Publication Approval Status Approved To Gas Connect Austria Capacity represents and the capacity represents and the capacity represents and the capacity represents and the capacity at CZ/AT border. GCV:11.19 To Gas Connect Austria GmbH Host Country Austria Status Planned Website Publication Approval Status Approved To Gas Connect Austria Capacity Approved Enabled Projects	Jpdate Date		04/05/2016			A	dvanced
egulatory Decisions and milar material conditions apacity Increments Variant For Modelling oint Operator Year From Gas System To Gas System Capacity Gas Connect Austria GmbH 2020 CZ AT 1,118.1 GWhA Comment: The incremental capacity represents an entry capacity extension above planned exit capacity at CZ/AT border. GCV:11.19 ponsors General Information No Barriers Defined Promoter GAS CONNECT AUSTRIA Operator Gas Connect Austria GmbH Host Country Austria Status Planned Website Publication Approval Status Approved Enabled Projects roject Code Project Name	Ascription	t will be a new infrastructure directly conne	cting the Austrian and Cz	ech market and	is connected to the	project C4G of N4	G at the AT/CZ
Operator Year From Gas System To Gas System Capacity Gas Connect Austria GmbH 2020 CZ AT 1,118.1 GWh/A oštorná / Reintal Comment: The incremental capacity represents an entry capacity extension above planned exit capacity at CZ/AT border. GCV:11.19 Image: Comment capacity at CZ/	egulatory Decisions and						
Gas Connect Austria GmbH 2020 CZ AT 1,118.1 GWh/A costorná / Reintal Comment: The incremental capacity represents an entry capacity extension above planned exit capacity at CZ/AT border. GCV:11.19 Image: Comment Capacity at CZ/AT border. GCV:11.19 Image: Capacity at CZ/AT border. GCV:11.19	apacity Increments Variant For Modelli	ng					
Order or an entry capacity extension above planed exit capacity at CZ/AT border. GCV:11.19 ponsors No Barriers Defined promoter GAS CONNECT AUSTRIA GmbH No Barriers Defined Promoter GmbH Operator Gas Connect Austria GmbH Operator Gas Connect Austria GmbH Moter	Point	Operator		Year	From Gas System	To Gas System	Capacity
ponsors General Information GAS CONNECT AUSTRIA Promoter GAS CONNECT AUSTRIA Operator Gas Connect Austria GmbH Host Country Austria Status Planned Website Publication Approval Status Approved Troject Code Project Name		Gas Connect A	ustria GmbH	2020	CZ	AT	1,118.1 GWh/d
Promoter GAS CONNECT AUSTRIA GmbH Operator Gas Connect Austria GmbH Host Country Austria Status Planned Website Publication Approval Status Publication Approval Status Approved	oštorná / Reintal	Comment: The	e incremental capacity rep	resents an entr			
Promoter GmbH Operator Gas Connect Austria GmbH Host Country Austria Status Planned Website Vebsite Publication Approval Status Approved	ponsors	Gen	eral Information		No Ba	rriers Defined	
Website Publication Approval Status Publication Approval Status Project Name Projec		Promoter	GAS CONNECT				Barrie
Website Publication Approval Status Publication Approval Status Project Name Projec		Operator	Gas Connect Aus	tria GmbH			rs (0
Website Publication Approval Status Publication Approval Status Project Status Project Name Proj		Host Country		Austria			6
Publication Approval Status Approved Enabled Projects roject Code Project Name		Status		Planned			E.
roject Code Project Name		Website					
roject Code Project Name		Publication Approval St	atus	Approved			
roject Code Project Name		Ena	abled Projects				
RA-N-021 Bidirectional Austrian-Czech Interconnector (BACI, formerly LBL project)	roject Code Project Name						
	RA-N-021 Bidirectional Austrian-Czo	ech Interconnector (BACI, formerly LBL proje	ect)				

	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access R	egime
Part of NDP	No (The BBI project is a new project and	Pre-Feasibility			Considered TPA Regime	Regulated
	will be part of the NDP 2017-2026.)	Feasibility			Considered Tariff Regime	Regulated
NDP Number	GCA2015/01	FEED			Applied for Exemption	No
		Market Test		04/2016	Exemption Granted	Not Relevant
Currently PCI	No	Permitting	03/2016			
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction		10/2020		
		Commissioning	2020	2020		

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Břeclav-Baumgarten Interconnection (BBI) AT	The incremental capacity represents an entry capacity extension between the market areas of CZ and AT	1,400	49	10
	Total		49	10

		Benefits	
Main Driver	Market Demand		
Main Driver Explanat	ion		
Benefit Description			

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	TAG Reverse Flow		
TRA-N-954	Project	Pipeline including CS	Non-FID
Update Date	25/05/2016		Non-Advanced
Description	The objective of the planning project "TAG Reverse Flow" is to create a real a Reverse Flow by upgrading existing entry DZK capacity to entry FZK capacity at the IP Ceršak/Murfeld. Physical interconnection cap Austria GmbH subsystem PVS-AZ1. 1b Reverse Flow by upgrading existin Physical interconnection between the TAG pipeline system to the Gas Cophysical connection at the IP Baumgarten at the Austrian/Slovakian board capacity "Exit Baumgarten" of TAG GmbH. 1c This variation of the project	capacity at the IP Arnoldstein/Tarvisio and additiona bacity via an exit from the TAG GmbH pipeline syste ng entry DZK capacity to entry FZK capacity at the I banect Austria subsystem PVS-AZ1. Further, the pro rder by upgrading existing backhaul capacity "Exit E	ally by allowing potentia em to the Gas Connect P Arnoldstein/Tarvisio. ject shall also enable a
Regulatory Decisions and similar material conditions			

Point	Operator	Year	From Gas System	To Gas System	Capacity
	TAG GmbH	2018	AT	SK	268.6 GWh/0
Baumgarten	GmbH/eustream a.s.)	e project enable a physical at the Austrian/Slovakian b Exit Baumgarten" to FZK ca	boarder by upgrading	existing backhaul	
	TAG GmbH	2018	IB-ITe	AT	0.0 GWh/d
Tarvisio (IT) / Arnoldstein (AT)	Comment: Reverse Flow by u IP Arnoldstein/Tarvisio	pgrading existing entry DZ and additionally by allowin			

Sponsors		General Inf	ormation	No Barriers Defined	
Trans Austria Gasleitung GmbH	100%	Promoter	Trans Austria Gasleitung GmbH		Barrie
		Operator	TAG GmbH		ers (
		Host Country	Austria		6
		Status	Planned		nt
		Website			
		Publication Approval Status	Approved		

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access R	egime
Part of NDP		Pre-Feasibility			Considered TPA Regime	Regulated
	Plan 2017-2026)	Feasibility			Considered Tariff Regime	Regulated
NDP Number	TAG 2016/03	FEED			Applied for Exemption	No
		Market Test			Exemption Granted	Not Relevant
Currently PCI	No	Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction				
		Commissioning	2018	2018		

	PCI Details
PCI Benefits	Project concerns investment in reverse flow capacity
General Criteria Fulfilled	No
Specific Criteria Fulfilled	Market Integration, Security of Supply
Specific Criteria Fulfilled Comm	nents

	Benefits
Main Driver	Others
Main Driver Explanati	The planning project was 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 on entry FZK capacity at the IP Ceršak/Murfeld. As a consequence, TAG GmbH also assesses an upgrade of existing entry DZK capacity to entry FZK capacity at the IP Arnoldstein/Tarvisio and, correspondingly, an upgrade of existing backhaul capacity "Exit Baumgarten" to FZK capacity "Exit Baumgarten" of TAG
	GmbH in its projects variations.
Benefit Description	

Bulgaria

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	A p	project for the construction of	a gas pipeline BG-RO			
TRA-N-379		Project		Pipeline including	g CS N	on-FID
Update Date		22/06/201	16		Non	Advanced
Description	Bulgaria-Romania-Hungary-A includes the construction of a interconnectivity of the north Transgaz S.A., Romania. The i the technical possibilities for	cept for coordinated development of Austria), designed for the bi-lateral na a new infrastructure and modernization tern semi-ring of the national gas transplementation of the Bulgarian sect supply of natural gas between 3 - 5 th ary, with an opportunity for access to	atural gas transport betweer on and expansion of the exis nsmission network of Bulgar ion together with the existin porm/y between the planned	the countries. The prosting network in order transgaz EAD and the g gas transmission in entry points on Bulga	roject on the territo r to increase the ca e gas transmission frastructure is expe	bry of Bulgaria pacity of network of ected to ensu
Regulatory Decisions ar						
Capacity Increments Va		Operator	Year	From Gas System	To Gas System	Capacity
Capacity Increments Va Point	riant For Modelling	Operator Bulgartransgaz EAD	Year 2018	From Gas System BGn	To Gas System RO	
Capacity Increments Va Point	riant For Modelling	•				Capacity 85.0 GWh/ 85.0 GWh/
Capacity Increments Va Point New IP Bulgaria (BG) / F	riant For Modelling	Bulgartransgaz EAD	2018 2018	BGn RO	RO	85.0 GWh
Capacity Increments Va Point New IP Bulgaria (BG) / F Sponsors	riant For Modelling	Bulgartransgaz EAD Bulgartransgaz EAD	2018 2018	BGn RO	RO BGn	85.0 GWh, 85.0 GWh,
Capacity Increments Va Point New IP Bulgaria (BG) / F Sponsors	riant For Modelling Romania (RO) (3)	Bulgartransgaz EAD Bulgartransgaz EAD General Informa	2018 2018 ation	BGn RO	RO BGn	85.0 GWh, 85.0 GWh,
Capacity Increments Va Point New IP Bulgaria (BG) / F Sponsors	riant For Modelling Romania (RO) (3)	Bulgartransgaz EAD Bulgartransgaz EAD General Informa Promoter	2018 2018 ation Bulgartransgaz EAD	BGn RO	RO BGn	85.0 GWh, 85.0 GWh,
Capacity Increments Va Point New IP Bulgaria (BG) / F Sponsors	riant For Modelling Romania (RO) (3)	Bulgartransgaz EAD Bulgartransgaz EAD General Informa Promoter Operator	2018 2018 ation Bulgartransgaz EAD Bulgartransgaz EAD	BGn RO	RO BGn	85.0 GWh, 85.0 GWh,
similar material condition Capacity Increments Va Point New IP Bulgaria (BG) / F Sponsors Bulgartransgaz EAD	riant For Modelling Romania (RO) (3)	Bulgartransgaz EAD Bulgartransgaz EAD General Informa Promoter Operator Host Country	2018 2018 ation Bulgartransgaz EAD Bulgartansgaz EAD Bulgaria	BGn RO	RO BGn	85.0 GWh/

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Part of NDP Yes (2016-2025 Ten-year network development plan of BTG) development plan of BTG) development plan of BTG development developmen		P and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regime	
development plan of BTG reasibility Considered Tariff Regime NDP Number Section 5 (S.1.3) FEED Applied for Exemption Currently PCI Yes (6.8.4) Permitting Exemption in entry direction CBCA Decision Nor FID Exemption in entry direction Market Survey Not Relevant (no CBCA decision) FID Exemption in exit direction Viplefines and Compressor Stations Commissioning 2018 2018 Pipeline Section of a gas pipeline (pipelines) aiming at exp Pipeline Comment Diameter (mm) Length (km) OC PCI Details Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, com prior to the commission ing of the project. Project concerns investment in reverse flow capacity Sepecific Criteria Fulfilled Yes Sepecific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Sepecific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Sepecific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Sepecific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Sepecific Criteria Fulfilled Competition, Market Integrat	of NDD	Yes (2016-2025 Ten-year network	Pre-Feasibility		01/2017	Considered TPA Regime	Regulate
Currently PCI Yes (6.8.4) Permitting CBCA Decision Not Relevant (no CBCA decision) Not Relevant (no CBCA decision) Not Relevant (no CBCA decision) Commissioning 2018 Pipeline Section of ags pipeline (pipelines) aiming at exp PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, com prior to the commissioning of the project, Project concerns investment in reverse flow capacity Seperal Criteria Fulfilled Yes Specific Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Time Schedule	n ndr	development plan of BTG)	Feasibility			Considered Tariff Regime	Regulate
Currently PCI Yes (6.8.4) Permitting Supply Contracts Exemption in entry direction Market Survey Not Relevant (no CBCA decision) Not Relevant (no CBCA decision) FID Commissioning 2018 Pipelines and Compressor Stations Commissioning Pipeline Section of a gas pipeline (pipelines) aiming at exps Pipeline Comment A project for the construction of a gas pipeline (pipelines) aiming at exps Diameter (mm) Length (km) C PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, com prior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule Grant Obtention Date Time Schedule	Number	Section 5 (5.1.3.)	FEED			Applied for Exemption	Not Relevar
CBCA Decision No No Supply Contracts Exemption in entry direction Market Survey Not Relevant (no CBCA decision) FD Exemption in exit direction Construction Construction Construction Construction Pipelines and Compressor Stations Commissioning 2018 2018 Pipeline Section Pipeline Comment Diameter (mm) Length (km) Construction A project for the construction of a gas pipeline (pipelines) aiming at exp Total PCI Details Pipeline Section Pipeline Section Diameter (mm) Length (km) Commissioning of the project, Project concerns investment in reverse flow capacity Commissioning of the project, Project concerns investment in reverse flow capacity Secret in the commissioning of the project, Project concerns investment in reverse flow capacity Secret in the commissioning of the project, Project concerns investment in reverse flow capacity Secret in Secret in Project for Secret in Secret in the commissioning of the project, Project concerns investment in reverse flow capacity Secret in Se			Market Test			Exemption Granted	Not Releva
CBCA Decision No FID Exemption in exit direction Market Survey Not Relevant (no CBCA decision) Construction Commissioning 2018 2018 Pipelines and Compressor Stations Pipelines and Compressor Stations Commissioning 2018 2018 Pipeline Section of a gas pipeline (pipelines) aiming at exp Total PCI Details PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, com prior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule	ntly PCI	Yes (6.8.4.)	Permitting				
Market Survey Not Relevant (no CBCA decision) Commissioning 2018 Commissioning 2018 Pipelines and Compressor Stations Pipeline Section Pipeline Section of a gas pipeline (pipelines) ariming at exp aiming at exp PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, com prior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule			Supply Contracts			Exemption in entry direction	0.009
Pipelines and Compressor Stations Pipelines and Compressor Stations Pipeline Section Pipeline Section Pipeline Comment Diameter (mm) Length (km) Compressor Stations A project for the construction of a gas pipeline (pipelines) arining at exp Cotal PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, comprise to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule			FID			Exemption in exit direction	0.00
Pipelines and Compressor Stations Pipeline Section Pipeline Section Pipeline Section Pipeline Comment Diameter (mm) Length (km) C Pipeline Comment Pipeline Comment Diameter (mm) Length (km) C Pipeline Comment Total PCI Details PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, com prior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Ves Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule	et Survey	Not Relevant (no CBCA decision)	Construction				
Pipeline Section Pipeline Comment Diameter (mm) Length (km) C A project for the construction of a gas pipeline (pipelines) aiming at exp Total Image: Comparison of the commission of the project concerns of the member states concerned by at least 10%, com prior to the commission of the project, Project concerns investment in reverse flow capacity PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, com prior to the commission of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule			Commissioning	2018	2018		
Pipeline Section Pipeline Comment Diameter (mm) Length (km) C A project for the construction of a gas pipeline (pipelines) aiming at exp Total Image: Comparison of the comment Image: Comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the comparison of the comparison of the comparison of the project, Project concerns investment in reverse flow capacity Image: Comparison of the							
Pipeline Section Pipeline Comment Diameter (mm) Length (km) C A project for the construction of a gas pipeline (pipelines) aiming at exp Total Image: Comparison of the commission of the project of the member states concerned by at least 10%, comprison to the commission of the project, Project concerns investment in reverse flow capacity PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, comprison to the commission of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule	ines and Comp	raccar Stations					
A project for the construction of a gas pipeline (pipelines) aiming at exp Total PCI Details PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, com prior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Comments Specific Criteria Fulfilled Commenta Fulfilled Comments Specific Criteria Fulfilled Commenta				Dipolino Commont		Diamotor (mm) Longth (km) Comprose	r Dowor (MM
aiming at exp Total PCI Details PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, com prior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule Grant Obtention Date				Pipeline Comment		Diameter (mm) Length (km) Compresso	or Power (IVIV
Total PCI Details PrOject changes the capability to transmit gas across the borders of the member states concerned by at least 10%, comprior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule	ject for the con						
PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, comprior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule			otal				
PCI Benefits prior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule Grant Obtention Date Fulfilled Comments				PCI Details			
Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Comments Time Schedule Grant Obtention Date	enefits						he situation
Specific Criteria Fulfilled Comments Time Schedule Grant Obtention Date	ral Criteria Fulfi	lled Yes					
Grant Obtention Date	fic Criteria Fulfi	lled Competition, Market In	tegration, Security of	Supply, Sustainability			
Grant Obtention Date	fic Criteria Fulfi	lled Comments					
				Time Schedule			
Delay Since Last TYNDP ves							
Jean Jean Jean Jean Jean Jean Jean Jean	Obtention Dat	e					
Delay Explanation The project is under consideration.							
Expected Gas Sourcing	Since Last TYN	IDP yes	nsideration.				
Algeria, Caspian Region, LNG (?), Southern gas corridor gas sources	Since Last TYN	IDP yes		nerted Gas Sourcing			

rent TYNDP : TYNDP		Page 37 of 620
Asin Driver	Others	
1ain Driver	Others	
lain Driver Explanation	Market integration; Security of supply, Competiotion.	
enefit Description	The project is part of the concept for coordinated development of the gas trar Bulgaria-Romania-Hungary-Austria) designed for a bi-direction natural gas tra gas transmission system is expected to secure the technical possibility for natu the Bulgarian southern border and Romania and Hungary providing an opport market integration and competition and gurantee the SoS at regional level.	insport. The realization of the Bulgarian section together with the existing iral gas supplies between 3-5 bcm/y between the planned entry points on
		Southern Corridor GRIP 2017–2026 Annex B

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		Interconnection Tur	key-Bulgaria			
TRA-N-140		Project		Pipeline including	g CS N	lon-FID
Update Date		29/06/2	2016		Non	-Advanced
Description Descri	allel to the operating nvisaged to outes of na	e gas pipeline in the section betwee existing transit gas pipeline of abou pressure 64 bar. A compressor stati b be built. The project, as part of the tural gas supply to/through Bulgari ion of a competitive gas market, in	ut 76 km length on Bulgarian ion Losenets – 2 near the exis e priority Southern Gas Corric ia and the region. Its impleme	territory, diameter of t ting compressor statio for is crucial in terms o entation is directly rela	the pipe 700 mm a on in the region of the f security and dive ted to achievemen	nd capacity of the village of rsification of
Regulatory Decisions and similar material conditions Capacity Increments Variant For Modelling						
Point		Operator	Year	From Gas System	To Gas System	Capacity
nterconnector ITB (Turkey - Bulgaria) (BG>TR)		Bulgartransgaz EAD	2020	BGn	BG/ITB	97.0 GWh/
nterconnector ITB (Turkey - Bulgaria) (TR>BG)		Bulgartransgaz EAD	2020	BG/ITB	BGn	97.0 GWh/
Sponsors		General Infor	mation	No Ba	arriers Defined	
Bulgartransgaz EAD for the gas pipeline section	100%	Promoter	Bulgartransgaz EAD			8
on the terr <mark>itory of Bu</mark> lgaria	10070	Operator	Bulgartransgaz EAD			Barriers (Count
		Host Country	Bulgaria			sic
		Status	Planned			our
		Website	Project's URL			đ
		Publication Approval Status	Approved			

Specific Criteria Fulfilled Comments

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ND	PP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	egime
Part of NDP	Yes (2016-2025 Ten-year network	Pre-Feasibility			Considered TPA Regime	Regulated
	development plan of BTG)	Feasibility	08/2015	02/2016	Considered Tariff Regime	Regulated
NDP Number	ITB	FEED			Applied for Exemption	No
		Market Test		05/2017	Exemption Granted	Not Relevant
Currently PCI	Yes (7.4.2.)	Permitting	08/2017	11/2017		
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction	12/2018	07/2020		
		Commissioning	2020	2020		

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
ITB Bulgarian Section		700	76	13
ITB Turkish Section			130	
Total			206	13
	PCI Details			

PCI BenefitsProject 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, Project concerns investment in reverse flow capacityGeneral Criteria FulfilledYesSpecific Criteria FulfilledCompetition, Market Integration, Security of Supply, SustainabilityThe situation of the project for the state st

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

		Time Schedule		
Grant Obtention Date				
Delay Since Last TYNDP	yes			
Delay Explanation		ult of the Feasibility Study conducted in 2015 the preliminary project data such as route, lengt equipment, investment costs and time schedule have been precised.	th, diameter, c	capacity, pressure, above
		Expected Gas Sourcing		
Caspian Region, LNG (),	SGC, Azerbaijan, LN	G, Iran, Turkmenistan and other entering Turkish system which has 6 entry points.		
		Benefits		
/lain Driver	Others			
lain Driver Explanation	1			
senetit Description		as supply • Enhancing security of supply (by reducing the dependency on one source of gas su		
enent Description		rgy market • Encouraging and increasing market competitiveness • Contributing to the gas m		ation
			arket liberaliz	ation Agreement Signature
Agreement loint Declaration of the and Natural Resources of Turkey and the Minister Energy and Tourism of t Bulgaria on Energy Coo	the EU internal ene Minister of Energy of the Republic of of Economy, the Republic of	rgy market • Encouraging and increasing market competitiveness • Contributing to the gas m Intergovernmental Agreements	arket liberaliz	
Agreement oint Declaration of the and Natural Resources of Furkey and the Minister Energy and Tourism of t	the EU internal ene Minister of Energy of the Republic of of Economy, the Republic of peration	rgy market • Encouraging and increasing market competitiveness • Contributing to the gas m Intergovernmental Agreements Agreement Description	arket liberaliz Is Signed	Agreement Signature

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TRA-N-298	Project		Pipeline including	CS N	on-FID
Update Date	22/06/2016			Non-	Advanced
Description	A multicomponent project which consists of different actions for rehabilitatic infrastructure in Bulgaria and includes activities on: CSs modernization, inspe existing network and implementation of systems for optimization of the man account the complex nature of the project, a 3 phases implementation is env	ections, repair and nagement process visaged: Phase 1: L	replacement of pipeli of the network techni	ne sections, expar ical condition. Tak	nsion of the ing into
	planned to be finalized in a short term and funded with BTG own resources. I logic continuation of the overall realization of the project following the imple after taking the FID for stage 2 of the Interconnection Bulgaria – Serbia.		actions planned to be	initiated in 2016.	They represe
similar material conditions Capacity Increments Varian	logic continuation of the overall realization of the project following the imple after taking the FID for stage 2 of the Interconnection Bulgaria – Serbia.		actions planned to be se 1. Phase 3: Conditio	initiated in 2016.	They represen
similar material conditions Capacity Increments Varian	logic continuation of the overall realization of the project following the imple after taking the FID for stage 2 of the Interconnection Bulgaria – Serbia.	ementation of Pha	actions planned to be	initiated in 2016. onal infrastructure	They represe
Regulatory Decisions and similar material conditions Capacity Increments Varian Point	logic continuation of the overall realization of the project following the imple after taking the FID for stage 2 of the Interconnection Bulgaria – Serbia. t For Modelling Operator	ementation of Pha Year 2020	actions planned to be ise 1. Phase 3: Condition From Gas System BGn	initiated in 2016. onal infrastructure To Gas System RS	They represe e necessary Capacity 19.4 GWh/

	Comment: infrastructure n	ecessary for stage 2 of	the Interconnection	Bulgaria – Serb	ia.
Kulata (BG) / Sidirokastron (GR)	Bulgartransgaz EAD	2020	BGg/BGT	GR	13.8 GWh/d
Strandzha (BG) / Malkoclar (TR)	Bulgartransgaz EAD	2020	BGg/BGT	TRe	58.1 GWh/d

Sponsors		General Infor	mation	No Barriers Defined	
Bulgartransgaz EAD	100%	Promoter	Bulgartransgaz EAD		B
		Operator	Bulgartransgaz EAD		rrier
		Host Country	Bulgaria		S (C
		Status	Planned		e i
		Website	Project's URL		Ē
		Publication Approval Status	Approved		

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access F	Regime
Part of NDP	Yes (2016-2025 Ten-year network			12/2016	Considered TPA Regime	Not Applicable
	development plan of BTG)	Feasibility		08/2017	Considered Tariff Regime	Not Applicable
NDP Number	Section 5.5.	FEED			Applied for Exemption	Not Relevant
		Market Test		05/2017	Exemption Granted	Not Relevant
Currently PCI	Yes (6.8.2.)	Permitting		11/2018		
		Supply Contracts		11/2018	Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction		11/2020		
		Commissioning	2020	2020		

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
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
Lozenets-Nedyalsko		1,000	20	
PF Beglej - VA Dermantsi - VA Batultsi - VA Kalugerovo		700	58	
Valchi Dol - Preselka		700	23	
	Total		120	20

PCI Details

PCI Benefits General Criteria Fulfilled Specific Criteria Fulfilled 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, Project concerns investment in reverse flow capacity No

Competition, Market Integration, Security of Supply, Sustainability

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.

| 23

		Time Schedule
Grant Obtention Date		
Delay Since Last TYNDP	yes	
Delay Explanation	Change in the projects scope.	
		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), Romania (IBR), Turkey (ITB) and Serbia (IBS) and with the use of the UGS Chiren's capacity in relation to the project for its expansion, most of them labeled 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.

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		Eastring - Bulgaria				
TRA-N-654		Project	Р	ipeline including	CS N	on-FID
Jpdate Date		31/05/2016			Non	Advanced
Description Regulatory Decision imilar material cor	Kapušany at the SK-UA bor from SK to RO – via UA, (ex continuing to IP Isaccea and areas and continuing to an therefore it will increase ga Southern Europe and (iii) m	g-SK is subproject located in Slovakia/Ukraine der, with a new entry IP at an external border of kist. pipeline) – via HU, (new pipeline). – from F d to BG/TR border by utilizing existing RO-BG t external border of the EU on the territory of Bu s SoS in the broader Central-South-East EU reg lean step towards EU single gas market.	of the EU on the territor RO to TR – Option A - ransit assets – Option Ilgaria. The project we	bry of Bulgaria in the f - new pipeline passing n B – new pipeline, pas buld (i) secure supplies	following routing g production & st ssing 2 productions s in case of RU di	options: – torage area an on & storage isruption and
	ts Variant For Modelling Variant : Eastring - BG-2	High capacity scenario, starting at pipeline to a new IP at BG-TR bor		rder, passing through	BG using new	
Point		Operator	Year	From Gas System	To Gas System	Capacity
		Bulgartransgaz EAD	2021	BGn	BG/EAR	200.0 GWh/o
		Comment: Entry/Exit capacity at do all Exit capacities from domestic sys				
astring BG Domes	tic Point	Bulgartransgaz EAD	2021	BG/EAR	BGn	200.0 GWh/d
		Comment: Entry/Exit capacity at do all Exit capacities from domestic sys	, , , , , , , , , , , , , , , , , , , ,	,		
		Bulgartransgaz EAD	2021	BG/EAR	RO/EAR	570.0 GWh/c
		Comment: New interconnection	point, New capacity i	ncrement from 4Q 202	25 to the level of 1140 GWh/d.	
astring Cross-Bord	der BG/EAR <> RO/EAR	Bulgartransgaz EAD	2021	RO/EAR	BG/EAR	570.0 GWh/c
		Comment: New interconnection	point, New capacity i	ncrement from 4Q 202	25 to the level of 1140 GWh/d.	

Bulgartransgaz EAD

2025

BG/EAR

570.0 GWh/d

RO/EAR

Irrent TYNDP : TYNDP 2017 - Annex A	Pulgertroper FAD	2025			age 48 of 620		
Eastring Cross-Border BG/EAR <> RO/EAR	Bulgartransgaz EAD	2025	RO/EAR	BG/EAR	570.0 GWh/d		
	Bulgartransgaz EAD	2021	BG/EAR	TRe	570.0 GWh/c		
Eastring Cross-Border BG/EAR>TR	Comment: Transmission between New	0 0	nd Turkey via a new I om 4Q 2023 to the le				
	Bulgartransgaz EAD	2025	BG/EAR	TRe	570.0 GWh/d		
	Bulgartransgaz EAD	2021	TRr	BG/EAR	570.0 GWh/d		
Eastring Cross-Border TR>BG/EAR	Comment: Transmission betweer New	0 0	nd Turkey via a new a om 4Q 2025 to the le				
	Bulgartransgaz EAD	2025	TRr	BG/EAR	570.0 GWh/c		
Capacity Increments Variant(s) For Information Only							
Variant : Eastring - BG-4	Low capacity scenario (low in dire through BG using new pipeline to			6 border, passing			
Point	Operator	Year	From Gas System	To Gas System	Capacity		
	Bulgartransgaz EAD	2021	BGn	BG/EAR	200.0 GWh/c		
	Comment: Entry/Exit capacity at domestic points may go up to the level of 200GWh/d if sum of all Exit capacities from domestic system to adjacent networks (or vice versa) is able to reach this level.						
Eastring BG Domestic Point	Bulgartransgaz EAD	2021	BG/EAR	BGn	200.0 GWh/c		
	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.						
	Bulgartransgaz EAD	2021	BG/EAR	RO/EAR	342.0 GWh/c		
	Comment: New interconnection po	int, New capacity incl	rement from 4Q 2025 GWh/d. Exit means				
Eastring Cross-Border BG/EAR <> RO/EAR	Bulgartransgaz EAD	2021	RO/EAR	BG/EAR	570.0 GWh/d		
Easting Cross-border bo/EAR <> KO/EAR	Comment: New interconnection point, New capacity increment from 4Q 2025 to the level of 1140 GWh/d.						
	Bulgartransgaz EAD	2025	BG/EAR	RO/EAR	712.0 GWh/d		
	Bulgartransgaz EAD	2025	RO/EAR	BG/EAR	570.0 GWh/d		
	Bulgartransgaz EAD	2021	BG/EAR	TRe	342.0 GWh/c		
Eastring Cross-Border BG/EAR>TR	Comment: Transmission between New capacity increment from 4Q						

Irrent TYNDP : TYNDP 2017 - Annex A				Р	age 49 of 620
Fostring Cross Bouder BC (FAD) TD	Bulgartransgaz EAD	2025	BG/EAR	TRe	712.0 GWh/0
Eastring Cross-Border BG/EAR>TR			Comment: Exit mean	s direction BG->TR.	
	Bulgartransgaz EAD	2021	TRr	BG/EAR	570.0 GWh/
Eastring Cross-Border TR>BG/EAR	Comment: Transmission between New	Eastring - Bulgaria ar capacity increment fro			
	Bulgartransgaz EAD	2025	TRr	BG/EAR	570.0 GWh/
Capacity Increments Variant(s) For Information Only					
Variant : Eastring - BG-1	High capacity scenario, starting a using upgraded existing pipeline	-		ng through BG	
Point	Operator	Year	From Gas System	To Gas System	Capacity
	Bulgartransgaz EAD	2021	BGn	BG/EAR	200.0 GWh/
	Comment: Connection of Eastring at domestic points may go domestic system		GWh/d if sum of all l	Exit capacities from	
astring BG Domestic Point	Bulgartransgaz EAD	2021	BG/EAR	BGn	200.0 GWh/
	Comment: Connection of Eastring at domestic points may go domestic system		GWh/d if sum of all l	Exit capacities from	
	Bulgartransgaz EAD	2021	TRi	BGg/BGT	570.0 GWh/
Malkoclar (TR) > Strandzha (BG)	Comment: Transmission between Bulgaria and Turkey via existing transmission system at IP Malkoclar, New capacity increment from 4Q 2025 to the level of 1140 GWh/d.				
	Bulgartransgaz EAD	2025	TRi	BGg/BGT	570.0 GWh/
	Bulgartransgaz EAD	2021	BGg/BGT	RO/TBP	570.0 GWh/
	Comment: Transmission via ex GWh/d, New	sting IP Negru-Voda capacity increment fro		· · ·	
Negru Voda II, III (RO) / Kardam (BG)	Bulgartransgaz EAD	2021	RO/TBP	BGg/BGT	570.0 GWh/
Negra voda II, III (KO) / Kardam (BG)	Comment: Transmission via existing IP Negru-Voda with increase of capacity at lewel of 570 GWh/d, New capacity increment from 4Q 2025 to the level of 1140 GWh/d.				
	Bulgartransgaz EAD	2025	BGg/BGT	RO/TBP	570.0 GWh/
		2025	DO TRO		
	Bulgartransgaz EAD	2025	RO/TBP	BGg/BGT	570.0 GWh/

urrent TYNDP : TYNDP 2017 - Annex A				P	age 50 of 620	
Strandzha (BG) / Malkoclar (TR)	Comment: Transmission betw Malkoclar, Nev	veen Bulgaria and Turkey w capacity increment fro				
	Bulgartransgaz EAD	2025	BGg/BGT	TRe	570.0 GWh/d	
Capacity Increments Variant(s) For Information Only						
Variant : Eastring - BG-3	Low capacity scenario (low in di passing through BG using upgr					
Point	Operator	Year	From Gas System	To Gas System	Capacity	
	Bulgartransgaz EAD	2021	BGn	BG/EAR	200.0 GWh/d	
Eastring BG Domestic Point	Comment: Connection of Eastri at domestic points may g domestic syste		GWh/d if sum of all E	Exit capacities from		
Easting by Domestic Point	Bulgartransgaz EAD	2021	BG/EAR	BGn	200.0 GWh/d	
	Comment: Connection of Eastri at domestic points may go domestic syste		GWh/d if sum of all E	Exit capacities from		
	Bulgartransgaz EAD	2021	TRi	BGg/BGT	570.0 GWh/d	
Malkoclar (TR) > Strandzha (BG)	Comment: Transmission between Eastring - Bulgaria and Turkey via existing IP Malkoclar, New capacity increment from 4Q 2025 to the level of 1140 GWh/d.					
	Bulgartransgaz EAD	2025	TRi	BGg/BGT	570.0 GWh/d	
	Bulgartransgaz EAD	2021	BGg/BGT	RO/TBP	342.0 GWh/d	
	Comment: Transmission via e GWh/d, New capacity increment	5 5				
	Bulgartransgaz EAD	2021	RO/TBP	BGg/BGT	570.0 GWh/d	
Negru Voda II, III (RO) / Kardam (BG)	Comment: Transmission via existing IP Negru-Voda with increase of capacity at level of 570 GWh/d, New capacity increment from 4Q 2023 to the level of 1140 GWh/d.					
	Bulgartransgaz EAD	2025	BGg/BGT	RO/TBP	712.0 GWh/d	
		С	omment: Exit means	direction RO->BG.		
	Bulgartransgaz EAD	2025	RO/TBP	BGg/BGT	570.0 GWh/d	
	Bulgartransgaz EAD	2021	BGg/BGT	TRe	342.0 GWh/d	
Strandzha (BG) / Malkoclar (TR)	Comment: Transmission between capacity increment from 40					

712.0 GWh/d Barriers (Count)
Barriers (Count)
Barriers (Count)
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Regime
Not Applicabl
Not Applicabl
Not Relevan
Not Relevan
0.00%
0.00%

Eastring - BG-2	High capacity scenario, starting at new IP at RO-BG border, passing through BG using new pipeline to a new IP at BG-TR border	ł		
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
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 2025, compressor power at level of 374 MW will be needed	1,400	257	88
	Total		257	88

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Pipelines and Compressor	Stations - Alternative Va	ariant			
Eastrin	ng - BG-1	High capacity scenario, starting at Negru-Voda IP at RO-BG border, passing through BG using upgraded existing pipelines to Malkoclar IP at BG-TR border			
Pipelin	e Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Eastri	ng-BG-1	Length of used existing pipeline - 259 km	1,200	0	0
		Total		0	0
Pipelines and Compressor	Stations - Alternative Va	ariant			
Eastrir	ng - BG-3	Low capacity scenario (low in direction N->S), starting at Negru-Voda IP at RO-BG border, passing through BG using upgraded existing pipelines to Malkoclar IP at BG-TR border			
Pipelin	e Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Eastri	ng-BG-3	Length of used existing pipeline - 259 km	1,200	0	0
		Total		0	0
Pipelines and Compressor	Stations - Alternative Va	ariant			
Eastrir	ng - BG-4	Low capacity scenario (low in direction N->S), starting at new IP at RO-BG border, passing through BG using new pipeline to new IP at BG-TR border			
Pipelin	e Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Eastri	ng-BG-4	Data refers to the first stage - capacity 570 GWh/d, in case of increase of capacity up to 1140 GWh/d in 2025, compressor power at level of 374 MW will be needed	1,400	257	90
		Total		257	90
		PCI Details			
PCI Benefits		s the capability to transmit gas across the borders of the member state nmissioning of the project, Project concerns investment in reverse flow		t least 10%, co	ompared to the situation
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Competition, M	larket Integration, Security of Supply, Sustainability			
Specific Criteria Fulfilled Co	mments				
		Expected Gas Sourcing			

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	Comments Benefits: - 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 suppl 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.

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		UGS Chiren Exp	ansion			
JGS-N-138		Project		Storage Facilit	y N	on-FID
Jpdate Date		26/05/20	016		Non	Advanced
Description	pressures and higher daily av	gas storage facility on the territory erage injection and withdrawal flow and withdrawal rate up to 8 – 10 mo	rates. The project provides for			
Regulatory Decisions and imilar material conditior						
Capacity Increments Vari	ant For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
GMS Chiren		Bulgartransgaz EAD	2022	STcBGn	BGn	61.5 GWh/o
		Bulgartransgaz EAD	2022	BGn	STcBGn	61.5 GWh/o
Sponsors		General Inform	nation	No Ba	rriers Defined	
Bulgartransgaz EAD	100%	Promoter	Bulgartransgaz EAD			8
		Operator	Bulgartransgaz EAD			Barriers (Count)
		Host Country	Bulgaria			sic
		Status	Planned			oun
		Website	Project's URL			0
		Publication Approval Status	Approved			1. S.

NDP and PCI Information		Schedule	Start Date	End Date	Third-Party Access Regi	me
Part of NDP	Yes (2016-2025 Ten-year network	Pre-Feasibility		06/2011	Considered TPA Regime	Regulated
ו מונ טו ואשר	development plan of BTG)	Feasibility	01/2015	01/2017	Considered Tariff Regime	Regulated
NDP Number	Section 5.3 (5.3.1)	FEED	01/2017	12/2017	Applied for Exemption	Not Relevant
		Market Test		05/2017	Exemption Granted	Not Relevant
Currently PCI	Yes (6.20.2.)	Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID		01/2019	Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction	01/2020	12/2021		
		Commissioning	2022	2022		
с. г . Ш.		Technical	Information (UGS)			
Storage Facility	UGS Chiren					
Storage Facility Type	Aquifer					
Multiple-Cycle	No					
Working Volume (mcm)	450.00	450				
	Destant start of 1000 s		PCI Details			
PCI Benefits		the intrastructure standa directly at least two Meml		ai ievei in acco	ordance with Article 6(3) of Regulation EL	J, Project aims at
General Criteria Fulfilled	No					
Specific Criteria Fulfilled		tegration, Security of Sup	ply			
speenie entena rannea		legiation, becamy of bap	Piy			
	The project for its expan	sion aims on one hand a	t creating conditions to	ansura sacu	rity of supplies to Bulgarian users and us	ers in the
					rity of supplies to Bulgarian users and us al gas storage in an interconnected regio	
Spacific Critaria Eulfillad (countries from the region wide market, as UGS Ch	on, and on the other - UG iren is an integral part of	S Chiren development the plans for developr	as commerci nent of the re	al gas storage in an interconnected regio gional gas system consisting of intercon	nal and Europe- nections, LNG
Specific Criteria Fulfilled C	countries from the region wide market, as UGS Ch terminals, storage facilit	on, and on the other - UG iren is an integral part of ies. In the medium term	S Chiren development the plans for developr UGS Chiren promises to	as commercianent of the re become a co	al gas storage in an interconnected regio gional gas system consisting of intercon ommercial facility with a significant role i	nal and Europe- nections, LNG n competition
Specific Criteria Fulfilled C	countries from the region wide market, as UGS Ch terminals, storage facilit development in the region	on, and on the other - UG iren is an integral part of ies. In the medium term l ional gas market and in p	S Chiren development the plans for developr UGS Chiren promises to provision of additional f	as commerci nent of the re b become a co lexibility of th	al gas storage in an interconnected regio gional gas system consisting of intercon ommercial facility with a significant role i ne gas transmission systems at regional le	nal and Europe- nections, LNG n competition
Specific Criteria Fulfilled C	countries from the region wide market, as UGS Ch terminals, storage facilit development in the region	on, and on the other - UG iren is an integral part of ies. In the medium term l ional gas market and in p to congestion manageme	S Chiren development the plans for developr UGS Chiren promises to provision of additional f ent and seasonal optim	as commerci nent of the re b become a co lexibility of th	al gas storage in an interconnected regio gional gas system consisting of intercon ommercial facility with a significant role i	nal and Europe- nections, LNG n competition
Specific Criteria Fulfilled C	countries from the region wide market, as UGS Ch terminals, storage facilit development in the region	on, and on the other - UG iren is an integral part of ies. In the medium term l ional gas market and in p to congestion manageme	S Chiren development the plans for developr UGS Chiren promises to provision of additional f	as commerci nent of the re b become a co lexibility of th	al gas storage in an interconnected regio gional gas system consisting of intercon ommercial facility with a significant role i ne gas transmission systems at regional le	nal and Europe- nections, LNG n competition
Specific Criteria Fulfilled C Grant Obtention Date	countries from the region wide market, as UGS Ch terminals, storage facilit development in the region	on, and on the other - UG iren is an integral part of ies. In the medium term l ional gas market and in p to congestion manageme	S Chiren development the plans for developr UGS Chiren promises to provision of additional f ent and seasonal optim	as commerci nent of the re b become a co lexibility of th	al gas storage in an interconnected regio gional gas system consisting of intercon ommercial facility with a significant role i ne gas transmission systems at regional le	nal and Europe- nections, LNG n competition
	countries from the region wide market, as UGS Ch terminals, storage facilit development in the region	on, and on the other - UG iren is an integral part of ies. In the medium term l ional gas market and in p to congestion manageme	S Chiren development the plans for developr UGS Chiren promises to provision of additional f ent and seasonal optim	as commerci nent of the re b become a co lexibility of th	al gas storage in an interconnected regio gional gas system consisting of intercon ommercial facility with a significant role i ne gas transmission systems at regional le	nal and Europe- nections, LNG n competition
Grant Obtention Date	countries from the region wide market, as UGS Ch terminals, storage facilit development in the region significant contribution	on, and on the other - UG iren is an integral part of ies. In the medium term l ional gas market and in p to congestion manageme	S Chiren development the plans for developr UGS Chiren promises to provision of additional f ent and seasonal optim	as commerci nent of the re b become a co lexibility of th	al gas storage in an interconnected regio gional gas system consisting of intercon ommercial facility with a significant role i ne gas transmission systems at regional le	nal and Europe- nections, LNG n competition
Grant Obtention Date	countries from the region wide market, as UGS Ch terminals, storage facilit development in the region significant contribution	on, and on the other - UG iren is an integral part of ies. In the medium term l ional gas market and in p to congestion manageme	S Chiren development the plans for developr UGS Chiren promises to provision of additional f ent and seasonal optim	as commerci nent of the re b become a co lexibility of th	al gas storage in an interconnected regio gional gas system consisting of intercon ommercial facility with a significant role i ne gas transmission systems at regional le	nal and Europe- nections, LNG n competition evel, with a

Comissioning: 2022 Delays due to postponement of some tender procedures for selection of contractors for the studies.

		ed Gas Sourcing
aspian Region, Russia,	LNG (), Southern gas corridor gas sources; European gas hubs;	
		Benefits
Aain Driver	Regulation SoS	
Main Driver Explanation	covering seasonal fluctuations in natural gas consumption in supplies and consumption and ensures emergency reserve. U UGS Chiren promises to become a commercial facility with a	f Bulgaria for 40 years. It is a key instrument for the functioning of the gas market in Bulgaria, the country by securing the necessary flexibility caused by the differences between the JGS Chiren is a crucial instrument ensuring the security of gas supplies. In the medium term significant role in competition development in the regional gas market and in provision of nal level, with a significant contribution to congestion management and seasonal optimization
enefit Description	region, and on the other - UGS Chiren development as comm	onditions to ensure security of supplies to Bulgarian users and users in the countries from the mercial gas storage in an interconnected regional and Europe-wide market, as UGS Chiren is I gas system consisting of interconnections, LNG terminals, storage facilities.
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		Looping C	S Valchi Dol - Line valve Novi Iskar		
TRA-N-592		Pro	oject	Pipeline including CS	Non-FID
Update Date			27/05/2016		Non-Advanced
Description	383 km looq bcm/y (128, mcm/y). In t projects, for	bing with a diameter of Dn 700 f 3 GWh/d) in the direction to Ro the context of the European objection ming the gas hub concept, is in	kar: Modernisation of the national gas trans from CS Valchi dol to line valve Novi Iskar. The mania (through IBR) and Chiren UGS (for trans ectives to build an interconnected and single line with the projects for the development of in Europe to enhance the security of supply	e realization of the project will ensu nsmission during injection and witho pan-European marker, the realization f the Southern gas corridor and in fu	rre new exit capacity of a drawal amounting to 50 on of the presented ull compliance with the
Regulatory Decis similar material c	sions and				supply sources.
Sponsors			General Information	No Barriers Defin	ned
Bulgartransgaz E	AD	100% Promoter	Bulgartransgaz EA		Bar
	- Y	Operator	Bulgartransgaz EA	D	rier
		Host Country	Bulgar	a	rriers (Count
		Status	Planne	d	oun
		Website	Project's UF	<u>'L</u>	t
		Publication A	pproval Status Approve	d	
			Enabled Projects		
Project Code P	Project Name				
UGS-N-138 U	JGS Chiren Expansion				
TRA-F-057 Ir	nterconnection Bulgaria–F	Romania			
TRA-N-593 V	/arna-Oryahovo gas pipeli	ne			
TRA-N-594 C	Construction of a Looping	CS Provadia – Rupcha village			

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NDP and PCI Information		Schedule	Start Date	End Date	Third-Party Access Regime	
Part of NDP	Yes (2016-2025 Ten-year network				Considered TPA Regime	Regulated
	development plan of BTG)	Feasibility			Considered Tariff Regime	Regulated
NDP Number	Section 5.1. (5.1.1)	FEED			Applied for Exemption	No
		Market Test		05/2017	Exemption Granted	No
Currently PCI	Yes (6.25.4)	Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction		06/2022		
		Commissioning	2022	2022		

Pipelines and Compressor Sta	ations					
Pipeline	Section	Pipeline Comment	Diameter (mm) Length (km) Compressor Power (MW			
Looping CS Valchi Dol	- Line valve Novi Iskar	a new looping	700 383			
	Total		383			
		PCI Details				
PCI Benefits	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, Project concerns investment in reverse flow capacity					
General Criteria Fulfilled	Yes	Yes				
Specific Criteria Fulfilled	Competition, Market Integration	Competition, Market Integration, Security of Supply, Sustainability				
Specific Criteria Fulfilled Comr	sources to enter into a given re ments same time at this point – a hub strategic geographic location o	eal physical point in the region of Varna for the where every market participant could trade	d on the idea significant quantities of natural gas from different heir further transport and a venue for gas trade is organized at the in gas. The idea of building the gas hub is supported by the nfrastructure for transmission and storage and the projects for the			
		Expected Gas Sourcing				
Caspian Region, Russia, LNG (), Southern gas corridor gas sources;	European gas hubs; Black sea shelf gas; Dom	estic production;			
		Benefits				
Main Driver Requ	Ilation SoS					

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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 Main Driver Explanation 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.

