

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Trans-Adriatic Pipeline (TAP)		10 bcm/y	2020	2003	2006-2007	03/2013	12/2013	2016	05/2016	12/2019	Capacity can be expanded up to 20 bcm/y. Such expansion is subject to an economically and technically feasible outcome of a market test.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Interconnector Greece – Bulgaria (IGB)		3 bcm/y	2018			03/2016	12/2015	11/2016	12/2016	3Q 2018	Possibility for future upgrade to 5 bcm/y by installation of compressor capacity

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Interconnector Bulgaria – Serbia (IBS)	Phase 1 (BG)	BG to RS: 1.0 (1.8) bcm/y	12/2018	02/2011	12/2012	03/2016	03/2016	08/2016	08/2016	12/2018	Phase 1 refers to a single pipe Nis – Dimitrovgrad of 108 km. BG/RS timelines to be harmonised in the MoU expected in 2Q2016. According to the joint BG/RS roadmap, the capacity (incl. reverse capacity) of the pipeline will be increased in Phase 2 (2020) and Phase 3 (2024).
	Phase 1 (RS)	RS to BG: 0.15 bcm/y	10/2019		12/2011	06/2017		09/2017	02/2018	10/2019	

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Phased Bulgarian system reinforcement	Stage 1 of modernisation of compressor stations		05/2016						09/2014	05/2016	Actions in progress in the period 2013 - 2016
	Stage 2 of modernisation of compressor stations		06/2020		08/2017	11/2018	11/2018	11/2018	11/2018	11/2020	Further modernization of CS Lozenets, CS Ihtiman and CS Petrich
	Rehabilitation and replacement of gas pipeline sections, 81 km, DN 700		11/2020			12/2017	12/2017	12/2017	01/2018	11/2020	
	New gas pipeline Gorni Bogrov – Novi Iskar, 19 km, DN 700 and compressor station, 20 MW		11/2020	12/2016	06/2017	11/2018	11/2018	11/2018	11/2018	11/2020	Conditional infrastructure required for Phase 2 of the IBS project
	Conduction of planned inspections		11/2018						04/2015	11/2018	Planned as a staged process; started in 2015 and projected till 2018

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Phased Romanian system reinforcement	BRUA Phase 1: Stage 1 of the Romanian South Corridor	1.75 bcm/y	12/2019	12/2013	09/2015	09/2016 (pipeline) 01/2017 (CS)	06/2016	02/2017	08/2017	12/2019	

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
LNG terminal in Croatia		5 bcm/y with phasing potential	10/2019		01/2014	12/2015	10/2016	07/2016	11/2016	06/2019	

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
LNG evacuation system towards Hungary	Pipeline section Zlobin-Kozarac	10 bcm/y (4.5 towards HU)	12/2019		08/2016	07/2017	07/2017	04/2018	07/2018	12/2019	
	Pipeline section Kozarac-Slobodnica	6.5 bcm/y (10 towards HU)	12/2023		08/2016	12/2020	01/2021	06/2021	07/2022	12/2023	

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Connection of off-shore Romanian gas to the Romanian system and further reinforcement of the Romanian system	BRUA Phase 2: Stage 2 of the Romanian South Corridor	4.4 bcm/y	2020	12/2013	09/2015	09/2016 (pipeline) 01/2017 (CS)	06/2017	02/2017	2019	2020	
	Black Sea – Podisor pipeline	6.0 bcm/y	2020	08/2014	01/2016	03/2017	06/2017	03/2017	2018	2020	

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Interconnector Croatia – Serbia	Construction of the pipeline Slobodnica – Sotin – Bačko Novo Selo	6-7 bcm/y	12/2023			12/2020	01/2021	06/2021	07/2022	12/2023	

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
New Greek LNG terminal		6.1 bcm/y	06/2018	12/2010	06/2014	12/2016	12/2016	01/2015	04/2017	05/2018	The official name of the project according to the 2015 PCI list (reg.2016/89) is “LNG terminal in northern Greece”

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Interconnector Bulgaria – Romania (IBR)	Construction of Ruse GMS	1.5 bcm/y	12/2016						08/2012	08/2014	
	Land section on the BG territory								08/2012	08/2014	
	Land section on the RO territory and Giurgiu GMS								06/2011	05/2013	
	Danube crossing								04/2016	12/2016	

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Interconnector Romania – Republic of Moldova (Iasi-Ungheni) expansion		1.5 bcm/y	06/2018	01/2014	01/2016	08/2016 (pipeline) 05/2017 (CS)		08/2016 (pipeline) 05/2017 (CS)	10/2016	12/2018	

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Physical reverse flow Romania – Ukraine (at inter-connection point Isaccea)		2.2 bcm/y	2019	01/2015						2019	

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Compressor station in Kipi, Greece and reinforcement of Greek system	Compressor station in Kipi	2-11 bcm/y	2020								
	Metering and Regulating Station at Nea Mesimvria for the connection of the Greek transmission system with TAP	At least 3.65 bcm/y	2019				2017	2017	2017	2019	
	Komotini Metering and Regulating Station										