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	Varna-Oryahovo g	as pipeline			
TRA-N-593	Project		Pipeline including	g CS 💦 N	lon-FID
Update Date	20/05/20	016		Non	-Advanced
Description IP at Varna to a new IP at Bul	icture, consisting of 844 km of gas p garia/Romanian border near Oryah otal installed capacity of 265 MW se	ovo city), ensuring an addition	nal capacity of 42,6 bc		
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/
ponsors ulgartransgaz EAD 100%	General Inform Promoter Operator Host Country Status Website Publication Approval Status	Bulgartransgaz EAD Bulgartransgaz EAD Bulgaria Planned <u>Project's URL</u> Approved	INO BA	rriers Defined	Barriers (Count)
			South	hern Corridor GRIP :	2017–2026 Anr

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regime	
Part of NDP	Yes (2016-2025 Ten-year network				Considered TPA Regime	Regulated
i dit of tibi	development plan of BTG)	Feasibility			Considered Tariff Regime	Regulated
NDP Number	Section 5.1. (5.1.1)	FEED			Applied for Exemption	No
		Market Test		05/2017	Exemption Granted	No
Currently PCI	Yes (6.25.4)	Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction		06/2022		
		Commissioning	2022	2022		

Pipelines and Compressor Sta					
Pipeline S	ection	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Varna-Oryahovo	gas pipeline	a new pipeline incl. 2 CS	1,200	844	265
	То	tal		844	265
		PCI Details			
PCI Benefits		bility to transmit gas across the borders of the member ng of the project, Project concerns investment in rever		least 10%, co	mpared to the situation
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Competition, Market Inte	gration, Security of Supply, Sustainability			
Specific Criteria Fulfilled Comn	sources to enter into a gi nents same time at this point – strategic geographic loca	tion of gas hub on the territory of Bulgaria is based on iven real physical point in the region of Varna for their a hub where every market participant could trade in g ation of Bulgaria, the well-developed existing gas infra- nections with Romania, Turkey, Greece and Serbia.	r further transport and a v gas. The idea of building	venue for gas the gas hub is	trade is organized at the supported by the
		Expected Gas Sourcing			
Caspian Region, Russia, LNG ()	Southern gas corridor gas sou	irces; European gas hubs; Black sea shelf gas; Domesti	ic production;		
		Benefits			

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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 Main Driver Explanation 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.

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	Cor	nstruction of a Looping CS P	rovadia – Rupcha village			
TRA-N-594		Project		Pipeline including	J CS N	Ion-FID
Update Date		27/05/2	2016		Non	-Advanced
Description Provac	lia to the village of Rup	network for transit transmission v ocha, replacement of 20 km (2x10 ase in the capacity of CS Strandja v	km) 12 of existing gas pipeline	s with diameter of Dn	1000 from CS Stra	andja to the
Regulatory Decisions and similar material conditions	,					
Capacity Increments Variant For Mo	delling	Operator	Year	From Gas System	To Gas System	Capacity
-oint		Bulgartransgaz EAD	2022	BGg/BGT	TRe	192.5 GWh/c
Strandzha (BG) / Malkoclar (TR)				<u> </u>	ent: a new looping	
Sponsors		General Infor	mation	No Ba	rriers Defined	
Provadia - Rupcha		Promoter	Bulgartransgaz EAD			Ba
Bulgartrasngaz EAD	100%	Operator	Bulgartransgaz EAD			rrier
Strandja-IP BG/TR		Host Country	Bulgaria			s (C
Bulgartrasngaz EAD	100%	Status	Planned			Barriers (Count)
		Website	<u>Project's URL</u>			0
		Publication Approval Status	Approved			

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regi	ime
Part of NDP	Yes (2016-2025 Ten-year network				Considered TPA Regime	Regulated
	development plan of BTG)				Considered Tariff Regime	Regulated
NDP Number	Section 5.1. (5.1.1)	FEED			Applied for Exemption	No
		Market Test		05/2017	Exemption Granted	No
Currently PCI	Yes (6.25.4)	Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction		06/2022		
		Commissioning	2022	2022		

Pipelines and Compressor Stations									
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)					
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						
Looping CS Provadia – Rupcha village	new looping and additional power to existing compressior station	1,200	50	10					
	Total		70	10					
	PCI Details								

PCI Benefits

General Criteria Fulfilled

Specific Criteria Fulfilled

Yes Competition, Market Integration, Security of Supply, Sustainability

Specific Criteria Fulfilled Comments

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

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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 Main Driver Explanation 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.

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Construction of new gas storage facility on the territory of Bulgaria UGS-N-141 Project Storage Facility Non-FID 04/05/2016 Update Date Non-Advanced The construction of a new (second) gas storage is envisaged on the territory of Bulgaria. It could be constructed in suitable geological structure -depleted gas fields (onshore or offshore), salt caverns or aquifer. It must however be kept in mind that the construction of a new underground gas Description storage from the start of the geological and research activities to its commissioning could take not less than 7-8 years. Regulatory Decisions and similar material conditions **General Information** Sponsors No Barriers Defined **Bulgartransgaz EAD** Bulgartransgaz EAD 100% Promoter Barriers (Count) Bulgartransgaz EAD Operator Host Country Bulgaria Status Planned Website **Publication Approval Status** Approved Schedule End Date NDP and PCI Information **Third-Party Access Regime** Start Date Yes (2016-2025 Ten-year network Considered TPA Regime Regulated Pre-Feasibility Part of NDP development plan of BTG) Feasibility Not Applicable Considered Tariff Regime section 5.3.2. FEED NDP Number Applied for Exemption Not Relevant Market Test **Exemption Granted** Not Relevant **Currently PCI** No Permitting Exemption in entry direction 0.00% Supply Contracts **CBCA** Decision No _{FID} Exemption in exit direction 0.00% Not Relevant (no CBCA decision) Market Survey Construction Commissioning

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	<u></u>	hnical Information (UGS)
torage Facility	Not defined yet	
torage Facility Type	Aquifer	
lultiple-Cycle	No	
Vorking Volume (mcm)	0.00	
<u> </u>		
		Time Schedule
rant Obtention Date		
elay Since Last TYNDP	n/a	
elay Explanation		
		Benefits
lain Driver	Others	
lain Driver Explanation	Cluster 6.20 Increase storage capacity in South-East Eutransmission systems' flexibility, enhance market integ Ensuring additional storage capacity is important in te development in the country and the region. The new g	of Bulgaria is one of the stages of the concept for expansion of storage capacity in our region (PCI prope) - the Balkans, East and South-East Europe, aimed to increase storage capacity, ensure gas ration and guarantee the security of supply to the Bulgarian and regional natural gas market. rms of the expected additional natural gas quantities in the context of the gas infrastructure gas storage would serve not only the national, but also the regional gas market after the planned ghbouring countries and will serve as a tool to enhance security of gas supply.
enefit Description	(Cluster 6.20 Increase storage capacity in South-East E	of Bulgaria is one of the stages of the concept for expansion of storage capacity in our region urope), aimed to increase storage capacity, ensure gas transmission systems' flexibility, enhance ly to the Bulgarian, Greek, Turkish, Macedonian and Romanian as well as the rest of the regional -East Europe and South-East Europe.

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		Interconnection Bulg	ana - Serbia			
TRA-F-137		Project		Pipeline including	g CS	FID
Update Date		27/05/20	016		Ad	vanced
Description	Novi Iskar to Kalotina, BG (62 0.15 bcm/year. 2nd: the capa by construction of 2 CSs (20 I 3rd: by construction of the lo from SRB to BG the construct	ational gas transmission networks of .2 km) and from Nis to Dimitrovgrad city will be increased from BG to SR MW each) and 2 new gas pipeline se oping VS Batulsi - G Bogrov CS (62 cion of the pipeline Batajnica - V Ora se the capacity from 2.0 bcm/year to	d, SR (108 km), with capacity B to 2,4 bcm/year, and from S ections (from G Bogrov CS to km) the capacity from BG to S šje (116 km) will ensure trans	from BG to SRB - 1,0 k SRB to BG to 0,95 bcm N Iskar – 19 km and f SRB will be increased t	bcm/year, and from n/year, and later to from V. Orašje to Ni to 3,2 bcm/year. In	SRB to BG 1,5 bcm/yea is – 161 km the directio
Regulatory Decisions and imilar material conditions Capacity Increments Variant			, up to <u>Li</u> o 2011, j.			
	<u> </u>	Operator	Year	From Gas System	To Gas System	Capacit
		Operator IBS Future Operator	Year 2018	From Gas System BGn	To Gas System RS	
Point				BGn	-	
Point				BGn	RS	Capacity 51.0 GWh 51.0 GWh
Point Interconnector BG RS		IBS Future Operator	2018	BGn Comment: Ope RS	RS eartor to be defined	51.0 GWh
Point Interconnector BG RS		IBS Future Operator	2018 2018	BGn Comment: Ope RS Comment: Ope	RS eartor to be defined BGn	51.0 GWh
Point Interconnector BG RS Sponsors		IBS Future Operator	2018 2018	BGn Comment: Ope RS Comment: Ope	RS eartor to be defined BGn erator to be defined	51.0 GWh
Point Interconnector BG RS Sponsors Bulgarian section		IBS Future Operator IBS Future Operator General Inform	2018 2018 nation	BGn Comment: Ope RS Comment: Ope	RS eartor to be defined BGn erator to be defined	51.0 GWh
Point nterconnector BG RS Sponsors Bulgarian section Ministry of Energy of Bulgaria		IBS Future Operator IBS Future Operator General Inform Promoter	2018 2018 nation Ministry of Energy	BGn Comment: Ope RS Comment: Ope	RS eartor to be defined BGn erator to be defined	51.0 GWh
Point nterconnector BG RS Sponsors Bulgarian section Ministry of Energy of Bulgaria Serbian section	100%	IBS Future Operator IBS Future Operator General Inform Promoter Operator	2018 2018 nation Ministry of Energy IBS Future Operator	BGn Comment: Ope RS Comment: Ope	RS eartor to be defined BGn erator to be defined	51.0 GWh
Point		IBS Future Operator IBS Future Operator General Inform Promoter Operator Host Country	2018 2018 nation Ministry of Energy IBS Future Operator Bulgaria	BGn Comment: Ope RS Comment: Ope	RS eartor to be defined BGn erator to be defined	51.0 GWh

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regime	
Part of NDP	Yes (2016-2025 Ten-year network			02/2011	Considered TPA Regime	Regulated
	development plan of BTG)	Feasibility	12/2011	12/2012	Considered Tariff Regime	Regulated
NDP Number	Sectin 5.2 (5.2.3)	FEED			Applied for Exemption	No
		Market Test		05/2017	Exemption Granted	No
Currently PCI	Yes (6.10.)	Permitting		08/2016		
		Supply Contracts		04/2017	Exemption in entry direction	0.00%
CBCA Decision	No	FID		12/2012	Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction	05/2017	12/2018		
		Commissioning	2018	2018		

Pipelines and Compressor Sta	ations				
Pipeline	Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Bulgarian	territory	1.8 bcm/y maximum capacity	700	62	
Serbian to	erritory	1.8 bcm/y maximum capacity	700	108	
	Тс	otal		170	
		PCI Details			
PCI Benefits	prior to the commission	ability to transmit gas across the borders of the memb ing of the project, Project aims at fulfilling the infrastru n EU, Project concerns investment in reverse flow capa	ucture standard (N-1) rule	e at regional le	evel in accordance with
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Competition, Market Int	egration, Security of Supply, Sustainability			
Specific Criteria Fulfilled Comr	nents				
		Expected Gas Sourcing			
Caspian Region, LNG (GR)					
		Benefits			
Main Driver Othe	rs				

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 Ag	greement Signature Date					
Joint statement by Bulgaria and Serbia	Joint statement signed in Brussels by Bulgaria and Serbia in 2010	Yes	05/03/2010					
Memorandum of Understanding between Bulgaria and Serbia	Memorandum of Understanding signed in Sofia between Bulgaria and Serbia in 2005	Yes	08/04/2005					

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	Interco		ce-Bulgaria (IGB Pro	Ject)			
TRA-F-378		Project			Pipeline including	J CS	FID
Jpdate Date			06/05/2016			Ac	lvanced
Description	Construction of a bi-directional gas inte capacity of 3bcm/y, capable to be incre		5 1			ulgaria with a techr	nical forward
Regulatory Decisions and imilar material conditions	The current market test is conducted ur 36 of the 2009/73/EC gas directive: RAE allocation of capacity on the IGB INTER interested parties to express their interest	decision No.438 CONNECTOR act	3/23.11.2015 , EWRC decis cording to paragraph 6 of	sion No.y-2/2 article 36 of	7.11.2015 : "Updated Directive 2009/73/EC	Guidelines for main – PHASE I: Invitati	nagement and on of
Capacity Increments Variant	-	Operator		Year	From Gas System	To Gas System	Capacity
		CGB a.d.		2018	GR/TAP	BG/IGB	90.0 GWh/d
					Comment: Initial c	apacity of 3 bcm/y	
Komotini - TAP / IGB		CGB a.d.		2021	GR/TAP	BG/IGB	60.5 GWh/c
			Comment	Added by EN	ITSOG to match the e.	xit at Stara Zagora	
	I	CGB a.d.		2018	IB-GRk	BG/IGB	90.0 GWh/c
			Comment: In	crement could	d also be done in corre	elation with DESFA	
Komotini (DESFA) - GR / IGB	Ī	CGB a.d.		2021	IB-GRk	BG/IGB	60.5 GWh/d
			elevant committmens from nected with IGB, the IGB t 3bcm/y to up to 5 bcm/j	ransportation	capacity could be inc	reased from up to	
	I	CGB a.d.		2018	BG/IGB	BGn	90.0 GWh/d
					Comment: Initial c	apacity of 3 bcm/y	
Stara Zagora - IGB / BG		CGB a.d.		2021	BG/IGB	BGn	60.5 GWh/d
			elevant committmens froi nected with IGB, the IGB t 3bcm/y to up to 5 bcm/	ransportation	capacity could be inc	reased from up to	

Current TYNDP : T	YNDP 2017 - Annex A					Page 33 of 620
Sponsors		General In	formation			
BEH EAD	50%	Promoter		ICGB a.d.	Regulatory	1 🗳
IGI Poseidon	50%	Operator		ICGB a.d.	Political	1 Barriers (Count)
		Host Country		Bulgaria	Permit Granting	1 0
		Status		Planned	Ů	
		Website		<u>Project's URL</u>	Market	Ē
		Publication Approval Status		Approved		
N	DP and PCI Information	Schedule	Start Date	End Date	Third-Party Acces	ss Regime
Part of NDP	Yes (Included in both the TYNDPs of	Pre-Feasibility		12/2009	Considered TPA Regime	Not Applicable
	Greece and Bulgaria)	Feasibility	05/2009	07/2009	Considered Tariff Regime	Not Applicable
NDP Number	not applicable	FEED	08/2008	03/2016	Applied for Exemption	Yes
		Market Test		09/2016	Exemption Granted	Not Yet
Currently PCI	Yes (6.8.1)	Permitting	08/2010	11/2016		
		Supply Contracts		12/2016	Exemption in entry direction	0.00%
CBCA Decision	No	FID		12/2015	Exemption in exit direction	0.00%
Market Cumins						
Market Survey	Not Relevant (no CBCA decision)	Construction	03/2017	12/2018		

	PCI Details
PCI Benefits	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, Project concerns investment in reverse flow capacity
General Criteria Fulfilled	Yes
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.
	Time Schedule
Grant Obtention Date	
Delay Since Last TYNDP	2 years
	Southors Carridar CDID 2017 2026 Assor

Delay Explanation

Extension in permitting procedures for authorization of construction and of regulatory TPA procedure for new gas infrastructure

Algeria, Caspian Regio	.on, LNG (QA,US)
	Benefits
Main Driver	Market Demand
Main Driver Explanatio	ion Schedule towards commissioning will be affected by binding requests from shippers
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.
	Barriers
Barrier Type	Description
Regulatory	The regulatory framework has to provide more streamlined process for decisions on TPA regime and licencing, and ensure a viable rate of financial ret 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
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.
	Southern Corridor GRIP 2017–2026

B Croatia

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Compressor station 1 at the Croatian gas transmission system

FRA-F-334		Project		Pipeline including CS	FID
Jpdate Date		25/05/2016	5		Advanced
Description	gas delivery pressure conditi significantly increase efficien in the system, primarily in a r	s is necessary due to the opening of th ons and for development of the gas m cy of the Croatian gas transmission sys nanner to increase the flexibility of ma acities according to user needs, that is, llation.	arket in Croatia and the tem. Compressor statior naging the existing trans	neighbouring countries. Compress is are integral part of the transmiss smission capacities of the system, a	or stations will sion system, integrate and to provide ration
egulatory De milar materia	ecisions and al conditions				
ponsors		General Informat	ion	No Barriers Defined	
Plinacro	100%	Promoter	Plinacro Ltd		
1		Operator	Plinacro Ltd		
		Host Country	Croatia		
		Status	Planned		
		Website	Project's URL		
		Publication Approval Status	Approved		
		Enabled Projects	S		
Project Code	Project Name				
RA-N-066	Interconnection Croatia -Bosnia and Herzeg	ovina (Slobodnica- Bosanski Brod)			
RA-N-075	LNG evacuation pipeline Zlobin-Bosiljevo-S	sak-Kozarac			
RA-N-070	Interconnection Croatia/Serbia (Slobdnica-S	otin-Bačko Novo Selo)			
RA-F-86	Interconnection Croatia/Slovenia (Lučko - Z	abok - Rogatec)			
RA-N-1058	LNG Evacuation Pipeline Kozarac-Slobodnic	а			

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and PCI Information	Schedule	Start Date	End Date	Third-Party Access F	Regime
Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Not Applicable
5.1,	Feasibility	11/2014	03/2015	Considered Tariff Regime	Not Applicable
	FEED			Applied for Exemption	No
Yes (6.26.3)	Market Test		08/2016	Exemption Granted	No
	Permitting	06/2015	12/2017		
No	Supply Contracts		01/2017	Exemption in entry direction	0.00%
Not Relevant (no CBCA decision)	FID		04/2015	Exemption in exit direction	0.00%
	Construction	01/2017	12/2017		
	Commissioning	2017	2017		
	Р	PCI Details			
	Yes (2017-2026) 5.1, Yes (6.26.3) No	Yes (2017-2026)Pre-Feasibility5.1,FeasibilityFEEDYes (6.26.3)Market TestPermittingNoSupply ContractsNot Relevant (no CBCA decision)FIDConstructionCommissioning	Yes (2017-2026)Pre-Feasibility5.1,Feasibility11/2014FEEDFEEDFEEDYes (6.26.3)Market Test06/2015Not Relevant (no CBCA decision)FIDFIDConstruction01/2017	Yes (2017-2026) Pre-Feasibility 11/2014 03/2015 FEED FEED 08/2016 Yes (6.26.3) Market Test 08/2015 Permitting 06/2015 12/2017 Not Relevant (no CBCA decision) FID 04/2015 Construction 01/2017 12/2017 Commissioning 2017 2017	Yes (2017-2026)Pre-Feasibility11/2014Considered TPA Regime5.1,Feasibility11/201403/2015Considered Tariff RegimeFEEDApplied for ExemptionYes (6.26.3)Market Test08/2016Exemption GrantedPermitting06/201512/2017VortexNoSupply Contracts01/2017Exemption in entry directionNot Relevant (no CBCA decision)FID04/2015Exemption in exit directionCommissioning201720172017

PCI Benefits

General Criteria Fulfilled Specific Criteria Fulfilled 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, Project concerns investment in reverse flow capacity

Competition, Market Integration, Security of Supply, Sustainability

Specific Criteria Fulfilled Comments

Yes

	Benefits
Main Driver	Regulation SoS
Main Driver Explanatic	n 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.

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TRA-F-86		Project		Pipeline including	g CS	FID
Update Date		13	3/07/2016		A	dvanced
Description	Rogatec, a new gas pipeline s Slovenian gas transmission sy	system has been planned whi ystems in this direction. Consi	ion Croatia/Slovenia. Along with th ch would significantly increase the idering almost all existing and new otentials in both directions. Along	capacity of the interco supply directions in th	onnection of the Cr	roatian and the jion and the
Regulatory Decisions an imilar material conditio	ons					
Capacity Increments Vai Point	riant For Modelling	Operator	Year	From Gas System	To Gas System	Capacity
De metere -	1	Plinacro Ltd	2019	HR	SI	162.0 GWh/
Rogatec		Plinacro Ltd	2019	SI	HR	162.0 GWh/0
Sponsors		General	Information			
	100%	General Promoter	Information Plinacro Ltd			B
	100%					Barrie
	100%	Promoter	Plinacro Ltd	Financing		Barriers (C
	100%	Promoter Operator	Plinacro Ltd Plinacro Ltd			Barriers (Cour
Sponsors Plinacro	100%	Promoter Operator Host Country	Plinacro Ltd Plinacro Ltd Croatia			Barriers (Count)
	100%	Promoter Operator Host Country Status	Plinacro Ltd Plinacro Ltd Croatia Planned <u>Project's URL</u>			Barriers (Count)

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N	DP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regime	9
Part of NDP	Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	1.24, 1.25	Feasibility	09/2014	12/2014	Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	Yes (6.26.1)	Market Test		06/2015	Exemption Granted	No
		Permitting	10/2015	01/2019		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	70.00%
Market Survey	Not Relevant (no CBCA decision)	FID		01/2016	Exemption in exit direction	30.00%
		Construction	01/2017	01/2019		
		Commissioning	2019	2019		

Pipeline S	Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Lučko-Z		·	700	33	
Zabok-Ro	ogatec		700	36	
	Total			69	
		PCI Details			
PCI Benefits		to transmit gas across the borders of the mer the project, Project concerns investment in re		least 10%, co	ompared to the situation
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Competition, Market Integration	on, Security of Supply, Sustainability			
Specific Criteria Fulfilled Comn	to 1.5 bcm/y. The pipeline will nents to result in reduced end-user e to Baumgarten and the Italian	ration of the Croatian gas market with the Eu have the reverse flow, so gas can flow from L energy prices providing the security of supply gas market providing an additional import of provision of gas supply to potential customer	NG Krk or IAP to Slovenia ar increasing the capacity alon f gas achievement of benefits	nd further to (ig the route p s of the open	Central Europe expected providing enhanced access
		Time Schedule			
Grant Obtention Date	25/04/2016				
Delay Since Last TYNDP					
Delay Explanation					
				Southorn Cor	ridor CDID 2017 2026 Ar

Expected Gas Sourcing

Caspian Region, LNG (HR,QA), IAP project, Baumgarten

	Comments about the T	hird-Party Access Regime	
TPA regime is not defin	d yet		
	Ber	nefits	
Main Driver	Market Demand		
Main Driver Explanatior	The current capacity is limited;the section from Lučko to Rogate gas from the Baumgarten. In addition, the source of the gas, in t from the Ionian – Adriatic Pipeline toward Slovenia and the neig therefore it is envisaged to be increased. By doubling the pipelin interconnection is vital for the security of supply of both the Cro	the near future) is going to be the gas from the LNG solution o hbouring countries. In this case the current pipeline capacity w ne, it is possible to use both the existing and future Croatian UG	on the island of Krk as well as vould not be sufficient;
	It will be significantly increase the capacity of the interconnection the capacity along the route, provide enhanced access to Baung provides accusity of supply for Croatia (N. 1 stitution has not have	garten and Italien gas market. The most important impacts and	benefits of this project: 1. It
Benefit Description	markets of Austria and Italy via the Slovenian system 3. It provid SEE countries (Hungary, Bosnia and Herzegovina, Serbia) 4. It p sources towards Slovenia, Austria and Italy as well as the countri	provides significant transit of gas from LNG terminal, Ionian-Ac	aly and Austria to CEE and
Benefit Description	markets of Austria and Italy via the Slovenian system 3. It provid SEE countries (Hungary, Bosnia and Herzegovina, Serbia) 4. It p sources towards Slovenia, Austria and Italy as well as the countri	es import and significant transit of gas from the direction of Ita provides significant transit of gas from LNG terminal, Ionian-Ac	aly and Austria to CEE and
	markets of Austria and Italy via the Slovenian system 3. It provid SEE countries (Hungary, Bosnia and Herzegovina, Serbia) 4. It p sources towards Slovenia, Austria and Italy as well as the countri	es import and significant transit of gas from the direction of Ita provides significant transit of gas from LNG terminal, Ionian-Ac les in their surrounding 5. It facilitates market integration	aly and Austria to CEE and
Barrier Type	markets of Austria and Italy via the Slovenian system 3. It provid SEE countries (Hungary, Bosnia and Herzegovina, Serbia) 4. It p sources towards Slovenia, Austria and Italy as well as the countri Ban	es import and significant transit of gas from the direction of Ita provides significant transit of gas from LNG terminal, Ionian-Ac les in their surrounding 5. It facilitates market integration	aly and Austria to CEE and
Benefit Description Barrier Type Financing	markets of Austria and Italy via the Slovenian system 3. It provid SEE countries (Hungary, Bosnia and Herzegovina, Serbia) 4. It p sources towards Slovenia, Austria and Italy as well as the countri Ban Description Availability of funds and associated conditions	es import and significant transit of gas from the direction of Ita provides significant transit of gas from LNG terminal, Ionian-Ac les in their surrounding 5. It facilitates market integration	aly and Austria to CEE and
Barrier Type Financing	markets of Austria and Italy via the Slovenian system 3. It provid SEE countries (Hungary, Bosnia and Herzegovina, Serbia) 4. It p sources towards Slovenia, Austria and Italy as well as the countri Ban Description Availability of funds and associated conditions	es import and significant transit of gas from the direction of Ita provides significant transit of gas from LNG terminal, Ionian-Ac les in their surrounding 5. It facilitates market integration rriers	aly and Austria to CEE and driatic Pipeline or other
Barrier Type	markets of Austria and Italy via the Slovenian system 3. It provid SEE countries (Hungary, Bosnia and Herzegovina, Serbia) 4. It p sources towards Slovenia, Austria and Italy as well as the countri Ban Description Availability of funds and associated conditions Intergovernme	es import and significant transit of gas from the direction of Ita provides significant transit of gas from LNG terminal, Ionian-Ac les in their surrounding 5. It facilitates market integration rriers	aly and Austria to CEE and

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TRA-N-90		Project		Pipeline including	J CS N	lon-FID
Jpdate Date		13/07/201	5		Ac	dvanced
Description	pipeline system Zlobin - Bosi from the LNG solution on the interconnection (gas pipeline will be connected to the futu	n of the LNG on the Krk island with th ljevo - Sisak-Kozarac and with gas pip a island of Krk with Central Eastern Eur e Varosföld-Dravaszerdahely-Donji Mil re LNG solution in Omišalj It will be th	eline Kozarac-Slobodnica r opean counties. The pipeli noljac-Slobodnica) will be c	nakes LNG Main Evacu ne is a continuation of connected to the futur	uation Pipeline cor the existing Hung	nnecting LNG Jary – Croatia
Regulatory Decisions and imilar material condition						
Capacity Increments Varia	ant For Modelling					
Point Croatia LNG		Operator Plinacro Ltd	2018	From Gas System	To Gas System	Capacity
	0	Plinacro Ltd	2018	LNG_TK_HR HR	HR	52.2 GWh/
Dravaszerdahely				Comment: It is necessary to use and CS1		
		General Informa	1		,	
Sponsors Plinacro	100%	Promoter	lion Plinacro Ltd			
	10070	Operator	Plinacro Ltd			arri
		Host Country	Croatia	Others		1 1
		Status	Planned			1 Trriers (Count)
		Website	Project's URL			rt)
		Publication Approval Status	Approved			
		Enabled Project	S			
Project Code Project Na	ame					
RA-N-1058 LNG Evacu	uation Pipeline Kozarac-Slobodnic	a				
	uation pipeline Zlobin-Bosiljevo-Si					

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NDP and PCI	Information	Schedule	Start Date	End Date	Third-Party Access Rec	gime
art of NDP	Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Regulate
IDP Number	1.17	Feasibility			Considered Tariff Regime	Regulate
		FEED			Applied for Exemption	N
urrently PCI	No	Market Test		08/2016	Exemption Granted	N
		Permitting	07/2009	01/2018		
BCA Decision	No	Supply Contracts			Exemption in entry direction	70.009
Norket Survey	t Relevant (no CBCA decision)	FID		01/2017	Exemption in exit direction	30.009
		Construction	01/2017	05/2018		
		Commissioning	2018	2018		
in alimaa an di Caasaa Stu						
ipelines and Compressor Sta		Dina	line Comment		Diameter (mm) Length (km) Comp	rossor Dowor (MM
Pipeline Section Omišalj-Zlobin		Fibe	line comment		1,000 18	
Offisaj		otal			1,000 18	
	1				10	
			CI Details			
CI Benefits		ing of the project, Project			es concerned by at least 10%, compared w capacity, Project aims at supplying dir	
ieneral Criteria Fulfilled	Yes					
pecific Criteria Fulfilled	Competition, Market Int	egration, Security of Sup	oly, Sustainability			
pecific Criteria Fulfilled Comr	nents transmission connector Adriatic) Gas Connectio all the pipelines to whic transmission requireme	of great significance and n. Its purpose is linking th h it connects and the asso	is an integral part of t e Polish and the Croa ociated gas nodes) wil value of the IAP and I	tian LNG (Liqu I provide gas	tian gas transmission system. It is the fut outh European Corridor named as the No refied Natural Gas) solutions. This gas pi transmission in all directions, i.e. it will sa n Croatia and the region. In addition, it w	orth-South (Baltic – peline (as well as atisfy all
		Tir	ne Schedule			
irant Obtention Date						

Delay Explanation

This project completely depends on LNG terminal project on island of Krk

	Expected Gas Sourcing
NG (?), it will be gas fro	m Croatia transport system, Croatian UGS and all import routes (LNG and IAP)
	Benefits
/lain 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; Serbi Bosnia and Herzegovina by constructing interconnection with these countries.
enefit 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
	Barriers
Barrier Type	Description
Others	The project completly depends on the realisation of the Krk LNG project

Description

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Interconnection Croatia -Bosnia and Herzegovina (Slobodnica- Bosanski Brod) TRA-N-066 Project Pipeline including CS Non-FID **Update Date** 14/07/2016 Advanced 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. Regulatory Decisions and similar material conditions Capacity Increments Variant For Modelling

Point	Operator	Year	From Gas System	To Gas System	Capacity
Clabedaire, Decembi Decel Zenier	Plinacro Ltd	2019	BA	HR	162.0 GWh/d
Slobodnica- Bosanski Brod-Zenica	Plinacro Ltd	2019	HR	BA	162.0 GWh/d

Sponsors		General Informa	tion
B&H, Bosanski Brod - Zenica		Promoter	Plinacro Ltd
BH Gas	100%	Operator	Plinacro Ltd
Croatia, Slobodnica-Bosanski Brod (border)		Host Country	Croatia
Plinacro	100%	Status	Planned
		Website	<u>Project's URL</u>
		Publication Approval Status	Approved

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NDP	and PCI Information	Schedule	Start Date	End Date	Third-Party Acc	ess Regime
Part of NDP	Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Regulate
IDP Number	1.13	Feasibility			Considered Tariff Regime	Regulate
		FEED			Applied for Exemption	٨
Currently PCI	No	Market Test		08/2016	Exemption Granted	٨
		Permitting	01/2011	01/2019		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	70.00
larket Survey	Not Relevant (no CBCA decision)	FID		12/2017	Exemption in exit direction	30.00
		Construction	01/2018	01/2019		
		Commissioning	2019	2019		
Pipelines and Compre	essor Stations					
Р	ipeline Section		Pipeline Comment		Diameter (mm) Length (km)	Compressor Power (MV
Slobodnica - Bosanski Brod			4 million m3 daily		700 6	
	Т	otal			6	
			PCI Details			
PCI Benefits			as across the borders of the Project concerns investment		tes concerned by at least 10%, co w capacity	ompared to the situation
General Criteria Fulfille	ed No					
Specific Criteria Fulfille	ed Competition, Market Int	tegration, Security o	f Supply, Sustainability			
Specific Criteria Fulfille	ed Comments The project is fullffilling flexibility, will enable so			osnia and Her	zegovina, reducing bottelnecks, v	will improve remaining
			Time Schedule			
Grant Obtention Date						
Delay Since Last TYND	DP The start of the constru-	ction has been post	poned until 2020.			
Delay Explanation	It depends on the agree	ement with Republik	a Srpska (B&H)			
		F	xpected Gas Sourcing			
			spected das <u>sourcing</u>			

		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. 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.						
Benefit Description							
		Barriers					
Barrier Type	Description						
Political	1 N N N N N N N N N N N N N N N N N N N	iticaly very sensitive and depends on the agreement with Republika Srpska and agremme	nts within B&H and	its TSOs (BH Gas and			
	GasRES)						
	GasRES)	Intergovernmental Agreements					
Agreement	GasRES)	Intergovernmental Agreements Agreement Description					
Agreement Letter of Intent	GasRES)			Agreement Signature Date 06/04/2011			

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TRA-N-075		Project	Pipeline		g CS N	lon-FID
Jpdate Date		13	/07/2016		Ad	dvanced
Description	Evacuation Pipeline connecti continuation of the existing I	ng LNG from the LNG solutior Hungary – Croatia interconnec	n gas pipeline Omišalj-Zlobin an n on the island of Krk with Centra tion (gas pipeline Varosföld-Dra e connected to the future LNG s	al Eastern European cou vaszerdahely-Donji Mih	nties. The pipeline i oljac-Slobodnica) v	s a vill be
Regulatory Decisions an imilar material condition	ins					
Capacity Increments Va Point	iant For Modelling	Operator	Yea	r From Gas System	To Gas System	Capacity
Croatia LNG	1	Plinacro Ltd	202	0 LNG_Tk_HR	HR	50.0 GWh/o
Dravaszerdahely		Plinacro Ltd	202	0 HR	HU	50.0 GWh/c
Sponsors		General	Information			
Plinacro	100%	Promoter	Plinacro Ltd			8
		Operator	Plinacro Ltd	Others		arriers (Count)
		Host Country	Croatia) s
		riose country				1 0
		Status	Planned	Financing		. 5
			Planned <u>Project's URL</u>	Financing		unt)
		Status	Project's URL	Financing		unt)
		Status Website Publication Approval Status	Project's URL	Financing		unt)
Project Code Project I	Name	Status Website Publication Approval Status	<u>Project's URL</u> Approved	Financing		

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NDP and PCI Information		Schedule	Start Date	End Date	Third-Party Access Regime	
Part of NDP	Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	1.18, 1.19, 1.20	Feasibility	09/2015	10/2016	Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	Yes (6.5.2.)	Market Test		08/2016	Exemption Granted	No
		Permitting	07/2009	01/2020		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	70.00%
Market Survey	Not Relevant (no CBCA decision)	FID		01/2017	Exemption in exit direction	30.00%
		Construction	01/2017	01/2020		
		Commissioning	2020	2020		

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Bosiljevo - Sisak		1,000	102	
Kozarac - Sisak		1,000	20	
Zlobin - Bosiljevo		1,000	58	
Т	otal		180	
	PCI Details			

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, Project concerns investment in reverse flow capacity

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

Specific Criteria Fulfilled Comments Specific Criteria Fulfilled Comments Specific Criteria Fulfilled Comments

Grant Obtention Date

PCI Benefits

General Criteria Fulfilled

24/11/2015

Yes

Time Schedule

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, 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 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

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TRA-N-302		Project	8/07/2016	Pipeline includin		on-FID Ivanced
Jpdate Date	interconnection of Cro		s a new supply route for Bosnia	and Llarge souths that will		
			flow of IAP to Bosnia and Herze		renable the reliable	e and
Regulatory Decisions and imilar material conditions						
Capacity Increments Variant For Mod	delling					
Point		Operator	Ye	,	To Gas System	Capacity
Posušje		Plinacro Ltd	20		HR/IAP	81.0 GWh/c
		Plinacro Ltd	20	21 HR/IAP	BA	81.0 GWh/0
ponsors		General	Information	No B	arriers Defined	
Croatian part of both options		Promoter	Plinacro Ltd			5
Plinacro d.o.o.	100%	Operator	Plinacro Ltd			rrie
oarts in B&H		Host Country	Croatia			Barriers (Count
3H Gas	100%	Status	Planned			oun
		Website	<u>Project's URL</u>			Ð
		Publication Approval Status	Approved			
		Enable	d Projects			
Project Code Project Name						
IRA-N-068 Ionian Adriatic Pipelin	e					

NDP a	and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	gime
Part of NDP	Yes (2017-2026)	Pre-Feasibility		09/2013	Considered TPA Regime	Regulate
NDP Number	1.3	Feasibility			Considered Tariff Regime	Regulate
		FEED			Applied for Exemption	N
Currently PCI	No	Market Test			Exemption Granted	N
		Permitting	08/2014	01/2021		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	70.009
Market Survey	Not Relevant (no CBCA decision)	FID		01/2019	Exemption in exit direction	30.009
		Construction	01/2020	01/2021		
		Commissioning	2021	2021		
Pipelines and Compres	scor Stations					
	peline Section	Pir	eline Comment		Diameter (mm) Length (km) Comp	pressor Power (MM
Zagvozd-Imotski-Posušje		1.16	cime comment		500 22	
2	,	otal			22	
	-		PCI Details			
	Droject changes the can	ability to transmit gas a		o mombor stat	es concerned by at least 10%, compare	d to the cituation
PCI Benefits	prior to the commission					
General Criteria Fulfilled		5 1 5 5				
Specific Criteria Fulfilled	d Competition, Market Int	egration, Security of Su	pply, Sustainability			
Specific Criteria Fulfilled	d Comments					
		· · · ·	ted Gas Sourcing			
Caspian Region, LNG (),	, Baumgarten via Slovenia and Croati	а				
			Benefits			
Main Driver	Market Demand					
Main Driver Explanation	n Market Demand and SoS for the So	outhern part of Bosnia a	nd Herzegovina			
Benefit Description	The aim of the project is to establis			rsified and reli	able natural das supply	

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.

rrent TYNDP : TYNDP 2017 - Annex A	Intergovernmental Agreements		Page 291 of 62
Agreement	Agreement Description	Is Signed	Agreement Signature D
Letter of Intent	between Plinacro and BH Gas for all projects of interconnection	Yes	06/04/2011
		Southern Cor	ridor GRIP 2017–2026

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	Ionian Adriatic Pipeline				
TRA-N-068	Project		Pipeline including	J CS N	on-FID
Update Date	14/07/2016			Ad	lvanced
Croatian Ring, wh Energy (with the	eline will cross the territory along the Adriatic coast from Fieri in Alb gas transmission system (main direction Bosiljevo – Split). The Ioni nich is the concept of gasification for the entire region. IAP is the mo community. The IAP project is based on the idea of connecting the TAP gas pipeline system (Trans Adriatic Pipeline) an exit Bosnia and ect to TYNDP. In addition, Montenegrin and Albanian counterparts	ian-Adriatic Pipelin ost important gas p existing Croatian g d Herzegovina is pl	e is considered a part project in the Southeas as transmission system anned. Plinacro is the	of the Energy Con stern Europe supp m, via Montenegro	nmunity Gas orted by the and Albania,
Regulatory Decisions and similar material conditions	elling				
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
onic-Adriatic Pipeline - IAP / ME	Plinacro Ltd	2023	HR/IAP	ME	16.6 GWh/d
	Plinacro Ltd	2022	HR	HR/IAP	83.2 GWh/d
Ionic-Adriatic Pipeline - IAP / Split - H	R 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

Sponsors		General Ir
Bosnia and Herzegovina		Promoter
BH Gas (Bosnia and Herzegovina); Ministry of Foreign Trade and Economic Relations (BiH)	100%	Operator Host Country
Croatia (From Split to Montenegro border) Plinacro Ltd; Ministry of Economy (Croatia)	100%	Status Website
Fieri to Montenegro border		Publication Approval Status
Ministry of Economy , Trade and Energy (Albania), Albpetrol	100%	
Montenegro		

Ministry of Economy (Montenegro), Montenegro 100% Bonus Ltd

Barriers (Count) Regulatory Political Financing

NDP and PCI Information		Schedule	Start Date	End Date	Third-Party Acce	ess Regime
Part of NDP	Yes (2017-2026)	Pre-Feasibility		01/2008	Considered TPA Regime	Regulated
NDP Number	1.1, 1.2, 1.4, 1.5, 5.4	Feasibility	05/2012	02/2014	Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting	07/2009	01/2023		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID		01/2019	Exemption in exit direction	0.00%
		Construction	01/2020	01/2023		
		Commissioning	2022	2023		
Pipelines and Co	ompressor Stations					
	Pipeline Section		Pipeline Comment		Diameter (mm) Length (km)	Compressor Power (MW)
	IAP - Croatian part		2.5 billion m3 yearly		800 250	1
	IAP- Albanian part		1 billion m3 yearly		800 180	

General Information

Plinacro Ltd

Plinacro Ltd

Project's URL Approved

Croatia Planned

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IAP- Mont	enego part	0.5 billion m3 yearly	800	110	
		Total		540	1
		PCI Details			
PCI Benefits		pability to transmit gas across the borders of the memb ning of the project, Project concerns investment in reve		at least 10%, comp	ared to the situation
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Competition, Market In	tegration, Security of Supply, Sustainability			
Specific Criteria Fulfilled Com	introducing an environ to renewable energy, a aments access to Croatian and Reducing CO2 emission and region (Albania, M	sification of southern part of Croatia; Bosnia and Herze mentally acceptable energy source in the region (repla- nd the potential for increased cogeneration and CHP) - Albanian storage capacities - providing significant tran ns in the region - Security of Supply, Reverse flow, Integontenegro, Bosnia and Herzegovina and neighbouring n national and regional level, support back-up to renew	cement for firewood, coa - providing diversified ga isit capacity and income gration of market areas (countries), diversification	II, fuel oil and com s supply to the reg to Albania, Monte market integratior	plementary generation gion - providing the negro and Croatia benefits for Croatia
		Time Schedule			
Grant Obtention Date					
Delay Since Last TYNDP	2 years delay				
Delay Explanation	Dynamics of project im	plementation depends on the dynamics of TAP project	t implementation.		
		Expected Gas Sourcing			
Caspian Region, LNG (HR)					
		Comments about the Third-Party Access Regim	e		
TPA regime is not defined ye	t				
		Benefits			
Main Driver Oth	ers				
Main Driver Explanation Gas	ification of Albania and Monte	negro and southern part of Croatia and Bosnia and Her	rzegovina. Diversification	of supply, Securit	y of Supply
Benefit Description Her		ntegration of market areas (market integration benefits untries), diversification of sources, diversification of rou			

urrent TYNDP : T	YNDP 2017 - Annex A			Page 271 of 620	
		Barriers			
Barrier Type	Description				
Regulatory	gulatory 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	
Agreement to exte Understanding	end the Memorandum of	Signed between Plinacro and TAP	Yes	25/02/2014	
Memorandum of L	Jnderstanding	Signed between Plinacro and TAP	Yes	05/02/2011	
Ministerial declara	tion	signed by the Ministries of enegry of Albania, Montenegro and Croatia, from dezember 2008, Bosnia and Herzegovina signed as well	Yes	27/09/2007	

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Compressor stations 2 and 3 at the Croatian gas tranmission system

similar material conditions Capacity Increments Variant For Modelling Point Operator Croatia LNG Plinacro Ltd Dravaszerdahely Plinacro Ltd Sponsors General Information	, as well as pro tia and the ne essor stations a xisting transm	ighbouring countries. are integral part of the ission capacities of the	Non- smission capacities Compressor static e transmission syst e system, and to p	ons will em, integrate rovide rationa
Description gas delivery pressure conditions and for development of the gas market in Croat significantly increase efficiency of the Croatian gas transmission system. Compresent in the system, primarily in a manner to increase the flexibility of managing the event increase of transmission capacities according to user needs, that is, the requirem application of new legal regulation. Regulatory Decisions and similar material conditions Capacity Increments Variant For Modelling Point Operator Croatia LNG Plinacro Ltd Dravaszerdahely Plinacro Ltd Sponsors General Information	tia and the ne essor stations a xisting transm	ighbouring countries. are integral part of the ission capacities of the	Compressor static e transmission syst e system, and to p	ons will em, integrate rovide rationa
Regulatory Decisions and similar material conditions Capacity Increments Variant For Modelling Point Operator Croatia LNG Plinacro Ltd Dravaszerdahely Plinacro Ltd Sponsors General Information				
Point Operator Croatia LNG Plinacro Ltd Dravaszerdahely Plinacro Ltd Sponsors General Information				
Croatia LNG Plinacro Ltd Plinacro Ltd Plinacro Ltd Plinacro Ltd Sponsors General Information				
Dravaszerdahely Plinacro Ltd Plinacro Ltd Plinacro Ltd Sponsors General Information	Year	From Gas System	To Gas System	Capacity
Dravaszerdahely Plinacro Ltd General Information	2020	LNG_Tk_HR	HR	43.3 GWh/
Sponsors General Information	2020	HR	HU	43.3 GWh/0
	2020	HU	HR	62.5 GWh/0
Plinacro 100% Promoter Pl		No Ba	rriers Defined	
	inacro Ltd			Ba
Operator Pl	inacro Ltd			rrie
Host Country	Croatia) si
Status	Planned			(Count
Website <u>Pro</u>	ject's URL			đ
Publication Approval Status	Approved			
Enabled Projects				
Project Code Project Name				
TRA-N-066 Interconnection Croatia -Bosnia and Herzegovina (Slobodnica- Bosanski Brod)				

TRA-N-075 LNG evacuation pipeline Zlobin-Bosiljevo-Sisak-Kozarac

TRA-F-86Interconnection Croatia/Slovenia (Lučko - Zabok - Rogatec)

TRA-F-334 Compressor station 1 at the Croatian gas transmission system

	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access F	Regime
Part of NDP	Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Not Applicable
NDP Number	5.2 and 5.3	Feasibility			Considered Tariff Regime	Not Applicable
		FEED			Applied for Exemption	Not Relevant
Currently PCI	Yes (6.26.3)	Market Test			Exemption Granted	Not Relevant
		Permitting	01/2017	01/2020		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID		01/2018	Exemption in exit direction	0.00%
		Construction	01/2018	01/2020		
		Commissioning	2020	2020		

PCI Details					
PCI Benefits	Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compared to the situatior prior to the commissioning of the project, Project concerns investment in reverse flow capacity				
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability				
Specific Criteria Fulfilled Com	ments				
	Time Schedule				
Grant Obtention Date	25/04/2016				
Delay Since Last TYNDP					
Delay Explanation					
	Benefits				
Main Driver Mark	ket Demand				

Main Driver Explanation Projects will enable the reverse flow in all interconnection point

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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.

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Interconnection Croatia/Serbia (Slobdnica-Sotin-Bačko Novo Selo)

TRA-N-070		Project		Pipeline including	g CS N	lon-FID
Update Date		13/07	7/2016		Non	-Advanced
Description Bačko Nor diversifica	vo Selo (Serbia). It v	vill be new interconnection, new e for Serbia. It will enable Serbia	nsmission system to the Serbian entry point and transmission ro access to Croatian UGS and enal	ute for the needs of S	erbia; it will be So	Sand
Regulatory Decisions and similar material conditions						
Capacity Increments Variant For Modell	ing	Orecurates	Vern	Fuerra Casa Custant	To Coo Sustan	Consider
Point		Operator	Year	From Gas System	To Gas System	Capacity
Slobodnica - Sotin (HR) / Bačko Novo S	elo (RS)	Plinacro Ltd	2023	HR	RS	227.5 GWh/
		Plinacro Ltd	2023	RS	HR	227.5 GWh/0
Sponsors		General Info	ormation	No Ba	rriers Defined	
Croatian section		Promoter	Plinacro Ltd			Ba
Plinacro	100%	Operator	Plinacro Ltd			rrie
Serbian section		Host Country	Croatia			(C
Srbijagas	100%	Status	Planned			ie i
JIDIIquas	10076					2

Approved

Publication Approval Status

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NDP and PCI Information		Schedule	Start Date	End Date	Third-Party Access Regime	•
Part of NDP	Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	1.11, 1.12	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test		08/2016	Exemption Granted	No
		Permitting	01/2010	10/2023		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	70.00%
Market Survey	Not Relevant (no CBCA decision)	FID		10/2021	Exemption in exit direction	30.00%
		Construction	01/2022	10/2023		
		Commissioning	2023	2023		

Pipeline Section Slobodnica - Sotin		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
		16 mcm daily-total capacity	800	97	
Sotin- Bačko Novo	o Selo	I section	800	5	
	Total			102	
		PCI Details			
Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compared to prior to the commissioning of the project, Project concerns investment in reverse flow capacity					ompared to the situation
General Criteria Fulfilled Yes					
General Criteria Fulfilled	Yes				
General Criteria Fulfilled Specific Criteria Fulfilled		ation, Security of Supply, Sustainability			

Expected Gas Sourcing

Caspian Region, LNG (HR), it will be gas from Croatian transport system, Croatian UGS

	Benefits
Main Driver	Market Demand
	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
Main Driver Explanati	on 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

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	LNG Evacuation Pipeline K	ozarac-Slobodnica				
TRA-N-1058	Project	Project		g CS 💦 🔊 🔊	Non-FID	
Update Date	13/07/20	016		Non	-Advanced	
Description Main Evacuation Pipeline control Connected to the future lonit Croatian gas system.	dnica jointly with gas pipeline syten nnecting LNG from the LNG solutior g Hungary – Croatia interconnection an Adriatic Pipeline (IAP) will be con	n on the island of Krk with Cen (gas pipeline Varosföld-Drav	tral Eastern Europear aszerdahely-Donji Mi	n counties. The pip holjac-Slobodnica	eline system is) will be	
Regulatory Decisions and similar material conditions						
Capacity Increments Variant For Modelling Point	Operator	Year	From Gas System	To Gas System	Capacity	
Croatia LNG	Plinacro Ltd	2023	LNG_Tk_HR	HR	109.9 GWh/d	
	Plinacro Ltd	2023	HR	HU	58.8 GWh/d	
Dravaszerdahely	Plinacro Ltd	2023	HU	HR	56.6 GWh/d	
Sponsors	General Inform	nation	No Ba	rriers Defined		
Plinacro 100%	Promoter	Plinacro Ltd			8	
	Operator	Plinacro Ltd			Barriers (Count)	
	Host Country	Croatia			C) si	
	Status	Planned			e la	
	Website	<u>Project's URL</u>			æ	
	Publication Approval Status	Approved			100.00	
	Enabled Proje	ects				
Project Code Project Name						
TRA-N-075 LNG evacuation pipeline Zlobin-Bosiljevo-S						
TRA-N-90LNG evacuation pipeline Omišalj - Zlobin (C						
TRA-N-1057 Compressor stations 2 and 3 at the Croatian	n gas tranmission system					

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NDP and PC	I Information	Schedule	Start Date	End Date	Third-Party Access Reg	gime
Part of NDP	Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Regulate
NDP Number	1.21	Feasibility	12/2015	10/2016	Considered Tariff Regime	Regulate
		FEED			Applied for Exemption	N
Currently PCI	Yes (6.5.2)	Market Test		08/2016	Exemption Granted	Ν
		Permitting	09/2014	01/2023		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	70.00
Market Survey No.	lot Relevant (no CBCA decision)	FID		01/2020	Exemption in exit direction	30.009
		Construction	01/2021	01/2023		
		Commissioning	2023	2023		
Pipelines and Compressor St	tations					
Pipeline		Pipe	eline Comment		Diameter (mm) Length (km) Comp	ressor Power (MW
Kozarac-Sl					800 128	× ×
	Т	otal			128	
			PCI Details			
PCI Benefits	Project changes the cap		ross the borders of the	e member stat	es concerned by at least 10%, compared	d to the situation
PCI Benefits	prior to the commission	ing of the project, Projec	t concerns investment		w capacity	
		ing of the project, Projec	t concerns investment		w capacity	
General Criteria Fulfilled	prior to the commission Yes	ing of the project, Projec			w capacity	
General Criteria Fulfilled Specific Criteria Fulfilled Specific Criteria Fulfilled Com	prior to the commission Yes Competition, Market Int Project will connect sevent transmission connector Adriatic) Gas Connectio all the pipelines to whic transmission requireme	regration, Security of Sup eral, in the future exception of great significance and n. Its purpose is linking th h it connects and the asso	ply, Sustainability onally important, point is an integral part of t ne Polish and the Croa ociated gas nodes) wil value of the IAP and I	in reverse flow ts of the Croat he North – So tian LNG (Liqu I provide gas	w capacity ian gas transmission system. It is the fut uth European Corridor named as the No refied Natural Gas) solutions. This gas pi gransmission in all directions, i.e. it will so n Croatia and the region. In addition, it w	ture strategic gas orth-South (Baltic – ipeline (as well as atisfy all
General Criteria Fulfilled Specific Criteria Fulfilled	prior to the commission Yes Competition, Market Int Project will connect sevent transmission connector Adriatic) Gas Connectio all the pipelines to whic transmission requireme	regration, Security of Sup eral, in the future exception of great significance and n. Its purpose is linking th h it connects and the asso nts and will maximise the m and the new interconr	ply, Sustainability onally important, point is an integral part of t ne Polish and the Croa ociated gas nodes) wil value of the IAP and I	in reverse flow ts of the Croat he North – So tian LNG (Liqu I provide gas	ian gas transmission system. It is the fur uth European Corridor named as the No refied Natural Gas) solutions. This gas pi cransmission in all directions, i.e. it will so	ture strategic gas orth-South (Baltic - ipeline (as well as atisfy all
General Criteria Fulfilled Specific Criteria Fulfilled Specific Criteria Fulfilled Com	prior to the commission Yes Competition, Market Int Project will connect sevent transmission connector Adriatic) Gas Connectio all the pipelines to whic transmission requireme	regration, Security of Sup eral, in the future exception of great significance and n. Its purpose is linking th h it connects and the asso nts and will maximise the m and the new interconr	ply, Sustainability onally important, point is an integral part of t ne Polish and the Croa ociated gas nodes) wil value of the IAP and L nection with Hungary.	in reverse flow ts of the Croat he North – So tian LNG (Liqu I provide gas	ian gas transmission system. It is the fur uth European Corridor named as the No refied Natural Gas) solutions. This gas pi cransmission in all directions, i.e. it will so	ture strategic gas orth-South (Baltic - ipeline (as well as atisfy all
General Criteria Fulfilled Specific Criteria Fulfilled	prior to the commission Yes Competition, Market Int Project will connect seve transmission connector Adriatic) Gas Connectio all the pipelines to whic transmission requireme use of the existing syste	regration, Security of Sup eral, in the future exception of great significance and n. Its purpose is linking th h it connects and the asso nts and will maximise the m and the new interconr	ply, Sustainability onally important, point is an integral part of t ne Polish and the Croa ociated gas nodes) wil value of the IAP and L nection with Hungary.	in reverse flow ts of the Croat he North – So tian LNG (Liqu I provide gas	ian gas transmission system. It is the fur uth European Corridor named as the No refied Natural Gas) solutions. This gas pi cransmission in all directions, i.e. it will so	ture strategic gas orth-South (Baltic - ipeline (as well as atisfy all

Expected Gas Sourcing

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

	Benefits
lain 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.
enefit 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

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	Inte	rconnection Croatia-Bosnia a	and Herzegovina (west)			
TRA-N-303		Project		Pipeline including	g CS N	Ion-FID
Update Date		13/07/20	016		Non	-Advanced
Description		ia and Herzegovina on route Licka J a with branches to Bihać and Velika		to border with Bosnia	and Herzegovina.	Bosnian part is
Regulatory Decisions and similar material conditions						
Capacity Increments Variant	For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
Rakovica (HR) / Trzac (BA)		Plinacro Ltd	2026	BA	HR	81.0 GWh/d
		Plinacro Ltd	2026	HR	BA	81.0 GWh/d
Sponsors		General Inform	nation			
Croatian part		Promoter	Plinacro Ltd			8
Plinacro d.o.o.	100%	Operator	Plinacro Ltd			rier
part in B&H		Host Country	Croatia	Market		Barriers (Count)
BH Gas	100%	Status	Planned			oun oun
		Website	<u>Project's URL</u>			E.
		Publication Approval Status	Approved			
				C H	hern Corridor GRIP 2	
				Sout		2017-2020 AF

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ND	P and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regime	
Part of NDP	Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	1.32 and 1.33	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting	12/2012	09/2026		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	70.00%
Market Survey	Not Relevant (no CBCA decision)	FID		12/2024	Exemption in exit direction	30.00%
		Construction	04/2025	11/2026		
		Commissioning	2026	2026		

Pipelines and Compressor Stations			
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km) Compressor Power (MW)
Lička Jesenica-Rakovica		500	20
Rakovica-Bihać		500	10
Tot	al		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 Explanatio	on 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 support

Market La	017 - Annex A ck of market maturity	Page 294 of 620
	Intergovernmental Agreements	
Agreement	Agreement Description	Is Signed Agreement Signature Da
Letter of Intent	between Plinacro and BH Gas for all projects of interconnection	Yes 06/04/2011

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Ipdate Date This pipelin	e is a regional link	14/07/2016 to Croatian and Slovenian system. Rel	evant gas pipeline is signi	ficant for the regional		Advanced especially in
Description the light of	the fact that these	e parts of Croatian and Slovenian market titiveness and market competition.				
egulatory Decisions and imilar material conditions	and for the compe	auveness and market competition.				
Capacity Increments Variant For Modellin	ng	Occuration	Veen	France Case Contant	To Coo Surton	Careaita
Point		Operator Plinacro Ltd	2026	From Gas System HR	To Gas System	Capacity
ečovlje (SI) / Plovanija (HR)		Plinacro Ltd	2026	SI	SI	16.2 GWh/o 16.2 GWh/o
			2020	51	TIX	10.2 GVV1/
ponsors		General Informati	on	No Ba	rriers Defined	
inacro	100%	Promoter	Plinacro Ltd			Bar
		Operator	Plinacro Ltd			Barriers (Count)
		Host Country	Croatia			sic
		Status	Planned			oun
		Website	Project's URL			2
		Publication Approval Status	Approved			

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	gime
Part of NDP	Yes (2017-2026)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	1.34	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	70.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	30.00%
		Construction	04/2026	11/2026		
		Commissioning	2026	2026		

Pipeline Comment	Diameter (mm)	Length (km) Compressor Power (MW)
Croatian part is 8 km	300	8
al		8
	·	Croatian part is 8 km 300

Expected Gas Sourcing

LNG (HR), Croatian gas transmission system

	Benefits
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	

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Update Date 23/05/2016 Advance 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 plann a stage development: with: 1st stage - FSRU with annual send-out capacity of 1-4 bcm/y (according to FSRU ship and pipeline availability). Zhage - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y. Construction and the size of the onshore terminal with annual send-out capacity of 3.5 bcm/y. Construction and the size of the onshore terminal with annual send-out capacity of 3.5 bcm/y. Construction and the size of the onshore terminal will be an important part for the security of supply for Central and South-Eastern European other market need. Future LNG Terminal will be an important part for the security of supply for Central and South-Eastern European diversification gas supply noute in the region. In beavily dependent on one supply source and therefore LNG terminal in Croatia Mould represent a major diversification gas supply note in the region. Stephase - FSRU with annual send-out capacity of 1-4 bcm/y (according to FSRU ship and pipeline availability). Point Operator Year From Gas System To Gas System Capacity Increments Variant For Modelling Contatia LNG Units of the security of the performing operation of the security of the onshore terminal with annual send-out capacity of the security of the security of the security of the security of the operate the terminal. Security (Contatis the security of the security of the security			LNG terminal Krk				
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 plant a stage development: with: 1st stage - FSRU with annual send-out capacity of 1 - 4 bcm/y (according to FSRU ship and pipeline availability), 2r stage - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y, 3nd stage - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y. Construction and the size of the onshore terminal with annual send-out capacity of 5.5 bcm/y. Construction and the size of the onshore terminal with annual send-out capacity of 3.5 bcm/y. Construction and the size of the onshore terminal with annual send-out capacity of 0 interviews of the security of supply for Central and South-Eastern European countries. Gas supply in the region is heavily dependent on one supply source and therefore LNG terminal in Croatia would represent a major diversification gas supply route in the region. Regulatory Decisions and inflar material conditions Ist phase - FSRU with annual send-out capacity of 1 - 4 bcm/y (according to FSRU ship and pipeline availability) Proint Operator Year From Gas System To Gas System Capacity Capacity of SRU ship and pipeline availability) Proint Operator Year From Gas System To Gas System Capacity Capacity of 1 - 4 bcm/y (according to FSRU ship and pipeline availability) Proint Operator Year From Gas System To Gas System Capacity Capacity of 208 Croatia LNG LNG Hrvatska d.o.o. 2018 LNG Hrvatska d.o.o. <t< th=""><th>LNG-N-082</th><th></th><th>Project</th><th></th><th>LNG Terminal</th><th>l N</th><th>on-FID</th></t<>	LNG-N-082		Project		LNG Terminal	l N	on-FID
Pescription a stage development: with: 1st stage - FSRU with annual send-out capacity of 1- 4 bcm/y (according to FSRU ship and pipeline availability), 2r Pescription stage development: with: 1st stage - FSRU with annual send-out capacity of 3.5 bcm/y, 3rd stage - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y. Stafe availability, 2r Regulatory Decisions and initiar material conditions Croatia Energy Regulatory Agency has given to LNG Croatia LLC on 03.02.2016, a permit for performing energy activities which enables LNG high end pipeline availability) Point Croatia Energy Regulatory Agency has given to LNG Croatia LLC on 03.02.2016, a permit for performing energy activities which enables LNG high end pipeline availability) Point Operator Year From Gas System To Gas System Capacity Or Contine Control is availability Croatia LNG Operator Year From Gas System To Gas System Capacity or Control is control is pipeline availability Print Operator Year From Gas System To Gas System Capacity or Control is control is pipeline availability Print Operator Year From Gas System To Gas System Capacity or Control is pipeline availability Croatia LNG UNG Hivatska d.o.o. 2018 LNG Tk_HR HR 107.01 Croatia LNG For LNG terminal C	Update Date		23/05/2016			Ac	vanced
imilar material conditions LLC to operate the terminal. Capacity Increments Variant For Modelling 1st phase - FSRU with annual send-out capacity of 1 - 4 bcm/y (according to FSRU ship and pipeline availability) Point Operator Year From Gas System To Gas System CapaCapacity Increments Variant : 1 FSRU Point Operator Year From Gas System To Gas System CapaCapacity Increments Variant : 0. operator Year From Gas System To Gas System Capacity Increments Variant : 0. operator Year From Gas System To Gas System Capacity Increments Variant : 0. operator Year From Gas System Capacity Increments Variant : 0. operator Year From Gas System Capacity Increments Variant : 0. operator Year Year From Gas System Capacity Increments Variant : 0. operator Year Year <td< td=""><td>Description</td><td>a stage development: with: 1st stage - LNG onshore terminal bcm/y and 4th stage - LNG on depend on the market need. F countries. Gas supply in the re</td><td>t stage - FSRU with annual send-out capacit with annual send-out capacity of 3.5 bcm/ ishore terminal with annual send-out capacit future LNG Terminal will be an important p gion is heavily dependent on one supply s</td><td>ity of 1-4 bcm/y (acco /y, 3rd stage - LNG on city of 8.75 bcm/y. Co part for the security of</td><td>ording to FSRU ship a shore terminal with a postruction and the siz supply for Central an</td><td>nd pipeline availab nnual send-out cap e of the onshore to d South-Eastern Eu</td><td>oility), 2nd bacity of 5 erminal will propean</td></td<>	Description	a stage development: with: 1st stage - LNG onshore terminal bcm/y and 4th stage - LNG on depend on the market need. F countries. Gas supply in the re	t stage - FSRU with annual send-out capacit with annual send-out capacity of 3.5 bcm/ ishore terminal with annual send-out capacit future LNG Terminal will be an important p gion is heavily dependent on one supply s	ity of 1-4 bcm/y (acco /y, 3rd stage - LNG on city of 8.75 bcm/y. Co part for the security of	ording to FSRU ship a shore terminal with a postruction and the siz supply for Central an	nd pipeline availab nnual send-out cap e of the onshore to d South-Eastern Eu	oility), 2nd bacity of 5 erminal will propean
Variant : 1 FSRU 1st phase - FSRU with annual send-out capacity of 1- 4 bcm/y (according to FSRU ship and pipeline availability) Point Operator Year From Gas System To Gas System Capacity Increments Variant(s) For Information Only Capacity Increments Variant(s) For Information Only Znd phase - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y Operator Year From Gas System To Gas System Capacity Increments Variant(s) For Information Only Variant : 2 Onshore LNG terminal 2nd phase - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y Capacity Increments Variant(s) For Information Only Variant : 2 Onshore LNG terminal 2nd phase - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y Capacity of Gas System To Gas System Capacity of Gas System Capacity Gas System			gency has given to LNG Croatia LLC on 03.0	02.2016, a permit for	performing energy ac	tivities which enab	les LNG Croat
Variant : 1 FSRU pipeline availability) Variant : 0 Vear From Gas System To Gas System Cap Point Operator Year From Gas System To Gas System Cap LNG Hrvatska d.o.o. 2018 LNG_Tk_HR HR 107.0 Croatia LNG Comment: Short-term rented FSRU (min 3, max 5 years) Commissioning (COD) year - 2018 (Challenging pipeline availability) Commissioning (COD) year - 2018 (Challenging pipeline availability) Croatia LNG Send-out - 1-4 bcm/y (According to FSRU ship and pipeline availability) Send-out - 1-4 bcm/y (According to FSRU ship and pipeline availability) Capacity Increments Variant(s) For Information Only 2nd phase - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y Cap Point Operator Year From Gas System To Gas System Cap	Capacity Increment	ts Variant For Modelling					
Croatia LNG LNG Hrvatska d.o.o. 2018 LNG_Tk_HR HR 107.0 Croatia LNG Comment: Short-term rented FSRU (min 3, max 5 years) Commissioning (COD) year - 2018 (Challenging pipeline availability) Commissioning (COD) year - 2018 (Challenging pipeline availability) Croatia LNG Send-out - 1-4 bcm/y (According to FSRU ship and pipeline availability) Send-out - 1-4 bcm/y (According to FSRU ship and pipeline availability) Capacity Increments Variant(s) For Information Only 2nd phase - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y Point Operator Year Tor Gas System Capacity Capacity of System		Variant : 1 FSRU		d-out capacity of 1-	4 bcm/y (according to	o FSRU ship and	
Croatia LNG Comment: Short-term rented FSRU (min 3, max 5 years) Croatia LNG Commissioning (COD) year - 2018 (Challenging pipeline availability) Send-out - 1-4 bcm/y (According to FSRU ship and pipeline availability) Capacity Increments Variant(s) For Information Only Variant : 2 Onshore LNG terminal 2nd phase - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y Point Operator Year From Gas System	Point		Operator	Year	From Gas System	To Gas System	Capacity
Croatia LNG Commissioning (COD) year - 2018 (Challenging pipeline availability) Send-out - 1-4 bcm/y (According to FSRU ship and pipeline availability) Capacity Increments Variant(s) For Information Only Variant : 2 Onshore LNG terminal 2nd phase - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y Point Operator Year From Gas System To Gas System Capacity Increments System			LNG Hrvatska d.o.o.	2018	LNG_Tk_HR	HR	107.0 GWh/
Indication Lives (Challenging pipeline availability) Send-out - 1-4 bcm/y Send-out - 1-4 bcm/y (According to FSRU ship and pipeline availability) Capacity Increments Variant(s) For Information Only Variant : 2 Onshore LNG terminal 2nd phase - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y Point Operator Year From Gas System Capacity Capacity				Comment: Shor	rt-term rented FSRU (n	nin 3, max 5 years)	
Capacity Increments Variant(s) For Information Only Variant : 2 Onshore LNG terminal Point Operator (According to FSRU ship and pipeline availability) (Acco	Croatia LNG						
Variant : 2 Onshore LNG terminal 2nd phase - LNG onshore terminal with annual send-out capacity of 3.5 bcm/y Point Operator Year From Gas System To Gas System Cap				(Accordin			
Point Operator Year From Gas System To Gas System Cap	Capacity Increment	ts Variant(s) For Information Only					
	Var	riant : 2 Onshore LNG terminal	2nd phase - LNG onshore termin	al with annual send-	out capacity of 3.5 bo	cm/y	
Croatia LNGLNG Hrvatska d.o.o.2021LNG_Tk_HRHR-13.0	Point		Operator	Year	From Gas System	To Gas System	Capacity
	Croatia LNG		LNG Hrvatska d.o.o.	2021	LNG_Tk_HR	HR	-13.0 GWh/

Croatia LNG

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Comment: Minimum on-shore LNG terminal size based on the most appropriate capacity booked through the Open Season 1×150.000m3storagetank Utilization of jetty used also for the FSRU terminal

COD - 2021-2023

(depending on duration of FSRU charter contract)

Capacity Incr	rements Variant(s) For Information Only					
	Variant : 4 Onshore LNG terminal	4th phase - LNG onshore termi	nal with annual send	-out capacity of 8.75 k	ocm/y	
Point		Operator	Year	From Gas System	To Gas System	Capacity
		LNG Hrvatska d.o.o.	2024	LNG_Tk_HR	HR	100.0 GWh/d
Croatia LNG		Comment: If market demands	s, expand (with minim	um investment in re-ga	sificators) the LNG terminal send-out	
					COD - 2024+	
Capacity Incr	rements Variant(s) For Information Only					
	Variant : 3 Onshore LNG terminal	3rd phase - LNG onshore termi	nal with annual send	-out capacity of 5 bcm	n/y	
Point		Operator	Year	From Gas System	To Gas System	Capacity
		LNG Hrvatska d.o.o.	2023	LNG_Tk_HR	HR	40.0 GWh/d
		Comment: In c	ase that the limited v	olume risk condition is r	reached, expansion	
Croatia LNG			Introduction of t	ne second tank to allow	peak management	
			(depen	ding on duration of FSR	COD - 2021/2023 RU charter contract)	

Current TYNDP :	TYNDP 2017 - Annex A					Page 280 of 620
Sponsors		General Ir	ofrmation			
HEP d.d.	50%	December		atska d.o.o. za	Regulatory	1 Bar
Plinacro d.o.o.	50%	Promoter		je ukapljenim rodnim plinom	Political Permit Granting	1 riers
		Operator	LNG	Hrvatska d.o.o.	Others	1 (Count)
		Host Country		Croatia	Market	1 IT
		Status		Planned		
		Website		<u>Project's URL</u>		
		Publication Approval Status		Approved		
	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party A	ccess Regime
Part of NDP	Yes (Desetogodišnji plan razvoja	Pre-Feasibility		01/2013	Considered TPA Regime	Not Applicable
	plinskog)	Feasibility	07/2012	01/2014	Considered Tariff Regime	Not Applicable
NDP Number	6.5.1.	FEED	06/2015	12/2015	Applied for Exemption	No
		Market Test		10/2015	Exemption Granted	No
Currently PCI	Yes (6.5.1.)	Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision		FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction				
		Commissioning	2018	2018		

		Technical Information (LNG)
LNG Facility	The import terminal for the liquefied natural gas (LNG) on the Island of Krk	
Expected Volume (bcm/y)	4	1st stage - 1-4 bcm/y (According to FSRU ship and pepeline availability), 2nd stage - 3,5 bcm/y, 3rd stage - 5bcm/y, 4th stage - 8.75 bcm/y
Storage Capacity (m3)	300,000	1st stage depending on FSRU storage capacity availability, 2nd stage 1 x 150,000.00, 3rd stage 2 x 150,000.00, 4th stage 2 x 150,000.00
Ship Size (m3)	265,000	75,000.00 – 265,000.00 (Jetty construction and sea depth will enable Q Max LNG carriers to bearth at the site. The size of the carriers that are going to berth alongside to the FSRU will depend on the storage and regasification capabilities of the ESD IN

Yes

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Reloading Ability

	PCI Details
PCI Benefits	Project aims at fulfilling the infrastructure standard (N-1) rule at regional level in accordance with Article 6(3) of Regulation EU, Project aims at supplying directly or indirectly at least two Member States
General Criteria Fulfilled	Yes
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled	Comments All specific criteria are fulfilled by this project
	Time Schedule
Grant Obtention Date	20/11/2015
Delay Since Last TYNDP	None
Delay Explanation	In comparison with last TYNDP, there is no delay because the FSRU solution represents a fast track solution enabling the gas to flow from the Island of Krk from Q1/2018. This represents a one year acceleration of the project comparing to the last TYNDP.
	Expected Gas Sourcing
Gas sourcing will be dec	ided by LNG terminal capacity users, who will have the freedom to arrange gas supplies and gas origin
	Comments about the Third-Party Access Regime
TPA regime will be defin	ed after market survey procedure (in our case Open Season)
TPA regime will be defin	ed after market survey procedure (in our case Open Season)
TPA regime will be defin Main Driver	ed after market survey procedure (in our case Open Season) Benefits
	ed after market survey procedure (in our case Open Season)
Main Driver Main Driver Explanation	ed after market survey procedure (in our case Open Season) Benefits Regulation SoS 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.
Main Driver Main Driver Explanation	ed after market survey procedure (in our case Open Season)
Main Driver	ed after market survey procedure (in our case Open Season)

Permit Granting 09/2015. Accordingly to the specific phase of the projects permits will be modified/ obtai	ch was approved in 04/2014. Location permit was approved in ind.
Project named LNG terminal on the Island of Krk was declared on Government of Republic Political importance for the Republic of Croatia. The Act on strategic investments enables this kind procedure in obtaining necessary documents and permits for the project implementation	d of projects to have the highest priority with faster and simplifie
Others Potential barrier of enough pipeline capacity availability. The pipelines need to be build be terminal realization in forseen deadlines.	out FID has not yet been reached, which is a precondition for LNG
Market Background Analysis was carried out and it indicated that the market has comment Market confirmation of that analysis. The binding phase of Open Season has been carried out. Significantly, and the market has commented out and the market has been carried out. Significant framework for liquefied natural gas i.e. methodology for determination	gning of the contract is expected to be upon NRA's approval of
Intergovernmental Agreements	
Agreement Agreement Description	Is Signed Agreement Signature Da
CESEC MoU Memorandum of Understanding	Yes 10/07/2015
	1

Greece

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		Revythoussa (2	2nd upgrade)				
LNG-F-147		Project			LNG Termina	1	FID
Update Date		04/0	07/2016			A	dvanced
Description		upgrading of the send-out cap) m3 to 225.000 m3 with the ac					
Regulatory Decisions and similar material conditions							
Capacity Increments Variant	For Modelling						
Point		Operator		Yea	r From Gas System	To Gas System	Capacity
Agia Triada		DESFA S.A.		201	7 LNG_Tk_GR	GR	80.4 GWh/d
Sponsors		General In	formation		No B	nriers Defined	
DESFA	100%	Promoter		DESFA S.A.			
		Operator		DESFA S.A.			Barriers (Count)
		Host Country		Greece			rs (
		Status	Under	Construction			E.
		Website	<u> </u>	Project's URL			đ
		Publication Approval Status		Approved			
NDP and PC	I Information	Schedule	Start Date	End Date	Third-Pa	arty Access Regim	e
Part of NDP Yes (Develo	pment Plan NNGS 2015-2024)	Pre-Feasibility			Considered TPA Regime	9	Regulated
NDP Number	2.2.1.5	Feasibility			Considered Tariff Regim	ie	Regulated
		FEED			Applied for Exemption		No
Currently PCI	No	Market Test			Exemption Granted		Not Relevant
		Permitting					
CBCA Decision	No	Supply Contracts			Exemption in entry dire	ction	0.00%
Market Survey No.	ot Relevant (no CBCA decision)	FID			Exemption in exit direct	ion	0.00%
		Construction		12/2017			
		Commissioning	2017	2017			

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	Technical Information (LNG)
LNG Facility	Revythoussa LNG
Expected Volume (bcn	Terminal
Storage Capacity (m3)	95,000 130,000 presently 120,000 140.000 presently
Ship Size (m3)	
Reloading Ability	Yes
	Time Schedule
Grant Obtention Date	
Delay Since Last TYND	P two quarters
Delay Explanation	Delays in the contract award procedure Delays due to the capital controls imposed in Greece in July 2015
	Expected Gas Sourcing
LNG (DZ,WO)	
	Benefits
Main Driver	Market Demand
Main Driver Explanatio	n
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
	Southern Corridor GRIP 2017–2026 Annex B

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TRA-N-941		Project			Pipeline including		lon-FID
Update Date			07/2016				-Advanced
Description	The project consists of the im transmission system with TAP	plementation of one Metering 9.	& Regulating s	tation at Nea N	lessimvria for the interco	nnection of the Gr	eek
Regulatory Deci similar material							
Capacity Increm	ents Variant For Modelling						
Point		Operator		Yea	· · · · · · · · · · · · · · · · · · ·	To Gas System	Capacity
Nea Mesimvria		DESFA S.A.		201	9 GR/TAP	GR	142.0 GWh/o
Sponsors		General Ir	nformation		No Ba	rriers Defined	
		Promoter		DESFA S.A.			Bar
		Operator		DESFA S.A.			Barriers (Count)
		Host Country		Greece			s (C
		Status		Planned			oun
		Website		<u>Project's URL</u>			ť
		Publication Approval Status		Approved			1
	NDP and PCI Information	Schedule	Start Date	End Date	Third-Pa	rty Access Regim	e
Part of NDP	Yes (Development Plan NNGS 2015-2024)	Pre-Feasibility			Considered TPA Regime		Regulate
NDP Number	2.2.1.3	Feasibility			Considered Tariff Regim	e	Regulate
		FEED	05/2016	03/2018	Applied for Exemption		Not Releva
Currently PCI	Yes (7.1.6)	Market Test			Exemption Granted		Not Releva
		Permitting					
CBCA Decision	No	Supply Contracts			Exemption in entry direc	tion	0.00
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	on	0.00
		Construction					
		Commissioning	2019	2019			

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Pipelines and Compressor Stat	tions			
Pipeline Se	ection	Pipeline Comment	Diameter (mm) Le	ength (km) Compressor Power (MW)
Nea-Messivri	ia to TAP			1
	Total			1
		PCI Details		
PCI Benefits	Project concerns investment in	reverse flow capacity		
General Criteria Fulfilled	Yes			
Specific Criteria Fulfilled	Competition, Market Integratio	n, Security of Supply		
Specific Criteria Fulfilled Comm	ents			
		Expected Gas Sourcing		
Caspian Region, LNG ()				
		Benefits		
Main Driver Regula	ation SoS			
Main Driver Explanation				
Benefit Description The pr	roject will enable the Greek gas trans	mission system to be supplied by an additic	onal gas source and route.	
			Sou	uthern Corridor GRIP 2017–2026 Annex E

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		Compressor Station Kip	pi			
TRA-N-128		Project		Pipeline including	g CS N	lon-FID
Update Date		04/07/2016			Non	-Advanced
Description Regulatory Decisions	in order to make possible th Depending on the variant th s and	npressor Station on the GR side of the GR/TH e transmission of natural gas to the Greek an at will be implemented the configuration wil	nd European markets	with the use of down	stream transmissio	
similar material cond Capacity Increments	Variant For Modelling					
	Variant : 103.20 GWh/d	case where TAP will be, from the IGB will be supplied by TAP there ones of neighbouring operators.	efore the C/S will sup			
Point		Operator	Year	From Gas System	To Gas System	Capacity
Kipi (TR) / Kipi (GR)		DESFA S.A.	2020	TRi	IB-GRk	54.4 GWh/d
				(Comment: 3 bcm/y	
Komotini (DESFA) Bo	ottlanack	DESFA S.A.	2020	IB-GRk	GR	54.4 GWh/d
Komotini (DESFA) BO	Stieneck			(Comment: 3 bcm/y	/
Capacity Increments	Variant(s) For Information Only					
	Variant : 206.40 GWh/d	case where TAP will be, from the IGB will be supplied by the DESF/ system and the ones of neighbou	A network therefore	the C/S will supply g		
Point		Operator	Year	From Gas System	To Gas System	Capacity
Vini (TD) / Vini (CD)		DESFA S.A.	2020	TRi	IB-GRk	157.8 GWh/c
Kipi (TR) / Kipi (GR)				(Comment: 6 bcm/y	/

urrent TYNDP :	TYNDP 2017 - Annex A				Pa	age 232 of 620
Sponsors		General In	formation		No Barriers Defined	
DESFA S.A.	100%	Promoter		DESFA S.A.		Ba
		Operator		DESFA S.A.		rrier
		Host Country		Greece) s
		Status		Planned		oun
		Website		<u>Project's URL</u>		Ē
		Publication Approval Status		Approved		
	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regim	ie
Part of NDP	Yes (Development Plan NNGS 2015-2024)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	2.2.1.3	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	Yes (6.9.3 and 7.4.1)	Market Test			Exemption Granted	Not Relevant
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2020	2020		

Pipelines and Compressor Stations					
103.20 GWh/d	TANAP at therefore t	e TAP will be, from the beginning, connected to the GR/TR border, and IGB will be supplied by TAP the C/S will supply gas to the DESFA system and f neighbouring operators.			
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Кірі			0	0	9
	Total			0	9

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						9
206.40 GWh/d TANAP at the GR/TR border, and IG8 will supplied by the DESFA system and the ones of neighbouring operators through IG8. Diameter (mm) Length (km) Compressor P Ripeline Section 0 0 18 kipi 0 0 18 Compressor P Compressor P 0 18 Kipi 0 0 18 Compressor P Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compressor P 18 PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compressor P 18 Specific Criteria Fulfilled Yes Ves Ve	Pipelines and Compressor Station	- Alternative Variant				
Kipi 0 0 18 Total 0 18 PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compared to the prior to the commissioning of the project 9 Seneral Criteria Fulfilled Yes 5 Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability 5 Specific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability 5 Specific Criteria Fulfilled Competition, Security of Supply, Sustainability 5 Specific Criteria Fulfilled Competition, Security of Supply, Sustainability 5 Specific Criteria Fulfilled Competition, Security of Supply, Sustainability 5 Specific Criteria Fulfilled Competition, Security of Supply, Sustainability 5 Specific Criteria Fulfilled Competition, Security of Supply, Sustainability 5 Specific Criteria Fulfilled Competition, Security of Supply, Sustainability 5 Specific Criteria Fulfilled Competition, Security of Supply, Sustainability 5 Specific Criteria Fulfilled Competition Security 5 5 Specific Specific Criteria Fulfilled <td< td=""><td>206.40 GWh/</td><td>TANAP at the (DESFA network DESFA system</td><td>GR/TR border, and IGB will be supplied by the k therefore the C/S will supply gas to the</td><td></td><td></td><td></td></td<>	206.40 GWh/	TANAP at the (DESFA network DESFA system	GR/TR border, and IGB will be supplied by the k therefore the C/S will supply gas to the			
Image: Note of the second	Pipeline Section	a	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
PCI Details CI Benefits Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compared to the prior to the commissioning of the project eneral Criteria Fulfilled Yes pecific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability pecific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability rant Obtention Date For Schedule rant Obtention Date O elay Since Last TYNDP O elay Explanation Expected Gas Sourcing aspian Region, Russia, LNG (), Other Central Asian, Middle Eastern and East-Mediterranean sources Benefits fain Driver Market Demand tain Driver Explanation Image: State Demand	Kipi			0	0	18
CI Benefits - Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compared to the prior to the commissioning of the project - Second - Sec		Total			0	18
cliberents prior to the commissioning of the project eneral Criteria Fulfilled Yes obcific Criteria Fulfilled Comments Competition, Market Integration, Security of Supply, Sustainability obcific Criteria Fulfilled Comments Time Schedule rant Obtention Date Figure Schedule elay Since Last TYNDP Objected Gas Sourcing elay Explanation Expected Gas Sourcing aspian Region, Russia, LNG (), Other Central Asian, Middle Eastern and East-Mediterranean sources Benefits lain Driver Market Demand lain Driver Explanation Expected Gas Sourcing			PCI Details			
pecific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability pecific Criteria Fulfilled Competition, Market Integration, Security of Supply, Sustainability celap Erection Time Schedule pelap Since Last TYNDP 0 p		prior to the commissioning of the pro-		es concerned by a	t least 10%, cc	ompared to the situation
Grant Obtention Date Delay Since Last TYNDP Delay Explanation	pecific Criteria Fulfilled		urity of Supply, Sustainability			
rant Obtention Date elay Since Last TYNDP 0 elay Explanation Expected Gas Sourcing aspian Region, Russia, LNG (), Other Central Asian, Middle Eastern and East-Mediterranean sources Benefits Main Driver Market Demand			Time Schedule			
elay Explanation Expected Gas Sourcing aspian Region, Russia, LNG (), Other Central Asian, Middle Eastern and East-Mediterranean sources Iain Driver Market Demand Iain Driver Explanation	rant Obtention Date					
Expected Gas Sourcing Caspian Region, Russia, LNG (), Other Central Asian, Middle Eastern and East-Mediterranean sources Benefits Main Driver Main Driver Explanation	elay Since Last TYNDP	0				
Caspian Region, Russia, LNG (), Other Central Asian, Middle Eastern and East-Mediterranean sources Benefits Main Driver Market Demand Main Driver Explanation	elay Explanation					
Benefits Iain Driver Market Demand Iain Driver Explanation			Expected Gas Sourcing			
Main Driver Market Demand 1ain Driver Explanation	aspian Region, Russia, LNG (), Oth	r Central Asian, Middle Eastern and Ea	ast-Mediterranean sources			
Main Driver Market Demand Main Driver Explanation			Benefits			
	lain Driver Market De	nand				
enefit Description	lain Driver Explanation					
	Jenefit Description					
Southern Corridor GRIP 2017–2						

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TESLA / GR OfftakeDESFA S.A.2020GR/TLAGR318TESLA / GR>FYROMDESFA S.A.2020GR/TLAMK/TLA909TESLA / TR>GRDESFA S.A.2020TRrGR/TLA1,22SponsorsGeneral InformationDESFA S.A.DESFA S.A.DESFA S.A.DESFA S.A.OperatorDESFA S.A.DESFA S.A.				t	Greek part of Tesla proj		
Description The project consists in the construction of a pipeline and three compressor stations, within the territory of Greece, from the GR/TK border to Central Seguratory Decisions and Similar material conditions Regulatory Decisions and Similar material conditions Service Seguratory Seguratory Service Seguratory Seguratory Service Seguratory Service Seguratory S	-FID	CS N	Pipeline including		Project		TRA-N-631
Description GR/MK border. The project is part of a greater project (TESLA project) aiming at transporting natural gas from the GR/TK border to Central via Greece, FYROM, Serbia, Hungary and Austria, as well as Italy. Regulatory Decisions and similar material conditions Capacity Increments Variant For Modelling Point Operator Year TESLA / GR Offtake DESFA S.A. 2020 GR/TLA GR 318 TESLA / GR Offtake DESFA S.A. 2020 GR/TLA GR 318 TESLA / GR Offtake DESFA S.A. 2020 GR/TLA MK/TLA 905 TESLA / GR Offtake DESFA S.A. 2020 TRr GR/TLA 122 Sponsors General Information Promoter DESFA S.A. 2020 TRr GR/TLA 122 Sponsors Greator DESFA S.A. 2020 TRr GR/TLA 122 Sponsors Greator DESFA S.A. Operator DESFA S.A. Operator DESFA S.A. Operator DESFA S.A. Operator DESFA S.A. Political 1 1 Mebsite Status Planned Website Status Planned Status	lvanced	Non-			04/07/2016		Update Date
Similar material conditions Capacity Increments Variant For Modelling Point Operator Year From Gas System To Gas					s part of a greater project (TESLA project) air	GR/MK border. The project is	Description
OperatorYearFrom Gas SystemTo Gas SystemTo Gas SystemControbationTESLA / GR OfftakeDESFA S.A.2020GR/TLAGR318TESLA / GR>FYROMDESFA S.A.2020GR/TLAMK/TLA905TESLA / TR>GRDESFA S.A.2020TRrGR/TLA1,22SponsorsGeneral InformationDESFA S.A.2020TRrGR/TLA1,22SponsorsOperatorDESFA S.A.DESFA S.A.OperatorDESFA S.A.DESFA S.A.OperatorDESFA S.A.100%PromoterDESFA S.A.DESFA S.A.OperatorDESFA S.A.OperatorDESFA S.A.StatusPlannedWebsiteVention1							
TESLA / GR OfftakeDESFA S.A.2020GR/TLAGR318TESLA / GR>FYROMDESFA S.A.2020GR/TLAMK/TLA909TESLA / TR>GRDESFA S.A.2020TRrGR/TLA1,22SponsorsGeneral InformationDESFA S.A.100%PromoterDESFA S.A.OperatorDESFA S.A.OperatorDESFA S.A.VebsiteVebsitePlanned						For Modelling	Capacity Increments Variant
TESLA / GR>FYROM DESFA S.A. 2020 GR/TLA MK/TLA 905 TESLA / TR>GR DESFA S.A. 2020 TRr GR/TLA 1,22 Sponsors General Information Promoter DESFA S.A. 009 TRr USESFA S.A. Operator DESFA S.A. 100% Promoter DESFA S.A. Operator DESFA S.A. Status Status Planned Website Ventical Vent	Capacity	To Gas System	From Gas System	Year	Operator	1	oint
TESLA / TR>GR DESFA S.A. 2020 TRr GR/TLA 1,22 Sponsors General Information DESFA S.A. DESFA S.A. DESFA S.A. Derator DESFA S.A. Operator DESFA S.A. Host Country Greece Political Image: Country of the status Political Image: Country of the status Planned Website Website Website Marcial and the status Planned Marcial and the status Planned Marcial and the status Marcia	18.0 GWh/	GR	GR/TLA	2020	DESFA S.A.		ESLA / GR Offtake
Sponsors General Information DESFA S.A. 100% Promoter DESFA S.A. Operator DESFA S.A. Operator DESFA S.A. Host Country Greece Political Status Planned Website	09.0 GWh/	MK/TLA	GR/TLA	2020	DESFA S.A.		ESLA / GR>FYROM
DESFA S.A. 100% Promoter DESFA S.A. Operator DESFA S.A. Host Country Greece Political Status Planned Website	27.0 GWh	GR/TLA	TRr	2020	DESFA S.A.		ESLA / TR>GR
Operator DESFA S.A. Host Country Greece Status Planned Website 1					General Information		ponsors
Host Country Greece Political 1 Status Planned Website	Ba			DESFA S.A.	Promoter	100%	DESFA S.A.
Status Planned Website	Barriers (Count)			DESFA S.A.	Operator		
Website	1 (C		Political	Greece	Host Country		
	oun			Planned	Status		
Publication Approval Status Approved	đ				Website		
				Approved	Publication Approval Status		
	_						

Current 1	TYNDP	TYNDP	2017 -	Annex A
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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	egime
		Pre-Feasibility			Considered TPA Regime	Regulated
		Feasibility			Considered Tariff Regime	Regulated
	No (The project is still on the maturing	FEED			Applied for Exemption	No
Part of NDP	phase and will be included in the NDP in a later stage.)	Market Test			Exemption Granted	Not Relevan
	in a later stagely	Permitting				
	Greek TS to TAP.)	Supply Contracts			Exemption in entry direction	0.00%
NDP Number		FID			Exemption in exit direction	0.00%
		Construction				
Currently PCI	Yes (6.25.2)	Commissioning	2020	2020		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Greek section			1,400	370	280
Total				370	280
		PCI Details			
PCI Benefits	Project changes the capability prior to the commissioning of	y to transmit gas across the borders of the mer the project	mber states concerned by a	t least 10%, cc	ompared to the situation
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Market Integration, Security c	f Supply, Sustainability			
	MI. The project will provide a	ccess to natural gas to countries/ regions with	out adequate access to it Sc	S. The project	will provide a diversified
Specific Criteria Fulfilled Com		ne project will increase gas penetration in cour			
Specific Criteria Fulfilled Com	ments supply route Sustainability. The				

rrent TYNDP : TYNDP	2 2017 - Annex A	Page 245 of 62
Delay Since Last TYNDP	1 year	
Delay Explanation	Uncertainties on geopolitical issues in SE Europe	
	Expected Gas Sourcing	
Russia, Middle East, Cent	tral Asia	
	Comments about the Third-Party Access Regime	
TPA status and tariff regi	ime will be examined at the next stage.	
	Benefits	
Main Driver	Market Demand	
Vain Driver Explanation	The project investment decision will be taken based on commercial commitments.	
Benefit Description		
	Barriers	
Barrier Type	Description	
Political	Uncertainty on the implementation of upstream infrastructure due to geopolitical issues in the Region.	