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Reinforcement of the Hungarian network	Csanádpalota CS Phase I	RO/HU 1.75 bcm/y	10/2020	06/2014	07/2017	06/2018	05/2017	09/2018	10/2018	09/2020	The project "Romanian-Hungarian reverse flow: Hungarian section" contains 3 CSs at Csanádpalota. With the first two CS in Csanádpalota, 1.75 bcm/y capacity could be ensured at the RO/HU IP, the third CS will enable 4.4 bcm/y capacity. The related IPs capacities depend on RO and AT developments.
		HU/AT 0 bcm/y									
	Városföld-Ercsi-Győr pipeline and Városföld CS and Csanádpalota CS Phase II	RO/HU 4.4 bcm/y	12/2022	06/2014	07/2017	04/2020	10/2018	04/2020	03/2021	12/2022	
		HU/AT 5.2 bcm/y	12/2022	06/2014	07/2017	04/2020	10/2018	04/2020	03/2021	12/2022	

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Interconnector Slovenia – Hungary	SI: R15/1 Pince – Lendava – Kidričevo	38.1 GWh/d; 1.31 bcm/y (LF=1), 1.04 bcm/y (LF=0.8)	12/2020	04/2010	12/2017	06/2019	12/2017	12/2019	06/2019	12/2020	
	HU: Hungary-Slovenia inter-connection (Nagykanizsa – Tornyiszentmiklós)	Up to 38.1 GWh/d	12/2020	12/2015 (update)	12/2017	11/2019	02/2018	10/2017	09/2019	12/2020	

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Firm capacity upgrade on the interconnector Hungary – Ukraine	HU-UA reverse flow	6.1 bcm/y									

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Reverse flow on the Slovenia – Austria interconnector (from Slovenia to Austria)	SI: Upgrade of Murfeld/ Ceršak inter-connection	5.64 bcm/y (LF=1); 4.51 bcm/y (LF=0.8)	12/2020		10/2008	12/2017	12/2017	12/2019	01/2020	12/2020	SI: Two projects. Adjustment to operating parameters, increasing the transmission capacity and enabling bidirectional operation. The SI part is related to the interconnection HR-SI (and AT project Murfeld) and depends on a new source of gas in the south.
	SI: CS Kidričevo, 2nd phase of upgrade	Up to 30 MW	12/2020		12/2017	12/2018	12/2018	12/2018	01/2019	12/2020	
	AT: Entry/Exit Murfeld	5.38 bcm/y	10/2019	03/2016	08/2016	04/2017	05/2017	03/2018	04/2018	11/2019	

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Inter-connection Croatia – Slovenia (Lučko-Zabok-Rogatec, bidirectional)	HR: Construction of new inter-connection pipeline Lučko-Zabok-Rogatec	5 bcm/y	12/2018		12/2014	12/2016	12/2016	03/2017	07/2017	12/2018	
	SI: Upgrade of Rogatec inter-connection	5 bcm/y	12/2020			2019	2017			2020	SI: Enabling bidirectional operation. The data for "Upgrade of Rogatec interconnection" is given for the SI part of the cluster connecting Croatia-Slovenia-Austria (including the project "Reverse flow on the Slovenia-Austria interconnector" above).

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Interconnector Croatia – Bosnia and Herzegovina	HR: Construction of new inter-connection pipeline Slobodnica (HR) - Bosanski Brod (B&H)	1.5 bcm/y	12/2019		01/2017	07/2017	07/2017	04/2018	07/2018	12/2019	

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of March 2016 based on data from the project promoters and with reference to the list of all CESEC projects in the [Appendix to the CESEC Action Plan](#) of 10 July 2015.

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Interconnector former Yugoslav Republic of Macedonia – Bulgaria/ Greece	Interconnector former Yugoslav Republic of Macedonia – Greece	1.1 – 1.7 bcm/y	10/2020	06/2010	2016	2016	2016	2017	2017	2020	The data refers to the parts of the project on the territory of the former Yugoslav Republic of Macedonia
	Interconnector former Yugoslav Republic of Macedonia – Bulgaria	0.5 – 0.7 bcm/y		2016							

Project	Phase	Techn. capacity	Expected commissioning	Completion of pre-construction stages					Construction start/end		Additional information
				Pre-feasibility	Feasibility	FEED	FID	Permitting	Start	End	
Eastring		20 bcm/y	12/2019	02/2016	09/2016	01/2018		06/2018	06/2018	12/2019	In agreement with its promoters, the Eastring project is not part of the current phase of the CESEC work as it substantially differs from the other, more region-specific projects considered, particularly as regards its size, objective and scope and can therefore not be appropriately assessed in a CESEC regional modelling framework.
	Expansion	40 bcm/y	12/2024	01/2021	06/2021	06/2022		02/2023	02/2023	06/2024	