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TRA-N-940		Project			Pipeline including	JCS N	on-FID
Update Date		04/0	7/2016			Non-	Advanced
Description		plementation of one Metering sit projects developed in the a		tation at Komot	tini for the potential inter	connection of the	Greek
Regulatory Decis similar material							
Capacity Increm	nents Variant For Modelling						
Point		Operator		Yea	r From Gas System	To Gas System	Capacity
Komotini (DESF/	A) - GR / TAP	DESFA S.A.		202	0 GR/TAP	IB-GRk	0.0 GWh/d
Sponsors		General In	formation		No Ba	rriers Defined	
		Promoter		DESFA S.A.			Ba
		Operator		DESFA S.A.			rrier
		Host Country		Greece			S (C
		Status		Planned			Barriers (Count)
		Website		<u>Project's URL</u>			æ
		Publication Approval Status		Approved			
	NDP and PCI Information	Schedule	Start Date	End Date	Third-Pa	rty Access Regime	2
Part of NDP	Yes (Development Plan NNGS 2015-2024)	Pre-Feasibility			Considered TPA Regime		Regulat
NDP Number	2.2.1.3	Feasibility			Considered Tariff Regim	e	Regulat
		FEED			Applied for Exemption		Not Releva
Currently PCI	Yes (7.1.6)	Market Test			Exemption Granted		Not Releva
		Permitting					
CBCA Decision	No	Supply Contracts			Exemption in entry direc	tion	0.00
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direct	on	0.00
		Construction					
		Commissioning	2020	2020			

	PCI Details
PCI Benefits	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
General Criteria Fulfille	ed Yes
Specific Criteria Fulfille	ed Competition, Market Integration, Security of Supply
Specific Criteria Fulfille	ed Comments
	Expected Gas Sourcing
Caspian Region	
	Benefits
Main Driver	Regulation SoS
Main Driver Explanation	on
	Southern Corridor GRIP 2017–2026 Anne

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	Metering S	Station at Komotini to IGB			
rra-N-957	Project		Pipeline including	g CS 🛛 🔊	lon-FID
Jpdate Date		05/07/2016		Non	-Advanced
Description The	e project consists of a Metering staton that will	enable the Gas Transmission System of Gr	eece to supply gas into	the IGB pipeline.	
Regulatory Decisions and imilar material conditions					
Capacity Increments Variant For					
Point	Operator	Year		To Gas System	Capacity
Comotini (DESFA) - GR / IGB	DESFA S.A	. 2020	IB-GRk	BG/IGB	206.4 GWh,
ponsors		General Information	No Ba	rriers Defined	
	Promoter	DESFA S.A.			52
	Operator	DESFA S.A.			barriers (count)
	Host Country	Greece			10
	Status	Planned			000
	Website				5
	Publication Approv	val Status Approved			
			Southe	rn Corridor GRIP 20	17–2026 Anr

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regin	าย
	No (This project is included in the 10-year	Pre-Feasibility			Considered TPA Regime	Regulated
	Development Study. The D. S. includes	Feasibility			Considered Tariff Regime	Regulated
Part of NDP	projects which are likely to be implemented but are not yet part of the	FEED			Applied for Exemption	Yes
		Market Test			Exemption Granted	Yes
NDP Number		Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
Currently PCI	No	FID			Exemption in exit direction	0.00%
		Construction				
CBCA Decision	No	Commissioning	2020	2020		
Market Survey	Not Relevant (no CBCA decision)					

	PCI Details
PCI Benefits	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, Project concerns investment in reverse flow capacity
General Criteria Fulfilled	Yes
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
Specific Criteria Fulfilled Comm	nents

Expected Gas Sourcing

Caspian Region, LNG (DZ,WO)

	Benefits				
Main Driver	Market Demand				
Main Driver Explan	nation				
Benefit Description	1				

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		Nea-Messimvria to FYROI	VI pipeline			
TRA-N-967		Project		Pipeline including	g CS N	lon-FID
Jpdate Date		04/07/2016			Non	-Advanced
Description The project con	sists of a pipe	line from Nea-Messimvria to the GR/M	K border allowing the su	oply of FYROM by the	Greek Gas Transm	ission System
Regulatory Decisions and imilar material conditions						
Capacity Increments Variant For Modelling						
Point		Operator	Year	From Gas System	To Gas System	Capacity
Stojakovo village (MK) / Pontoiraklia (GR)		DESFA S.A.	2020	GR	МК	76.5 GWh/o
ponsors		General Informatio	on			
DESFA S.A.	100%	Promoter	DESFA S.A.			Bar
		Operator	DESFA S.A.	area and a		1 Count)
		Host Country	Greece	Market		1 6
		Status	Planned			oun
		Website				5
		Publication Approval Status	Approved			
				Souther	rn Corridor GRIP 20:	17–2026 Ann

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regin	ne
	No (The Project is included in the 10-year	Pre-Feasibility			Considered TPA Regime	Regulated
	Development Study. The D. S. includes	Feasibility			Considered Tariff Regime	Regulated
Part of NDP	projects which are likely to be implemented but are not yet part of the	FEED			Applied for Exemption	Yes
	compulsory Projects.)	Market Test			Exemption Granted	Yes
NDP Number		Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
Currently PCI	No	FID			Exemption in exit direction	0.00%
		Construction				
CBCA Decision	No	Commissioning	2020	2020		
Market Survey	Not Relevant (no CBCA decision)					

aklia/Stojakovo		700	50	
		700	50	
Total			50	
	PCI Details			
	3	mber states concerned by a	t least 10%, co	mpared to the situation
Yes				
Competition, Market Integration, See	curity of Supply			
	Project changes the capability to tran prior to the commissioning of the pr Yes	PCI Details Project changes the capability to transmit gas across the borders of the mer prior to the commissioning of the project	PCI Details Project changes the capability to transmit gas across the borders of the member states concerned by at prior to the commissioning of the project Yes	PCI Details Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, co prior to the commissioning of the project Yes

Caspian Region, LNG (DZ,WO)

 Benefits

 Main Driver
 Market Demand

 Main Driver Explanation
 Market Demand

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Benefit Description

		Barriers	
arrier Type	Description		
larket	Lack of market maturity		
			Southern Corridor GRIP 2017–2026 A

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RA-N-1090		Project		Pipeline including		lon-FID
pdate Date			/07/2016			-Advanced
	The project consists of the im		ng and Regulating Station at Alexa	androupoli (Amphitriti) f		
escription	the Greek transmission syster	n with the LNG terminal in No	orthern Greece.			
egulatory Decisions and milar material conditions						
apacity Increments Variant oint	For Modelling	Operator	Yea	r From Gas System	To Gas System	Capacity
lexandroupolis Amphitriti		DESFA S.A.	2020		IB-GRk	268.0 GWh
			La Constantina			
ponsors ESFA S.A.	100%	Promoter	Information DESFA S.A.			
2017(0.7).	10070	Operator	DESFA S.A.			arrie
		Host Country	Greece	Market		1
		Status	Planned			1 (Count)
		Website				5
		Publication Approval Status	Approved			

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regin	ne
	No (This project is not included in the	Pre-Feasibility			Considered TPA Regime	Regulated
	National Development Plan because no	Feasibility			Considered Tariff Regime	Regulated
Part of NDP	application has been made, by the promoter of the LNG terminal in Northern	FEED			Applied for Exemption	Not Relevant
	Greece, for the connection of this project to	Market Test			Exemption Granted	Not Relevant
	the Greek gas transmission system.)	Permitting				
NDP Number		Supply Contracts			Exemption in entry direction	100.00%
		FID			Exemption in exit direction	0.00%
Currently PCI	No	Construction				
		Commissioning	2020	2020		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

	PCI Details
PCI Benefits	
General Criteria Fulfilled	Yes
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply
Specific Criteria Fulfilled Comn	nents

		Benefits	
Main Driver	Market Demand		
Main Driver Explanatio	n		
Benefit Description			
		Barriers	
Barrier Type	Description		
Market	Lack of market maturity		

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		Compressor st	tation at Nea Mess	mvria			
rra-n-971		Project			Pipeline including	J CS N	lon-FID
Jpdate Date			04/07/2016			Non	-Advanced
Description	The project consists of the project is the second phase						m to TAP. This
Regulatory Decisions and imilar material conditions		ie of development of proje		g und negalating			
apacity Increments Variant	For Modelling						
oint		Operator		Year	From Gas System	To Gas System	Capacity
lea Mesimvria		DESFA S.A.		2022	GR	GR/TAP	142.0 GWh/
ponsors		Ge	eneral Information		No Ba	rriers Defined	
		Promoter		DESFA S.A.			2
		Operator		DESFA S.A.			barners (count
		Host Country		Greece			0
		Status		Planned			
		Website					2
		Publication Approval	Status	Approved			
							I
					Souther	n Corridor GRIP 20	17–2026 Anr

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Reg	ime
	No (The Compressor station is included in	Pre-Feasibility			Considered TPA Regime	Regulated
	the 10-year Development Study. The D. S.	Feasibility			Considered Tariff Regime	Regulated
Part of NDP	includes projects which are likely to be implemented but are not yet part of the	FEED			Applied for Exemption	Not Relevant
	compulsory Projects or projects that	Market Test			Exemption Granted	Not Relevant
	require the commercial binding	Permitting				
	agreements by users of the infrastructure.)	Supply Contracts			Exemption in entry direction	0.00%
NDP Number		FID			Exemption in exit direction	0.00%
		Construction				
Currently PCI	No	Commissioning	2022	2022		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

Pipeline S	Section	Pipeline Comment	Diameter (mm) Length (km)	Compressor Power (MW
Nea Messimy				27
	Total			27
		PCI Details		
PCI Benefits		o transmit gas across the borders of the me he project, Project concerns investment in re		ompared to the situation
General Criteria Fulfilled	Yes			
Specific Criteria Fulfilled	Competition, Market Integratio	n, Security of Supply		
Specific Criteria Fulfilled Comr	nents			
		Expected Gas Sourcing		
Caspian Region, Russia, LNG ()				
		Benefits		
Main Driver Mark	et Demand			

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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.

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RA-N-1091		Project		Pipeline including	J CS N	on-FID
pdate Date		04/0	07/2016		Non	Advanced
		plementation of one Metering gas transmission system with t	8 Regulating station at Megalor	ooli, in the Peloponnes	e, for the potential	
egulatory Decisions and milar material conditions	interconnection of the Greek		ine Lust wed pipeline.			
apacity Increments Variant F	or Modelling					
oint		Operator	Year	From Gas System	To Gas System	Capacity
ast Med / Peloponnesus (GR)		DESFA S.A.	2022	GR/EMD	GR	90.0 GWh
ponsors		General Ir	nformation			1.0
ESFA S.A.	100%	Promoter	DESFA S.A.			8
		Operator	DESFA S.A.			
		Host Country	Greece	Market		1
		Status	Planned			1
		Website				2
		Publication Approval Status	Approved			
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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	gime
	No (This project is not included in the	Pre-Feasibility			Considered TPA Regime	Regulated
	National Development Plan because no application has been made, by the	Feasibility			Considered Tariff Regime	Regulated
Part of NDP	promoter of the East-Med pipeline, for the	FEED			Applied for Exemption	Not Relevant
	connection of this project to the Greek gas	Market Test			Exemption Granted	Not Relevant
	transmission system.)	Permitting				
NDP Number		Supply Contracts			Exemption in entry direction	0.00%
		FID			Exemption in exit direction	0.00%
Currently PCI	No	Construction				
		Commissioning	2022	2022		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					
			PCI Details			

PCI Benefits	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
General Criteria Fulfilled	Yes
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply

Specific Criteria Fulfilled Comments

Cyprus, Israel	
Benefits	
Main Driver Market Demand	
Main Driver Explanation	
Benefit Description	

	Barriers	Page 262 of 620
Barrier Type	Description	
Market	Lack of market maturity	

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		Komotini-Thesprotia	pipeline			
TRA-N-014 Update Date Description	High pressure pipeline from H	Project 04/07/2016 Comotini to Thesprotia area near Ionia		Pipeline including	Non	Ion-FID -Advanced tenance centre.
Regulatory Decisions and similar material conditions						
Capacity Increments Variar	nt For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
Poseidon Greek Entry		DESFA S.A.	2023	IB-GRk	GR/IGI	275.4 GWh/o
		DESFA S.A.	2023	GR/IGI	IB-GRk	80.0 GWh/d
Sponsors		General Informat	ion			
DESFA S.A.	100%	Promoter	DESFA S.A.			φ.
		Operator	DESFA S.A.			Barriers (Count)
		Host Country	Greece	Market		1 (
		Status	Planned			Cou
		Website	Project's URL			rf)
		Publication Approval Status	Approved			
				Souther	n Corridor GRIP 20	17–2026 Anne

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	NDP and PCI Information	Schedule	Start Date	End Date	Tł	hird-Party Aco	cess Regime
Part of NDP	Yes (Development Plan NNGS 2015-2024)	Pre-Feasibility			Considered TPA F	Regime	Regulate
NDP Number	2.2.1.4	Feasibility			Considered Tariff	Regime	Regulate
		FEED			Applied for Exem	ption	N
Currently PCI	Yes (7.1.7)	Market Test			Exemption Grante	ed	Not Relevan
		Permitting					
CBCA Decision	No	Supply Contracts			Exemption in entr	ry direction	0.009
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit	direction	0.009
		Construction					
		Commissioning	2023	2023			
Dinalinas and C	ompressor Stations						
Pipelines and C	Pipeline Section	Pine	line Comment		Diameter (mm)	Length (km)	Compressor Power (MW
	Komotini-Thesprotia		ngth of new pipes		1,067	613	58
		otal	ight of new pipes		1,007	613	58
_						015	50
-			PCI Details			1 . 100/	
PCI Benefits		ability to transmit gas acr ing of the project, Project				t least 10%, co	ompared to the situation
General Criteria	Fulfilled Yes						
Specific Criteria	Fulfilled Competition, Market Int	egration, Security of Sup	oly, Sustainability				
Specific Criteria	Fulfilled Comments						
		Tir	ne Schedule				
Grant Obtentior	n Date						
Delay Since Last	t TYNDP 1 year						
Delay Explanatio	on Lack of interest from the	e market					
		Expect	ed Gas Sourcing				

		Benefits					
Main Driver	Market Demand						
Main Driver Explanation	n						
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	Agreemen	t Description	Is Signed	Agreement Signature Date			
Intergovernmental Ag Greece and Italy for th the Interconnection G	e implementation of	ment was ratified by the Greek Parliament in 2006 (Law 3441/Government Gazette 2.2006).	Yes	04/11/2005			

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TRA-N-1092	Project		Pipeline including	CS N	on-FID
Jpdate Date	04/07	/2016		Non	Advanced
	consists of the implementation of one Metering a n system with the UGS in South Kavala.	nd Regulating Station at Kavala	for the potential introd	onnection of the G	reek
Regulatory Decisions and similar material conditions					
Capacity Increments Variant For Modellir	ng				
Point	Operator	Year	From Gas System	To Gas System	Capacity
JGS South Kavala (GR)	DESFA S.A.	2023	STcGR	IB-GRk	44.0 GWh/
	DESFA S.A.	2023	IB-GRk	STcGR	55.0 GWh/
Sponsors DESFA S.A.	General Info100%PromoterOperatorHost CountryStatusWebsitePublication Approval Status	DESFA S.A. DESFA S.A. Greece Planned Approved	Market		barriers (count)

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regime	
	No (This project is not included in the	Pre-Feasibility			Considered TPA Regime	Regulated
	National Development Plan because no	Feasibility			Considered Tariff Regime	Regulated
Part of NDP	application has been made, by the promoter of the UGS in South Kavala, for	FEED			Applied for Exemption	Yes
	the connection of this project to the Greek	Market Test			Exemption Granted	Yes
	gas transmission system.)	Permitting				
NDP Number		Supply Contracts			Exemption in entry direction	0.00%
		FID			Exemption in exit direction	0.00%
Currently PCI	No	Construction				
		Commissioning	2023	2023		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

	Benefits
Main Driver	Market Demand
Main Driver Explanatio	n
Benefit Description	

	Barriers
Barrier Type	Description
Market	Lack of market maturity

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	Trans Adriatic	Pipeline				
TRA-F-051	Project		Pipeline includin	ig CS	FID	
Update Date	24/05/	/2016			Advanced	
Description	The Trans Adriatic Pipeline (TAP) will transport natural gas from Sea, to Italy's southern Puglia region in Province of Lecce. In its with systems in Turkey, to secure access to the Shah Deniz natu Snam Rete Gas in the province of Lecce. TAP's capacity can be Expansion Capacity will be offered to the market via market tes	s upstream part, TAP will interce ural gas field in Azerbaijan and expanded up to a total of 20 b	onnect with TANAP v tie into Italy's gas tra cm/a, subject to bind	vhich is linked furth ansportation grid o ling market deman	er to the east perated by d. The	
Capacity Increments Variant F	or Modelling					
Point	Operator	Year	From Gas System	To Gas System	Capacity	
	Trans-Adriatic Pipeline	AG 2019	GR/TAP	MK	25.0 GWh/d	
		Co	omment: Point not in	TAP's initial design.		
Gostivar (MK) / TAP			r capacity calculation			
	Incremental capacity	/ available for allocation is subje and dep	ect to a check of the s endent on the capacit	, i		
	Trans-Adriatic Pipeline	AG 2019	GR/TAP	IB-HRi/IAP	150.0 GWh/d	
		Сс	omment: Point not in	TAP's initial design.		
Ionic-Adriatic Pipeline - IAP E	htry	GCV used fo	r capacity calculation	s: 11.071 kWh/Sm3	•	
	Incremental capacity	/ available for allocation is subje and dep	ect to a check of the s endent on the capacit			
	Trans-Adriatic Pipeline	AG 2019	TR/TNP	GR/TAP	350.0 GWh/d	
Kipi (TR) / Kipi (TAP)		Comment: GCV used fo	r capacity calculation	s: 11.071 kWh/Sm3		
Komotini TAD / ICP	Trans-Adriatic Pipeline	AG 2019	GR/TAP	BG/IGB	142.0 GWh/c	
Komotini - TAP / IGB		Comment: GCV used fo	r capacity calculation	s: 11.071 kWh/Sm3		
Melendugno - IT / TAP	Trans-Adriatic Pipeline	AG 2019	GR/TAP	IB-ITs	334.0 GWh/o	

Melendugno - IT / TAP		Comr	nent: GCV used for cap	pacity calculations	: 11.071 kWh/Sm	3.
	Trans	-Adriatic Pipeline AG	2019	GR	GR/TAP	142.0 GWh/d
		Comr	nent: GCV used for cap	pacity calculations	: 11.071 kWh/Sm	3.
	In	cremental capacity available for	allocation is subject to	o a check of the sy	stem's capabilities	5
No. Masimunia	In	ncremental capacity available for		o a check of the sy ent on the capacity	1	
Nea Mesimvria		ocremental capacity available for -Adriatic Pipeline AG		. ,	1	

Incremental capacity available for allocation is subject to a check of the system's capabilities and dependent on the capacity bookings in place.

Sponsors		General Inf	ormation	No Barriers Defined
BP	20%	Promoter	Trans Adriatic Pipeline AG	Ba
Snam	20%	Operator	Trans-Adriatic Pipeline AG	Tier
COCAD	2004	Host Country	Greece	S (C)
SOCAR	20%	Status	Planned	ŝ
Fluxys	19%	Website	<u>Project's URL</u>	ē
Enagas	16%	Publication Approval Status	Approved	-

5%

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Reg	jime
		Pre-Feasibility			Considered TPA Regime	Negotiated
Part of NDP	a stand-alone basis, independent from the	Feasibility			Considered Tariff Regime	Negotiated
	national transmission systems of Greece, Albania and Italy.)	FEED	01/2008	03/2013	Applied for Exemption	Yes
NDP Number		Market Test		11/2014	Exemption Granted	Yes
		Permitting	09/2011	03/2017		
Currently PCI	Yes (7.1.3)	Supply Contracts		09/2013	Exemption in entry direction	100.00%
,		FID		12/2013	Exemption in exit direction	100.00%
CBCA Decision	No	Construction	05/2016	12/2019		
Market Survey	Not Relevant (no CBCA decision)	Commissioning	2019	2019		

Pipeline	Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Main onshore section		48" onshore section Greece and Albania	1,200	773	90
Offshore section		36" offshore sectoin and short onshore section Italy	900	105	90
		Total		878	180
		IOLAI		070	100
		PCI Details		0/0	100
PCI Benefits					
PCI Benefits General Criteria Fulfilled		PCI Details the capability to transmit gas across the borders of the member sta			
	prior to the com Yes	PCI Details the capability to transmit gas across the borders of the member sta			

Caspian Region

Comments about the Third-Party Access Regime

Initial Capacity exempted from third party access. Expansion Capacity is subject to third party access and will be offered to the market via market tests, fromm no later than start of operations and subsequently every two years.

		Benefits						
Main Driver	Market Demand							
Main Driver Explanation								
Benefit Description			v gas to flow directly from niz field in Azerbaijan by the					
		Intergovernmental Agreements						
Agreement		Agreement Description	Is Signed	Agreement Signature Date				
Host-government agree and Albania	ment between TAP	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-governmental Agre applicable for import pip		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				
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				

LNG terminal in northern Greece / Alexandroupolis - LNG Section

LNG-N-062		Project		LNG Terminal	Ν	lon-FID
Update Date		20/05/2016	5		A	dvanced
Description	Project is addressed in TRA-N (24km Subsea and 4km Onsh Alexandroupolis where, DESF 17.6km SW of Alexandroupol	ers only to LNG section of the Project, N-063. The project consists of an LNG of ore), connecting the floating unit to th A, the NNGS TSO, will build a metering lis in NE Greece, at an offshore distanc capacity of 700.000 Nm3/h correspond	offshore Floating Storage R ne Greek National Natural (g & regulating station. The e of 5.4 n.m. from the near	egasification Unit, a N Gas System at the area floating unit, will be s	Nooring & a Pipeli a of Amfitriti, 5.5kr stationed in the se	ne system n NE of a of Thrace,
Regulatory Decisions and imilar material conditions	No TPA exemption requested Environment on 19.08.2011 (d NRA only gave opinion on the Indepopin. number: 29/2011)	endent Natural Gas System	License issued by the	e Ministry of Energ	iy &
Capacity Increments Variant	For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
		Gastrade S.A.	2018	LNG_Tk_GR	GRa	187.5 GWh/
Alexandropoulis LNG			Comment: Increme	nent: Increment available 100% at operation start-up.		
Maxandua un alia. A nombituiti		Gastrade S.A.	2018	GRa	IB-GRk	268.0 GWh/
Alexandroupolis Amphitriti			Comment: Increme	ent available 100% at	operation start-up	
sponsors		General Informat	ion			
NG-N-062		Promoter	Gastrade S.A.	Market		2 👦
GASTRADE S.A.	100%	Operator	Gastrade S.A.	Financing		2 2 2
RA-N-063		Host Country	Greece	Regulatory Political	1	o) si
GASTRADE S.A.	100%	Status	Planned	Permit Granting	1	ou ou
JASTRADE S.A.	100 %	Website	Project's URL	Others	1	đ
		Publication Approval Status	Approved			
		Enabled Project	S			
Project Code Project Name					and the second s	

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, in the second s	IDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	egime
Λ	No (The Project is not included in the NDP	Pre-Feasibility		12/2010	Considered TPA Regime	Regulate
	because it is an Independent Natural Gas	Feasibility	01/2014	06/2014	Considered Tariff Regime	Regulate
Part of NDP o	System and therefore the NTSO is not obliged to include it in the NDP because it	FEED	05/2016	12/2016	Applied for Exemption	٨
	is not the Project's promoter and/or	Market Test		03/2017	Exemption Granted	Not Releva
	operator.	Permitting	12/2010	01/2015		
)	Supply Contracts			Exemption in entry direction	0.00
NDP Number		FID		12/2016	Exemption in exit direction	0.00
		Construction	04/2017	06/2018		
Currently PCI	Yes (6.9.1)	Commissioning	2018	2018		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					
LNG Facility	LNG terminal in northern Greece / Alexandroupolis					
					and the second second	
			ical capacity incremen	t will be availe	able from start of operations.	
Storage Capacity ((m3) <i>170,000</i>	4 storage tanks			able from start of operations.	
Expected Volume (Storage Capacity (Ship Size (m3)	(m3) <i>170,000</i> <i>170,000</i>				able from start of operations.	
Storage Capacity (i Ship Size (m3)	(m3) <i>170,000</i>	4 storage tanks			able from start of operations.	
Storage Capacity ((m3) <i>170,000</i> <i>170,000</i>	4 storage tanks DWT 85,000 MT, LOA 300			able from start of operations.	
Storage Capacity (i Ship Size (m3)	(m3) 170,000 170,000 Yes Project aims at fulfilling	4 storage tanks DWT 85,000 MT, LOA 300	9-310 m., Breadth 46 m P <mark>CI Details</mark> rd (N-1) rule at regiona	., Draft 12m.	ordance with Article 6(3) of Regulation	EU, Project aims at
Storage Capacity (i Ship Size (m3) Reloading Ability	(m3) 170,000 170,000 Yes Project aims at fulfilling supplying directly or inc	4 storage tanks DWT 85,000 MT, LOA 300 F the infrastructure standar	9-310 m., Breadth 46 m P <mark>CI Details</mark> rd (N-1) rule at regiona	., Draft 12m.		EU, Project aims at
Storage Capacity (i Ship Size (m3) Reloading Ability PCI Benefits	(m3) 170,000 170,000 Yes Project aims at fulfilling supplying directly or inc	4 storage tanks DWT 85,000 MT, LOA 300 F the infrastructure standar	9-310 m., Breadth 46 m P <mark>CI Details</mark> rd (N-1) rule at regiona per States	., Draft 12m.		EU, Project aims a

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	Time Schedule
Grant Obtention Date	16/04/2015
Delay Since Last TYNDP	12 months in commissining date / same delay in FID
Delay Explanation	Delays in permitting phase: competent authorities delayed in issuing the required licenses. In the case of Access to shore, seabed & sea area, there was a delay of 9 months in order to decide how the existing legislation would apply specifically to the Project. In the case of issuance of the Installation Act & Installation license, the main delay was due to the requirement for the introduction of a legislative change necessary to grant the RoW for the onshore pipeline. Other reasons: complex economic & political situation in Greece, in particular, in the 2H2015 (e.g. capital controls). Also, GASTRADE entered into discussions with Public Gas Corporation of Greece (DEPA) for the participation of the later in the Project. (The EC was duly informed on this since 06/2015). However, the finalization of DEPA's participation in the Project was delayed due to political developments in Greece and administrative changes with DEPA. This caused delay in execution of FEED & reaching FID.
	Expected Gas Sourcing
LNG (), Multi-sourced su	pply including new sources (e.g. U.S., Mozambique)
	Comments about the Third-Party Access Regime
	a formal Market Test as the Project has not applied for a TPA Exemption and Project's commercial viability will be determined by the success of the tial gas offtakers and/or interested LNG suppliers who have interest in using the infrastructure.
	Benefits
Main Driver	Market Demand
Main Driver Explanation	Main drivers: 1. Expressed requirement for diversification of supply sources and routes for SEE markets (Bulgaria, Serbia, FYROM, Romania, Hungary) creates market / demand opportunities for the project 2. Regional demand growth
Benefit Description	LNG terminal in northern Greece will: Secure new natural gas quantities for the supply of the Greek and the SE European markets, hence enhancing the 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 while provide access for new gas findings in the East Med basin 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	If tariff levels for the Project do not enjoy the same regulatory regime as the one applied for other competitive regulated infrastructures in the area, then the Project will become commercially unattractive to potential regional offtakers and therefore financially not viable.
Permit Granting	See above. Delays in Permit granting have led to delays in Project implementation.

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 and Bulgaria. 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 interconnection infrastructures (IGB, IBS) and upgrade of existing ones including reverse flow availability. The most critical one is the Interconnector Greece-Bulgaria (IGB). Also, availability of capacity in the greek, bulgarian and romanian Transmission Systems and reverse flow capacity in Trans Balkan will enable flows from the terminal 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 apply for grants for works in a future Call from CEF. Award of such Public financing will be critical for the Project's commercial viability. Also access to EIB, EBRD, EFSI, IFC PCI favourable financing tools is very important for the Project.
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.
Financing	The Project has been awarded with grants for studies (CEF 2014 Call) and will apply for grants for works (in the next Calls) from the CEF. Award of such Public financing will be critical for the Project's commercial viability. Also access to EIB, EBRD, EFSI, IFC PCI favourable financing tools is very important for the Project.
Market	Lack of market maturity
Financing	Availability of funds and associated conditions

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LNG terminal in northern Greece / Alexandroupolis - Pipeline Section

TRA-N-063		Project		Pipeline including	CS N	lon-FID
Update Date		20/05/2016	5		Ad	dvanced
Description	consists of an LNG offshore F floating unit to the Greek Na a metering & regulating stati	ers only to the pipeline section of the F loating Storage Regasification Unit, a tional Natural Gas System at the area o on. The regasified LNG will be transmi e station will be established to the sho	Mooring & a Pipeline syste of Amfitriti, 5.5km NE of Al- ssioned from the floating u	em (24km Subsea and 4 exandroupolis where, I unit to the 30'' subsea a	4km Onshore), co DESFA, the NNGS and onshore pipe	nnecting the TSO, will build line through a
Regulatory Decisions and similar material conditions	No TPA exemption requested Environment on 19.08.2011 (l NRA only gave opinion on the Indepopin. number 29/2011)	endent Natural Gas System	License issued by the	Ministry of Energ	y &
Capacity Increments Variant	For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
		Gastrade S.A.	2018	LNG_Tk_GR	GRa	187.5 GWh/
Alexandropoulis LNG		Comment: Increment	nt not assessed by ENTSOG:	Submitted in the linked	d Pipelines project	
A laward and a line A more bit with		Gastrade S.A.	2018	GRa	IB-GRk	268.0 GWh/
Alexandroupolis Amphitriti		Comment: Incre	ement not assessed by ENTS	50G: Submitted in the l	inked LNG project	
Sponsors		General Informat	ion			
NG-N-062		Promoter	Gastrade S.A.	Market		2 2
GASTRADE S.A.	100%	Operator	Gastrade S.A.	Financing		2 2 Samers (Count)
FRA-N-063		Host Country	Greece	Regulatory Political	1	IS (
GASTRADE S.A.	100%	Status	Planned	Permit Granting	1	L'OU
JASTRADE S.A.	100%	Website	Project's URL	Others	1	E
		Publication Approval Status	Approved			
		Enabled Project	S			

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	gime
	No (The Project is not included in the NDP	Pre-Feasibility		12/2010	Considered TPA Regime	Regulated
	because it is an Independent Natural Gas	Feasibility	01/2014	06/2014	Considered Tariff Regime	Regulated
Part of NDP	System and therefore the NTSO is not obliged to include it in the NDP because it	FEED	05/2016	12/2016	Applied for Exemption	No
	is not the Project's promoter and/or	Market Test		03/2017	Exemption Granted	Not Relevant
	operator.)	Permitting	12/2010	01/2015		
NDP Number		Supply Contracts			Exemption in entry direction	0.00%
		FID		12/2016	Exemption in exit direction	0.00%
Currently PCI	Yes (6.9.1)	Construction	04/2017	06/2018		
		Commissioning	2018	2018		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

Pipelines and Compressor Sta	ations				
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Alexandroupolis LNG terminal - M/R Amfitriti			762	28	0
	Total			28	0
		PCI Details			
PCI Benefits	Project aims at fulfilling the inf supplying directly or indirectly	rastructure standard (N-1) rule at regional leve at least two Member States	el in accordance with Article	e 6(3) of Regu	lation EU, Project aims at
General Criteria Fulfilled Yes					
Specific Criteria Fulfilled	Competition, Market Integration	on, Security of Supply, Sustainability			
Specific Criteria Fulfilled Comr	ments through inter alia source and r	(SEE + Serbia + FYROM) and beyond (e.g. Hun oute diversification- Greece, Bulgaria, Serbia, F irces and routes of supply Sustainability - Supp	YROM, Hungary, Ukraine,	Turkey Enhanc	es competition in the
		Time Schedule			
Grant Obtention Date	16/04/2015				
Delay Since Last TYNDP	12 months in commissining da	te / same delay in FID			

Delay Explanation

Delays in permitting phase: competent authorities delayed in issuing the required licenses. In the case of Access to shore, seabed & sea area, there was a delay of 9 months in order to decide how the existing legislation would apply specifically to the Project. In the case of issuance of the Installation Act & Installation license, the main delay was due to the requirement for the introduction of a legislative change necessary to grant the RoW for the onshore pipeline. Other reasons: complex economic & political situation in Greece, in particular, in the 2H2015 (e.g. capital controls). Also, GASTRADE entered into discussions with Public Gas Corporation of Greece (DEPA) for the participation of the later in the Project. (The EC was duly informed on this since 06/2015). However, the finalization of DEPA's participation in the Project was delayed due to political developments in Greece and administrative changes with DEPA. This caused delay in execution of FEED & reaching FID.

Expected Gas Sourcing

LNG (LNG), 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

It is not planned to run a formal Market Test as the Project has not applied for a TPA Exemption and Project's commercial viability will be determined by the success of the negotiations with potential gas offtakers and/or interested LNG suppliers who have interest in using the infrastructure.

	Benefits
Main Driver	Market Demand
Main Driver Explanation	Main drivers: 1. Expressed requirement for diversification of supply sources and routes for SEE markets (Bulgaria, Serbia, FYROM, Romania, Hungary) creates market / demand opportunities for the project 2. Regional demand growth
Benefit Description	LNG terminal in northern Greece will: Secure new natural gas quantities for the supply of the Greek and the SE European markets, hence enhancing the 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 while provide access for new gas findings in the East Med basin 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	If tariff levels for the Project do not enjoy the same regulatory regime as the one applied for other competitive regulated infrastructures in the area, then the Project will become commercially unattractive to potential regional offtakers and therefore financially not viable.
Permit Granting	See above. Delays in Permit granting have led to delays in Project implementation.
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 and Bulgaria. 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 interconnection infrastructure (IGB/IBS) and upgrade of existing ones including reverse flow availability. The most critical one is the Interconnector Grece-Bulgaria (IGB). Also, availability of capacity in the greek, bulgarian and romanian Transmission Systems and reverse flow capacity in Trans Balkan will enable flows from the Terminal (through the assorted pipeline) 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 apply for works in a future Call from CEF. Award of such Public financing will be critical for the Project's commercial viability. Also access to EIB, EBRD, EFSI, IFC PCI favourable financing tools is very important for the Project.
Market	The markets in SEE are not mature. Currently all gas transactions are done in 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 (that the pipeline will be connected to).
Financing	The Project has been awarded with grants for studies (CEF 2014 Call) and will aply for grants for works (in the next Calls) from the CEF. Award of such Public financing will be critical for the Project's commercial viability. Also access to EIB, EBRD, EFSI, IFC PCI favourable financing tools is very important for the Project.
Market	Lack of market maturity
Financing	Availability of funds and associated conditions

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		Poseidon	Pipeline				
TRA-N-010		Project	Project P			Non-FID	
Update Date		25/	05/2016				
Description	Poseidon project is designed East Mediterranean, Middle E	The Poseidon project consists of a multisource offshore pipeline that will connect the Greek a Poseidon project is designed to import 14 Billion cubic meters per year of natural gas from se East Mediterranean, Middle East. The total capacity could be upgraded up to 20 Bcm/y with r regarding increased power of the compression station.				ch as Caspian,	
Regulatory Decisions and similar material conditions		ree of the Italian Ministry for Economic Development, dated 31.01.2007 (amended by the Decree dated 21.06.2007) granting d Party Access to IGI Poseidon S.A.					
Capacity Increments Variant	For Modelling						
Point		Operator	Year	From Gas System	To Gas System	Capacity	
East Med / Thesprotia (Pose	idon)	IGI Poseidon S.A.	2020	GR/EMD	GR/IGI	320.0 GWh/d	
Otranto - IT / IGI Poseidon		IGI Poseidon S.A.	2020	IB-ITs	GR/IGI	252.5 GWh/d	
		IGI Poseidon S.A.	2020	GR/IGI	IB-ITs	329.4 GWh/d	
Poseidon Greek Entry		IGI Poseidon S.A.	2020	IB-GRk	GR/IGI	329.4 GWh/d	
Poseidon Greek Entry		IGI Poseidon S.A. 202		GR/IGI	IB-GRk	252.5 GWh/d	
Sponsors		General II	nformation				
IGI POSEIDON S.A.	100%	Promoter	Natural Gas Submarine Interconnector Greece-Italy	Political		1 Count	
		Operator	Poseidon S.A IGI Poseidon S.A.	Permit Granting		1 0	
		Operator Host Country	Greece	Others		1 9	
		Status	Planned			đ	
		Website	<u>Project's URL</u>				
		Publication Approval Status	Approved				
		Enabled	Projects				
Project Code Project Nam IRA-N-330 EastMed Pipe							

	NDP and PCI Information		Start Date	End Date	Third-Party Access F	Regime
	No (Poseidon pipeline is mentioned in the	Pre-Feasibility		06/2003	Considered TPA Regime	Not Applicable
	latest Italian NDP in ANNEX 4 (page 76)	Feasibility	03/2004	10/2007	Considered Tariff Regime	Not Applicable
Part of NDP	while in the Greek NDP there is no reference to the project, since it constitutes	FEED	04/2010	04/2013	Applied for Exemption	Yes
	an Independent Natural Gas System	Market Test		06/2017	Exemption Granted	Yes
	(INGS).	Permitting	11/2006	12/2016		
)	Supply Contracts		12/2017	Exemption in entry direction	0.00%
NDP Number		FID		06/2017	Exemption in exit direction	89.00%
Currently, DCI	V (7 1 4)	Construction	12/2017	07/2020		
Currently PCI	Yes (7.1.4)	Commissioning	2020	2020		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

Pipelines and Comp	pressor Stations				
	Pipeline Sectio	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
	Poseidon pipelir	In 2015 technical studies have been finalized for the potential upgrade of capacity up to 20 Bcm/yr in order to allow the transportation of gas from sources available at the Greek borders and from the sources recently discovered in East Med region.	808	216	120
		Total		216	120
		PCI Details			
PCI Benefits		Project changes the capability to transmit gas across the borders of the member state prior to the commissioning of the project, Project concerns investment in reverse flow		t least 10%, co	mpared to the situation
General Criteria Fulf	filled	Yes			
Specific Criteria Fulf	filled	Competition, Market Integration, Security of Supply, Sustainability			

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Specific Criteria Fulfilled Comments Specific Criteria Fulfilled Comments The project creates the connection between the markets of Greece and Italy, enhancing connectivity and market integration, while promoting 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.

	Time Schedule
Grant Obtention Date	28/07/2010
Delay Since Last TYNDP	
Delay Explanation	
	Expected Gas Sourcing
Caspian Region, Levanti	ne Basin (Cyprus and Israel), offshore Crete and any other gas volumes that could be available at the GR/TU boarders
	Comments about the Third-Party Access Regime
The exempted capacity	is only relative to 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.

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.

	Barriers
Barrier Type	Description
Permit Granting	The major permits for Poseidon Pipeline have been obtained including the EIA in both Italy and Greece and no significant barriers are foreseen for the remaining permits.
Political	Poseidon Pineline has been consistently supported by the Greek and Italian Governments

Others

Poseidon Pipeline was initially conceived to transport gas from the Azeri Shah Deniz 2 field. Following the selection of TAP by the SD2 Consortium, IGI Poseidon is in the process of securing new sources, while maintaining the project's objectives to diversify sources, rotues and counterparts.

	Intergovernmental Ag	greements		
Agreement	Agreement Description		Is Signed Ag	reement Signature Date
Italy-Greece Intergovernmental Agreement			Yes	01/11/2005
Italy-Greece-Turkey Intergovernmental Agreement			Yes	01/07/2007
Joint statement of the Italian Minister of Economic Development and the Turkish Minister of Energy and Natural Resources			Yes	01/11/2009
Memorandum of Understanding between Greece and Turkey			Yes	01/05/2010
Protocol of Cooperation between Italy and Azerbaijan			Yes	01/12/2007

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		EastMed Pipeline					
TRA-N-330		Project		Pipeline including	g CS 🛛 🛚	Non-FID	
Update Date		25/05/2016			Non	-Advanced	
Description	to the European gas system Greece-Thesprotia. The syst	pproximately 1900 km offshore/onshore pip n. The project consists of 5 sections connecti tem will have a capacity of 320-350 GWh/d v ant reserves will be discovered in the offsho	ng the following areas: with the option to upgi	: Levantine basin – Cy	prus –Crete- Pelo	ponnese –West	
Regulatory Decisions and similar material conditions							
Capacity Increments Varian Point	t For Modelling	Operator	Year	From Gas System	To Gas System	Capacity	
		IGI Poseidon S.A.	2020	GRc	GR/EMD	190.0 GWh/	
East Med / Crete (GR)		Comment: In case relevant gas reserves will be discoveredin the offshore area around Crete island.					
		IGI Poseidon S.A.	2020	GR/EMD	GRc	20.0 GWh/c	
East Med / Cyprus (CY)		IGI Poseidon S.A.	2020	GR/EMD	CY	30.0 GWh/c	
East Med / Cyprus/Israeli Pi	roduction Field	IGI Poseidon S.A.	2020	NPcCY	GR/EMD	350.0 GWh/	
East Med / Peloponnesus (GR)	IGI Poseidon S.A.	2020	GR/EMD	GR	90.0 GWh/c	
		IGI Poseidon S.A.	2020	GR/IGI	GR/EMD	320.0 GWh/	
		Comment: It could be upgraded for further 190 Gwh/d, in case relevant gas reserves will be discoveredin the offshore area around Crete					

Sponsors		General Ir	oformation
EastMed pipeline: from Crete to Peloponnese IGI Poseidon SA	100%	Promoter	Natural Gas Submarine Interconnector Greece-Italy Poseidon S.A
EastMed pipeline: from Cyprus to Crete	1000/	Operator	IGI Poseidon S.A.
IGI Poseidon SA	100%	Host Country	Greece
EastMed pipeline: from Levantine Basin to Cypr	us	Status	Planned
IGI Poseidon SA	100%	Website	<u>Project's URL</u>
EastMed pipeline: from Peloponnese to West G	reece	Publication Approval Status	Approved
IGI Poseidon SA	100%		



EastMed pipeline: from West Greece to Thesprotia (tie-in	
with Poseidon)	

IGI Poseidon SA

100%

NDP and PCI Information		Schedule Start Date		End Date	Third-Party Access Regime	
	Vo (EastMed pipeline is not included in the	Pre-Feasibility		08/2012	Considered TPA Regime	Not Applicable
	Greek NDP, as the project is considered an	Feasibility	05/2015	04/2016	Considered Tariff Regime	Not Applicable
Part of NDP	Indipendent Natural gas System. In Cyprus there is no NND as the country	FEED	09/2016	06/2017	Applied for Exemption	Not Yet
	does not have any gas TSO.)	Market Test		07/2017	Exemption Granted	No
NDP Number		Permitting	06/2016	12/2017		
		Supply Contracts		12/2017	Exemption in entry direction	0.00%
Currently PCI	Yes (7.3.1)	FID		06/2017	Exemption in exit direction	0.00%
		Construction	01/2018	12/2020		
CBCA Decision	No	Commissioning	2020	2020		

Market Survey Not Relevant (no CBCA decision)

Page 238 of 620 Current TYNDP : TYNDP 2017 - Annex A **Pipelines and Compressor Stations Pipeline Section Pipeline Comment** Diameter (mm) Length (km) Compressor Power (MW) his offshore pipeline section is designed to transport 320 GWh/d of natural gas form the Levantine Basine and can be EastMed pipeline: section from Crete to Peloponnese 813 421 100 upgraded for further 190 GWh/d of natural gas from the offshore of Crete in case relevant reserves will be discovered. This section of the project is related to the offshore pipeline EastMed pipeline: section from Cyprus to Crete 660 732 125 between Cyprus and Crete. This offshore pipeline section will tansport 350GWh/d to Cyprus where it will deliver 30 Gwh/d for the internal 610 EastMed pipeline: section from Levantine Basin to Cyprus 165 consumption and the remaing 320GW/d will be exported to Greece via Crete. This offshore pipeline section is designed to transport 320 EastMed pipeline: section from West Greece to GWh/d of natural gas form the Levantine Basine and can be 1,070 236 Thesprotia upgraded for further 190 GWh/d of natural gas from the offshore of Crete in case relevant reserves will be discovered. This offshore pipeline section is designed to transport 320 GWh/d of natural gas form the Levantine Basine and can be EastMed: section from Peloponnese to West Greece 1,170 317 upgraded for further 190 GWh/d of natural gas from the offshore of Crete in case relevant reserves will be discovered.

PCI Details

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, Project concerns investment in reverse flow capacity

Yes

PCI Benefits

General Criteria Fulfilled

Specific Criteria Fulfilled

Specific Criteria Fulfilled Comments

Competition, Market Integration, Security of Supply, Sustainability

Total

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.

225

1,871

Time Schedule

Grant Obtention Date Delay Since Last TYNDP

Delay Explanation

Expected Gas Sourcing

Levantine Basin and offshore of Crete in case relevant reserves will be discovered.

23/10/2015

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 Explanatic	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	EastMed Pipeline has been consistently supported by the Cypriot, Greek and Italian Governments.
Financing	It is going to be submitted a request to access CEF funds for feasibility studies

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IGS-N-385	Project			Storage Facilit	y N	lon-FID	
pdate Date		25/05/2016			Non	Non-Advanced	
escription The projects consists	in converting the offshore d	epleted gas field of South Kavala to	o an Unde	erground Gas Storage	Facility.		
egulatory Decisions and milar material conditions							
apacity Increments Variant For Modelling	Oursenter		Veer	From Coo Contorn	To Coo Sunton	Carracita	
oint	Operator		Year	From Gas System	To Gas System	Capacity	
GS South Kavala (GR)		epublic Asset Management Fund epublic Asset Management Fund	2022 2022	STcGR IB-GRk	IB-GRk	44.0 GWh/	
	Helienic Re	epublic Asset Management Fund	2022	ID-GKK	STcGR	55.0 GWh/	
ponsors		General Information					
lellenic Republic Asset Develpment Fund HRADF)	100% Promoter	Hellenic Republic A anagement				Barrie	
	Operator	Hellenic Republic / Management		Market		1 (Count)	
	Host Country	G	ireece			Int	
	Status	Pla	inned				
	Website	Project's	s URL				
	Publication Approv	val Status	Draft				

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access R	egime
No (The Project Promoter is not a		Pre-Feasibility			Considered TPA Regime	Regulate
	ransmission System Operator and as such	Feasibility			Considered Tariff Regime	Regulate
	does not have the obligation to submit a National Development Plan.)	FEED			Applied for Exemption	N
NDP Number		Market Test			Exemption Granted	Not Relevar
		Permitting				
Currently PCI	No	Supply Contracts			Exemption in entry direction	0.00
	110	FID			Exemption in exit direction	0.009
CBCA Decision	No	Construction				
Market Survey	Not Relevant (no CBCA decision)	Commissioning	2022	2022		
inance: barvey						
		Technical	Information (UGS)			
Storage Facility	South Kavala					
Storage Facility Ty						
Multiple-Cycle	Yes					
Working Volume ((mcm) 360.00					
			CI Details			
PCI Benefits	Project aims at fulfilling		d (N-1) rule at regiona	al level in acco	ordance with Article 6(3) of Regulation	n EU, Project aims at
	Project aims at fulfilling supplying directly or inc	the infrastructure standar	d (N-1) rule at regiona	al level in acco	ordance with Article 6(3) of Regulation	n EU, Project aims at
PCI Benefits General Criteria Fu Specific Criteria Fu	Project aims at fulfilling supplying directly or inc ulfilled Yes	the infrastructure standar lirectly at least two Memb	d (N-1) rule at regiona	al level in acco	ordance with Article 6(3) of Regulation	n EU, Project aims at
General Criteria Fu Specific Criteria Fu	Project aims at fulfilling supplying directly or inc ulfilled Yes ulfilled Competition, Security of	the infrastructure standar lirectly at least two Memb	d (N-1) rule at regiona	al level in acco	ordance with Article 6(3) of Regulation	n EU, Project aims at
General Criteria Fu Specific Criteria Fu	Project aims at fulfilling supplying directly or inc ulfilled Yes ulfilled Competition, Security of	the infrastructure standar lirectly at least two Memb f Supply, Sustainability	d (N-1) rule at regiona er States	al level in acco	ordance with Article 6(3) of Regulation	n EU, Project aims at
General Criteria Fu Specific Criteria Fu Specific Criteria Fu	Project aims at fulfilling supplying directly or inc ulfilled Yes ulfilled Comments	the infrastructure standar lirectly at least two Memb f Supply, Sustainability	d (N-1) rule at regiona	al level in acco	ordance with Article 6(3) of Regulation	n EU, Project aims at
General Criteria Fu Specific Criteria Fu Specific Criteria Fu Grant Obtention D	Project aims at fulfilling supplying directly or inc ulfilled Yes ulfilled Competition, Security of ulfilled Comments	the infrastructure standar lirectly at least two Memb f Supply, Sustainability	d (N-1) rule at regiona er States	al level in acco	ordance with Article 6(3) of Regulation	n EU, Project aims at
General Criteria Fu Specific Criteria Fu Specific Criteria Fu Grant Obtention D Delay Since Last T	Project aims at fulfilling supplying directly or inc ulfilled Yes ulfilled Comments Date YNDP 2 years	the infrastructure standar directly at least two Memb f Supply, Sustainability Tin	rd (N-1) rule at regiona er States ne Schedule		ordance with Article 6(3) of Regulation	n EU, Project aims at
General Criteria Fu Specific Criteria Fu Specific Criteria Fu	Project aims at fulfilling supplying directly or inc ulfilled Yes ulfilled Comments Date YNDP 2 years	the infrastructure standar directly at least two Memb f Supply, Sustainability Tin ure to select the project p	rd (N-1) rule at regiona er States ne Schedule			n EU, Project aims at

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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 Explanati	ion
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
	Southern Corridor GRIP 2017–2026 Anne

D Hungary

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TRA-N-286	Project		Pipeline including	g CS N	on-FID
Jpdate Date	22/06/2016			Non-	Advanced
	station at Csanádpalota with 2 units (4.5 MW eac nd towards Romania.	h) - necessary to create p	ressure conditions for	the transportatior	n capacity of
Regulatory Decisions and similar material conditions					
Capacity Increments Variant For Modelling	Operator	Year	From Gas System	To Gas System	Capacity
Csanadpalota	FGSZ Ltd.	2020	RO	HU	48.9 GWh/0
Sponsors	General Informati	on			
	General Informati	on FGSZ Ltd.			Ba
			Regulatory		Barrie
	100% Promoter	FGSZ Ltd.	Regulatory		Barriers (C
	100% Promoter Operator	FGSZ Ltd. FGSZ Ltd.	Regulatory Market		Barriers (Cour
Sponsors FGSZ Ltd.	100% Promoter Operator Host Country	FGSZ Ltd. FGSZ Ltd. Hungary			Barriers (Count)

TRA-N-377 Romanian-Hungarian reverse flow Hungarian section 2nd stage

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	PCI Information	Schedule	Start Date	End Date	Third-Party Act	cess Regime
Part of NDP	Yes (Hungarian TYNDP 2015)	Pre-Feasibility		06/2014	Considered TPA Regime	Regulate
NDP Number	12.6.1.	Feasibility	09/2016	07/2017	Considered Tariff Regime	Regulate
		FEED	07/2018	10/2018	Applied for Exemption	N
Currently PCI	Yes (6.24.1)	Market Test		12/2016	Exemption Granted	Ν
		Permitting	07/2018			
CBCA Decision	Yes (2016-10-06)	Supply Contracts		06/2017	Exemption in entry direction	0.009
Market Survey	Open Season(2016-12-31)	FID		05/2017	Exemption in exit direction	0.009
		Construction	10/2018			
		Commissioning	2020	2020		
Pipelines and Compresso	r Stations					
Pipeli	ine Section		Pipeline Comment		Diameter (mm) Length (km)	Compressor Power (MV
Csar	nadpalota					9
	Te	otal				9
			PCI Details			
PCI Benefits					es concerned by at least 10%, co w capacity	ompared to the situation
PCI Benefits General Criteria Fulfilled			as across the borders of the			ompared to the situation
	prior to the commission	ning of the project, Pr	as across the borders of the roject concerns investment			ompared to the situation
General Criteria Fulfilled	prior to the commission Yes Competition, Market Int	ning of the project, Pr	as across the borders of the roject concerns investment			ompared to the situation
General Criteria Fulfilled Specific Criteria Fulfilled	prior to the commission Yes Competition, Market Int	ning of the project, Pr	as across the borders of the roject concerns investment			ompared to the situation
General Criteria Fulfilled Specific Criteria Fulfilled	prior to the commission Yes Competition, Market Int	ning of the project, Pr	as across the borders of the roject concerns investment ⁻ Supply, Sustainability			ompared to the situation
General Criteria Fulfilled Specific Criteria Fulfilled Specific Criteria Fulfilled Co	prior to the commission Yes Competition, Market Int omments	ning of the project, Pr	as across the borders of the roject concerns investment ⁻ Supply, Sustainability			ompared to the situation
General Criteria Fulfilled Specific Criteria Fulfilled Specific Criteria Fulfilled Co Grant Obtention Date	prior to the commission Yes Competition, Market Int omments 14/10/2015	ing of the project, Pr	as across the borders of the roject concerns investment ⁻ Supply, Sustainability			ompared to the situation

		Benefits
Main Driver	Market Demand	
Main Driver Explar	nation	
Benefit Description	n	
		Barriers
Barrier Type	Description	
Regulatory	Low rate of return	
Market	Lack of market support	
Market	Lack of market support	
		Southern Corridor GRIP 2017–2026 Anne:

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FRA-N-325		Project	0.405.4004.5	Pipeline including		lon-FID
Jpdate Date			22/06/2016			-Advanced
		nection will establish a bidire ional gas markets.	ectional interconnection between Slo	venian and Hungarian	gas transmission	systems and
Regulatory Decisions and		J				
imilar material conditions	_					
Capacity Increments Variant For Modelling	g	Operator	Year	From Gas System	To Gas System	Capacity
		FGSZ Ltd.	2020	HU	SI	38.2 GWh/0
			Comment: 1/3 is	firm capacity+2/3 is in	teruptible capacity	
ince (SI) / Tornyszentmiklos (HU)		FGSZ Ltd.	2020	SI	HU	38.2 GWh/
			Comment: 1/3 is fir	m capacity + 2/3 is int	erruptible capacity	
ponsors		Genera	I Information	No Ba	rriers Defined	1
GSZ Ltd.	100%	Promoter	FGSZ Ltd.			8
		Operator	FGSZ Ltd.			rrie
		Host Country	Hungary			is (c
		Status	Planned			Barriers (Count
		Website	Project's URL			đ
		Publication Approval State	us Approved			
		Enabl	ed Projects			
roject Code Project Name						

NDP ar	nd PCI Information	Schedule	Start Date	End Date	e Third-Party Access Regime		
Part of NDP	Yes (Hungarien TYNDP 2015)	Pre-Feasibility		12/2015	Considered TPA Re	gime	Regulate
NDP Number	12.12.112.12.2	Feasibility	05/2016	12/2017	Considered Tariff R	egime	Regulate
		FEED	06/2017	11/2019	Applied for Exempt	ion	Ν
Currently PCI	Yes (6.23)	Market Test			Exemption Granted	l	N
		Permitting	11/2016	10/2017			
CBCA Decision	No	Supply Contracts			Exemption in entry	direction	0.009
Market Survey	Not Relevant (no CBCA decision)	FID		02/2018	Exemption in exit d	irection	0.009
		Construction	09/2019	12/2020			
		Commissioning	2020	2020			
Pipelines and Compres	sor Stations						
Pip	peline Section		Pipeline Comment		Diameter (mm)	.ength (km)	Compressor Power (MW)
Nagykaniz	sa-Tornyiszentmiklós				500	41	9
	т	otal				41	9
			PCI Details				
PCI Benefits	Project changes the cap prior to the commissior		as across the borders of th	ne member stat	es concerned by at l	east 10%, co	ompared to the situation
General Criteria Fulfilled	Yes						
Specific Criteria Fulfilled	Market Integration, Sec	urity of Supply					
Specific Criteria Fulfilled	Comments						
		E	xpected Gas Sourcing				
LNG ()							
			Benefits				
Main Driver	Market Demand						
Main Driver Explanation							

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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.

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TRA-N-585		Project		Pipeline including	g CS 🛛 🔊	lon-FID
Jpdate Date		27/05/2016			Non	-Advanced
Description	Macedonia, Serbia, Hungary Turkey to Austria, but accoric direction.	oject is to transport natural gas from the pla and Austria. The Hungarian section is part o Ing to EU rules we intend to ensure the reve	of the TR-GR-FYROM-	SRB-HU-AT corridor.	The main flow dire	ction is from
Regulatory Decisions and imilar material condition						
Capacity Increments Varia	ant For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
TESLA / HU Offtake	<u> </u>	FGSZ Ltd.	2020	HU/TLA	HU	175.0 GWh/
TESLA / RS>HU		FGSZ Ltd.	2020	RS/TLA	HU/TLA	582.0 GWh/
Sponsors		General Information				
GSZ Ltd.	100%	Promoter	FGSZ Ltd.			Ba
		Operator	FGSZ Ltd.			1 (Count)
		Host Country	Hungary	Others		1 (0
		Status	Planned			oun
		Website				ť
		Publication Approval Status	Approved			

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NDP a	nd PCI Information	Schedule	Start Date	End Date	TI	hird-Party Acc	cess Regime
Part of NDP	Yes (Hungarian TYNDP 2015)	Pre-Feasibility		12/2015	Considered TPA	Regime	Regulate
NDP Number	12.15.1 12.15.2.	Feasibility	01/2017	12/2017	Considered Tariff	Regime	Regulate
		FEED	10/2016	03/2018	Applied for Exem	ption	N
Currently PCI	Yes (6.25.2.)	Market Test		10/2016	Exemption Grante	ed	N
		Permitting	10/2016	03/2018			
CBCA Decision	No	Supply Contracts		08/2018	Exemption in ent	ry direction	0.009
Market Survey	Not Relevant (no CBCA decision)	FID		03/2018	Exemption in exit	direction	0.009
		Construction	09/2018	05/2020			
		Commissioning	2020	2020			
Pipelines and Compres	ssor Stations						
	peline Section	Pi	peline Comment		Diameter (mm)	Length (km)	Compressor Power (MW
			ation, in order to put nat	ural gas from		5	
Hur	ngarian section t		system (gas storage, oth Tesla pipeline.	er sources) to	1,200	361	50
	T	otal				361	50
			PCI Details				
PCI Benefits	Project changes the cap prior to the commission		across the borders of the	member stat	es concerned by a	t least 10%, co	ompared to the situation
General Criteria Fulfilled	d Yes						
Specific Criteria Fulfilled	d Competition, Market Int	egration, Security of Su	upply, Sustainability				
Specific Criteria Fulfilled	d Comments						
			Time Schedule				
Grant Obtention Date							
Delay Since Last TYNDP	2 1 year						
Delay Explanation	Russian/Turkey conflict.						
		Expe	ected Gas Sourcing				
Caspian Region, Russia							
							_
						Southorn Corrid	or GRIP 2017–2026 Annex

	Benefits
Main Driver	Others
Main Driver Explanation	The main project driver is to ensure the supply of countries in the Balkan region and Central and Eastern Europe in case the Russian supply will terminate via Ukraine in the future.
Benefit Description	
	Barriers
Barrier Type	Description
Others	Financing difficulties.
	Southern Corridor GRIP 2017–2026 Annex

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		HU-U/	A reverse flow					
TRA-N-586		Project			Pipeline	e includin	g CS	Non-FID
Update Date			25/05/2016				N	on-Advanced
Description	The main aim of the project is	s to ensure firm capacity a	at IP Beregdaróc in the	e Hungary-Uki	raine directio	n.		
Regulatory Decisions and similar material conditions								
Capacity Increments Variar	nt For Modelling							
Point		Operator		Yea	ar From G	Gas System	To Gas Syste	m Capacity
Beregdaróc 800 (HU) - Ber	egovo (UA) (HU>UA)	FGSZ Ltd.		202	20	HU	UAe	180.0 GWh/d
Sponsors		Gene	eral Information					
FGSZ Ltd.	100%	Promoter		FGSZ Ltd.				8
		Operator		FGSZ Ltd.	0			rrie
		Host Country		Hungary	Others			arriers (Count)
		Status		Planned				e e
		Website						E
		Publication Approval St	atus	Approved				
NDP and F	PCI Information	Schedule	Start Date	End Date		Third-Pa	arty Access Reg	Jime
Part of NDP	Yes (Hungarian TYNDP 2015)	Pre-Feasibility			Considered	TPA Regime	9	Regulated
NDP Number	12.17.	Feasibility			Considered	Tariff Regin	ne	Regulated
		FEED			Applied for	Exemption		No
Currently PCI	No	Market Test			Exemption	Granted		No
		Permitting						
CBCA Decision	No	Supply Contracts			Exemption i	n entry dire	ction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption i	n exit direct	ion	0.00%
		Construction						
		Commissioning	2020	2020				

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Pipelines and Compres	sor Stations		
Pip	eline Section	Pipeline Comment	Diameter (mm) Length (km) Compressor Power (MW
Hungarian section		Piping installation at Városföld, Hajdúszoboszló, Beregdaróc nodes and compressor stations and aftercoolers, which enables the reverse flow. Measuring station is also necessary at Beregdaróc node.	0
		Total	0
		Expected Gas Sourcing	
Algeria, Norway, Russia,	LNG (HR)		
_		Benefits	
Main Driver	Market Demand		
Main Driver Explanation	At the moment FGSZ is ab this new entry point is very	le to ensure only interruptible capacity at IP Beregdaróc (HU>UA directy y important for Ukraine.	tion). Ukrainian party always requests firm capacity, and
Benefit Description			
		Barriers	
Barrier Type	Description		
Others	Financing difficulties.		
			Southern Corridor GRIP 2017–2026 Ann

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		Eastring - Hungary				
TRA-N-656		Project		Pipeline including	J CS N	lon-FID
Jpdate Date		27/05/2016			Non	-Advanced
Description	with IP at the BG/TR bord passing production & sto new pipeline, passing 2 p and therefore it will incre	t located in Hungary and is essential part of t der in the following routing options: – from S orage area and continuing to IP Isaccea and th oroduction & storage areas and continuing to ase gas SoS in the broader Central-South-Eas mean step towards EU single gas market.	K to RO – via HU, (new len to BG/TR border by BG/TR border. The proj	pipeline). – from RO t utilizing existing RO-E ect would (i) secure su	to TR – Option A - 3G transit assets – upplies in case of F	- new pipeline Option B – RU disruption
egulatory Decisions imilar material cond	s and litions	1 5 5				
Point	Variant For Modelling	Operator	Year	From Gas System	To Gas System	Capacity
		FGSZ Ltd.	2021	HU/EAR	SK/EAR	570.0 GWh/
		FGSZ Ltd.	2021	SK/EAR	HU/EAR	570.0 GWh/
astring Cross-Borde	er HU/EAR <> SK/EAR	FGSZ Ltd.	2025	HU/EAR	SK/EAR	570.0 GWh/
		FGSZ Ltd.	2025	SK/EAR	HU/EAR	570.0 GWh/
		FGSZ Ltd.	2021	HU/EAR	RO/EAR	570.0 GWh/
		Comment: New interconnec	tion point, New capacity	r increment from 4Q 2	025 to the level of 1140 GWh/d.	
		FGSZ Ltd.	tion point, New capacity 2021	r increment from 4Q 2 RO/EAR		570.0 GWh/o
astring Cross-Borde	er RO/EAR <> HU/EAR		2021	RO/EAR	1140 GWh/d. HU/EAR	570.0 GWh/o
astring Cross-Borde	er RO/EAR <> HU/EAR	FGSZ Ltd.	2021	RO/EAR	1140 GWh/d. HU/EAR 025 to the level of	570.0 GWh/o
astring Cross-Borde	er Ro/Ear <> Hu/Ear	FGSZ Ltd. Comment: New interconnec	2021 tion point, New capacity	RO/EAR r increment from 4Q 2	1140 GWh/d. HU/EAR 025 to the level of 1140 GWh/d.	570.0 GWh/
astring Cross-Borde		FGSZ Ltd. Comment: New interconnec FGSZ Ltd.	2021 tion point, New capacity 2025	RO/EAR r increment from 4Q 2 HU/EAR	1140 GWh/d. HU/EAR 025 to the level of 1140 GWh/d. RO/EAR	570.0 GWh/

Sponsors		General Informat	ion	No Barriers Defined
GSZ Ltd.	100%	Promoter	FGSZ Ltd.	
		Operator	FGSZ Ltd.	
		Host Country	Hungary	
		Status	Planned	
		Website	Project's URL	
		Publication Approval Status	Approved	34

Enabled Projects

Project Code Project Name

TRA-N-018 Városföld-Ercsi-Győr

NDF	NDP and PCI Information		Start Date	End Date	Third-Party Access F	Regime
Part of NDP	Yes (Eastring pipeline)	Pre-Feasibility			Considered TPA Regime	Not Applicable
NDP Number	12.16	Feasibility	05/2016	04/2017	Considered Tariff Regime	Not Applicable
		FEED			Applied for Exemption	Not Relevant
Currently PCI	Yes (Not Defined yet)	Market Test			Exemption Granted	Not Relevant
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2021	2025		

Pipe	eline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Eas	tring-HU-1/2			1,400	112	0
		Total			112	0
			PCI Details			
CI Benefits			nit gas across the borders of the me ect, Project concerns investment in re		t least 10%, co	empared to the situation

General Criteria Fulfilled

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

Yes

Specific Criteria Fulfilled Comments

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, Irac Egypt, Israel, Cyprus. Most of them from perspective Turkish natural gas hub/border Turkey/BG;
	Southern Corridor GRIP 2017–2026 Anne

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		Városföld-Ercsi-G	yőr				
TRA-N-018		Project		Pipeline including CS			
Update Date		08/05/2016					
Description	reach its full capacity of 153	Pipeline between Városföld-Ercsi and Győr nodes, DN1000, PN100, 210 km.This project will enable the Mosonmagyarovar reach its full capacity of 153 GWh/d from Austria to Hungary.It will also enable the Mosonmagyarovar interconnection poir capacity up to 153 GWh/d from Hungary to Austria as well.					
Regulatory De similar materia	ecisions and						
Capacity Incre	ements Variant For Modelling						
Point		Operator	Year	From Gas System	To Gas System	Capacity	
Mosonmagya	rovar	FGSZ Ltd.	2022	AT	HU	25.0 GWh/d	
wosonnagya	TOVAL	FGSZ Ltd.	2022	HU	AT	153.0 GWh/d	
Sponsors		General Informati	on				
FGSZ Ltd.	100%	Promoter	FGSZ Ltd.	_		Ba	
		Operator	FGSZ Ltd.	Market		2 2	
		Host Country	Hungary) s	
		Status	Planned	Regulatory	1	Ê	
		Website				Ę	
		Publication Approval Status	Approved				
		Enabled Projects					
Project Code	Project Name						
TRA-N-377	Romanian-Hungarian reverse flow Hungari	an section 2nd stage					
TRA-N-286	Romanian-Hungarian reverse flow Hungari	an section 1st stage					
TRA-N-123	Városföld CS	-					

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NDP and P	CI Information	Schedule	Start Date	End Date	Third-Party Acc	ess Regime
Part of NDP	Yes (Hungarian TYNDP 2015)	Pre-Feasibility		06/2014	Considered TPA Regime	Regulated
NDP Number	12.7.	Feasibility	09/2016	07/2017	Considered Tariff Regime	Regulated
		FEED	11/2018	04/2020	Applied for Exemption	No
Currently PCI	Yes (6.24.4.)	Market Test		12/2016	Exemption Granted	No
		Permitting	05/2017	09/2018		
CBCA Decision	Yes (2016-10-06)	Supply Contracts		04/2017	Exemption in entry direction	0.00%
Market Survey	Open Season(2016-12-31)	FID		10/2018	Exemption in exit direction	0.00%
		Construction	03/2021	12/2022		
		Commissioning	2022	2022		
Dinalinas and Compressor C	Mations					
Pipelines and Compressor S			Pipeline Comment		Diameter (mm) Length (km)	Compressor Power (MW)
Pipeline Section Városfold-Ercsi-Gyor			ripeline comment		1,000 210	compressor rower (initia)
Varosioiu		otal			210	
_	•	otar			LIU	
	Droject changes the con	ability to transmit or	PCI Details	, manakar stat	es concerned by at least 10%, cc	reported to the cituation
PCI Benefits			roject concerns investment			impared to the situation
General Criteria Fulfilled	Yes		-			
Specific Criteria Fulfilled	Competition, Market Int	egration, Security of	Supply, Sustainability			
Specific Criteria Fulfilled Con	nments					
			Time Schedule			
Grant Obtention Date	14/10/2015					
Delay Since Last TYNDP	3 year					
Delay Explanation		ands delay minimum	3 years and harmonization	n with RO/HU	/AT planned capacity booking.	
			spected Gas Sourcing			
Diack Cas		Ex	pected das sourcing			
Black Sea						

	Benefits
Main Driver	Market Demand
Main Driver Explanatio	n RO>HU>AT transmission corridor (Black Sea or other gas source)
Benefit Description	oBlack Sea gas or other gas source transmission to the European Gas Market 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.
	Barriers
Barrier Type	Description
Market	Lack of market support
Market	Lack of market maturity
Regulatory	Low rate of return

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		Ercsi-Szazhalombatta				
TRA-N-061	Proj	Project		Pipeline including CS		
Update Date		06/05/2016			Non	-Advanced
Description at Ercsi to	line between Ercsi and Szazhalomba the Budapest ring at Százhalombat 15 °C) in both directions in the FGSZ	ta (Central Hungary) – it incre				
Regulatory Decisions and similar material conditions						
Capacity Increments Variant For Model	ling					
Point	Operat	tor	Year	From Gas System	To Gas System	Capacity
Vecsés MGT / FGSZ	FGSZ L	td.	2022	HUi	HU	25.5 GWh/c
Sponsors		General Information		No Ba	rriers Defined	
GSZ Ltd.	100% Promoter		FGSZ Ltd.			Ba
	Operator		FGSZ Ltd.			Irrie
	Host Country		Hungary			Barriers (Count)
	Status		Planned			Our
	Website					đ
	Publication App	proval Status	Approved			
		Enabled Projects				
Project Code Project Name						
RA-N-123 Városföld CS						
RA-N-018 Városföld-Ercsi-Győr						
						_

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Market Survey Open Season(2016-12-31) FID 10/2018 Exempting Construction 03/2021 12/2022 2022 2022 2022 Pipelines and Compressor Stations Pipeline Section Pipeline Comment Diame	ered Tariff Regime Regulation for Exemption / Internation Internatio Internation Internati
Currently PCIYes (6.24.5)FEED11/201804/2020AppliedCurrently PCIYes (6.24.5)Market Test12/2016ExemptiPermitting05/201709/201804/2017ExemptiCBCA DecisionYes (2016-12-31)Supply Contracts04/2017ExemptiMarket SurveyOpen Season(2016-12-31)FID10/2018ExemptiConstruction03/202112/202220222022Pipelines and Compressor StationsCommissioning20222022DiamePipeline SectionPipeline CommentDiameErcsi-SzazhalombattaCommissioningCommentComment	for Exemption / ion Granted / ion in entry direction 0.00 ion in exit direction 0.00
Currently PCIYes (6.24.5)Market Test12/2016ExemptiPermitting05/201709/2018999CBCA DecisionYes (2016-12-31)Supply Contracts04/2017ExemptiMarket SurveyOpen Season(2016-12-31)FID10/2018ExemptiConstruction03/202112/202220222022Pipelines and Compressor StationsPipeline CommentDiamePipeline SectionPipeline CommentExemptiConstruction03/2021202220222022Pipeline SectionPipeline CommentDiameCorst Stations </td <td>ion Granted / ion in entry direction 0.00 ion in exit direction 0.00</td>	ion Granted / ion in entry direction 0.00 ion in exit direction 0.00
CBCA DecisionYes (2016-12-31)Permitting05/201709/2018Market SurveyOpen Season(2016-12-31)FID04/2017ExemptiConstruction03/202112/202220222022Commissioning2022202220222022Pipelines and Compressor StationsPipeline SectionPipeline CommentDiame Ercsi-Szazhalombatta	ion in entry direction 0.00 ion in exit direction 0.00
CBCA Decision Yes (2016-12-31) Supply Contracts 04/2017 Exempti Market Survey Open Season(2016-12-31) FID 10/2018 Exempti Construction 03/2021 12/2022 2022 2022 Commissioning 2022 2022 2022 2022 2022 Pipelines and Compressor Stations Diame Ercsi-Szazhalombatta E	ion in exit direction 0.00
Market Survey Open Season(2016-12-31) FID 10/2018 Exemption Construction 03/2021 12/2022 2022 <td>ion in exit direction 0.00</td>	ion in exit direction 0.00
Construction03/202112/2022Commissioning20222022Pipelines and Compressor StationsPipeline SectionPipeline CommentDiameErcsi-Szazhalombatta	
Commissioning20222022Pipelines and Compressor StationsPipeline SectionPipeline CommentDiame Ercsi-Szazhalombatta	
Pipelines and Compressor Stations Pipeline Section Pipeline Comment Diame Ercsi-Szazhalombatta E	
Pipeline SectionPipeline CommentDiameErcsi-Szazhalombatta6	
Pipeline SectionPipeline CommentDiameErcsi-Szazhalombatta6	
Ercsi-Szazhalombatta	
	eter (mm) Length (km) Compressor Power (MV
Total	800 11
	11
PCI Details	
PCI Benefits Project changes the capability to transmit gas across the borders of the member states concerning prior to the commissioning of the project	rned by at least 10%, compared to the situation
General Criteria Fulfilled Yes	
Specific Criteria Fulfilled Competition, Security of Supply	
Specific Criteria Fulfilled Comments	
Time Schedule	
Grant Obtention Date 14/10/2015	
Delay Since Last TYNDP 3 year	
Delay Explanation New power plants' demands delay minimum 3 year, which related to the TYNDP.	
Europeted Coo Sourcing	
Expected Gas Sourcing	

	DP 2017 - Annex A Benefits	Page 310 of 6
Main Driver	Market Demand	
Main Driver Explanatio	n	
Benefit Description	o The Hungarian projects taken as a whole main aim, is to enhance the flexibility of the Hungarian transmission system by systems, ensuring reserves flow availability, and guaranteeing flow deliverability which will enhance the transmission system along with helping with further market integration.	connecting to neighbouring ns security of supply positior
		Corridor GRIP 2017–2026 Ar

		Városföld CS				
TRA-N-123		Project		Pipeline including	g CS N	on-FID
Update Date		06/05/2016			Non-	-Advanced
Description	An additional compressor un transportation along the HU s	it (5.7 MW) at the existing compressor section of the Corridor.	station at Városföld, nece	ssary to ensure adequ	ate pressure for th	e
Regulatory Decisions and imilar material condition	5					
Capacity Increments Varia	nt For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
Mosonmagyarovar		FGSZ Ltd.	2022	AT	HU	25.0 GWh/
Sponsors		General Informati	on			
FGSZ Ltd.	100%	Promoter	FGSZ Ltd.			5
		Operator	FGSZ Ltd.	Regulatory		1
		operator	7 OSE Etta.	negulatory		
		Host Country	Hungary			S (C
				Market		1 (Cour
		Host Country	Hungary			1 (Count)
		Host Country Status	Hungary Planned			s (Count)
		Host Country Status Website	Hungary Planned <u>Project's URL</u> Approved			
Project Code Project Na	me	Host Country Status Website Publication Approval Status	Hungary Planned <u>Project's URL</u> Approved			1 (Count)
Project Code Project Na TRA-N-018 Városföld-		Host Country Status Website Publication Approval Status	Hungary Planned <u>Project's URL</u> Approved			

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NDP an	d PCI Information	Schedule	Start Date	End Date	Third-Party Ac	cess Regime
Part of NDP	Yes (Hungarian TYNDP 2015)	Pre-Feasibility		06/2014	Considered TPA Regime	Regulated
NDP Number	12.10.	Feasibility	09/2016	07/2017	Considered Tariff Regime	Regulated
		FEED	11/2018	04/2020	Applied for Exemption	No
Currently PCI	Yes (6.24.6.)	Market Test		12/2016	Exemption Granted	No
		Permitting	05/2017	09/2018		
CBCA Decision	No	Supply Contracts		04/2017	Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID		10/2018	Exemption in exit direction	0.00%
		Construction	03/2021	12/2022		
		Commissioning	2022	2022		
Pipelines and Compress	or Stations					
	eline Section		Pipeline Comment		Diameter (mm) Length (km) Compressor Power (MW)
	árosföld CS					6
		otal				6
			PCI Details			
PCI Benefits	Project changes the cap prior to the commission			he member stat	tes concerned by at least 10%, c	ompared to the situation
General Criteria Fulfilled	Yes	5 1 5				
Specific Criteria Fulfilled	Competition, Security o	f Supply				
· Specific Criteria Fulfilled						
			Time Schedule			
Grant Obtention Date	14/10/2015					
Delay Since Last TYNDP	Yes, 3 year.					
Delay Explanation	New power plants' dem	ands delay minimur	m 3 year, which related to	the TYNDP.		
			Benefits			
Main Driver	Market Demand					
Main Driver Explanation						
					Southern Corri	

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.

		Barriers	
Barrier Type	Description		
Regulatory	Low rate of return		
Market	Lack of market support		

Current T	YNDP :	: TYNDP	2017 -	Annex A
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Romanian-Hungarian reverse flow Hungarian section 2nd stage TRA-N-377 Project Pipeline including CS Non-FID Update Date 08/05/2016 Non-Advanced A third unit (4.5 MW) at Csanádpalota to reach the increased 4.4 bcm/a capacity of the corridor at the RO/HU border. Description Regulatory Decisions and similar material conditions Capacity Increments Variant For Modelling Operator From Gas System To Gas System Point Year Capacity FGSZ Ltd. 2022 HU RO 76.5 GWh/d Csanadpalota FGSZ Ltd. 2022 RO HU 76.5 GWh/d Sponsors **General Information** FGSZ Ltd. FGSZ Ltd. 100% Promoter Barriers (Count) Operator Regulatory FGSZ Ltd. Host Country Hungary Market Status Planned Website **Publication Approval Status** Approved **Enabled Projects** Project Code **Project Name** Romanian-Hungarian reverse flow Hungarian section 1st stage **TRA-N-286 TRA-N-123** Városföld CS Városföld-Ercsi-Győr TRA-N-018

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NDP Number Currently PCI Yes CBCA Decision Yes (201 Market Survey Open Season(201 Pipelines and Compressor Stations Pipeline Section Csanádpalota PCI Benefits Project change prior to the co General Criteria Fulfilled Yes	Construction Commissioning	09/2016 11/2018 05/2017 03/2021 2022 Pipeline Comment Comressor unit 4.5MW	07/2017 04/2020 12/2016 09/2018 04/2017	Considered TPA Regime Considered Tariff Regime Applied for Exemption Exemption Granted Exemption in entry direction Exemption in exit direction Diameter (mm) Length (km) Comp	Regulated Regulated No 0.009 0.009
Currently PCI Yes CBCA Decision Yes (201 Market Survey Open Season(201 Pipelines and Compressor Stations Pipeline Section Csanádpalota PCI Benefits Project change prior to the co	FEED Ves (6.24.9.) Market Test Permitting 016-10-06) Supply Contracts 016-12-31) FID Construction Commissioning	11/2018 05/2017 03/2021 2022 Pipeline Comment	04/2020 12/2016 09/2018 04/2017 10/2018 12/2022	Applied for Exemption Exemption Granted Exemption in entry direction Exemption in exit direction	N N 0.009
CBCA Decision Yes (201 Market Survey Open Season(201 Pipelines and Compressor Stations Pipeline Section Csanádpalota PCI Benefits Project change prior to the co General Criteria Fulfilled Yes	Yes (6.24.9.) Market Test Permitting 016-10-06) Supply Contracts 016-12-31) FID Construction Commissioning	05/2017 03/2021 2022 Pipeline Comment	12/2016 09/2018 04/2017 10/2018 12/2022	Exemption Granted Exemption in entry direction Exemption in exit direction	N 0.009 0.009
CBCA Decision Yes (201 Market Survey Open Season(201 Pipelines and Compressor Stations Pipeline Section Csanádpalota PCI Benefits Project change prior to the co General Criteria Fulfilled Yes	Permitting 016-10-06) Supply Contracts 016-12-31) FID Construction Commissioning +1	03/2021 2022 Pipeline Comment	09/2018 04/2017 10/2018 12/2022	Exemption in entry direction Exemption in exit direction	0.009 0.009
Market Survey Open Season(20) Pipelines and Compressor Stations Pipeline Section Csanádpalota PCI Benefits Project change prior to the co General Criteria Fulfilled Yes	016-10-06) Supply Contracts 016-12-31) FID Construction Commissioning +1	03/2021 2022 Pipeline Comment	04/2017 10/2018 12/2022	Exemption in exit direction	0.009
Market Survey Open Season(20) Pipelines and Compressor Stations Pipeline Section Csanádpalota PCI Benefits Project change prior to the co General Criteria Fulfilled Yes	016-12-31) FID Construction Commissioning +1	2022 Pipeline Comment	10/2018 12/2022	Exemption in exit direction	0.009
Pipelines and Compressor Stations Pipeline Section Csanádpalota PCI Benefits PCI Benefits General Criteria Fulfilled Yes	Construction Commissioning +1	2022 Pipeline Comment	12/2022		
Csanádpalota Csanádpalota PCI Benefits General Criteria Fulfilled Yes	Commissioning +1	2022 Pipeline Comment		Diameter (mm) Length (km) Comp	ressor Power (MW)
Pipeline Section Csanádpalota PCI Benefits General Criteria Fulfilled Yes	+1	Pipeline Comment	2022	Diameter (mm) Length (km) Comp	ressor Power (MW)
Pipeline Section Csanádpalota PCI Benefits General Criteria Fulfilled Yes	+1	•		Diameter (mm) Length (km) Comp	ressor Power (MW)
Pipeline Section Csanádpalota PCI Benefits Project change prior to the co General Criteria Fulfilled Yes	+1	•		Diameter (mm) Length (km) Comp	ressor Power (MW)
Pipeline Section Csanádpalota PCI Benefits General Criteria Fulfilled Yes	+1	•		Diameter (mm) Length (km) Comp	ressor Power (MW)
Csanádpalota CSanádpalota PCI Benefits General Criteria Fulfilled Yes	+1	•		Diameter (min) Length (kin) Comp	
PCI Benefits General Criteria Fulfilled Project change prior to the co					4
General Criteria Fulfilled Yes	Total				4
PCI Benefits prior to the co General Criteria Fulfilled Yes					-
PCI Benefits prior to the co General Criteria Fulfilled Yes		PCI Details			
General Criteria Fulfilled Yes	ges the capability to transmit ga commissioning of the project, Pr			es concerned by at least 10%, compared v capacity	a to the situation
Specific Criteria Fulfilled Competition,		-j			
	, Market Integration, Security of	f Supply, Sustainability			
Specific Criteria Fulfilled Comments	,				
•		Time Schedule			
Grant Obtention Date 14/10/2015					
Delay Since Last TYNDP 3 year					
Delay Explanation Black Sea proj	oiect delav				
Black Sea	_	<pre>kpected Gas Sourcing</pre>			

	Benefits
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	
	Barriers
Barrier Type	Description
Market	Lack of market support
Regulatory	Low rate of return
- J. H. H.	
	Southern Corridor GRIP 2017–2026 Annex
	Southern Comdor GRIP 2017–2026 Annex

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		BG-RO-HU-AT transmissio	n corridor			
TRA-N-380		Project		Pipeline including	g CS 🛛 🔊	lon-FID
Update Date		25/05/2016			Non	-Advanced
Description	It is able to transport gas from	m Bulgaria (12 Bcm/a) to Austria (Baumg	arten) (10 Bcm/a) via Ro	mania and Hungary.		
Regulatory De similar materia						
Capacity Incre	ments Variant For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
Csanadpalota	2	FGSZ Ltd.	2024	HU	RO	145.5 GWh/d
sundaparota	-	FGSZ Ltd.	2024	RO	HU	145.5 GWh/d
Mosonmagya	rovar 2	FGSZ Ltd.	2024	AT	HU	145.5 GWh/c
nosonnagya		FGSZ Ltd.	2024	HU	AT	145.5 GWh/c
Sponsors		General Informatio	n			
FGSZ Ltd.	100%	Promoter	FGSZ Ltd.	_		Ba
		Operator	FGSZ Ltd.	Market		Barriers (Count) ∾
		Host Country	Hungary			2) s
		Status	Planned	Regulatory	1	oun
		Website				đ
		Publication Approval Status	Approved			
		Enabled Projects				
Project Code	Project Name					
RA-N-377	Romanian-Hungarian reverse flow Hungaria	n section 2nd stage				
RA-N-286	Romanian-Hungarian reverse flow Hungaria	n section 1st stage				
RA-N-123	Városföld CS					
RA-N-061	Ercsi-Szazhalombatta					

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ND	OP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regime	e
Part of NDP	Yes (Hungarian TYNDP 2015)	Pre-Feasibility		12/2015	Considered TPA Regime	Regulated
NDP Number	12.13.112.14.7	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction		12/2023		
		Commissioning	2024	2024		

Pipeline Comment	Diameter (mm)) Length (km)	Compressor Power (MV
	1,000	115	54
	1,000	71	0
Total			54
PCI Details			
		1,000 1,000	1,000 115 1,000 71 186

General Criteria FulfilledNoSpecific Criteria FulfilledCon

Competition, Market Integration, Security of Supply, Sustainability

Specific Criteria Fulfilled Comments

	Benefits	
Main Driver	Market Demand	
Main Driver Explanation	n	
Benefit Description		

	Barriers	Page 327 of 620
arrier Type	Description	
/larket	Lack of market support	
larket	Lack of market maturity	
egulatory	Low rate of return	

		Hajduszok	ooszlo CS		
TRA-N-065		Project		Pipeline including C	CS Non-FID
Update Date		08/0	05/2016		Non-Advanced
Description	An additional compressor uni compressor station.	t put into operation at Hajdús:	zoboszló. This is a new u	nit, for replacement an earlier unit	t, which was relocated an othe
Regulatory Decisions and similar material condition					
Sponsors		General Ir	nformation	No Barrie	ers Defined
FGSZ Ltd.	100%	Promoter	FGSZ Natura transmission Com limited by SI	pany	Barriers (Count)
		Operator	FGS	Z Ltd.	(C)
		Host Country	Hur	ngary	unt
		Status	Pla	inned	
		Website	Project'	<u>s URL</u>	
		Publication Approval Status	Арр	roved	
NDP and	PCI Information	Schedule	Start Date End	Date Third-Party	y Access Regime
Part of NDP	Yes (Hungarian TYNDP 2015)	Pre-Feasibility		Considered TPA Regime	Regulat
NDP Number	12-11	Feasibility		Considered Tariff Regime	Regulat
		FEED		Applied for Exemption	1
Currently PCI	No	Market Test		Exemption Granted	1
		Permitting			
CBCA Decision	No	Supply Contracts		Exemption in entry direction	on 0.00
Market Survey	Not Relevant (no CBCA decision)	FID		Exemption in exit direction	0.00
		Construction			
		Commissioning			

Others	Total ng transmission volu aken as a whole mair flow availability, and	Pipeline Comment ss-border (interconnection point) Time Schedule me the project was rescheduled. Benefits	relevance.		
úszoboszló CS szoboszlo node Yes, 1 year. Due to decreasir Others o The Hungarian projects ta systems, ensuring reserves f	Total ng transmission volu aken as a whole mair flow availability, and	ss-border (interconnection point) Time Schedule me the project was rescheduled. Benefits n aim, is to enhance the flexibility	relevance.		6 0 6
szoboszlo node Yes, 1 year. Due to decreasir Others o The Hungarian projects ta systems, ensuring reserves f	Total ng transmission volu aken as a whole mair flow availability, and	Time Schedule me the project was rescheduled. Benefits n aim, is to enhance the flexibility		ission system by conne	0 6 ecting to neighbouring
Yes, 1 year. Due to decreasin Others o The Hungarian projects ta systems, ensuring reserves f	Total ng transmission volu aken as a whole mair flow availability, and	Time Schedule me the project was rescheduled. Benefits n aim, is to enhance the flexibility		ission system by conne	6 ecting to neighbouring
Due to decreasin Others o The Hungarian projects ta systems, ensuring reserves f	ng transmission volu aken as a whole mair flow availability, and	me the project was rescheduled. Benefits n aim, is to enhance the flexibility	of the Hungarian transmis	ission system by conne	ecting to neighbouring
Due to decreasin Others o The Hungarian projects ta systems, ensuring reserves f	aken as a whole mair flow availability, and	me the project was rescheduled. Benefits n aim, is to enhance the flexibility	of the Hungarian transmis	ission system by conne	
Due to decreasin Others o The Hungarian projects ta systems, ensuring reserves f	aken as a whole mair flow availability, and	Benefits n aim, is to enhance the flexibility	of the Hungarian transmis	ission system by conne	
Due to decreasin Others o The Hungarian projects ta systems, ensuring reserves f	aken as a whole mair flow availability, and	Benefits n aim, is to enhance the flexibility	of the Hungarian transmis	ission system by conne	
Others o The Hungarian projects ta systems, ensuring reserves f	aken as a whole mair flow availability, and	Benefits n aim, is to enhance the flexibility	of the Hungarian transmis	ission system by conne	
o The Hungarian projects ta systems, ensuring reserves f	flow availability, and	n aim, is to enhance the flexibility	of the Hungarian transmis	ission system by conne	
o The Hungarian projects ta systems, ensuring reserves f	flow availability, and	n aim, is to enhance the flexibility	of the Hungarian transmis	ssion system by conne	
o The Hungarian projects ta systems, ensuring reserves f	flow availability, and		of the Hungarian transmis	ission system by conne	
o The Hungarian projects ta systems, ensuring reserves f	flow availability, and		of the Hungarian transmis	ission system by conne	
systems, ensuring reserves f	flow availability, and		<u> </u>		

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		Vecsés-Városföld ga	as transit pipeline		
TRA-N-831		Project		Pipeline including CS	Non-FID
Update Date		25/0	05/2016		Non-Advanced
Description	The aim of the project is to build a new bidirectional high pressure transit pipeline between Vecsés and Városföld to extend to Interconnecton into south direction. The project contributes to develop the North-South gas corridor and to increase the Europand to diversificate the gas supply sources and transmission routes.				
Regulatory Decision similar material cono					
Sponsors		General In	formation	No Barriers Define	d
		Promoter	Magyar Gáz Tranzit Zrt.		Ba
		Operator	ЧGT Hungarian Gas Transit Ltd.		riers (
		Host Country	Hungary		Coun
		Status	Planned		rt)
		Website	Project's URL		
		Publication Approval Status	Approved		
		Enabled	Projects		
Project Code Proje	ect Name				
TRA-F-148 Slova	ak-Hungarian interconnector (Vecsés-Sz	ada-Balassagyarmat)			
TRA-N-524 Enha	ncement of Transmission Capacity of Slo	ovak-Hungarian interconnecto	r		

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NDP and PCI Information		Schedule Start Date End Date		Third-Party Access Regime		
	No (This is a new project wich will be	Pre-Feasibility			Considered TPA Regime	Regulated
	submitted to Hungarian Enegy Office	Feasibility			Considered Tariff Regime	Regulated
	(MEKH) for approval by MGT via FGSZ. (FGSZ is responsible for setup the	FEED			Applied for Exemption	Yes
Part of NDP	Hungarian TYNDP) till end of 2016.	Market Test			Exemption Granted	Yes
	MEKH's decision on National Development	Permitting				
	Plan 2016 will take effect in 2017 Q1 expectedly.)	Supply Contracts			Exemption in entry direction	0.00%
NDP Number		FID			Exemption in exit direction	0.00%
		Construction				
Currently PCI	No	Commissioning	2021	2021		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

Pipeli	ne Section	Pipeline Comment	Diameter (mm)	Length (km) 80	Compressor Power (MW)	
Vecsés	-Városföld	Pressure regulator at Vecsés node, hub and metering station at Városföld.,	800			
		Total	80			
		PCI Details				
PCI Benefits	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, Project concerns investment in reverse flow capacity				mpared to the situation	
General Criteria Fulfilled	No	No				
Specific Criteria Fulfilled	Competition	Competition, Market Integration, Security of Supply, Sustainability				
Specific Criteria Fulfilled Co	mments					

Expected Gas Sourcing

Norway, Russia, LNG ()

	DP 2017 - Annex A	Benefits	Page 344 o			
Main Driver	Market Demand	Denents				
	on Security of Gas Supply New gas transit routes New gas sources Diversification of gas sources and routes					
Benefit Description	<u></u>					
		Southern	n Corridor GRIP 2017–2026			

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Enhancement of Transmission Capacity of Slovak-Hungarian interconnector TRA-N-524 Pipeline including CS Project Non-FID Non-Advanced 25/05/2016 Update Date Enhancement of Exit transmission capacity with 102 GWh/day in HU>SK direction and enhancement of Entry transmission capacity with 26 GWh/day Description 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. **Regulatory Decisions and** similar material conditions Capacity Increments Variant For Modelling Point Operator Year From Gas System To Gas System Capacity MGT Hungarian Gas Transit Ltd. 2017 HUi SK 102.0 GWh/d Balassagyarmat (HU) / Velké Zlievce (SK) MGT Hungarian Gas Transit Ltd. 2017 SK HUi 26.0 GWh/d HU HUi 102.0 GWh/d MGT Hungarian Gas Transit Ltd. 2017 Vecsés MGT / FGSZ Comment: . MGT Hungarian Gas Transit Ltd. 2017 HUi HU 26.0 GWh/d **General Information** Sponsors No Barriers Defined Magyar Gáz Tranzit Zrt. Promoter Barriers (Count) MGT Hungarian Gas Transit Operator Ltd. Host Country Hungary Status Planned Website **Publication Approval Status** Approved **Enabled Projects Project Name** Project Code Slovak-Hungarian interconnector (Vecsés-Szada-Balassagyarmat) **TRA-F-148**

TRA-N-636 Development of Transmission Capacity at Slovak-Hungarian interconnector

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regi	me
	No (MGT submitted this project to FGSZ	Pre-Feasibility			Considered TPA Regime	Regulated
	and proposed to forward for approval to	Feasibility			Considered Tariff Regime	Regulated
	Hungarian Energy Office (MEKH). FGSZ is responsible for setup the Hungarian	FEED			Applied for Exemption	Yes
Part of NDP	TYNDP and for submit it to MEKH. FGSZ	Market Test			Exemption Granted	No
	put this project to the documentation of	Permitting				
	Development Plan 2015 but dosn't propose it for approval.)	Supply Contracts			Exemption in entry direction	0.00%
NDP Number		FID			Exemption in exit direction	0.00%
		Construction				
Currently PCI	Yes (TRN-A-524)	Commissioning	2017	2017		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

Pipeline S	ection Pipeline Comment	Diameter (mm) Length (km) Compressor Power (M
Hungarian	section	800 92
Slova	k	800 18
	Total	110
	PCI Details	
PCI Benefits	Project concerns investment in reverse flow capacity	
General Criteria Fulfilled	No	
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability	
Specific Criteria Fulfilled Comm	lents	

Expected Gas Sourcing

Norway, Russia, LNG (HR,PL)

urrent TYNDP : TYNDP 2		Page 330 of 62
	Benefits	
	1arket Demand	
Main Driver Explanation		
Benefit Description		
		Southern Corridor GRIP 2017–2026 An

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Development of Transmission Capacity at Slovak-Hungarian interconnector TRA-N-636 Project Pipeline including CS Non-FID Non-Advanced 25/05/2016 Update Date Reducing the flow direction switch operation time. Developing the transmission capacity in HU>SK and SK>HU direction from interruptible capacity Description to non-interruptible (firm) capacity. **Regulatory Decisions and** similar material conditions **General Information** Sponsors No Barriers Defined Magyar Gáz Tranzit Zrt. Promoter Barriers (Count) MGT Hungarian Gas Transit Operator Ltd.

 Operator
 Ltd.

 Host Country
 Hungary

 Status
 Planned

 Website
 Publication Approval Status

 Publication Approval Status
 Approved

Project Code Project Name

- TRA-F-148 Slovak-Hungarian interconnector (Vecsés-Szada-Balassagyarmat)
- TRA-N-524 Enhancement of Transmission Capacity of Slovak-Hungarian interconnector

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regim	e
	No (MGT submitted this project to FGSZ	Pre-Feasibility			Considered TPA Regime	Regulated
	and proposed to forward for approval to	Feasibility			Considered Tariff Regime	Regulated
	Hungarian Energy Office (MEKH). FGSZ is responsible for setup the Hungarian	FEED			Applied for Exemption	Yes
Part of NDP	TYNDP and for submit it to MEKH. FGSZ	Market Test			Exemption Granted	Yes
	put this project to the documentation of	Permitting				
	Development Plan 2015 but dosn't propose it for approval.)	Supply Contracts			Exemption in entry direction	0.00%
NDP Number		FID			Exemption in exit direction	0.00%
		Construction				
Currently PCI	Yes (TRA-N-636)	Commissioning	2017	2017		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

Pipeline	Section	Pipeline Comment		Diameter (mm) Length (km) Compressor Pow			
Hungariar	section		800	92			
Slovak s	ection		800	18			
	Total			110			
		PCI Details					
PCI Benefits	Project concerns investment in reve	erse flow capacity					
General Criteria Fulfilled	Yes						
Specific Criteria Fulfilled	Competition, Market Integration, S	ecurity of Supply, Sustainability					
Specific Criteria Fulfilled Comr	nents						

Expected Gas Sourcing

Norway, Russia, LNG ()

urrent TYNDP : TYNDP		Page 338 of 6
	Benefits	
	Market Demand	
	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.	
		Southern Corridor GRIP 2017–2026 Ar

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TRA-F-214		Projec	t		Pipeline including	g CS	FID	
Update Date			13/06/2016			Ac	dvanced	
Description t					the north of Italy and it permits to increase the flexib kes available additional export capacity over the proj			
Regulatory Decisions and similar material conditions								
Capacity Increments Variant Fo	or Modelling	Operator		Year	From Gas System	To Gas System	Capacity	
		•	e Gas S.p.A.	2018	IB-ITe	СН	368.0 GWh/o	
Griespass (CH) / Passo Gries (l'	T)	232 0	Comment: Total capac GWh/d can be booked only at th	he point of Grie		n be booked at the		
		Snam Ret	e Gas S.p.A.	2018	IT	IB-ITe	421.0 GWh/	
taly Northern Export Fork		232 0	Comment: Total capac GWh/d can be booked only at th	he point of Grie		n be booked at the		
		Snam Ret	e Gas S.p.A.	2018	IB-ITe	AT	189.0 GWh/c	
Tarvisio (IT) / Arnoldstein (AT)		232 0	Comment: Total capac GWh/d can be booked only at th	he point of Grie		n be booked at the		
Sponsors			General Information		No Ba	arriers Defined		
Snam Rete Gas S.p.A.	100%	Promoter	Snam Rete	e Gas S.p.A.			Ba	
		Operator	Snam Rete	e Gas S.p.A.			Barriers (Count	
		Host Country		Italy			s (Co	
		Status		Planned			oun	

Sponsors		General Infor	mation	No Barriers Defined
Snam Rete Gas S.p.A.	100%	Promoter	Snam Rete Gas S.p.A.	
		Operator	Snam Rete Gas S.p.A.	
		Host Country	Italy	
		Status	Planned	
		Website	Project's URL	
		Publication Approval Status	Approved	

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NDP and PCI Information		Schedule	Start Date	End Date	Third-Party Access Regim	ie
Part of NDP	Yes (Snam Rete Gas TYNDP 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	TRA-F-214(into text)	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	Yes (5.11)	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2018	2018		

Pipelines and Compressor Stat	ions				
Pipeline Se	Pipeline Section		Diameter (mm)	Length (km)	Compressor Power (MW)
Section	1		1,400	62	0
Section	2		1,200	19	0
Section	3		0	0	85
	Total			81	85
		PCI Details			
PCI Benefits	, , , , , , , , , , , , , , , , , , ,	transmit gas across the borders of the mer project, Project concerns investment in re		t least 10%, co	mpared to the situation
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Competition, Market Integration,	Security of Supply			
Specific Criteria Fulfilled Comm	The project fulfills also the criteria of reverse flows, diversification of routes, N-1 regional, back-up for renewables, power-to-gas, market				

Specific Criteria Fulfilled Comments integration (increase of competition), flexibility of the system and reduction of GHG emissions.

		Benefits	
Main Driver	Market Demand		
Main Driver Explanatio	n		

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.

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RA-N-007		Project		Pipeline including	g CS 🛛 🔊	Non-FID	
odate Date		13/06/2	016		Non	-Advanced	
	ect consists in new o r existing Entry Point	n-shore pipeline and compressor s	tation along the center-south	of Italy that will allow	the increase of tra	insport capaci	
gulatory Decisions and nilar material conditions							
pacity Increments Variant For Mode	lling						
pint		Operator	Year	From Gas System	To Gas System	Capacity	
Ily Mezzogiorno Import Fork		Snam Rete Gas S.p.A.	2023	IB-ITs	IT	264.0 GWh	
onsors		General Infor	mation	No Ba	rriers Defined		
am Rete Gas s.p.a.	100%	Promoter	Snam Rete Gas S.p.A.			5	
		Operator	Snam Rete Gas S.p.A.				
		Host Country	Italy				
		Status	Planned				
		Website	Project's URL			2	
		Publication Approval Status	Approved				

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Reg	ime
Part of NDP	Yes (Snam Rete Gas TYNDP 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	TRA-N-007(into text)	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	Yes (6.18)	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2023	2023		

Pipeline	Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
All the pipe			1,200	430	33
Total					33
		PCI Details			
PCI Benefits					
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Competition, Market Integra	tion, Security of Supply			
	The project fulfills also the cr	iteria of diversification of sources diversificatio	on of routes NL 1 National (It	alu) back up	

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-togas, market Integration (Increase of competition) and flexibility of the system.

Benefits						
Main Driver	Market Demand					
Main Driver Explanatio	on					
Benefit Description	Security of supply, diversification of sources, diversification of routes, N-1 National (Ita (Increase of competition) and flexibility of the system.	y), back-up for renewables, power-to-gas, market Integration				

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TRA-N-354		Project			Pipeline including	CS N	Non-FID	
Update Date		24/05/	/2016			Non-	Advanced	
Description	In line with the expected incre national network of San Dorli	ease in gas consumption in the a go della Valle.	rea of Koper (SLO), the p	roject	foresees new capacity	at the new exit poi	nt of the	
Regulatory Decision imilar material cond								
Capacity Increments	Variant For Modelling							
Point		Operator		Year	From Gas System	To Gas System	Capacity	
San Dorligo della Va	alle (IT) /Osp (SI)	Snam Rete Gas S.p.A.		2023	IT	SI	3.6 GWh/d	
Sponsors		General Info	rmation		No Ba	rriers Defined		
Snam Rete Gas s.p.a.	100%	Promoter	Snam Rete Gas S.p	o.A.			Ba	
	19 C	Operator	Snam Rete Gas S.p	o.A.			rrier	
		Host Country	lt	aly			(C	
		Status	Planr	ned			Barriers (Count	
		Website	Project's L	IRL			đ	
		Publication Approval Status	Approv	ved				
NDI	P and PCI Information	Schedule	Start Date End D	ate	Third-Pa	rty Access Regime		
Part of NDP	Yes (Snam Rete Gas TYNDP 2016-2025)	Pre-Feasibility		С	onsidered TPA Regime		Regulat	
NDP Number	TRA-N-354	Feasibility		С	onsidered Tariff Regim	е	Regulat	
		FEED		A	pplied for Exemption		1	
Currently PCI	No	Market Test		E:	xemption Granted		1	
		Permitting						
CBCA Decision	No	Supply Contracts		E	xemption in entry direc	tion	0.00	
Market Survey	Not Relevant (no CBCA decision)	FID		E	xemption in exit directi	on	0.00	
		Construction						
		Commissioning	2023 20)23				

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Pipeline Section	Pipeline Comment	Diameter (mm)	Lenath (km)	Compressor Power (MV
All the pipe	pointe continue	250	6	0
Total		250	6	0
. otai			•	C C
	Benefits			
ain Driver Market Demand				
ain Driver Explanation				
enefit Description				

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		Import developments f				
TRA-N-008		Project		Pipeline including	J CS N	lon-FID
Update Date		24/05/2	016		Non	-Advanced
	ct consists in new o existing Entry Point	n-shore pipeline and in a new com	pressor station in the north ea	ast of Italy to permit th	ne increase of trans	sport capacity
Regulatory Decisions and similar material conditions	chisting Entry Form					
Capacity Increments Variant For Model	ling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
		Snam Rete Gas S.p.A.	2034	IB-ITn	IT	340.0 GWh/d
New IP North-East Italy		to its national devel			ent as relevant for	
Sponsors		General Infor		No Ba	rriers Defined	
Snam Rete Gas s.p.a.	100%	Promoter	Snam Rete Gas S.p.A.			Ban
		Operator	Snam Rete Gas S.p.A.			riers
		Host Country	Italy			(0
		Status	Planned			Barriers (Count)
		Website	<u>Project's URL</u>			0
		Publication Approval Status	Approved			
						_

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regi	me
Part of NDP	Yes (Snam Rete Gas TYNDP 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	TRA-N-008(into text)	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2034	2034		

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Section 1		1,050	15	0
Section 2		1,400	119	0
Section 3		0	0	75
Tot	al		134	75

	Benefits
Main Driver	Market Demand
Main Driver Explanatio	n
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.

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		Additional Southern	developments				
TRA-N-009		Project		Pipeline including	g CS 🛛 N	lon-FID	
Update Date	24/05/2016				Non	-Advanced	
		n-shore and off-shore pipelines a acity at new or existing Entry Poir		sor stations along the	center-south of It	aly to permit	
Regulatory Decisions and similar material conditions							
Capacity Increments Variant For Modelling							
Point		Operator	Year	From Gas System	To Gas System	Capacity	
		Snam Rete Gas S.p.A.	2034	IB-ITs	IT	264.0 GWh/o	
Italy Mezzogiorno Import Fork		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).					
		Snam Rete Gas S.p.A.	2034	IB-ITi	IB-ITs	264.0 GWh/	
Italy Southern Import Fork			hat the promoter submitted the elopment plan, ENTSOG conside modelling purposes i		ent as relevant for		
Sponsors		General Info	rmation	No Ba	rriers Defined		
Snam Rete Gas s.p.a.	100%	Promoter	Snam Rete Gas S.p.A.			Ba	
		Operator	Snam Rete Gas S.p.A.			rrie	
		Host Country	Italy			Barriers (Count	
		Status	Planned			e e	
		Website	Project's URL			Ð	
		Publication Approval Status	Approved				

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Reg	ime
Part of NDP	Yes (Snam Rete Gas TYNDP 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	TRA-N-009(into text)	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2034	2034		

Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Section 1			800	255	0
Section 2			1,050	115	0
Section 3			1,200	590	0
Section 4			0	0	60
	Total			960	60

	Benefits
Main Driver	Market Demand
Main Driver Explanatio	n
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.

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	Bordolano Second	phase				
JGS-F-1045	Project		Storage Facilit	У	FID	
Jpdate Date	13/06/2016	5		Ad	dvanced	
Description The project is related to	the conversion of the depleted reservoir of	Bordolano, into a reservoi	r for the storage of m	ethane gas		
Regulatory Decisions and similar material conditions						
Capacity Increments Variant For Modelling						
Point	Operator	Year	From Gas System	To Gas System	Capacity	
	STOGIT	2019	STcIT	IT	185.0 GWh/	
JGS - IT - Snam Rete Gas/STOGIT	STOGIT	equal to the capacity offered	IT	companies.	109.0 GWh/	
	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					
Sponsors	General Informat	ion	No Ba	companies.		
	Promoter	STOGIT S.p.A.			8	
	Operator	STOGIT			Barriers (Count)	
	Host Country	Italy			is (C	
	Status	Planned			our	
	Website	Project's URL			đ	
	Publication Approval Status	Approved				

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ND	P and PCI Information	Schedule	Start Date	End Date	Third-Party Access Reg	gime
Part of NDP	Yes (Snam Rete Gas TYNDP 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	NA	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	Not Relevant
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2019	2019		
		Technical	Information (UGS)			
Storage Facility	Bordolano					
Storage Facility Type	e Depleted Field					
Multiple-Cycle	No					
Working Volume (m	icm) 757.00	the entire w.g. volume of	Bordolano (first + seco	nd phases) is 3	1.136 M Nmc	

	Benefits
Main Driver	Market Demand
Main Driver Explanation	
Benefit Description	Increased flexibility of the system; Market integration (increase of competition and market liquidity).

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Update Date Description Regulatory Decisions and similar material conditions Capacity Increments Variant For Modelling Point	isages the de	13/06/2016 velopment of the following depleted or	n-shore gas fields: Fiume	Freste - Minerbio - Rip		dvanced o - Sergnano -
Alfonsine Regulatory Decisions and similar material conditions Capacity Increments Variant For Modelling	isages the de	velopment of the following depleted or	1-shore gas fields: Fiume ⁻	Treste - Minerbio - Rip	alta - Sabbioncello	o - Sergnano -
Regulatory Decisions and similar material conditions Capacity Increments Variant For Modelling						0
Point						
		Operator	Year	From Gas System	To Gas System	Capacity
		STOGIT	2026	STcIT	IT	207.0 GWh/
		Comment: Interconnection capacity available is eq	n point Storage hub/Transp qual to the capacity offered			
JGS - IT - Snam Rete Gas/STOGIT		STOGIT	2026	IT	STcIT	147.0 GWh/
		Comment: Interconnection capacity available is eq	n point Storage hub/Transp qual to the capacity offered			
Sponsors		General Informati	on	No Ba	rriers Defined	
Stogit	100%	Promoter	STOGIT			8
		Operator	STOGIT			rrie
		Host Country	Italy) si
		Status	Planned			arriers (Count
		Website				Ŧ
		Publication Approval Status	Approved			

Current	TYNDP	: TYNDP	2017 -	Annex A
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ND	DP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Reg	gime
Part of NDP	Yes (Snam Rete Gas TYNDP 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	NA	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	Not Relevant
		Permitting		01/2025		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2026	2026		
		Technica	l Information (UGS)			
Storage Facility	Stogit Enhancements and New Developments					
Storage Facility Typ	Depleted Field					
Multiple-Cycle	No					
Working Volume (m	ncm) <i>2,120.00</i>					

	Benefits							
Main Driver	Regulation SoS							
Main Driver Explanatio	Main Driver Explanation							
Benefit Description	Increased flexibility of the system; Market integration (increase of competition and market liquidity).							

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	Bordo	olano first phase					
UGS-F-259	Project		Storage Facility		FID		
Update Date		13/06/2016		A	dvanced		
Description The project is to convert the	he depleted reservoir of Bo	ordolano, into a reservoir for the storage	of methane gas.				
Regulatory Decisions and similar material conditions							
Capacity Increments Variant For Modelling							
Point	Operator	Year	From Gas System	To Gas System	Capacity		
	STOGIT	2016	STclT	IT	32.0 GWh/d		
	Comment: Interconnection point Storage hub/Transportation grid is a commercial point. The capacity available is equal to the capacity offered or planned to be offered by the storage companies.						
UGS - IT - Snam Rete Gas/STOGIT	STOGIT	2016	IT	STcIT	109.0 GWh/o		
		: Interconnection point Storage hub/Trans _i ty available is equal to the capacity offered					
Sponsors	Ge	neral Information	No Bi	arriers Defined			
Stogit 1009	% Promoter	STOGIT			Ba		
	Operator	STOGIT			rrier		
	Host Country	Italy			5 (C		
	Status	Planned			Barriers (Count)		
	Website	<u>Project's URL</u>			Đ		
	Publication Approval	Status Approved			1		

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Part of NDP Yes	es (Snam Rete Gas TYNDP 2016-2025)				Third-Party Access Re	9
NDP Number	. (Pre-Feasibility			Considered TPA Regime	Regulated
	NA	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	Not Relevant
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2016	2016		
		Technical I	nformation (UGS)			
Storage Facility	Bordolano					
Storage Facility Type	Depleted Field					
Multiple-Cycle	No					
Working Volume (mcm	a) <i>379.00</i>	Total w.g. of Bordolano (fir	st + second phases) is	1136 M Nmc		

	Benefits
Main Driver	Regulation SoS
Main Driver Explanatio	n
Benefit Description	Increased flexibility of the system; Market integration (increase of competition and market liquidity).

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JGS-N-235		Project		Storage Facilit	vN	on-FID
Jpdate Date		13/05	/2016			lvanced
		chnical interventions on existing and injection capacity.	wells of the operating gas stora	age field of Collalto to	increase performa	nces of the
egulatory Decisions and imilar material conditions						
Capacity Increments Variant For Modelling						
Point		Operator	Year	From Gas System	To Gas System	Capacity
		Edison Stoccagio S.p.A	. 2017	STcIT	IT	16.0 GWh/0
JGS - IT - Snam Rete Gas/Edison		Comment:	The commissioning year is the y	rear of start up of com	mercial operations.	
		Edison Stoccagio S.p.A	. 2017	IT	STcIT	11.0 GWh/o
		Comment:	The commissioning year is the y	rear of start up of com	mercial operations.	
ponsors		General Info	ormation			
dison Stoccaggio	100%	Promoter	Edison Stoccaggio S.p.A			Bar
		Operator	Edison Stoccagio S.p.A.	Regulatory		1 Count
		Host Country	Italy			
		Status	Planned	Permit Granting		
		Website				-
		Publication Approval Status	Approved			

NDP and PCI InformationSclPart of NDPYes (National Energy Strategy)Pre-FeasibilityNDP NumberNo NumberFeasibilityCurrently PCINoMarket TesCBCA DecisionNoSupply CorMarket SurveyNot Relevant (no CBCA decision)FIDConstructionConstructionCommissionStoccaggioStorage FacilityTypeDepleted FieldNoMultiple-CycleNoWorking Volume (mcm)0.00Grant Obtention DateDelay Since Last TYNDPDelay ExplanationDelays due to authorization process	01/2016 01/2016 t on 01/2016	16 01/2017 16 01/2017 16 01/2017 16 12/2016	Third-Party Access Regime Considered TPA Regime Considered Tariff Regime Applied for Exemption Exemption Granted Exemption in entry direction	Regulate Regulate N N
NDP Number No Number Feasibility FEED Currently PCI No Market Tes Permitting CBCA Decision No Supply Cor Market Survey Not Relevant (no CBCA decision) FID Construction Commission Storage Facility Type Depleted Field Multiple-Cycle No Working Volume (mcm) 0.00 in 10^6 Sm Grant Obtention Date Delay Since Last TYNDP 1 year delay	01/2016 01/2016 t on 01/2016	16 01/2017 16 01/2017 12/2016	Considered Tariff Regime Applied for Exemption Exemption Granted	Regulate N
Currently PCI No Market Tes Permitting CBCA Decision Not Relevant (no CBCA decision) FID Market Survey Not Relevant (no CBCA decision) FID Construction Commission Storage Facility Type Depleted Field Multiple-Cycle No Working Volume (mcm) 0.00 in 10^6 Sm Grant Obtention Date Delay Since Last TYNDP 1 year delay	01/2016 t 01/2016 htracts 01/2016	16 01/2017 16 01/2017 12/2016	Applied for Exemption Exemption Granted	٨
Currently PCI No Market Tes Permitting CBCA Decision No Supply Cor Market Survey Not Relevant (no CBCA decision) FID Construction Commission Storage Facility Type Depleted Field Multiple-Cycle No Working Volume (mcm) 0.00 in 10^6 Sme	t 01/2016 htracts 01/2016	16 01/2017 12/2016	Exemption Granted	
CBCA Decision Market Survey Not Relevant (no CBCA decision) Market Survey Not Relevant (no CBCA decision) FID Construction Commission Storage Facility Storage Facility Type Multiple-Cycle Multiple-Cycle Morking Volume (mcm) Depleted Field No in 10^6 Sme Grant Obtention Date Delay Since Last TYNDP 1 year delay	01/2016 htracts on 01/2016	12/2016		٨
CBCA Decision No Supply Cor Market Survey Not Relevant (no CBCA decision) FID Construction Commission Storage Facility Type Depleted Field Multiple-Cycle No Norking Volume (mcm) 0.00 in 10^6 Sme Grant Obtention Date Delay Since Last TYNDP 1 year delay	ntracts on <i>01/2016</i>	12/2016	Exemption in entry direction	
Market Survey Not Relevant (no CBCA decision) FID Construction Commission Storage Facility Type Depleted Field Multiple-Cycle No Norking Volume (mcm) 0.00 in 10^6 Sme Grant Obtention Date Delay Since Last TYNDP 1 year delay	on 01/2016		Exemption in entry direction	
Storage Facility Nuovi Sviluppi Edison Storage Facility Stoccaggio Storage Facility Type Depleted Field Multiple-Cycle No Working Volume (mcm) 0.00 Grant Obtention Date Delay Since Last TYNDP 1 year delay				0.00
Storage Facility Nuovi Sviluppi Edison Stoccaggio Storage Facility Type Depleted Field Multiple-Cycle No Working Volume (mcm) 0.00 in 10^6 Smoother Grant Obtention Date Deplay Since Last TYNDP 1 year delay			Exemption in exit direction	0.00
Storage Facility Nuovi Sviluppi Edison Stoccaggio Storage Facility Type Depleted Field Multiple-Cycle No Morking Volume (mcm) 0.00 in 10^6 Sm ² Grant Obtention Date 1 year delay		16 01/2017		
Storage Facility Stoccaggio Storage Facility Type Depleted Field Multiple-Cycle No Working Volume (mcm) 0.00 in 10^6 Sm Grant Obtention Date Delay Since Last TYNDP 1 year delay	ning 2017	17 2017		
Storage Facility Stoccaggio Storage Facility Type Depleted Field Multiple-Cycle No Norking Volume (mcm) 0.00 in 10^6 Sm Grant Obtention Date Delay Since Last TYNDP 1 year delay	Technical Information (UG	GS)		
Multiple-Cycle No Norking Volume (mcm) 0.00 in 10^6 Sm Grant Obtention Date Delay Since Last TYNDP 1 year delay				
Working Volume (mcm) 0.00 in 10^6 Sm Grant Obtention Date Delay Since Last TYNDP 1 year delay				
Grant Obtention Date Delay Since Last TYNDP 1 year delay				
Delay Since Last TYNDP 1 year delay	\3			
Delay Since Last TYNDP 1 year delay	Time Schedule			
Delay Since Last TYNDP 1 year delay				
	Benefits			
Main Driver Regulation SoS				
Main Driver Explanation				
Market Integration (Increase of competition) and				
and Edison Stoccaggio Spa 3% of the market sh Benefit Description that only storage jointly with production are pro-		the second second second second		

and more broadly Europe The project is also synergic to develop Italian system as a gas hub and to improve Europe security of supply.

	NDP 2017 - Annex A Barriers	Page 371 of 6
arrier Type	Description	
egulatory	Authority has set a new regulation to boost the increase of withdrawal capacity.	
ermit Granting	Local permitting	
errer eranning		

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		Palazzo Mo	proni			
JGS-N-237		Project		Storage Facilit	y N	lon-FID
Jpdate Date		06/05/2	2016		А	dvanced
Description Regulatory Decisions and imilar material conditions	The project foresees the conv	version to storage of a depleting fi	eld owned by Edison Stoccagg	io S.p.A. in Italy (Marc	he Region).	
Capacity Increments Variant F	or Modelling	_				
Point		Operator	Year	From Gas System	-	Capacit
		Edison Stoccagio S.p.A.	2019	STcIT	IT	11.0 GWh
IGS - IT - Snam Rete Gas/Edis	son		The commissioning year is the y			
		Edison Stoccagio S.p.A.	2019	IT	STcIT	11.0 GWh
		Comment. 1	The commissioning year is the y	ear of start up of corni	nercial operations	
ponsors		General Infor				
dison Stoccaggio	100%	Promoter	Edison Stoccaggio S.p.A			
		Operator	Edison Stoccagio S.p.A.	Regulatory		1
		Host Country	Italy	Permit Granting		1
		Status	Planned	Fernit Granting		· _]
		Website	Project's URL			
		Publication Approval Status	Approved			

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	nd PCI Information	Schedule	Start Date	End Date	Third-Party Access Reg	jime
Part of NDP	Yes (National Energy Strategy)	Pre-Feasibility			Considered TPA Regime	Regulate
NDP Number	No Number	Feasibility	01/2009	01/2013	Considered Tariff Regime	Regulate
		FEED	01/2013	01/2017	Applied for Exemption	N
Currently PCI	No	Market Test		01/2019	Exemption Granted	N
		Permitting	01/2009	01/2017		
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.009
Market Survey	Not Relevant (no CBCA decision)	FID		01/2017	Exemption in exit direction	0.00%
		Construction	01/2017	01/2019		
		Commissioning	2019	2019		
	1. V.					
		Technical	I Information (UGS)			
Storage Facility	Palazzo Moroni					
Storage Facility Type	Depleted Field					
Multiple-Cycle	No					
Working Volume (mcm)	50.00	in 10^6 Sm^3				
			PCI Details			
	Project aims at fulfilling	the infrastructure stands	rd (NI 1) mula at reasion	The second se		
PCI Benefits		directly at least two Mem		al level in acco	ordance with Article 6(3) of Regulation E	U, Project aims at
	supplying directly or ind			al level in acco	ordance with Article 6(3) of Regulation E	U, Project aims at
PCI Benefits General Criteria Fulfilled Specific Criteria Fulfilled	supplying directly or ind Yes		ber States	al level in acco	ordance with Article 6(3) of Regulation E	U, Project aims at

	Benefits
Main Driver	Regulation SoS
Main Driver Explanatio	on
Benefit Description	Security of Supply and Market Integration (Increase of competition); The Italian Storage system is a market characterized by two operators (Stogit Spa 97% and Edison Stoccaggio Spa 3% of the market share). The project will enhance the level of competition and security of supply at national level. It's synergic to develop Italian system as a gas hub and to improve Europe security of supply. Palazzo Moroni has an optimal working gas/withdrawal capacity ratio which is in line with the Italian energy strategy.
	Barriers
Barrier Type	Description
Regulatory	Authority has set a new regulatory framework for 2015-2018, which was really different from the previous. In 2018 the Authority will set the new framework for 2019-2022.
Permit Granting	Delays with local permitting. The project has already achieved important autorization such as EIA and Seveso.

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		GALSI Pipeline	Project			
FRA-N-012		Project		Pipeline including	J CS N	lon-FID
Jpdate Date		09/05/2	.016		A	dvanced
Description	Gas pipeline project aiming to creat transporting 8 billions mc of gas. F 2.800 m of depth getting to Porto Network). From Porto Botte an ons finally bring the long awaited gas t of the pipeline will cross the Tyrrhe existing Rete Nazionale Gasdotti of	rom El Kala (Koudiet Draouch Botte in Sardinia (which will b hore section will cross Sardir o Sardinian users and thus re mian Sea at around 800 m of	he) in Algeria an offshore section be the entry point in the Italian hia towards Olbia in the north of the move the isolation of Sardinia	on will cross the Medi RNG - Rete Nazional of the island (with 39 o from RNG). From Olb	terranean Sea goir e Gasdotti or Gas offtake point along via then another of	ng down to National 9 the route to fshore section
Regulatory Decisions and imilar material conditions	The Project has already received fro Prioritaria) for 100% of its capacity		iistry (Ministero dello Sviluppo	o Economico) a Priorit <u>i</u>	y Allocation (Alloca	azione
Capacity Increments Variant Point	For Modelling	Operator	Year	From Gas System	To Gas System	Capacity
		Galsi S.p.A.	2019	DZ	DZi/GAL	258.0 GWh/
Coudiet Eddraouch (Galsi) (I	DZ)		Comn	nent: Entry of GALSI In Increment is equ	ternational Section ivalent to 8 bcm/y	
		Galsi S.p.A.	2019	ITs	ITn/GAL	258.0 GWh/
Nhia (Calci)			Comi	ment: Increment is equ	ivalent to 8 bcm/y	
Olbia (Galsi)		Galsi S.p.A.	2019	ITn/GAL	ITs	32.0 GWh/c
				Comment: Equ	ivalent to 1 bcm/y	
		Galsi S.p.A.	2019	ITn/GAL	IB-ITs	226.0 GWh/
iombino (Galsi)						
Piombino (Galsi)				Comment: Equ	ivalent to 7 bcm/y	
Piombino (Galsi) Porto Botte (Galsi)		Galsi S.p.A.	2019	Comment: Equ DZi/GAL	iivalent to 7 bcm/y ITs	258.0 GWh/6

Sponso

Sponsors		General In	itormation			
Sonatrach	47%	Promoter		Galsi S.p.A.	Regulatory	1 🗳
Edison SpA	23%	Operator		Galsi S.p.A.	Permit Granting	1
	170/	Host Country		Italy	Market	1 0
Enel Produzione SpA	17%	Status		Planned		- O I
Hera SpA	11%	Website		<u>Project's URL</u>	Financing	° ē
		Publication Approval Status		Approved		
NDP and	d PCI Information	Schedule	Start Date	End Date	Third-Party A	ccess Regime
Part of NDP	Yes (SNAM NDP 2015 (page 61))	Pre-Feasibility		12/2006	Considered TPA Regime	Not Applicable
NDP Number	n.a.	Feasibility	01/2006	12/2006	Considered Tariff Regime	Not Applicable
		FEED	01/2007	12/2010	Applied for Exemption	Not Relevant
Currently PCI	Yes (5.20)	Market Test		10/2010	Exemption Granted	Not Relevant
		Permitting	07/2008	05/2016		
CBCA Decision	No	Supply Contracts		05/2016	Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID		05/2016	Exemption in exit direction	0.00%
		Construction	06/2016	06/2019		
		Commissioning	2019	2019		

General Information

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
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
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	

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rent TYNDP : TYNDP 2017		This section includes a 28	5 km sealine from Olbia (Sard	dinia) -			Page 358 of 62
GALSI Italian Section 2 sea	aline Sardinia - Tuscany	Piombino (Tuscany) and 3	2x26 MW compression statio 8 km onshore pipeline in Tusca with existing Snam gas newtw	any up	812	288	52
		Total				861	151
		F	PCI Details				
CI Benefits		ssioning of the project, Project	ross the borders of the member t concerns investment in rever				
eneral Criteria Fulfilled	Yes						
pecific Criteria Fulfilled	Competition, Marke	et Integration, Security of Sup	ply, Sustainability				
	The project will con	tribute to the creation of an li	talian Gas Hub, by opening a i	more effic	ient route to r	each the barycent	5
oecific Criteria Fulfilled Comn	nents demand and furthe		will give a significant contribution of the second		curity of supp		n for Italy and Europe
pecific Criteria Fulfilled Comn	nents demand and furthe	ue opportunity of a clean and	will give a significant contribu		curity of supp		n for Italy and Europe
pecific Criteria Fulfilled Comn Grant Obtention Date	nents demand and furthe	ue opportunity of a clean and	will give a significant contribut I sustainable energy source for		curity of supp		n for Italy and Europe
Grant Obtention Date Delay Since Last TYNDP	nents demand and furthe It represents a uniq 13/08/2010 12 months	ue opportunity of a clean and Tir	will give a significant contribu I sustainable energy source for me Schedule		curity of supp		n for Italy and Europe
Grant Obtention Date	nents demand and furthe It represents a uniq 13/08/2010 12 months	ue opportunity of a clean and	will give a significant contribu I sustainable energy source for me Schedule		curity of supp		n for Italy and Europe
Grant Obtention Date Delay Since Last TYNDP	nents demand and furthe It represents a uniq 13/08/2010 12 months	ue opportunity of a clean and Tir o delays in the authorisation p	will give a significant contribu I sustainable energy source for me Schedule		curity of supp		n for Italy and Europe
Grant Obtention Date Delay Since Last TYNDP Delay Explanation	nents demand and furthe It represents a uniq 13/08/2010 12 months Delay mainly due to	ue opportunity of a clean and Tir o delays in the authorisation p Expect	will give a significant contribu I sustainable energy source for me Schedule process in Italy and Algeria.	or Sardinia	curity of supp (and possibly		n for Italy and Europe
Grant Obtention Date Delay Since Last TYNDP Delay Explanation	nents demand and furthe It represents a uniq 13/08/2010 12 months Delay mainly due to	ue opportunity of a clean and Tir o delays in the authorisation p Expect ious projects aiming to interco	will give a significant contribu I sustainable energy source for me Schedule process in Italy and Algeria.	or Sardinia ves to Euro	curity of supp (and possibly		n for Italy and Europe
, Grant Obtention Date Delay Since Last TYNDP Delay Explanation Igeria, In the longer term, wit	nents demand and furthe It represents a uniq 13/08/2010 12 months Delay mainly due to th the realisation of ambit	ue opportunity of a clean and Tir o delays in the authorisation p Expect ious projects aiming to interco Comments about th e competent Italian Authority	will give a significant contribu I sustainable energy source for me Schedule process in Italy and Algeria. red Gas Sourcing onnect new African gas reserv	ves to Euro e evelopmen	curity of supp (and possibly pean ma	for Corsica).	
irant Obtention Date Delay Since Last TYNDP Delay Explanation Igeria, In the longer term, wit	nents demand and furthe It represents a uniq 13/08/2010 12 months Delay mainly due to th the realisation of ambit	ue opportunity of a clean and Tir o delays in the authorisation p Expect ious projects aiming to interco Comments about th e competent Italian Authority	will give a significant contribu I sustainable energy source for me Schedule process in Italy and Algeria. ted Gas Sourcing onnect new African gas reserv he Third-Party Access Regime (Ministry of the Economic Dev	ves to Euro e evelopmen	curity of supp (and possibly pean ma	for Corsica).	
irant Obtention Date belay Since Last TYNDP belay Explanation Igeria, In the longer term, wit on 29th October 2010, the pro rioritaria) of the entry capacit	nents demand and furthe It represents a uniq 13/08/2010 12 months Delay mainly due to th the realisation of ambit	ue opportunity of a clean and Tir o delays in the authorisation p Expect ious projects aiming to interco Comments about th e competent Italian Authority	will give a significant contributed sustainable energy source for me Schedule process in Italy and Algeria. Seed Gas Sourcing connect new African gas reserven the Third-Party Access Regime (Ministry of the Economic Device ty and for a periofd of 25 year	ves to Euro e evelopmen	curity of supp (and possibly pean ma	for Corsica).	
Grant Obtention Date Delay Since Last TYNDP Delay Explanation In Selay Explanation On 29th October 2010, the pro prioritaria) of the entry capacit Main Driver Mark	nents demand and furthe It represents a uniq 13/08/2010 12 months Delay mainly due to the the realisation of ambit oject has received from the ty at the Porto Botte Entry et Demand	ue opportunity of a clean and Tir o delays in the authorisation p <u>Expect</u> ious projects aiming to interco <u>Comments about th</u> e competent Italian Authority Point, for 100% of the capaci	will give a significant contributed sustainable energy source for me Schedule process in Italy and Algeria. Seed Gas Sourcing connect new African gas reserven the Third-Party Access Regime (Ministry of the Economic Device ty and for a periofd of 25 year	ves to Euro e evelopmen rs.	curity of supp (and possibly pean ma t) by decree a	for Corsica). Priority Allocation	

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 permi				
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			

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		Porto Empedo						
LNG-N-198		Project		LNG Termina	I N	lon-FID		
Jpdate Date		25/05/2	2016		A	dvanced		
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 m ³ 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.							
Regulatory Decisions and imilar material conditions		be classified as "Strategic Infrastru	ucture" for Italian system					
Capacity Increments Varia Point	nt For Modelling	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/		
Sponsors		General Infor	mation					
Nuove Energie Srl	100%	Promoter	Nuove Energie S.r.l.			5		
		Operator	Nuove Energie S.r.l.			arrie		
		Host Country	Italy	Financing		1 0		
		Status	Planned			1 Count		
		Website						
		Publication Approval Status	Approved					
						_		

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NDP and PCI Information		Schedule	Start Date	End Date	Third-Party Access Reg	Party Access Regime	
Part of NDP Yes (Pian	no decennale di sviluppo SNAM	Pre-Feasibility		01/2006	Considered TPA Regime	Regulated	
rait of NDr	2015-2024)	Feasibility	01/2006		Considered Tariff Regime	Negotiated	
NDP Number	n.a.	FEED	03/2006	09/2006	Applied for Exemption	Yes	
		Market Test		01/2018	Exemption Granted	Yes	
Currently PCI	No	Permitting	01/2009	10/2009			
		Supply Contracts			Exemption in entry direction	100.00%	
CBCA Decision	No	FID		10/2017	Exemption in exit direction	100.00%	
Market Survey	Not Relevant (no CBCA decision)	Construction	11/2017	12/2021			
		Commissioning	2021	2021			
		Technica	l Information (LNG)				
LNG Facility	Porto Empedocle LNG						
Expected Volume (bcm/y)	8						
Storage Capacity (m3)	320,000						
Ship Size (m3)		Current design foresees that the terminal will be able to receive LNG tankers up to 155.000 m3 of capacity. Possible future studies to allow the berthing of larger ships					
Reloading Ability	Yes						
			PCI Details				
PCI Benefits	Project aims at fulfilling			al level in acco	ordance with Article 6(3) of Regulation E		
General Criteria Fulfilled	Yes					0	
Specific Criteria Fulfilled		egration, Security of Sup	only Sustainability				
opecine entena runnica				at integration	, being the Italian system well interconne	acted with the rest	
	of EU gas market, throu security of supply: it pro	gh TAG and Transitgas, v wides a strong improven	vith positive impact on nent of the SoS of the s	prices, gas flo ystem, not or	ows, diversification, flexibility and price c ily in Italy but also in other Member Stat	convergence. tes; LNG is more	
Specific Criteria Fulfilled Con	fired operational flexibil create local and sutaina	ity required by the grow ble jobs inthe area. comp	ing intermittent renewa petition: it provides add	ibles generati litional compe	ets and players. sustainability: it provides on; building a terminal in South Italy (Sic etitive pressure to traditional import sou ous production depletion	cily) would help to	
	Worway, Lybia, Russia) V	the becoming more		the macgene	as production depiction		

	Time Schedule
Grant Obtention Date	
Delay Since Last TYNDP	about 2 years
Delay Explanation	Nuove Energie is awaiting the ministerial decree that have to follow the National Energy Strategy (SEN) which will identify the "Strategic Infrastructure" for the gas italian system. Such decree should also clarifies possible incentive mechanisms for infrastructure which are classified as "strategic".
	Expected Gas Sourcing
LNG (DZ,OA,US), Nigeria, Trin	indad and Tobago, Equatorial Guinea

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. Nuove Energie is currently evaluating the possibility to revise its initial position of full TPA exemption.

	Benefits
Main Driver	Others
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
Financing	in the current italian market context, the PCI project status would help to finance the project

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TRA-N-974		Project			Pipeline including	JCS N	lon-FID
Jpdate Date		a second s	25/05/201	6		Ad	dvanced
escription	Complete the realisation of and the compression static 24" LARINO-CHIETI - 55 kn km under construction) - C	on. Of these 5 phases, on 20" CHIETI - CELLINC	one section is alre (already comple	ady completed and anothe ted and running) - 90 km 2	er one is under constru 20" CELLINO - SAN MA	iction 1 Construc RCO (15 km comp	tion of 110 k
egulatory Decisions and milar material conditions	The construction and opera the National Gas Network. TYNDP with the National E approval process is current	Decree No. 14624 of 2 nergy Strategy. SGI has	5 May 2016, the s included the pro	talian Ministry of Economi oject in its own TYNDP, as s	c Development has ass submitted to MiSE and	sessed the consiste	ency of SGI's
apacity Increments Variant	For Modelling	Onemation		Vers	Fuerra Cara Guetaria	To Coo Custom	Consiste
oint		Operator	and a set to a line	Year	From Gas System	To Gas System	Capacity
		Societa Ga	sdotti Italia	2022		ITg	53.0 GWh
arino (IT)		Società Co	sdotti Italia	2022	alues refer to the whole	IT	53.0 GWh
		Societa Ga			ilues refer to the whole		
		Società Ga	sdotti Italia	2022	IT	ITg	53.0 GWh
		Societa Ga			lues refer to the whole	5	
ecanati (IT)		Società Ga	sdotti Italia	2022	ITq	IT	53.0 GWh
					alues refer to the whole	completed project	
						, , , ,	
ponsors			General Informa		No Ba	rriers Defined	
		Promoter		Società Gasdotti Italia			
		Operator		Società Gasdotti Italia			
		Host Country		Italy			1
		Status		Planned			
		Website					

Publication Approval Status Approved

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٩	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regime	
Part of NDP	Yes (There is no NDP currently in force)	Pre-Feasibility		12/2013	Considered TPA Regime	Regulated
NDP Number	Not applicable	Feasibility	01/2014	12/2014	Considered Tariff Regime	Regulated
		FEED	01/2015	01/2015	Applied for Exemption	No
Currently PCI	No	Market Test		06/2012	Exemption Granted	No
		Permitting	01/2015	12/2019		
CBCA Decision	No	Supply Contracts		06/2019	Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID		12/2016	Exemption in exit direction	0.00%
		Construction	06/2018	12/2022		
		Commissioning	2022	2022		

Pipelines and C	ompressor Stations				
	Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
	Cellino-San Marco	15 km completed, 75 km under construction	500	90	
	Chieti-Cellino	already completed and running	500	55	
	Larino - Chieti		600	110	
	San Marco-Recanati	Construction 3 MW compression station SAN MARCO	600	32	3
		Total		287	3
		PCI Details			
PCI Benefits	Project conce	rns investment in reverse flow capacity			

General Criteria Fulfilled Yes

Specific Criteria FulfilledSecurity of SupplySpecific Criteria Fulfilled CommentsThe project appears necessary considering that the stress test on the existing pipeline system have proved critical issues in case of emergency
or peak demand in an area where gas flows from the south and from the north merges at a relatively low pressure regime.

Benefits

Main Driver

Regulation SoS

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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 facility 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 strengthen 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.

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		Sardinia Gas Trans	Jonation Netw	Ork		
TRA-N-975		Project			Pipeline including CS	Non-FID
Jpdate Date		25/	05/2016		1	Non-Advanced
Description	terminals with small scale LNG backbone of the national gas	G capabilities and/or by an offstransmission grid (national lin	shore connection t e) and the parallel	to mainland. connection	at least by 1 or more micro/mini/midi L The project forsees the development o of the regional lines: - Construction of th diameter ranging from 4" to 16"	of the main
egulatory Decisions and imilar material conditions	to the recent transfer of the re	elevant competence from MiS	E to AEEGSI. Sardir	nia Region Er). TYNDP approval process is currently nergy and Environmental Plan as issued ry of Economic Development has asses	d on 28.01.2016,
ponsors		General II	nformation			
		Promoter	Società Go	asdotti Italia		Da
		Operator	Società Go	asdotti Italia	Regulatory	1
					- · ·	
		Host Country		Italy		
		Host Country Status			Others	1 Cours
				Italy	Others	1 barriers (County
		Status		Italy	Others	1 County
NDP and PC	CI Information	Status Website	Start Date	ltaly Planned	Others Third-Party Access Re	
	Cl Information ere is no NDP currently in force)	Status Website Publication Approval Status Schedule	Start Date	Italy Planned Approved End Date		
Part of NDP Yes (The		Status Website Publication Approval Status Schedule Pre-Feasibility	Start Date 02/2016	Italy Planned Approved End Date 09/2015	Third-Party Access Re	egime
Part of NDP Yes (The	ere is no NDP currently in force)	Status Website Publication Approval Status Schedule Pre-Feasibility		Italy Planned Approved End Date 09/2015 03/2016	Third-Party Access Re Considered TPA Regime	egime Regula
Part of NDP Yes (The NDP Number	ere is no NDP currently in force) Not applicable	Status Website Publication Approval Status Schedule Pre-Feasibility Feasibility	02/2016	Italy Planned Approved End Date 09/2015 03/2016 12/2016	Third-Party Access Re Considered TPA Regime Considered Tariff Regime	egime Regula Regula
	ere is no NDP currently in force) Not applicable	Status Website Publication Approval Status Schedule Pre-Feasibility Feasibility FEED	02/2016	Italy Planned Approved End Date 09/2015 03/2016 12/2016	Third-Party Access Re Considered TPA Regime Considered Tariff Regime Applied for Exemption	egime Regula Regula
Part of NDP Yes (The NDP Number	ere is no NDP currently in force) Not applicable No	Status Website Publication Approval Status Schedule Pre-Feasibility Feasibility FEED Market Test	02/2016 03/2016	Italy Planned Approved End Date 09/2015 03/2016 12/2016 06/2014 12/2018	Third-Party Access Re Considered TPA Regime Considered Tariff Regime Applied for Exemption	egime Regula Regula

06/2019

2031

2031

Construction Commissioning

	PCI Details
PCI Benefits	
General Criteria Fulfilled	Yes
Specific Criteria Fulfilled	Competition, Sustainability
Specific Criteria Fulfilled	Comments This Project will halt Sardinia industrial decline driven - also - by higher than average energy cost. The high energy cost is a barrier to the development of new competitive productive activities. Current generation capacity is coal/fuel oil based. Gas substition is an upside which will bring environmental benefits. An integrated onshoregas + Small Scale LNG development will be the catalist for developing LNG bunkering leveraging on Sardinia ferry connections and its position at the centre of the Med.
	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	Converting coal and oil fired power stations to gas will lead to a substantial reduction of CO2 emissions. A single Sardinia price for gas - enabled by a region wide gaas Network - will also bring a relevant cost reduction for Sardinia citizens and industries, whose energy prices can be as high as twice Italian average.
	Barriers
Barrier Type	Description
Regulatory	NRA to clarify: 1) that Tariff Regime applicable in mainland Italy is also applicable on Sardinia gas network development, irrespective of its physical connection with Italy's Network; 2) Tariff and TPA Regime for SSLNG (this only indirectly relevant to onshore network)
Others	Time-table of the project can be affected by the effective realization of LNG Terminals

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| 223

		Onshore LNG terminal i	n the Northern Adriatic			
LNG-N-217		Project		LNG Termina		Ion-FID
Update Date	Onchoro reassification termin		/07/2016 rage capacity: 2 x 140.000 m3;	Sond out conscitut 1 075 (-Advanced
	maximum vessel size of 145.0		age capacity. 2 x 140.000 ms,	Send-Out capacity. 1.075.0	Joo ms(s)/nour. Si	igle jetty and
Regulatory Decisions and imilar material conditions						
Capacity Increments Variant F	or Modelling					
Point		Operator		ear From Gas System	To Gas System	Capacity
Zaule LNG (Trieste)		gasNatural Rigassific	cazione S.p.A. 20)21 LNG_Tk_IT	IB-ITn	258.0 GWh/
ponsors		General I	nformation	No B	arriers Defined	
GAS NATURAL RIGASSIFICAZIO	ONE ITALIA S.p.A. 100%	Promoter	Gas Natural Rigassificazione Italic	1		Barrier
		Operator	gasNatural Rigassificazione S.p.A			Barriers (Count)
		Host Country	Italy			ntj
		Status Website	Planned Droigette (10)			
		Publication Approval Status	<u>Project's URI</u> Approvec			
				Southe	rn Corridor GRIP 20	17–2026 Ann

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regin	ne
	No (This project is not part of a National	Pre-Feasibility			Considered TPA Regime	Regulated
	Development Plan as it is located on the	Feasibility			Considered Tariff Regime	Regulated
Part of NDP	Italian coast and there is no National Development Plan in Italy, which is the	FEED			Applied for Exemption	No
	project host country.)	Market Test			Exemption Granted	No
NDP Number		Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
Currently PCI	No	FID		12/2017	Exemption in exit direction	0.00%
		Construction				
CBCA Decision	No	Commissioning	2021	2021		
Market Survey	Not Relevant (no CBCA decision)					

		Technical Information (LNG)
LNG Facility	Zaule LNG Terminal (Trieste - Italy)	
Expected Volume (bcm/y)	8	
Storage Capacity (m3)	280,000	net storage capacity in 2 tanks
Ship Size (m3)	145,000	
Reloading Ability	No	
		PCI Details
PCI Benefits		
General Criteria Fulfilled	Yes	

Specific Criteria Fulfilled Market Integration

Specific Criteria Fulfilled Comments

Time Schedule

Grant Obtention Date Delay Since Last TYNDP

Delay Explanation

The temporary suspension of the validity of the July 2009 EIA by Italian Environment Ministry Decree (April 18, 2013), has delayed up to date the Services Conference procedures, the award of Final Authorization and therefore the project construction and commissioning dates The final resolution recently issued in February 2015 restoring the validity of the EIA will resume the last phase of permitting process (Services Conference).

Expected Gas Sourcing

LNG for the terminal may come from any LNG producer in the world . We envisage a liquid LNG market with a crescent importance

	Benefits
Main Driver	Others
Main Driver Explanation	
Benefit Description	Decontamination of part of Trieste Industrial Harbour. Boost in economic activity in the city, province and region.

Romania

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Description The interconnection project includes the following objectives: • land section (DN 500, PN 40 bar, L = 5,1 km) on the Romanian territory, breatering station Giurgiu and the Danube undercrossing point on the Romanian shore and the gas metering station in the vicinity of GSNTGN Transgaz SA is responsible for its implementation; • land section (DN 500, PN 40 bar, L = 15,4 km) on the Bulgarian territory, breatering station Ruse and the Danube undercrossing point on the Bulgarian shore and the gas metering station in the vicinity of Ruse Bulgartransgaz EAD is responsible for its implementation; • Danube undercrossing by two pipelines (DN 500, PN 50 bar), each pipeline (one main pipeline and one back-up pipeline) the responsibility of their implementation is joint. Capacity Increments Variant For Modelling Vear From Gas System To Gas System Point Operator Year From Gas System To Gas System Ruse (BG) / Giurgiu (RO) SNTGN Transgaz SA. 2016 RO BGn Sponsors General Information SNTGN Transgaz SA. 2016 RO BGn Bulgartransgaz 54% Promoter SNTGN Transgaz SA. 2016 RO BGn	FRA-F-029		Project		Pipeline including	j CS	FID
Description metering station Giurgiu and the Danube undercrossing point on the Romanian shore and the gas metering station in the vicinity of G SNTGN Transgaz SA is responsible for its implementation; • land section (DN 500, PN 40 bar, L = 15,4 km) on the Bulgarian territory, breating station Ruse and the Danube undercrossing point on the Bulgarian shore and the gas metering station in the vicinity of Ruse Bulgartransgaz EAD is responsible for its implementation; • Danube undercrossing by two pipelines (DN 500, PN 50 bar), each pipeline (one main pipeline and one back-up pipeline) the responsibility of their implementation is joint. Capacity Increments Variant For Modelling Operator Year From Gas System To Gas System SNTGN Transgaz SA. 2016 BGn RO Sponsors General Information SNTGN Transgaz SA. Yong Barriers Defined Sponsors General Information SNTGN Transgaz SA. SNTGN Transgaz SA. SNTGN Transgaz SA. 	lpdate Date		1	24/05/2016		Ad	dvanced
Similar material conditions Capacity Increments Variant For Modelling Point Operator Year From Gas System To Gas System Ruse (BG) / Giurgiu (RO) SNTGN Transgaz S.A. 2016 BGn RO SNTGN Transgaz S.A. 2016 RO BGn SNTGN Transgaz S.A. 2016 RO BGn Some Some Some Source	Description B	etering station Giurgiu and ITGN Transgaz SA is respo etering station Ruse and th Ilgartransgaz EAD is respon	I the Danube undercrossing insible for its implementatio ne Danube undercrossing po- nsible for its implementation	point on the Romanian shore and n; • land section (DN 500, PN 40 ba bint on the Bulgarian shore and the n; • Danube undercrossing by two p	the gas metering statior r, L = 15,4 km) on the B gas metering station in ipelines (DN 500, PN 50	n in the vicinity of C ulgarian territory, k the vicinity of Ruse	Giurgiu - Detween the ga e -
SNTGN Transgaz S.A. 2016 BGn RO SNTGN Transgaz S.A. 2016 BGn BGn Sponsors General Information No Barriers Defined Bulgartransgaz 54% Promoter SNTGN Transgaz S.A. Transgaz 46% Operator SNTGN Transgaz S.A.	imilar material conditions	Modelling					
Ruse (BG) / Giurgiu (RO) SNTGN Transgaz S.A. 2016 RO BGn Sponsors General Information No Barriers Defined Bulgartransgaz 54% Promoter SNTGN Transgaz SA Transgaz 46% Operator SNTGN Transgaz S.A.	oint		Operator	Yea	r From Gas System	To Gas System	Capacity
Sponsors General Information No Barriers Defined Bulgartransgaz 54% Promoter SNTGN Transgaz SA. Transgaz 46% Operator SNTGN Transgaz S.A.	Ruse (BG) / Giurgiu (BO)		SNTGN Transgaz	S.A. 2016	5 BGn	RO	14.4 GWh/o
Bulgartransgaz54%PromoterSNTGN Transgaz SATransgaz46%OperatorSNTGN Transgaz S.A.			SNTGN Transgaz	S.A. 2016	6 RO	BGn	14.4 GWh/0
Transgaz 46% Operator SNTGN Transgaz S.A.	Sponsors		Genera	al Information	No Ba	rriers Defined	
Hansyaz 40%	Bulgartransgaz	54%	Promoter	SNTGN Transgaz SA			8
	ransgaz	46%	Operator	SNTGN Transgaz S.A.			rrier
Host Country Romania			Host Country	Romania			s(C
Status Planned			Status	Planned			Barriers (Count)
Website			Website				5
Publication Approval Status Approved				Approved			

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access R	egime
	No (The project is in the final stage of the	Pre-Feasibility			Considered TPA Regime	Regulated
Part of NDP	construction works and will be	Feasibility			Considered Tariff Regime	Regulated
	comissioned during 2016.)	FEED			Applied for Exemption	No
NDP Number		Market Test			Exemption Granted	Not Relevant
Currently DCI	N/a	Permitting				
Currently PCI	No	Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
		Construction		01/2016		
Market Survey	Not Relevant (no CBCA decision)	Commissioning	2016	2016		

Pipelines and Compressor St	ations					
Pipeline Section		Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)	
Giurgiu	-Ruse		500	25		
	Total			25		
		Time Schedule				
Grant Obtention Date	06/09/2010					
Delay Since Last TYNDP	12 months					
Delay Explanation		on phase. The complicated geological struct al Drilling, produced significant delays as a r			ube river bad to be	

Benefits				
Main Driver	Market Demand			
Main Driver Explanation	n			
Benefit Description	Diversification of sources of energy, routes and supplies; increasing the degree of interconnectivity between the gas transmission systems of the two countries; safety, reliability and interoperability of interconnected energy networks, including enabling bidirectional gas flows; contribution to the establishment of the South-Eastern European regional gas market.			

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TRA-N-357	Project	Pipeline including CS	Non-FID
Update Date	01/09/2016		Advanced
	Development of the Romanian gas transmission system in order to improv		
Description	transmission capacities so as to improve gas supply in the area as well as to pipeline for the interconnection of Romania and the Republic of Moldova. The construction of a new gas transmission pipeline Dn 700, Pn 55 bar, in t gas transmission pipeline Dn 700, Pn 55 bar, in the direction Gherăiești-Leț Onești, with an installed power of 6 MW, with 2 compressors of 3 MW each installed power of 4 MW, with 2 compressors of 2 MW each.	The scope of the project is the achievement of the he direction Onești-Gherăiești, 104 km long; 🛛 The cani, 61 km long; 🛛 The construction of a gas com	following objectives e construction of a n pressor station at

Sponsors		General Info	ormation			
SNTGN Transgaz S.A.	100%	Promoter	SNTGN Transgaz SA	Dellated		Ba
		Operator	SNTGN Transgaz S.A.	Political	1	rrie
		Host Country	Romania	Permit Granting	1	rs (C
		Status	Planned	Financing	1	lo In
		Website	<u>Project's URL</u>	5		æ
		Publication Approval Status	Approved			

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Reg	gime
Part of NDP	Yes (Developement Plan for the National			12/2014	Considered TPA Regime	Regulated
Tart of NDI	GTS 2016 - 2025)	Feasibility	01/2015	12/2015	Considered Tariff Regime	Regulated
NDP Number	7.4	FEED	01/2016	05/2017	Applied for Exemption	No
		Market Test			Exemption Granted	Not Relevant
Currently PCI	No	Permitting	01/2015	05/2017		
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction	06/2017	10/2018		
		Commissioning	2018	2018		

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
Onesti - Letcani		711	165	10
Tot	al		165	10

Expected Gas Sourcing

European gas market

	Benefits
Main Driver	Regulation-Interroperability
Main Driver Explanat	ion
Benefit Description	
	Barriers
arrier Type	Description
ermit Granting	The permitting process is long and complicated
olitical	Area with potential conflicts Requires the conclusion of an Intergovernmental Agreement
inancing	Availability of funds and associated conditions

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Interconnection of the NTS with the DTS and reverse flow at Isaccea

TRA-N-139		Project		Pipeline including CS	Non-FID
Update Date		22/06/2	2016		Non-Advance
Description		e modernisation and extension of the source of the state			
Regulatory Decisions and similar material conditions					
	_				
Sponsors		General Infor	mation		
	100%	General Infor Promoter	mation SNTGN Transgaz SA	Devidetary	
	100%			Regulatory	1
	100%	Promoter	SNTGN Transgaz SA	Regulatory Permit Granting	1
	100%	Promoter Operator	SNTGN Transgaz SA SNTGN Transgaz S.A.	Permit Granting	1
	100%	Promoter Operator Host Country	SNTGN Transgaz SA SNTGN Transgaz S.A. Romania	÷ .	1 1 1
Sponsors Transgaz	100%	Promoter Operator Host Country Status	SNTGN Transgaz SA SNTGN Transgaz S.A. Romania Planned	Permit Granting	1 1 1

TRA-N-959 Further enlargement of the BG—RO—HU—AT transmission corridor (BRUA) phase 3

Current		TVNDP	2017	- Annex A
Current	ITINDF .		2017	- Allilex A

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NDF	P and PCI Information	Schedule	Start Date	End Date	Т	hird-Party Acces	s Regime
Part of NDP	es (Developement Plan for the National	Pre-Feasibility			Considered TPA	Regime	Regulate
rait of NDr	GTS 2016 - 2025)	Feasibility			Considered Tarif	f Regime	Regulate
NDP Number	7.3	FEED			Applied for Exem	nption	N
		Market Test			Exemption Grant	ed	Not Relevar
Currently PCI	Yes (6.15)	Permitting					
		Supply Contracts			Exemption in en	try direction	0.009
CBCA Decision	No	FID			Exemption in exi	t direction	0.009
Market Survey	Not Relevant (no CBCA decision)	Construction					
		Commissioning	2019	2019			
Pipelines and Comp	ressor Stations						
	Pipeline Section	Pipe	eline Comment		Diameter (mm) Length (km) C	ompressor Power (MW
	Oposti Isassaa	The route from Onesti t long, but rehabilitation v	o Isaccea is approximat		813	77	22
		otal				77	22
			PCI Details				
PCI Benefits	Project concerns investr	nent in reverse flow capa	city				
General Criteria Fulfil	led Yes						
Specific Criteria Fulfil	led Market Integration, Secu	urity of Supply, Sustainab	ility				
Specific Criteria Fulfil	led Comments						
		Tii	me Schedule				
Grant Obtention Date	e 30/07/2010						
Delay Since Last TYN	DP 12 months						
Delay Explanation							
			Benefits				
Main Driver	Regulation-Interroperability						
Main Driver Explanat	ion						

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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				

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New NTS developments for taking over gas from the Black Sea shore

TRA-N-964		Project			Pipeline including CS	Non-FID
Update Date		07/0)5/2016			Non-Advanced
Description	considered the building of a t transmission pipeline.				e offshore Black Sea blocks gas. Ir he Black Sea shore to the existing T	
Regulatory Decisions imilar material cond						
Sponsors		General In	formation			
SNTGN Transgaz SA	100%	Promoter	SNTGN	Transgaz SA		8
	· · · · · · · · · · · · · · · · · · ·	Operator	SNTGN T	ransgaz S.A.		rrier
		Host Country		Romania	Financing	1 0
		Status		Planned		Barriers (Count)
		Website				đ
		Publication Approval Status		Approved		
NDP	and PCI Information	Schedule	Start Date	End Date	Third-Party Acce	ss Regime
Part of NDP	es (Development Plan for the National	Pre-Feasibility			Considered TPA Regime	Regulated
	GTS 2016 - 2025)	Feasibility			Considered Tariff Regime	Regulated
NDP Number	7.6	FEED			Applied for Exemption	No
		Market Test		12/2016	Exemption Granted	Not Relevant
Currently PCI	No	Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction				
		Commissioning	2019	2019		

Dinalinas and Compra	sor Stations					Page 501 of 620
Pipelines and Compres	peline Section		Pipeline Comment	Diamator (mm)	Longth (km)	Compressor Power (MW
		Coursel aire alia		Diameter (mm)	-	Compressor Power (IVIV
BIAC	k Sea Shore - T1	Total	e diameter variants under analysis		30 30	
		Total			50	
			PCI Details			
PCI Benefits						
General Criteria Fulfille						
Specific Criteria Fulfille		urity of Supply, Sustainabili	ty			
Specific Criteria Fulfille	d Comments					
		Ex	pected Gas Sourcing			
Black Sea						
			Benefits			
Main Driver	Regulation SoS					
Main Driver Explanation	n new sources (the Black Sea z long term, the probability to	one); - Increase of security interrupt gas supply will be	nia and Bulgaria through the diversific of supply with gas for Romania. Since e reduced, and in case of an interruptic a larger gas delivery availability, ensu	this pipleine enables a on, the consequences	access to new will be less se	supply sources over the erious. This increase of
Benefit Description	regional gas market, with po	sitive effects on the gas pri	the gas supply sources and transmissic ce, thus decreasing market concentrati cing gas with liquid (oil) or solid fossil	on for each impacted	country; - In	crease of sustainability
			Barriers			
Barrier Type	Description					
inancing	Availability of funds and asso	ociated conditions				

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Development on the Romanian territory of the NTS (BG-RO-HU-AT Corridor)

FRA-N-358	Project	Pipeline including CS	Non-FID
Jpdate Date	15/09/2016		Advanced
Description	The scope of the project is the construction of a new gas transmission pipel and GMS Horia and the construction of compressor stations along the route development of the BRHA Project in stages, as follows: Stage I 🛛 Gas transm Three gas compressor stations (CS Podisor, CS Bibesti, CS Jupa) each station gas flows. Upon the completion of Stage I the following transmission capaci Bulgaria: 1,5 billion m3/year. Stage II 🗆 gas transmission pipeline Recaş–Hor compressor stations (CS Podisor, CS Bibesti and CS Jupa) by mounting an ac	e (CS Jupa, CS Bibesti and CS Podisor). Transgaz co nission pipeline Podişor-Recaş 32" x 63 bar, approx n is equipped with two compressor units which ma ities will be ensured: D towards Hungary: 1,75 billio ria 32" x 63 bar, approximately 50 km long; D expan	nsiders the imately 478 km long; y enable bidirectional on m3/year; I towards nsion of the three gas
Regulatory Decisions and imilar material conditions	Cross Border Cost Allocation Decision (CBCA)		

Point	Operator	Year	From Gas System	To Gas System	Capacity
Cranadaalata	SNTGN Transgaz S.A.	2020	HU	RO	76.5 GWh/d
Csanadpalota	SNTGN Transgaz S.A.	2020	RO	HU	126.1 GWh/d
Ruse (BG) / Giurgiu (RO)	SNTGN Transgaz S.A.	2020	RO	BGn	29.3 GWh/d

Sponsors		General Info	rmation		
SNTGN Transgaz S.A.	100%	Promoter	SNTGN Transgaz S.A.	_	
		Operator	SNTGN Transgaz S.A.	Regulatory	1
		Host Country	Romania		
		Status	Planned	Permit Granting	1
		Website	Project's URL		
		Publication Approval Status	Approved		

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	gime
Part of NDP	Yes (Development Plan for the National	<u> </u>		12/2013	Considered TPA Regime	Regulated
	GTS 2016-2025)	Feasibility	01/2014	12/2014	Considered Tariff Regime	Regulated
NDP Number	7.1	FEED	01/2016	02/2017	Applied for Exemption	No
		Market Test		10/2017	Exemption Granted	Not Relevant
Currently PCI	Yes (Stage I: 6.24.2 Stage II: 6.24.7)	Permitting	01/2014	02/2017		
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	Yes (2015-10-06)	FID			Exemption in exit direction	0.00%
Market Survey	Open Season(2017-10-02)	Construction	08/2017	09/2020		
		Commissioning	2020	2020		

Pipeline S	ection	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Podisor -	Horia		813	528	50
	Total			528	50
		PCI Details			
PCI Benefits		transmit gas across the borders of the mem e project, Project concerns investment in rev		it least 10%, co	ompared to the situation
General Criteria Fulfilled	Yes				
Specific Criteria Fulfilled	Competition, Market Integration,	, Security of Supply, Sustainability			
Specific Criteria Fulfilled Comm	ents				
		Time Schedule			
Grant Obtention Date	18/05/2015				
Delay Since Last TYNDP	Stage 1- 9 months delay in comr	nissioning Stage 2 – 21 months in commissi	oning		
Delay Explanation		teh FEED services related to the compresor connection with the production at the Black		inties related t	o the execution of the
		Expected Gas Sourcing			
Caspian Region, LNG (), Black S	ea				

	Benefits	
Main Driver	Market Demand	
Main Driver Explanation	n Beside Market Demand driver, other important drivers are Security of Supply	and Interroperability
Benefit Description		
	Barriers	
Barrier Type	Description	
Regulatory	The Competent Authority to coordinate all permit granting processes is not ye	et functional in Romania.

Permit Granting Long and complicated process implying the need to receive the right of access on the field

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Development on the Romanian territory of the Southern Transmission Corridor

RA-N-362		Project		Pipeline including CS	Non-FID
Jpdate Date		01/09/2	2016		Advanced
		ilding of a transmission pipeline fr will be available at the Black Sea			
Regulatory Decisions and imilar material conditions					
Sponsors		General Infor	mation		
	100%				
SNTGN Transgaz SA	100%	Promoter	SNTGN Transgaz SA	Regulatory	1
		Operator	SNTGN Transgaz S.A.		
		Host Country	Romania	Permit Granting	1
		Status	Planned	Financing	1
		Status Website	Planned <u>Project's URL</u>	Financing	1
				Financing	1
		Website	<u>Project's URL</u> Approved	Financing	1

TRA-N-358 Development on the Romanian territory of the NTS (BG–RO-HU-AT Corridor)

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Acces	s Regime
Part of NDP	Yes (Development Plan for the National	Pre-Feasibility		05/2014	Considered TPA Regime	Regulate
	GTS 2016-2025)	Feasibility	09/2014	02/2016	Considered Tariff Regime	Regulate
NDP Number	7.2	FEED	06/2016	03/2017	Applied for Exemption	Ν
		Market Test		05/2017	Exemption Granted	Not Relevar
Currently PCI	Yes (6.24.8)	Permitting	01/2015	03/2017		
		Supply Contracts			Exemption in entry direction	0.00
CBCA Decision	No	FID			Exemption in exit direction	0.00
Market Survey	Not Relevant (no CBCA decision)	Construction	01/2018	10/2020		
		Commissioning	2020	2020		
Pipelines and Co	ompressor Stations					
1	Pipeline Section	Pi	ipeline Comment		Diameter (mm) Length (km) C	Compressor Power (M\
			ic, the diameter is reduced	ed to 1,000 mr		
		otal			307	
			PCI Details			
PCI Benefits						
General Criteria F	Fulfilled Yes					
Specific Criteria F	Fulf <mark>illed Competition, Market Int</mark>	egration, Security of Su	upply, Sustainability			
Specific Criteria F	Fulfilled Comments					
		Ехре	cted Gas Sourcing			
Black Sea		Expé	ected Gas Sourcing			
3lack Sea		Expe				
		Expe	ected Gas Sourcing Benefits			
Main Driver	Market Demand	Expe				
	anation		Benefits			
Main Driver	anation - Increase of competition through t	the diversification of gas	Benefits as sources and transmissic			

	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

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		Eastring - Romania				
TRA-N-655		Project		Pipeline including	J CS N	Ion-FID
Update Date		03/06/2016			Non	-Advanced
Description	with IP at the BG/TR borde offered to any shipper on gas infrastructure between gas market situation in eac	mania is an essential part of the Eastring project, er. Eastring is a natural gas pipeline project. It will non-discriminatory basis respecting all EU rules a n Slovakia, Hungary, Romania and Bulgaria in a bi ch of the respective countries. Maximum daily bi-	not own or sell an and laws (Directives directional conjunc directional capacit	y natural gas and once and Regulations). Eas tion bringing a new tr y will be of 20 bcm/ye	e available, all its c string will connect ransit potential an ear (Stage I) and 40	capacity will be the existing d improving) bcm/year
Regulatory Decisions a similar material condit	region, as well as will allow and tions	ld secure supplies in case of RU disruption and th v access to alternative gas sources for Central, We			oader Central-Sou	th-East EU
	region, as well as will allow and tions	v access to alternative gas sources for Central, We		Europe		
imilar material condit Capacity Increments V	region, as well as will allow and tions		estern & Southern		oader Central-Sou To Gas System RO/EAR	th-East EU Capacity 570.0 GWh /
imilar material condit Capacity Increments V Point	region, as well as will allow and tions /ariant For Modelling	v access to alternative gas sources for Central, We Operator	estern & Southern Year	Europe From Gas System	To Gas System	Capacity
imilar material condit Capacity Increments V Point	region, as well as will allow and tions /ariant For Modelling	v access to alternative gas sources for Central, We Operator SNTGN Transgaz S.A.	estern & Southern Year 2021	Europe From Gas System BG/EAR	To Gas System RO/EAR	Capacity 570.0 GWh/
imilar material condit Capacity Increments V Point	region, as well as will allow and tions /ariant For Modelling	Operator SNTGN Transgaz S.A. SNTGN Transgaz S.A.	estern & Southern Year 2021 2021	Europe From Gas System BG/EAR RO/EAR	To Gas System RO/EAR BG/EAR	Capacity 570.0 GWh/ 570.0 GWh/
imilar material condit Capacity Increments V	region, as well as will allow and tions /ariant For Modelling	Operator SNTGN Transgaz S.A. SNTGN Transgaz S.A. SNTGN Transgaz S.A.	estern & Southern Year 2021 2021 2025	Europe From Gas System BG/EAR RO/EAR BG/EAR	To Gas System RO/EAR BG/EAR RO/EAR	Capacity 570.0 GWh/ 570.0 GWh/ 570.0 GWh/

Factories Cases Bandar DO/FAD at 1917/FAD	SNTGN Transgaz S.A.
Eastring Cross-Border RO/EAR <> HU/EAR	SNTGN Transgaz S.A.
	SNTGN Transgaz S.A.

Sponsors		General Info	rmation
Transgaz S.A.	100%	Promoter	SNTGN Transgaz SA
	1	Operator	SNTGN Transgaz S.A.
		Host Country	Romania
		Status	Planned
		Website	Project's URL
		Publication Approval Status	Approved

No Barriers Defined

RO/EAR

HU/EAR

2025

2025

HU/EAR

RO/EAR



570.0 GWh/d

570.0 GWh/d

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	gime
	No (For the moment, the project lacks	Pre-Feasibility			Considered TPA Regime	Regulated
Part of NDP	sufficient descriptive elements in order for it to be included in the National Gas	Feasibility			Considered Tariff Regime	Regulated
	Transmission System Development Plan.)	FEED			Applied for Exemption	No
NDP Number		Market Test			Exemption Granted	Not Relevant
		Permitting				
Currently PCI	Yes (6.25.1)	Supply Contracts			Exemption in entry direction	0.00%
		FID			Exemption in exit direction	0.00%
CBCA Decision	No	Construction				
Market Survey	Not Relevant (no CBCA decision)	Commissioning	2021	2025		

	PCI Details
PCI Benefits	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, Project concerns investment in reverse flow capacity
General Criteria Fulfilled	Yes
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comm	lents

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	Regulation SoS
Main Linvar Evolanation	The project brings benefits to the SoS, bringing the new sources of gas supply and South-Eastern Europe countries, towards the Central and Western Europe markets, while further enhancing the market integration of the affected countries.
Benefit Description	- Physical alternative for providing gas from other sources, for all Balkan countries' consumption; - Providing security of supply for the Balkan countries' consumption; - Additional utilization for transit and storage assets; - Providing Western shippers with possibility to supply to Balkan countries and even Turkey from different other gas surces located in Europe; - Corridor ready for future gas imports to Europe from the Southern Corridor and other alternative sources.

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Further enlargement of the BG—RO—HU—AT transmission corridor (BRUA) phase 3

TRA-N-959		Project		Pipeline including	g CS 🛛 🔊	lon-FID
Jpdate Date		22/06/20	016		Non	-Advanced
Description	Sea shore or from other on-s existing pipelines; [] replacen	ssion capacity on the Oneşti – Coroi hore blocks. The development of th nent of some of the NTS existing pi nent of 4 or 5 new compressor stat	nis gas transmission corridor r pelines with new pipelines or	equires: I the rehabilithe building of new provide the building of the th	itation of some of ipelines installed in	the NTS
egulatory Decisions and milar material conditions					,	
Capacity Increments Varia	nt For Modelling					
Point	-	Operator	Year	From Gas System	To Gas System	Capacity
Csanadpalota 2		SNTGN Transgaz S.A.	2023	HU	RO	128.7 GWh
		SNTGN Transgaz S.A.	2023	RO	HU	128.7 GWh
ponsors		General Inform	nation			
NTGN Transgaz SA	100%	Promoter	SNTGN Transgaz SA	_		2
		Operator	SNTGN Transgaz S.A.	Permit Granting		1 barners (County
		Host Country	Romania			
		Status	Planned	Market		1
		Website				4
		Publication Approval Status	Approved			
						ļ

Current	TYNDP	: TYNDP	2017 -	- Annex A
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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	egime
Part of NDP	Yes (Developement Plan for the National	Pre-Feasibility			Considered TPA Regime	Regulated
	GTS 2016 - 2025)	Feasibility			Considered Tariff Regime	Regulated
NDP Number	7.5	FEED			Applied for Exemption	No
		Market Test			Exemption Granted	Not Relevant
Currently PCI	Yes (6.25.3)	Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction				
		Commissioning	2023	2023		

Pipeline	Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW	
Onesti - Nadlac		existing pipelines + rehabilitation + new pipelines	813	843	82	
		Total		843	82	
		PCI Details				
PCI Benefits		the capability to transmit gas across the borders of the member st missioning of the project, Project concerns investment in reverse f		t least 10%, co	mpared to the situation	
				t least 10%, cc	ompared to the situation	
PCI Benefits General Criteria Fulfilled Specific Criteria Fulfilled	prior to the com Yes			t least 10%, cc	ompared to the situation	
General Criteria Fulfilled	prior to the com Yes Competition, M	missioning of the project, Project concerns investment in reverse f		t least 10%, cc	ompared to the situation	

	Benefits	
Main Driver	Market Demand	
Main Driver Explanation		
Benefit Description		

	IDP 2017 - Annex A Barriers	Page 499 of 620
Barrier Type	Description	
Permit Granting	The permitting procesc is long and complicated	
Market	Lack of market support	
		Southern Corridor GRIP 2017–2026 Annex B

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		White Strea	im				
TRA-N-053		Project		Pipeline including	g CS N	lon-FID	
Update Date			24/05/2016		Non	Non-Advanced	
Description	Georgian-Turkish border (the compressor station will provi	rt gas produced in the Caspian area e SCP) and will include an onshore p ide the high pressure required to tra ion to Trans-Balkan pipeline is currer	ipeline from the SCP connect nsmit gas to Constanta Roma	ion point to Georgian	Black Sea coast w	here a major	
Regulatory Decisions and similar material conditions							
Capacity Increments Variant F	or Modelling	0	N.	5	T. C. C. I	C it	
Point		Operator White Stream	Year	From Gas System	To Gas System	Capacity	
Constanta (White Stream)		white Stream	2022	AZ/SCP	RO Comment:	505.0 GWh/d	
		White Stream	2022	AZ	AZ/SCP	505.0 GWh/	
South Caucasus Pipeline / Wh	iite Stream				Comment:	-	
Sponsors		General Inform	nation	No Ba	rriers Defined		
w-stream-pipeline Ltd	90%	Promoter	White Stream Ltd			8	
M Bryza	10%	Operator	White Stream			Barriers (Count)	
	1070	Host Country	Romania			(C	
		Status	Planned			Our	
		Website	<u>Project's URL</u>			đ	
		Publication Approval Status	Approved			1.	
		Enabled Proje	ects				
Project Code Project Name	and the second sec						
TRA-N-339 Trans-Caspian							

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	egime
	No (Countries outside EU do not have	Pre-Feasibility			Considered TPA Regime	Regulated
	established practices similar to EU MSs for	Feasibility			Considered Tariff Regime	Negotiated
	the NDPs. As for EU MSs, Germany has included the White Stream project, a	FEED			Applied for Exemption	No
Part of NDP	continuation of the TCP project:	Market Test			Exemption Granted	Not Relevant
	http://www.fnb-	Permitting				
	gas.de/files/2015_07_27_nep_gas_2016_sz enariorahmen.pdf)	Supply Contracts			Exemption in entry direction	0.00%
NDP Number	charterannen.par)	FID			Exemption in exit direction	0.00%
		Construction				
Currently PCI	No	Commissioning	2022	2022		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

Pipeline Secti	on	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW	
Supsa to Const	anta	Offshore (for first stage / 16 bcma)	726	1,115	375	
Vale to Sups	а	Onshore	1,039	135		
	Total			1,250	375	
		PCI Details				
PCI Benefits	Project changes the capability prior to the commissioning of	to transmit gas across the borders of the member the project	er states concerned by a	t least 10%, co	mpared to the situation	
General Criteria Fulfilled	Yes					
Specific Criteria Fulfilled	Competition, Market Integrati	on, Security of Supply, Sustainability				

Expected Gas Sourcing

Caspian Region

Page 471 of 620 Current TYNDP : TYNDP 2017 - Annex A Benefits Main Driver Others Main Driver Explanation risk reduction for sizable supply via commercially comparable (with Turkish route) diversification of route within the Southern Corridor Benefit Description Security of Supply Southern Corridor GRIP 2017-2026 Annex B

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		Sarmasel undeground ga	s storage in Romania			
UGS-N-371		Project		Storage Facilit	y N	on-FID
Update Date		23/05	/2016		Non-	Advanced
Description	contribute to increasing the o Corridor", a project develope Technological Node and Hor up to a total of 1,550 million the energy security by ensuri	n capacity of the seasonal storage overall UGS capacity in South-Eas ed by SNTGN Transgaz S.A. Media ia gas metering station. The proje m3/cycle with a cushion gas of 1 ing a higher volume of stored gas endence on import gas during wir	st Europe by connecting Sarmas as, consisting of gradual constru- ect consists of: 1 increasing the ,130 million m3; 2 increasing the s (increase of approximately 189	el UGS to "Bulgaria-Ro ction of a new gas trai working capacity of Sa e security and efficienc 6). 4 increasing the dai	omania-Hungary-A nsmission line betw rmasel UGS by 650 cy of Sarmasel UGS	ustria veen Podisor) million m3, 5 3 increasing
Regulatory Decisions and imilar material conditions Capacity Increments Varia	5		, . ,	,		
Point	nt for modelling	Operator	Year	From Gas System	To Gas System	Capacity
JGS Sarmasel		SNTGN Romgaz S.A.	2022	STcRO	RO	34.0 GWh/
JGS Sarmaser		SNTGN Romgaz S.A.	2022	RO	STcRO	42.0 GWh/
		SNTGN Romgaz S.A.	2022	STcRO	RO	34.0 GWh/
/IP Romgaz UGS (RO)		SNTGN Romgaz S.A.	2022	RO	STcRO	42.0 GWh/
Sponsors		General Info	ormation			
SNGN ROMGAZ S.A.	100%	Promoter	Societatea Națională de Gaze Naturale ROMGAZ S.A.	Regulatory		3 Barrier
				A double of		
		Operator		Market	2	sic
		Operator Host Country	SNTGN Romgaz S.A. Romania	Financing	1	s (count)

Project's URL

Approved

Website Publication Approval Status

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Reg	jime
	No (S.N.G.N. ROMGAZ S.A., the project	Pre-Feasibility		06/2016	Considered TPA Regime	Regulated
Part of NDP	promotor, is not a TSO, therefore it is not	Feasibility	10/2016	10/2017	Considered Tariff Regime	Regulated
	mandatory to have a TYNDP, as Transgaz does. There is no NDP at country level.)	FEED	11/2017	08/2018	Applied for Exemption	No
NDP Number		Market Test		10/2017	Exemption Granted	No
		Permitting	03/2017	09/2018		
Currently PCI	Yes (6.20.6)	Supply Contracts		03/2021	Exemption in entry direction	0.00%
		FID		09/2018	Exemption in exit direction	0.00%
CBCA Decision	No	Construction	04/2019	05/2022		
Market Survey	Not Relevant (no CBCA decision)	Commissioning	2022	2022		
2						
	UGS SARMASEL	Technical	Information (UGS)			
Storage Facility	Type Depleted Field					
Storage Facility Multiple-Cycle	Type Depleted Field No					
Storage Facility Multiple-Cycle	Type Depleted Field No					
Storage Facility Multiple-Cycle	Type Depleted Field No	Ρ	PCI Details			
Storage Facility Multiple-Cycle Working Volume	Type Depleted Field No e (mcm) 650.00 Project aims at fulfilling		d (N-1) rule at region	al level in acco	ordance with Article 6(3) of Regulation E	U, Project aims at
Storage Facility Multiple-Cycle Working Volume PCI Benefits	Type Depleted Field No e (mcm) 650.00 Project aims at fulfilling supplying directly or ind	the infrastructure standar	d (N-1) rule at region	al level in acco	ordance with Article 6(3) of Regulation E	U, Project aims at
Storage Facility Storage Facility Multiple-Cycle Working Volume PCI Benefits General Criteria Specific Criteria	Type Depleted Field No e (mcm) 650.00 Project aims at fulfilling supplying directly or ind Fulfilled Yes	the infrastructure standar	rd (N-1) rule at region per States	al level in acco	ordance with Article 6(3) of Regulation E	U, Project aims at

Page 491 of 620 Current TYNDP : TYNDP 2017 - Annex A **Time Schedule** Grant Obtention Date 01/11/2016 Delay Since Last TYNDP **Delay Explanation Expected Gas Sourcing** Romania **Benefits** Main Driver **Regulation SoS** The project is able to have a major contribution to SoS on the N-S corridor Bulgaria - Romania - Hungary, which is currently included in the plans of Main Driver Explanation Transgaz S.A. envisaging the construction of a new pipeline between Podisor and Horia. Increasing safety of gas supply in Romania and South-East Europe by securing higher gas volumes to be stored; - Increasing the daily capacity and the natural gas delivery flexibility; - Reducing gas imports during winter time; - Contributing to sustainability and market integration in the region We wish to highlight the fact that any present or future pipeline project aiming to improve Romania's interconnection to the gas systems in the region does need **Benefit Description** underground storage facilities as a support to ensure base-load supply as well as flexibility of supply, both to and from Romania. Considering the interconnection pipelines included in the TYNDP to neighbouring MS (Hungary reverse flow, Bulgaria) UGS facilities are indispensable assets for the proper operation of such interconnections. Another reasons are the new discoveries in the Romanian sector of the Black Sea (e.g Domino1). Barriers **Barrier** Type Description - no negotiated tariffs - no daily/weekly balance reports Regulatory Regulatory Low or zero-priced short-term capacity Market Lack of market support Market Lack of market maturity Financing Amortization rates Low rate of return Regulatory

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		New undergound gas s	storage in Romania				
UGS-N-366		Project		Storage Facilit	y N	on-FID	
Update Date		23/05	/2016		Non	Advanced	
Description	Several options for the construction of a new gas storage facility in depleted gas field (onshore) to be considered. The project to be located in Eastern part of Romania (Moldova region), near Falticeni. The location of the depleted reservoirs to be converted into UGS was determined according to the following criteria: - the envisaged reservoirs allow the construction of a small-medium sized UGS of 200 million m3/cycle, with future development possibilities; - the location is next to areas with consumption deficit and very low temperatures during winter season; - the is to be located near important industrial gas consumers and households - it may be used for increasing the security of supply in Romania and facilitating possible gas exports to Republic of Moldova - existing projects to develop gas resources in the Black Sea and the possibility to creatint exponent to project spart of the southern European transmission corridor - main pipeline close to the area						
Regulatory Decisions and similar material conditions							
Capacity Increments Variant Point	For Modelling	Operator	Year	From Gas System	To Gas System	Capacity	
		SNTGN Romgaz S.A.		STcRO	RO	21.0 GWh/0	
New Gas Storage Facility in R	komania	SNTGN Romgaz S.A. 2023		RO	STcRO	15.0 GWh/0	
Sponsors		General Info	ormation				
SNGN ROMGAZ S.A.	100%	Promoter	Societatea Națională de Gaze Naturale ROMGAZ S.A.	Regulatory Market	2	Barriers (Count)	
		Operator	SNTGN Romgaz S.A.				
		Host Country	Romania	Financing	1	unt)	
		Status	Planned				
		Website	Project's URL				
		Publication Approval Status	Approved				

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	NDP and PCI Information		Start Date	End Date	Third-Party Access Regime	
	No (S.N.G.N. ROMGAZ, the project	Pre-Feasibility		06/2016	Considered TPA Regime	Regulated
	promoter, is not a TSO, it is only storage	Feasibility	10/2016	10/2017	Considered Tariff Regime	Regulated
Part of NDP	operator, therefore it is not mandatory to have a TYNDP, as Transgaz has. There is	FEED	11/2017	11/2018	Applied for Exemption	No
	5	Market Test		10/2017	Exemption Granted	No
NDP Number		Permitting	03/2017	11/2018		
		Supply Contracts		07/2021	Exemption in entry direction	0.00%
Currently PCI	Yes (6.20.5)	FID		12/2018	Exemption in exit direction	0.00%
		Construction	07/2019	05/2023		
CBCA Decision	No	Commissioning	2023	2023		
Market Survey	Not Relevant (no CBCA decision)					

		Technical Information (UGS)
Storage Facility	UGS Moldova	
Storage Facility Type	Depleted Field	
Multiple-Cycle	No	
Working Volume (mcm)	200.00	

	PCI Details
PCI Benefits	Project aims at fulfilling the infrastructure standard (N-1) rule at regional level in accordance with Article 6(3) of Regulation EU
General Criteria Fulfilled	Yes
Specific Criteria Fulfilled	Market Integration, Security of Supply, Sustainability
	Increase of security of supply by adding new storage capacity in the Eastern part of Romania. This part of Romania includes major cities and industry and has the coldest climate in Romania. Possible increase of security of supply in the Republic of Moldova by connection to the Romanian - Moldavian Interconnection. Market integration: Some impact on GPI in RO under various price scenarios. Increase of security of
Specific Criteria Fulfilled Comm	ents supply by adding new storage capacity in the Eastern part of Romania. This part of Romania includes some major cities and industry and has the coldest climate in Romania. Possible increase of security of supply in the Republic of Moldova by connection to the Romanian - Moldavian Interconnection. Sustainability: Positive project impact higher in 2030 and 2035 on the total EU bill, Gas Bill ex. NP ex. CO2, and Disrupted Demand Cost under most price scenarios under FID. Highest impact on the total Disupted Demand Cost for various price sources, FID, in 2035.

	Time Schedule	
irant Obtention Date	01/11/2016	
elay Since Last TYNDP	P	
elay Explanation		
	Expected Gas Sourcing	
omania		
	Benefits	
lain Driver	Regulation SoS	
1ain Driver Explanation	The project shall contribute to the enhancement of the energy security in Romania and South-East Europe by creating the UGS connection to inter n consumption areas with current gas supply deficit, making thus available gas volumes for use in other consumption directions. The project shall also a contribution in terms of supply of regional market in Repubic of Moldova, a country associated to EU via lasi-Ungheni interconnector.	
enefit Description	We wish to highlight the fact that any present or future pipeline project aiming to improve Romania's interconnection to the gas systems in the re- does need Underground Storage Facilities as a support to ensure base-load supply as well as flexibility of supply, both to and from Romania. Cons- the interconnection pipelines included in the TYNDP to neighbouring MS (Hungary reverse flow, Bulgaria) as well as interconnections to Non-mem States which are Associate States to the EU (Ukraine, Moldova), UGS facilities are indispensable assets for the proper operation of such interconnec Another reason for our proposal to extend UGS capacities in Romania (including the construction of a completely new facility in the NE part of Rom are the new discoveries in the Romanian sector of the Black Sea (e.g Domino1),	sidering nber ctions.
	Barriers	
arrier Type	Description	
egulatory	- no negotiated tariffs - no daily/weekly balance reports	
larket	Lack of market support	
egulatory	Low or zero-priced short-term capacity	
larket	Lack of market maturity	
inancing	Amortization rates	
egulatory	Low rate of return	

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		Depomure	s			
JGS-N-233		Project		Storage Facilit	y N	lon-FID
Jpdate Date		23/05/20	16		Ac	dvanced
Description	rationale of the project is thre are rented from another part stage) and (iii) increase flexib 5.0 mcm/day after implemen	vamping and expansion of an existir ee fold (i) increase operational indep y (ii) gradually expand the storage c ility of the storage by increasing inje- tation of the second stage. The impl e FID for the entire phase I of the de	endence by building its own apacity (from 300 mcm to 40 ction and withdrawing capa ementation of the first stage	n compression unit as 00 mcm in a first stage city from the existing a e has already been init	currently compress and to 600 mcm in average 1.7 mcm/	sion services n a second day to appro
egulatory Decisions and imilar material conditions						
Capacity Increments Variant	For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacit
		Depomures	2019	STcRO	RO	15.8 GWh
			Comment	: To be considered for I	modeling purposes.	
		Depomures	2019	RO	STcRO	15.8 GWh
JGS Targu Mures			Comment	: To be considered for I	modeling purposes.	
JGS Targu Mures		Depomures	2022	STcRO	RO	18.9 GWh
			Comment	: To be considered for I	modeling purposes.	
		Depomures	2022	RO	STcRO	18.9 GWh
			Comment	: To be considered for I	modeling purposes.	
Sponsors		General Inform	ation			
GDF International	59%	Promoter	Engie Romania SA	Desulatory		2
		Operator	Depomures	Regulatory		2
		Host Country	Romania	Permit Granting	1	
		Status	Planned	Financing	1	
			Due is atta LIDI	j		
		Website	Project's URL			

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Re	gime
	No (As far as we are aware, currently there	Pre-Feasibility		06/2004	Considered TPA Regime	Regulated
	s no comprehrensive system wide national	Feasibility	06/2008	06/2009	Considered Tariff Regime	Regulated
	development plan, only one regarding the gas transmission infrastructure put	FEED	06/2011	06/2012	Applied for Exemption	No
Part of NDP	together by the TSO. Nevertheless, the	Market Test		06/2016	Exemption Granted	Not Relevant
	operator submitted a 5-year investment	Permitting	06/2012	06/2016		
	plan to Romanian NRA in 2015, which is updated anually.)	Supply Contracts			Exemption in entry direction	0.00%
NDP Number	apuatea anaaty.)	FID		11/2016	Exemption in exit direction	0.00%
NDI Nullibei		Construction	07/2015	01/2022		
Currently PCI	Yes (6.20.4)	Commissioning	2019	2022		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					
		Technica	al Information (UGS)			
Storage Facility	Depomures					

Storage Facility	Depomures	
Storage Facility Type	Depleted Field	
Multiple-Cycle	No	
Working Volume (mcm)	300.00	The capacity increment is planned to be implemented in 2 phases: 100 mcm in 2019 and 200 mcm with COD in 2022

PCI Details				
PCI Benefits	Project aims at supplying directly or indirectly at least two Member States			
General Criteria Fulfilled	Yes			
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability			

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 Specific Criteria Fulfilled Comments 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 EVR of Macedonia (although not a Member State) in most scenarios

	and Bulgaria, and also in the FYR of Macedonia (although not a Member State) in most scenarios.			
	Time Schedule			
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 is 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). We are currently in the process of finding a solution for the remaining permit and have communicated the problem to the Competent Authority as well as to the European Commission.			
	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.			
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 may impact the implementation of the entire project.			
Financing	Availability of funds and associated conditions			
Regulatory	Low or zero-priced short-term capacity			
Regulatory	Low rate of return			

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TRA-N-376		Project		Pipeline including	j CS N	lon-FID
Jpdate Date		07	7/05/2016		Non	-Advanced
Description	transportation via Black Sea and operate the LNG portion shore; - the "natural Re-gasi so please see below: =====	to Romania and Hungary and n: - the "natural gas the liquefa fication terminal" on Romania ===================================	ian region through the territory of A potentially to other European mark action Facilities") on Georgian Shore n Shore. The project is pure LNG pro ========= For LNG Project: Max n of LNG; Maximum ship cargo size:	ets; As a "standby LN(e; - transport of LNG fr oject and has no posit kimum Annual Capacit	G project", AGRI w om Georgian sho pility to include teo ty: 8.0 bcm/y; Max	vill implement re to Romania chnical details
egulatory Decisions and milar material conditions	<u> </u>					
apacity Increments Varian oint	t For Modelling	Operator	Year	From Gas System	To Gas System	Capacity
		AGRI	2026	GEa	RO	240.0 GWh
GRI / Constanta (RO)				Comment: Rega	zification termina	l
GRI / Poti (GE)		AGRI	2026	GE?	GEa	240.0 GWh
.GRI / POLI (GE)				Comment: Liq	uefaction termina	l
Sponsors		General	Information			
GOGC (GE)	25%	Promoter	4GRI LNG Project Company SRL (RO)	Market		2 barriers (Count)
/VM (HU)	25%	Operator	AGRI	Permit Granting	1	
	25%	Host Country	Romania	Financing	1	
ROMGAZ (RO)	0.50/	Status	Planned	Financing		ē
	25%					
ROMGAZ (RO) SOCAR (AZ)	25%	Website	<u>Project's URL</u>			_

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	NDP and PCI Information		Start Date	End Date	Third-Party Access I	Regime
	No (AGRI is not a Transmission System	Pre-Feasibility			Considered TPA Regime	Not Applicable
Part of NDP	Operator, so it is not necessary for its	Feasibility	06/2012	04/2015	Considered Tariff Regime	Not Applicable
	project to be part of a National Development Plan.)	FEED	01/2019	04/2020	Applied for Exemption	Not Relevant
NDP Number		Market Test		06/2021	Exemption Granted	Not Relevant
		Permitting	01/2018	09/2019		
Currently PCI	No	Supply Contracts		10/2022	Exemption in entry direction	0.00%
5		FID		11/2020	Exemption in exit direction	0.00%
CBCA Decision	No	Construction	06/2022	08/2026		
Market Survey	Not Relevant (no CBCA decision)	Commissioning	2026	2026		

	PCI Details
PCI Benefits	Project aims at fulfilling the infrastructure standard (N-1) rule at regional level in accordance with Article 6(3) of Regulation EU, Project aims at supplying directly or indirectly at least two Member States
General Criteria Fulfilled	Yes
Specific Criteria Fulfilled	Competition, Market Integration, Security of Supply, Sustainability
Specific Criteria Fulfilled Comm	nents

	Expected Gas Sourcing
Caspian Region	
	Benefits
Main Driver	Others
Main Driver Explanation	ion 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

Market	Lack of market support	
Financing	Availability of funds and associated conditions	



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		System Enhancen	nents - Eustre	eam		
FRA-F-017		Project			Pipeline including CS	FID
Jpdate Date		25/	05/2016			Advanced
Description	Modernization and Upgrade	of the Network and Replaceme	ent of Technolog	gies due to new	Environmental Norms	
Regulatory Decision imilar material co						
Sponsors		General Ir	nformation		No Barriers Defined	
eustream, a.s.	100%	Promoter		eustream, a.s.		Bar
		Operator		eustream, a.s.		Barriers (Count)
		Host Country		Slovakia		S (C
		Status		Planned		pun
		Website		<u>Project's URL</u>		5
		Publication Approval Status		Approved		
Ν	IDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regi	me
Part of NDP	Yes (National Development Plan 2016-	Pre-Feasibility			Considered TPA Regime	Regulate
	2025)	Feasibility			Considered Tariff Regime	Regulate
IDP Number	10.3.	FEED			Applied for Exemption	Λ
		Market Test			Exemption Granted	Λ
Currently PCI	No	Permitting				
		Supply Contracts			Exemption in entry direction	0.00
BCA Decision	No	FID			Exemption in exit direction	0.00
Aarket Survey	Not Relevant (no CBCA decision)	Construction				
		Commissioning	2026	2026		

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RA-N-190		Project		Pipeline including	JCS N	lon-FID
odate Date		25/05/2016			A	dvanced
		veen Slovak and Polish transmission sy g internal gas market	stem and thus increase th	e Security of Supply ir	CEE region, and	contribute to
egulatory Decisions and milar material conditions		g memai gas market				
apacity Increments Variant For Mode	lling					
pint		Operator	Year	From Gas System	To Gas System	Capacity
terconnector PL - SK		eustream, a.s.	2019	PL	SK	144.0 GWh
		eustream, a.s.	2019	SK	PL	174.6 GWh
oonsors		General Informati	on			
stream, a.s.	100%	Promoter	eustream, a.s.	Regulatory		
		Operator	eustream, a.s.			_ '
		Host Country	Slovakia	Market		1
		Status	Planned	Financing		1
		Website	<u>Project's URL</u>			- 1
		Publication Approval Status	Approved			

Page 537 of 620 Current TYNDP : TYNDP 2017 - Annex A Schedule End Date Third-Party Access Regime NDP and PCI Information Start Date Considered TPA Regime Yes (National Development Plan 2016- Pre-Feasibility Regulated Part of NDP 2025) Feasibility 05/2011 07/2013 Considered Tariff Regime Regulated 10.1.2.-PL-SK FEED NDP Number 04/2018 Applied for Exemption 10/2015 No 06/2016 Exemption Granted Market Test No Yes (6.2.1.) Permitting **Currently PCI** 09/2017 08/2015 Exemption in entry direction 0.00% Supply Contracts **CBCA** Decision Yes (2014-11-28) FID Exemption in exit direction 0.00% Open Season(2016-06-01) Market Survey Construction 12/2019 2019 Commissioning 2019 Pipelines and Compressor Stations **Pipeline Section Pipeline Comment** Diameter (mm) Length (km) Compressor Power (MW) Achieving additional compressor power by upgrade of Slovak section 1,000 100 16 compressor station in Veľké Kapušany 100 Total 16 PCI Details Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compared to the situation PCI Benefits prior to the commissioning of the project, Project concerns investment in reverse flow capacity General Criteria Fulfilled Yes Competition, Market Integration, Security of Supply, Sustainability Specific Criteria Fulfilled Specific Criteria Fulfilled Comments Time Schedule

Spot		
	Expected Gas Sourc	ng
Delay Explanation	Waiting for regulatory approvals	
Delay Since Last TYNDP	Yes	
Grant Obtention Date	19/08/2014	

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		Benefits	
Main Driver	Others		
Main Driver Explanation	Incease of SoS in the is currently missing		by constructing a cross-border interconnection between PL and SK that
		adoption of reverse flow capacity from Slovakia towards Ukraine	e is not a member state of the EU, the Project has important impact to e. Furthermore, Ukraine has adopted the Association Agreement with
		Barriers	
Barrier Type	Description		
legulatory	Low rate of return		
inancing	Availability of fund	s and associated conditions	
Market	Lack of market sup	port	
		Intergovernmental Agreements	
Agreement		Agreement Description	Is Signed Agreement Signature Dat
pipeline connecting the stransmission system and transmission system			
			Southern Corridor GRIP 2017–2026 Annex

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		Capacity increase at IP La	nžhot entry			
TRA-N-902		Project		Pipeline including	g CS N	lon-FID
Update Date		25/05/2016	5		A	dvanced
Description	among others developed in t	city increase at IP Lanžhot (Entry - Eust the context of Eastring project, the aim an countries, as well as ensuring securi	is to provide sufficient fut	ture transit capacity fo	r delivery of gas fo	or the region o
Regulatory Decisions similar material cond						
Capacity Increments	Variant For Modelling					
	Variant : 1	Increment at level of 780 G	Wh/d			
Point		Operator	Year	From Gas System	To Gas System	Capacity
Lanžhot		eustream, a.s.	2019	CZ	SK	780.0 GWh,
Capacity Increments	Variant(s) For Information Only					
	Variant : 2	Increment at level of 988GV	Vh/d			
Point		Operator	Year	From Gas System	To Gas System	Capacity
Lanžhot		eustream, a.s.	2020	CZ	SK	988.0 GWh
Sponsors		General Informat	ion			
eustream, a.s.	100%	Promoter	eustream, a.s.			5
		Operator	eustream, a.s.	Regulatory		2 2 Count
		Host Country	Slovakia		_	
		Status	Planned	Market	1	COL
		Website				ng.
		Publication Approval Status	Approved			

ND	PP and PCI Information	Schedule	Start Date	End Date	Third-Party Acces	s Regime
Part of NDP	Yes (National Development Plan 2016-	Pre-Feasibility			Considered TPA Regime	Regulat
Part of NDP	2025)	Feasibility			Considered Tariff Regime	Regulat
NDP Number	10.1.2. Lanžhot	FEED	09/2015	08/2017	Applied for Exemption	
		Market Test		06/2017	Exemption Granted	
Currently PCI	No	Permitting				
		Supply Contracts			Exemption in entry direction	0.0
CBCA Decision	No	FID			Exemption in exit direction	0.00
Market Survey	Not Relevant (no CBCA decision)	Construction				
		Commissioning	2019	2019		
ipelines and Comp	pressor Stations					
	1	ncrement at level of 780 G	GWh/d			
	Pipeline Section	Pipel	ine Comment		Diameter (mm) Length (km) C	Compressor Power (M
Capacity	increase at IP Lanžhot Entry	Capacity inc	crease to 780 GWh/d			
	Т	otal				
Pipelines and Comp	pressor Stations - Alternative Variant					
	2	ncrement at level of 988G	Wh/d			
	2 I Pipeline Section		Wh/d ine Comment		Diameter (mm) Length (km) C	Compressor Power (M
Capacity		Pipel			Diameter (mm) Length (km) C	Compressor Power (M
Capacity	Pipeline Section increase at IP Lanžhot Entry	Pipel	ine Comment		Diameter (mm) Length (km) C	Compressor Power (M
Capacity	Pipeline Section increase at IP Lanžhot Entry	Pipel Capacity inc Total	ine Comment		Diameter (mm) Length (km) C	Compressor Power (M
Capacity ² CI Benefits	Pipeline Section increase at IP Lanžhot Entry T Project changes the cap	Pipel Capacity inc otal Po pability to transmit gas acro	ine Comment crease to 988 GWh/d CI Details oss the borders of the p		es concerned by at least 10%, com	
PCI Benefits	Pipeline Section increase at IP Lanžhot Entry T Project changes the cap prior to the commission	Pipel Capacity inc Total Pi	ine Comment crease to 988 GWh/d CI Details oss the borders of the p		es concerned by at least 10%, com	
	Pipeline Section increase at IP Lanžhot Entry T Project changes the cap prior to the commission filled Yes	Pipel Capacity inc otal Po pability to transmit gas acro	ine Comment crease to 988 GWh/d CI Details oss the borders of the i concerns investment in		es concerned by at least 10%, com	

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	Expected Gas Sourcing
Spot	
	Benefits
Main Driver	Market Demand
Main Driver Explanati	on
Benefit Description	Project is among others 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, namely Balkan countries, as well as ensuring security supplies to Ukraine as well as integration of CEE/SEE region to the developed spot markets.
	Barriers
Barrier Type	Description
Market	Lack of market maturity
Regulatory	Low rate of return
Regulatory	Capacity quotas
	Southern Corridor GRIP 2017–2026 Annex I

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		Eastring - Sloval	kia			
RA-N-628		Project		Pipeline including	g CS N	on-FID
Jpdate Date		25/05/2016			Non-	-Advanced
Description	border, with a new entry IP (exist. pipeline) – via HU, (n and to BG/TR border by uti external border of the EU o	ocated in Slovakia/Ukraine and is essentia at an external border of the EU on the te new pipeline). – from RO to TR – Option lizing existing RO-BG transit assets – Op in the territory of Bulgaria. The project we South-East EU region, (ii) allow access to market.	erritory of Bulgaria in the fo A – new pipeline passing p otion B – new pipeline, pass ould (i) secure supplies in c	Ilowing routing optic production & storage ing 2 production & s ase of RU disruption	ons: – from SK to F area and continuir torage areas and c and therefore it wi	RO – via UA, ng to IP Isaccea ontinuing to a ill increase gas
egulatory Decision imilar material cond	is and					
apacity increments	Variant : Eastring - SK-2	High capacity scenario, star pipeline to new IP at SK-HU		and passing through	SK using new	
Point		Operator	Year	From Gas System	To Gas System	Capacity
		Eastring B.V.	2021	HU/EAR	SK/EAR	570.0 GWh/a
		Comment: New intercon	nection point, New capacity	increment from 4Q 2	025 to the level of 1140 GWh/d.	
		Eastring B.V.	2021	SK/EAR	HU/EAR	570.0 GWh/c
astring Cross-Bord	er HU/EAR <> SK/EAR		2021 nection point, New capacity		HU/EAR	570.0 GWh/o
astring Cross-Bord	er HU/EAR <> SK/EAR				HU/EAR 2025 to the level of	
astring Cross-Bord	er HU/EAR <> SK/EAR	Comment: New intercon	nection point, New capacity	increment from 4Q 2	HU/EAR 2025 to the level of 1140 GWh/d.	570.0 GWh/o
astring Cross-Bord	er HU/EAR <> SK/EAR	Comment: New intercont Eastring B.V.	nection point, New capacity 2025	increment from 4Q 2 HU/EAR	HU/EAR 1025 to the level of 1140 GWh/d. SK/EAR	570.0 GWh/c 570.0 GWh/c
Eastring Cross-Bord	er HU/EAR <> SK/EAR	Comment: New intercont Eastring B.V. Eastring B.V. Eastring B.V. Comment: Connection of East	nection point, New capacity 2025 2025 2021	increment from 4Q 2 HU/EAR SK/EAR SK nsmission system at N	HU/EAR 1025 to the level of 1140 GWh/d. SK/EAR HU/EAR SK/EAR Veľké Kapušany IP	570.0 GWh/c 570.0 GWh/c
		Comment: New intercont Eastring B.V. Eastring B.V. Eastring B.V. Comment: Connection of East	nection point, New capacity 2025 2025 2021 string - SK to existing SK tra	increment from 4Q 2 HU/EAR SK/EAR SK nsmission system at N	HU/EAR 1025 to the level of 1140 GWh/d. SK/EAR HU/EAR SK/EAR Veľké Kapušany IP	570.0 GWh/d 570.0 GWh/d 570.0 GWh/d 570.0 GWh/d
Eastring Cross-Bord		Comment: New intercont Eastring B.V. Eastring B.V. Comment: Connection of East(VK), Eastring B.V. Comment: Connection of East(VK),	nection point, New capacity 2025 2025 2021 string - SK to existing SK tra New capacity increment fro 2021	increment from 4Q 2 HU/EAR SK/EAR SK Insmission system at N om 4Q 2025 to the lev SK/EAR Insmission system at N	HU/EAR 1025 to the level of 1140 GWh/d. SK/EAR HU/EAR SK/EAR Veľké Kapušany IP rel of 1140 GWh/d. SK Veľké Kapušany IP	570.0 GWh/d 570.0 GWh/d 570.0 GWh/d

Eastring SK/EAR <-> Veľké Kapušany	Eastring B.V.	2025	SK/EAR	SK	ge 540 of 620 570.0 GWh/c	
Capacity Increments Variant(s) For Information Only	Easting b.v.	2023	JN/ LAN	JK	570.0 GWII/0	
Variant : Eastring – SK-1	High capacity scenario, startir pipeline to new IP at SK-HU b system					
Point	Operator	Year	From Gas System	To Gas System	Capacity	
	Eastring B.V.	2021	HU/EAR	SK/EAR	570.0 GWh/	
	Comment: New interconne	ction point, New capacity	increment from 4Q 2	2025 to the level of 1140 GWh/d.		
Fosting Cross Border HUL/FAD () SK/FAD	Eastring B.V.	2021	SK/EAR	HU/EAR	570.0 GWh/	
Eastring Cross-Border HU/EAR <> SK/EAR	Comment: New interconnection point, New capacity increment from 4Q 2025 to the level of 1140 GWh/d.					
	Eastring B.V.	2025	HU/EAR	SK/EAR	570.0 GWh/	
	Eastring B.V.	2025	SK/EAR	HU/EAR	570.0 GWh/	
	Eastring B.V.	2021	SK	SK/EAR	570.0 GWh/	
	Comment: Connection of Eastring - SK to existing SK transmission system at Veľké Kapušany IP (VK), New capacity increment from 4Q 2025 to the level of 1140 GWh/d.					
Factoring SK/FAD () Vollas Konstanti	Eastring B.V.	2021	SK/EAR	SK	570.0 GWh/	
Eastring SK/EAR <-> Veľké Kapušany	Comment: Connection of Eastring - SK to existing SK transmission system at Veľké Kapušany IP (VK), New capacity increment from 4Q 2025 to the level of 1140 GWh/d.					
	Eastring B.V.	2025	SK	SK/EAR	570.0 GWh/	
	Eastring B.V.	2025	SK/EAR	SK	570.0 GWh/	
Capacity Increments Variant(s) For Information Only						
Variant : Eastring – SK-3/4	Low capacity scenario, starting to new IP at UA-RO border	g at Veľké Kapušany IP a	t SK-UA border, pas	sing through UA		
Point	Operator	Year	From Gas System	To Gas System	Capacity	
	Eastring B.V.	2021	RO/EAR	UA/EAR	570.0 GWh/	
Factorian Grace Bander PO/FAD at 114/FAD	Comment: New interconnection point at UA/RO border, New capacity increment from 4Q 2025 to the level of 1140 GWh/d.					
Eastring Cross-Border RO/EAR <> UA/EAR	Eastring B.V.	2021	UA/EAR	RO/EAR	342.0 GWh/o	
	Comment: New interconnection point at UA/RO border, New capacity increment from 4Q 2025 to the level of 712 GWh/d. Exit means direction UA->RO.					

urrent TYNDP : TYNDP 2017 - Annex A				Pa	ge 541 of 620
	Eastring B.V.	2025	RO/EAR	UA/EAR	570.0 GWh/d
Eastring Cross-Border RO/EAR <> UA/EAR	Eastring B.V.	2025	UA/EAR	RO/EAR	370.0 GWh/d
		Сол	mment: Exit means	s direction UA->RO	
	Eastring B.V.	2021	SK/EAR	UA/EAR	342.0 GWh/d
	Comment: New interconnection	-		ment from 4Q 2025 as direction SK->UA	
	Eastring B.V.	2021	UA/EAR	SK/EAR	570.0 GWh/d
Eastring Cross-Border UA/EAR <> SK/EAR	Comment: New interconnection	n point at SK-UA border, N	1 5	ment from 4Q 2025 evel of 1140 GWh/d.	
	Eastring B.V.	2025	SK/EAR	UA/EAR	370.0 GWh/d
		Со	mment: Exit mean	ns direction SK->UA	
	Eastring B.V.	2025	UA/EAR	SK/EAR	570.0 GWh/d
	Eastring B.V.	2021	SK	SK/EAR	570.0 GWh/d
	Comment: Connection of Eastri (VK), Ne	ng - SK to existing SK trans w capacity increment from			
	Eastring B.V.	2021	SK/EAR	SK	342.0 GWh/d
Eastring SK/EAR <-> Veľké Kapušany	Comment: Connection of Eastri (VK), New capacity incremen				
	Eastring B.V.	2025	SK	SK/EAR	570.0 GWh/d
	Eastring B.V.	2025	SK/EAR	SK	370.0 GWh/d
		Commen	t: Exit means direc	ction EUS->Eastring.	

Sponsors		General Informat	tion	No Barriers Defined	
Eastring B.V.	100%	Promoter	Eastring B.V.		8
		Operator	Eastring B.V.		rrie
		Host Country	Slovakia		C (C
		Status	Planned		e l
		Website	Project's URL		E
		Publication Approval Status	Approved		

urrent TYNDP : 1	TYNDP 2017 - Annex A					Page 542 of 620
1	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access	s Regime
Part of NDP	Yes (National Development Plan 2016-	Pre-Feasibility			Considered TPA Regime	Not Applicable
Fait OF NDF		Feasibility	05/2016	04/2017	Considered Tariff Regime	Not Applicable
NDP Number	10.1.2. Eastring	FEED			Applied for Exemption	Not Relevant
		Market Test			Exemption Granted	Not Relevant
Currently PCI	Yes (6.25.1)	Permitting				
		Supply Contracts			Exemption in entry direction	0.00%
CBCA Decision	No	FID			Exemption in exit direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	Construction			·	
		Commissioning	2021	2025		

Eastring - SK-2	High capacity scenario, starting at Veľké Kapušany IP and passing through SK using new pipeline to new IP at SK-HU border			
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
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 2023, compressor power at level of 93 MW will be needed	1,400	19	52
	Total		19	52
nes and Compressor Stations - Alternative Va	riant			
Eastring – SK-1	High capacity scenario, starting at Veľké Kapušany IP and passing through SK using new pipeline to new IP at SK-HU border with following continuance to RO and BG existing system			
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Eastring-SK-1	Data refers to the first stage - capacity 570 GWh/d for new route via SK, HU and partly RO and existing route via RO & BG, in case of increase of capacity up to 1140 GWh/d in 2023, compressor power at level of 90 MW will be needed	1,400	19	42
	Total		19	42

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Pipelines and Compressor Stations - Alternative Variant

Eastring – SK-	-5/4	UA border, passing through UA to new IP at UA-RO bor	der		
Pipeline Secti	ion	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW
Eastring-SK-3/4		Total length of used pipeline - 113 km	1,400	0	0
	-	Fotal		0	0
		PCI Details			
Project changes the capability to transmit gas across the borders of the member states concerned by at least 10%, compared to the situat prior to the commissioning of the project, Project concerns investment in reverse flow capacity				mpared to the situation	
General Criteria Fulfilled	Yes	<u> </u>			

Expected Gas Sourcing

Caspian Region, Norway, Russia, LNG (TR), 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.
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, Irac Egypt, Israel, Cyprus, Turkey, etc.

B Slovenia

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TRA-N-390		Project		Pipeline including	g CS 🛛 🔊	lon-FID	
Update Date		22/05/201	6		A	Advanced	
Description		ameters of the transmission system o rt of the PCI 6.26 Cluster Croatia - Slo		ng the transmission ca	apacity and enablir	ng bidirectional	
Regulatory Decisions and similar material condition	s						
Capacity Increments Varia Point	ant For Modelling	Operator	Year	From Gas System	To Gas System	Capacity	
		Plinovodi d.o.o.	2020	HR	SI	165.0 GWh/0	
Rogatec		Plinovodi d.o.o.	2020	SI	HR	165.0 GWh/	
Sponsors		General Informa	tion	No Ba	arriers Defined		
Plinovodi	100%	Promoter	Plinovodi d.o.o.			Ba	
		Operator	Plinovodi d.o.o.			Barriers (Count	
		Host Country	Slovenia			S (C	
		Status	Planned			<u>e</u>	
		Website	Project's URL			E	
		Publication Approval Status	Approved				
		Enabled Projec	ts				
Project Code Project Na	2120						

N	DP and PCI Information	Schedule	Start Date	End Date	Tł	nird-Party Acc	ess Regime	
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA R	Regime	F	Regulated
NDP Number	C12	Feasibility			Considered Tariff	Regime	F	Regulated
		FEED	01/2018	11/2019	Applied for Exem	ption		N
Currently PCI	Yes (6.26.6)	Market Test			Exemption Grante	ed		N
		Permitting	12/2015	10/2019				
CBCA Decision	No	Supply Contracts			Exemption in entr	y direction		0.00%
Market Survey	Not Relevant (no CBCA decision)	FID		01/2018	Exemption in exit	direction		0.00%
		Construction	01/2019	12/2020				
		Commissioning	2020	2020				
Pipelines and Com	npressor Stations							
	Pipeline Section		Pipeline Comment		Diameter (mm)	Length (km)	Compressor Pow	er (MW
Upgrade	e of Rogatec interconnection	Т	he length is 3.8 km.		800	4		
	Т	otal				4		
			PCI Details					
PCI Benefits	Project concerns investr	nent in reverse flow c	apacity					
General Criteria Fu	Ifilled Yes							

Specific Criteria FulfilledMarket Integration, Security of SupplySpecific Criteria Fulfilled Comments

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

Current TYNDP : TYNDP 2017 - Annex A Page 528 of 620 M6 Ajdovščina – Lucija TRA-N-365 Pipeline including CS Non-FID Project 22/05/2016 Non-Advanced Update Date Connecting the DSO in the municipalities of Izola, Piran, Sežana, Divača and Herpelje-Kozina. Connection to the M3 pipeline and R61 pipeline. Description **Regulatory Decisions and** similar material conditions Sponsors **General Information** No Barriers Defined Plinovodi d.o.o. 100% Plinovodi d.o.o. Promoter **Barriers** (Count) Plinovodi d.o.o. Operator Host Country Slovenia Status Planned Project's URL Website Publication Approval Status Approved **Enabled Projects** Project Code Project Name M6 Interconnection Osp **TRA-N-107** R61 Dragonja - Izola TRA-N-114

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regir	me
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	A15	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2019	2019		

Pipelines and Compressor Stations				
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km)	Compressor Power (MW)
M6 Ajdovščina - Lucija		250	69	
Total			69	

		Benefits
Main Driver	Market Demand	
Main Driver Explana		
Benefit Description		

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Jpdate Date		22/05/201			
Up		22/05/201	6		Non-Advanced
		erational pressure in existing M1/1 and ompressor power for the PCI 6.26 Clu			Γhe project aims to
Regulatory Decisions and imilar material conditions					
Sponsors		General Informa	tion	No Barriers Define	d
linovodi	100%	Promoter	Plinovodi d.o.o.		
		Operator	Plinovodi d.o.o.		
		Host Country	Slovenia		
		Status	Planned		
		Website	<u>Project's URL</u>		2
		Publication Approval Status	Approved		
		Enabled Project	ts		

NDF	P and PCI Information	Schedule	Start Date	End Date	Third-Party Acc	ess Regime
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulate
NDP Number	С5	Feasibility			Considered Tariff Regime	Regulate
		FEED	01/2018	11/2019	Applied for Exemption	N
Currently PCI	Yes (6.26.2)	Market Test			Exemption Granted	Ν
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.009
Market Survey	Not Relevant (no CBCA decision)	FID		01/2018	Exemption in exit direction	0.009
		Construction	01/2019	12/2020		
		Commissioning	2020	2020		
Pipelines and Comp	Pipeline Section	Pipe	line Comment		Diameter (mm) Length (km)	Compressor Power (MV
CS Kidriče	evo, 2nd phase of upgrade	Up to three compressor	units with total power MW.	r of up to 30	_	30
	Т	otal				30
		Р	CI Details			
PCI Benefits	Project concerns investr	nent in reverse flow capac	city			
General Criteria Fulfil	lled Yes					
Specific Criteria Fulfil	lled Market Integration, Secu	irity of Supply				
Specific Criteria Fulfil	lled Comments					

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

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M3 pipeline reconstruction from CS Ajdovščina to Šempeter/Gorizia

RA-N-108		Project		Pipeline including	g CS N	lon-FID
pdate Date		22/05/20	16		Non	-Advanced
Description Interconne	ctor with the Italian TSO.	Adjustment to operating para	ameters of the transmission s	ystem of the Italian T	SO.	
Regulatory Decisions and						
imilar material conditions						
Capacity Increments Variant For Modelli	ng					
Point		Operator	Year	From Gas System	To Gas System	Capacity
Gorizia (IT) /Šempeter (SI)		Plinovodi d.o.o.	2020	IT	SI	35.5 GWh/d
		Plinovodi d.o.o.	2020	SI	IT	38.0 GWh/d
ponsors		General Inform	ation	No Ba	rriers Defined	
linovodi	100% Prom	oter	Plinovodi d.o.o.			Ba
	Opera	ator	Plinovodi d.o.o.			rrier
		Country	Slovenia			s (Co
	Statu		Planned			Barriers (Count)
	Webs		<u>Project's URL</u>			-
	Public	cation Approval Status	Approved			100 get

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NE	DP and PCI Information	Schedule	Start Date	End Date	Third-Party Access	s Regime
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	C2	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2020	2020		
Pipelines and Com	pressor Stations					
	Pipeline Section		Pipeline Comment		Diameter (mm) Length (km) C	ompressor Power (MW)

M3 pipeline reconstruction from CS Ajdovščina to Šempeter/Gorizia	500	31
Total		31

	Benefits					
Main Driver	Others					
Main Driver Explanation	Main Driver Explanation Adjustment of IP boundary conditions (pressure).					
Benefit Description						

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		R15/1 Pince - Lendava -	Kidričevo			
TRA-N-112		Project		Pipeline including	g CS N	on-FID
Update Date		22/05/2010	5		Non-	Advanced
Description for Sloveni	an gas suppliers, e	mission system of the Hungarian TSO nabling access to LNG terminals in no nection (Nagykanizsa - Tornyiszentmik	rthern Adriatic and other g	as sources for Hunga		
Capacity Increments Variant For Modelli	ng					
Point		Operator	Year	From Gas System	To Gas System	Capacity
ince (SI) / Tornyszentmiklos (HU)		Plinovodi d.o.o.	2020	HU	SI	38.1 GWh/
		Plinovodi d.o.o.	2020	SI	HU	38.1 GWh/
ponsors linovodi	100%	General Informat Promoter Operator Host Country Status Website Publication Approval Status	tion Plinovodi d.o.o. Plinovodi d.o.o. Slovenia Planned <u>Project's URL</u> Approved	Permit Granting		1 1
						I
				Southe	rn Corridor GRIP 203	7–2026 Anr

NI	DP and PCI Information	Schedule	Start Date	End Date	т	hird-Party Aco	Page 520 of 620
Part of NDP	Yes (TYNDP for the period 2016-2025)				Considered TPA F		Regulate
NDP Number		Feasibility			Considered Tariff	0	Regulate
		FEED	01/2018	11/2019	Applied for Exem		Δ
Currently PCI	Yes (6.23)	Market Test		09/2017	Exemption Grante	ed	٨
		Permitting					
CBCA Decision	No	Supply Contracts			Exemption in ent	ry direction	0.00
Market Survey	Not Relevant (no CBCA decision)	FID		01/2018	Exemption in exit	direction	0.00
		Construction	06/2019	12/2020			
		Commissioning	2020	2020			
R15/1	Pipeline Section Pince - Lendava - Kidričevo	· · ·	line Comment		500	73	Compressor Power (M)
		otal				73	4
PCI Benefits	Decised even since t		CI Details				
General Criteria Ful		ment in reverse flow capao	lity				
Specific Criteria Ful		urity of Supply, Sustainabi	114.7				
Specific Criteria Ful		unty of Supply, Sustainabl	iity				
opeenie entend i di							
			ed Gas Sourcing				
_		s Israel Austria UGS in H	ungary				
Algeria, Caspian Re	egion, Russia, Qatar, Egypt, Nigeria, Cypru						
Algeria, Caspian Re	egion, Russia, Qatar, Egypt, Nigeria, Cypru		Benefits				

Main Driver Explanation Also essential contribution to Security of supply.

Benefit Description

		Barriers		Page 521 of 62
Barrier Type	Description			
Permit Granting		omplicated procedures of Spatial planning (National Spatial ring the Construction permit (long procedures for land acqu		consent) as well as the
		Intergovernmental Agreeme	nts	
Agreement		Agreement Description		ed Agreement Signature Da
1emorandum of Un	derstanding (MOU)		Yes	27/11/2009
			Southern C	Corridor GRIP 2017–2026 An

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Upgrade of Murfeld/Ceršak interconnection (M1/3 Interconnection Ceršak) TRA-N-389 Pipeline including CS Project Non-FID Non-Advanced 22/05/2016 Update Date Adjustment to operating parameters of the transmission system of the Austrian TSO, increasing the transmission capacity and enabling bidirectional Description operation. The project is a part of the PCI 6.26 Cluster Croatia - Slovenia - Austria at Rogatec. **Regulatory Decisions and** similar material conditions Capacity Increments Variant For Modelling Point Operator Year From Gas System To Gas System Capacity Plinovodi d.o.o. 2020 AT SI 78.7 GWh/d Murfeld (AT) / Ceršak (SI) SI Plinovodi d.o.o. 2020 AT 165.0 GWh/d Sponsors **General Information** No Barriers Defined Plinovodi 100% Promoter Plinovodi d.o.o. Barriers (Count) Plinovodi d.o.o. Operator Host Country Slovenia Status Planned Website Project's URL Approved **Publication Approval Status Enabled Projects** Project Name Project Code **TRA-N-094** CS Kidričevo, 2nd phase of upgrade TRA-N-390 Upgrade of Rogatec interconnection (M1A/1 Interconnection Rogatec)

Current	TYNDP	•	TYNDP	2017	- Annex A
Current		٠		2017	AIIIICAA

NDF	P and PCI Information	Schedule	Start Date	End Date	Third-Party Acc	ess Regime
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	C4	Feasibility			Considered Tariff Regime	Regulated
		FEED	01/2018	11/2019	Applied for Exemption	No
Currently PCI	Yes (6.26.5)	Market Test		09/2017	Exemption Granted	Ne
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID		01/2018	Exemption in exit direction	0.00%
		Construction	01/2019	12/2020		
		Commissioning	2020	2020		
Pipelines and Comp	ressor Stations Pipeline Section		2020 Pipeline Comment	2020	Diameter (mm) Length (km)	Compressor Power (MW
1		F		2020	Diameter (mm) Length (km) 800 0	Compressor Power (MW)
1	Pipeline Section Iurfeld/Ceršak interconnection	F	Pipeline Comment	2020	-	Compressor Power (MW)
1	Pipeline Section Iurfeld/Ceršak interconnection	F Pip	Pipeline Comment	2020	800 0	Compressor Power (MW)
1	Pipeline Section Iurfeld/Ceršak interconnection	F Pip Dtal	Pipeline Comment beline length: 160m. PCI Details	2020	800 0	Compressor Power (MW
Upgrade of M	Pipeline Section Aurfeld/Ceršak interconnection To Project concerns investm	F Pip Dtal	Pipeline Comment beline length: 160m. PCI Details	2020	800 0	Compressor Power (MW
Upgrade of M PCI Benefits	Pipeline Section Aurfeld/Ceršak interconnection To Project concerns investm lled Yes	F Pip otal nent in reverse flow ca	Pipeline Comment beline length: 160m. PCI Details	2020	800 0	Compressor Power (MW)

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

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		CS Ajdovščina, 1	st phase of upgrade		
RA-N-092		Project		Pipeline including CS	Non-FID
lpdate Date			22/05/2016		Non-Advanced
escription	Adjustment to the operating p	parameters of the transmis	sion system of the Italian TSO a	nd increasing the transmission capac	ity.
egulatory Decision imilar material con					
ponsors		Genera	al Information	No Barriers Define	ed
linovodi	100%	Promoter	Plinovodi d.o.	0.	8
		Operator	Plinovodi d.o.	0.	arriers (Count)
		Host Country	Sloven	ia	s (C
		Status	Planne	ed	oun
		Website	<u>Project's UI</u>	<u>RL</u>	æ
		Publication Approval Stat	us Approve	ed	
		English			
		Enap	ed Projects		
roject Code Proj	ect Name	Enab	ed Projects		
	ect Name pipeline reconstruction from CS Ajdovšči		ed Projects		
RA-N-108 M3			ed Projects Start Date End Da	te Third-Party Acces	ss Regime
RA-N-108 M3	pipeline reconstruction from CS Ajdovšči	na to Šempeter/Gorizia Schedule		te Third-Party Acces Considered TPA Regime	ss Regime Regulate
RA-N-108 M3 M	pipeline reconstruction from CS Ajdovšči P and PCI Information Yes (TYNDP for the period 2016-2025)	na to Šempeter/Gorizia Schedule			
RA-N-108 M3 (ND Part of NDP	pipeline reconstruction from CS Ajdovšči P and PCI Information Yes (TYNDP for the period 2016-2025)	na to Šempeter/Gorizia Schedule Pre-Feasibility		Considered TPA Regime	Regulate Regulate
RA-N-108 M3 (ND Part of NDP	pipeline reconstruction from CS Ajdovšči P and PCI Information Yes (TYNDP for the period 2016-2025) C1	na to Šempeter/Gorizia Schedule Pre-Feasibility Feasibility		Considered TPA Regime Considered Tariff Regime	Regulate Regulate N
RA-N-108 M3 (ND Part of NDP NDP Number	pipeline reconstruction from CS Ajdovšči P and PCI Information Yes (TYNDP for the period 2016-2025) C1	na to Šempeter/Gorizia Schedule Pre-Feasibility Feasibility FEED		Considered TPA Regime Considered Tariff Regime Applied for Exemption	Regulate Regulate N
RA-N-108 M3 (ND Part of NDP NDP Number	pipeline reconstruction from CS Ajdovšči P and PCI Information Yes (TYNDP for the period 2016-2025) C1 No	na to Šempeter/Gorizia Schedule Pre-Feasibility Feasibility FEED Market Test		Considered TPA Regime Considered Tariff Regime Applied for Exemption	Regulate
RA-N-108 M3 (ND Part of NDP IDP Number Currently PCI	pipeline reconstruction from CS Ajdovšči P and PCI Information Yes (TYNDP for the period 2016-2025) C1 No	na to Šempeter/Gorizia Schedule Pre-Feasibility Feasibility FEED Market Test Permitting Supply Contracts		Considered TPA Regime Considered Tariff Regime Applied for Exemption Exemption Granted	Regulati Regulati I
RA-N-108 M3 (ND Part of NDP IDP Number Currently PCI	pipeline reconstruction from CS Ajdovšči P and PCI Information Yes (TYNDP for the period 2016-2025) C1 No	na to Šempeter/Gorizia Schedule Pre-Feasibility Feasibility FEED Market Test Permitting Supply Contracts		Considered TPA Regime Considered Tariff Regime Applied for Exemption Exemption Granted Exemption in entry direction	Regulat Regulat I 0.00

rrent TYNDP : T	YNDP 2017 - Annex A			Page 506 of 6
Pipelines and Com	npressor Stations			
	Pipeline Section	Pipeline Comment	Diameter (mm) Length (km)	Compressor Power (I
CS Ajdo	ovščina, 1st phase of upgrade	Power up to 5 MW.		5
	Total			5
		Benefits		
lain Driver	Market Demand			
Main Driver Explan	nation			
Benefit Descriptior				
			Southern Corrido	or GRIP 2017–2026 A

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		CS Ajdovščina, 2n	d phase of upgrade			
TRA-N-093		Project		Pipeline including CS	Non-FID	
Update Date		22	2/05/2016		Non-Advanced	
Description Regulatory De similar materi	ecisions and	ss-border transmission. The projec	ct is connected to projects M8, M3	3/1a, M3/1b and M3/1c.		
Sponsors		General	Information	No Barriers Defined		
Plinovodi	10	00% Promoter	Plinovodi d.o.o.		Ba	
		Operator	Plinovodi d.o.o.		Barriers (Count)	
		Host Country	Slovenia		s (C	
		Status	Planned		nno	
		Website	<u>Project's URL</u>		đ	
		Publication Approval Statu	s Approved		1. Sec. 10	
		Enable	d Projects			
Project Code	Project Name					
TRA-N-262	M3/1b Ajdovščina - Kalce					
FRA-N-261	M3/1c Kalce - Vodice					
FRA-N-101	M8 Kalce - Jelšane					
TRA-N-099	M3/1a Šempeter - Ajdovščina					

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N	IDP and PCI Information	Schedule	Start Date	End Date	Third-Party Acc	ess Regime
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	C1	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2022	2022		
Pipelines and Con	npressor Stations					
1	Pipeline Section		Pipeline Comment		Diameter (mm) Length (km)	Compressor Power (MW)
CS Ajdo	ovščina, 2nd phase of upgrade	Two compressor u	nits with total power of up t	to 20 MW.		20

	Benefits	
Main Driver	Market Demand	
Main Driver Explana	anation	
Main Driver Explana Benefit Description		

Total

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		M3/1a Šempeter - Aj	jdovščina			
TRA-N-099		Project		Pipeline including CS		
Update Date		22/05/201	16		Non	-Advanced
Description		n TSO, LNG North Adriatic, cross-bor Išane and CS Ajdovščina, 2nd phase o		ct is connected to M3/	1b Ajdovščina - K	alce, M3/1c
Regulatory De similar materi	cisions and	isane and es Ajdovsenia, zna phase e				
Capacity Incre	ments Variant For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
		Plinovodi d.o.o.	2022	IB-ITn	SI	340.0 GWh/d
Corizia (IT) /Š	empeter (SI) (Planned)		Comment: Increme	ntal capacity would be	up to 340 GWh/d	
GUIIZIA (11) / 3	empeter (SI) (Planned)	Plinovodi d.o.o.	2022	SI	IB-ITn	340.0 GWh/d
			Comment: Increment	tal capacity would be	up to 340 GWh/d.	
Sponsors		General Informa	ation			
Plinovodi	100%	Promoter	Plinovodi d.o.o.			8
_		Operator	Plinovodi d.o.o.			Barriers (Count)
		Host Country	Slovenia	Permit Granting		1 0
		Status	Planned			e e
		Website	Project's URL			rt)
		Publication Approval Status	Approved			
		Enabled Projec	ts			
Project Code	Project Name					
TRA-N-261	M3/1c Kalce - Vodice					
TRA-N-101	M8 Kalce - Jelšane					
TRA-N-093	CS Ajdovščina, 2nd phase of upgrade					
TRA-N-262	M3/1b Ajdovščina - Kalce					

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NDI	P and PCI Information	Schedule	Start Date	End Date	Third-Party Ace	cess Regime
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	С7	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2022	2022		
Pipelines and Comp	pressor Stations					
	Pipeline Section		Pipeline Comment		Diameter (mm) Length (km)	Compressor Power (MW)
M3/1a	a Šempeter - Ajdovščina				1,100 30	
	Т	otal			30	

	Benefits
Main Driver	Market Demand
Main Driver Explanati	on
Benefit Description	
	Barriers

	Barners
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.)

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		M3/1c Kal	lce - Vodice			
FRA-N-261		Project		Pipeline including CS	Non-FID	
Update Date		22	2/05/2016		Non-Advanced	
Description		ian TSO, LNG North Adriatic, cı e - Jelšane and CS Ajdovščina,		ject is connected to M3/1a Šemp	eter - Ajdovščina, M3/1	
Regulatory De similar materi						
Sponsors		General	Information			
Plinovodi	100%	Promoter	Plinovodi d.o.o.		Bar	
		Operator	Plinovodi d.o.o.		arriers (Count)	
		Host Country	Slovenia	Permit Granting	1 🖸	
		Status	Planned		en our	
		Website	<u>Project's URL</u>		ť	
		Publication Approval Status	S Approved			
		Enable	d Projects			
Project Code	Project Name					
TRA-N-099	M3/1a Šempeter - Ajdovščina					
TRA-N-101	M8 Kalce - Jelšane					
TRA-N-093	CS Ajdovščina, 2nd phase of upgrade					
TRA-N-262	M3/1b Ajdovščina - Kalce					

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	NDP and PCI Information		Start Date	End Date	Third-Party Access Regi	me
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	С9	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2022	2022		

Pipelines and Compressor Stations								
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km) Compressor Power (MW)					
M3/1c Kalce - Vodice		1,100	47					
Total			47					

	Benefits
Main Driver	Market Demand
Main Driver Explanati	on
Benefit Description	
	Barriers

	Dairiers
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.)

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		M3/1b Ajdovščina			
TRA-N-262		Project		Pipeline including CS	Non-FID
Update Date		22/05/20	016		Non-Advanced
Description		ilian TSO, LNG North Adriatic, cross-bo Jelšane and CS Ajdovščina, 2nd phase		ject is connected to M3/1a Šemp	eter - Ajdovščina, M3/1
Regulatory De similar materi	ecisions and				
Sponsors		General Inform	nation		
Plinovodi	1009	% Promoter	Plinovodi d.o.o.		Ba
		Operator	Plinovodi d.o.o.		1 (Count)
		Host Country	Slovenia	Permit Granting	1 🖸
		Status	Planned		
		Website	Project's URL		ē
		Publication Approval Status	Approved		
		Enabled Proje	ects		
Project Code	Project Name				
TRA-N-099	M3/1a Šempeter - Ajdovščina				
TRA-N-101	M8 Kalce - Jelšane				
TRA-N-093	CS Ajdovščina, 2nd phase of upgrade				
TRA-N-261	M3/1c Kalce - Vodice				

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N	NDP and PCI Information		Start Date	End Date	Third-Party Access Regi	me
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	C8	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2022	2022		

Pipelines and Compressor Stations							
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km) Compressor Pow	ver (MW)			
M3/1b Ajdovščina - Kalce		1,100	24				
Total			24				

	Benefits
Main Driver	Market Demand
Main Driver Explanatio	n
Benefit Description	
	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.)

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		M8 Kalce - Jelšane				
TRA-N-101		Project		Pipeline including	g CS N	lon-FID
Update Date		22/05/2016			Non	-Advanced
Description		mission system of the Croatian TSO, LNG I	North Adriatic, as well	as connection of new	municipalities. Cro	oss-border
Regulatory Decisions and	transmission.					
similar material conditions						
Capacity Increments Variant	t For Modelling					
Point		Operator	Year	From Gas System	To Gas System	Capacity
Rupa (HR) / Jelšane (SI)		Plinovodi d.o.o.	2022	HR	SI	414.0 GWh,
		Plinovodi d.o.o.	2022	SI	HR	414.0 GWh
Sponsors		General Information				
linovodi	100%	Promoter	Plinovodi d.o.o.			2
1		Operator	Plinovodi d.o.o.			
		Host Country	Slovenia	Permit Granting		1
		Status	Planned			1 1
		Website	<u>Project's URL</u>			5
		Publication Approval Status	Approved			
						_
				Souther	rn Corridor GRIP 20	17–2026 Anr

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٢	NDP and PCI Information		Start Date	End Date	Third-Party Access Reg	gime
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	C10	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2022	2022		

Pipelines and Compressor Stations			
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km) Compressor Power (MW)
M8 Kalce - Jelšane		1,200	60
Total			60

	Benefits
Main Driver	Market Demand
Main Driver Explanation	n
Benefit Description	
	Barriers

	Darrers
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.)

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		M6 Interconnectio	on Osp				
FRA-N-107		Project	Pipeline including	g CS 🛛 🔊	Non-FID		
Jpdate Date		22/05/201	6		Non	Non-Advanced	
Description	New IP Osp with the transmis	ssion system of the Italian TSO. Previo	ously as M6 Ajdovščina-Luci	a, 1st phase.			
egulatory Decisions and imilar material conditions							
Capacity Increments Variant	For Modelling						
Point	10	Operator	Year	From Gas System	To Gas System	Capacity	
San Dorligo della Valle (IT) /	'Osp (SI)	Plinovodi d.o.o.	2022	IT	SI	6.1 GWh/c	
ponsors		General Information		No Ba	rriers Defined	ed	
Plinovodi	100%	Promoter	Plinovodi d.o.o.			Da	
1		Operator	Plinovodi d.o.o.			parriers (count)	
		Host Country	Slovenia			ste	
		Status	Planned			ou o	
		Website				5	
		Publication Approval Status	Approved				
						I	
				Souther	n Corridor GRIP 20	17–2026 Anr	

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regime	
	No (The project is not included in the	Pre-Feasibility			Considered TPA Regime	Regulated
	currently valid and confirmed NDP (2016-	Feasibility			Considered Tariff Regime	Regulated
	2025), but it was included in the previous one (2015-2024) and it will also be	FEED			Applied for Exemption	No
Part of NDP	included in the new one, which is in	Market Test			Exemption Granted	No
	preparation (TYNDP 2017-2026) and will	Permitting				
	be confirmed by our regulator expectedly in the next months.)	Supply Contracts			Exemption in entry direction	0.00%
NDP Number	an the next months.)	FID			Exemption in exit direction	0.00%
NDI Number		Construction				
Currently PCI	No	Commissioning	2022	2022		
CBCA Decision	No					
Market Survey	Not Relevant (no CBCA decision)					

Pipelines and Compressor Stations			
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km) Compressor Power (MW)
M6 Interconnection Osp	The length is approximately 1.2 km.	250	1
	Total		1

Benefits					
Market Demand					
n					

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		R61 Dragonja - I	zola			
TRA-N-114		Project		Pipeline including	g CS	Non-FID
Update Date		24/05/201	6		Noi	n-Advanced
Description	Interconnector with the trans	mission system of the Croatian TSO.	New IP Sečovlje (SI) / Plovar	nija (HR).		
Regulatory Decisions and similar material conditions						
Capacity Increments Variant I	For Modelling					
Point		Operator	Year	From Gas System	To Gas System	
Sečovlje (SI) / Plovanija (HR)		Plinovodi d.o.o.	2024	HR	SI	5.1 GWh/d
		Plinovodi d.o.o.	2024	SI	HR	5.1 GWh/d
Sponsors		General Informa	ation	No Ba	rriers Defined	
Plinovodi	100%	Promoter	Plinovodi d.o.o.			B
		Operator	Plinovodi d.o.o.			Barriers (Count)
		Host Country	Slovenia			() sı
		Status	Planned			le le
		Website	Project's URL			Ð
		Publication Approval Status	Approved			
				Southe	rn Corridor GRIP 2	017–2026 Anne

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	NDP and PCI Information	Schedule	Start Date	End Date	Third-Party Access Regi	me
Part of NDP	Yes (TYNDP for the period 2016-2025)	Pre-Feasibility			Considered TPA Regime	Regulated
NDP Number	C11	Feasibility			Considered Tariff Regime	Regulated
		FEED			Applied for Exemption	No
Currently PCI	No	Market Test			Exemption Granted	No
		Permitting				
CBCA Decision	No	Supply Contracts			Exemption in entry direction	0.00%
Market Survey	Not Relevant (no CBCA decision)	FID			Exemption in exit direction	0.00%
		Construction				
		Commissioning	2024	2024		

Pipelines and Compressor Stations			
Pipeline Section	Pipeline Comment	Diameter (mm)	Length (km) Compressor Power (MW)
R61 Dragonja - Izola		300	10
	Total		10

	Benefits					
Main Driver	Market Demand					
Main Driver Explanati	tion					
Benefit Description						



ENTSOG AISBL

Avenue de Cortenbergh 100 1000 Brussels, Belgium Tel. +32 2 894 51 00

info@entsog.eu www.entsog.eu