

Central and South-Eastern European Gas Connectivity (CESEC) High Level Group: Indicative project-specific information as of November 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.

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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

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Interconnector Bulgaria – Serbia (IBS)	Phase 1 (BG)	BG to RS: 1.0 (1.8) bcm/y RS to BG: 0.15 bcm/y	12/2020	02/2011	12/2012	02/2018	10/2017	10/2018	10/2018	12/2020	Phase 1 refers to a single pipe Nis – Dimitrovgrad of 108 km. BG/RS timelines to be harmonised in the MoU expected in 4Q2016. According to the joint BG/RS roadmap, the capacity (incl. reverse capacity) of the pipeline will be increased in Phase 2 and Phase 3.
	Phase 1 (RS)		12/2020		12/2011	06/2017		10/2017	02/2019	12/2020	

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Phased Bulgarian system reinforcement	Stage 1 of modernisation of compressor stations		06/2016							09/2014	06/2016	Actions were in progress in the period 2013 – 2016 and are finalized as of June 2016 when CS Petrich was commissioned
	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, consisting of: <ul style="list-style-type: none"> ▪ Replacement of 58 km section Beglej-Dermantsi-Batultsi-Kalugerovo; ▪ Replacement of 23 km section Valchi Dol-Preselka 		11/2020			12/2017	12/2017	12/2017	01/2018	11/2020	<i>Activities on the replacement of 23 km section shall start as of February 2017</i>	
						09/2018	09/2018	09/2018	2018	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	

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Phased Romanian system reinforcement	BRUA Phase 1: Stage 1 of the Romanian South Corridor	1.75 bcm/y	12/2019	12/2013	09/2015	11/2016 (pipeline) 03/2017 (CS)	11/2016	02/2017	08/2017	12/2019	

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LNG terminal in Croatia (with phasing potential)	First stage: floating LNG terminal (FSRU)	2 bcm/y	12/2018		01/2014	02/2017	06/2017	10/2017	10/2017	11/2018	

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LNG evacuation system towards Hungary	Pipeline section Omišalj Zlobin	10 bcm/y	10/2018 (Omišalj-Zlobin)		08/2016	07/2017	04/2017	07/2017 – 03/2018	10/2017 (Omišalj-Zlobin)	10/2018 (Omišalj-Zlobin)	
	Zlobin-Kozarac	Up to 2 bcm towards HU (4.5 towards HU)	03/2020 (Zlobin-)						04/2018 (Zlobin-Kozarac)	03/2020 (Zlobin-)	

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			Kozarac)							Kozarac)	
	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	

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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	11/2016 (pipeline) 03/2017 (CS)	06/2018	02/2017	2019	2021	
	Black Sea – Podisor pipeline	6.0 bcm/y	2020	08/2014	01/2016	12/2017	06/2018	12/2017	2018	2021	

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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	Capacity to be downsized.

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New Greek LNG terminal	Total project	6.1 bcm/y	10/2019	12/2010	06/2014	04/2017	10/2017	01/2015	10/2017	10/2019	The official name of the project according to the 2015 PCI list (reg.2016/89) is "LNG terminal in northern Greece".

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Interconnector Bulgaria – Romania (IBR)	Construction of Ruse GMS	1.5 bcm/y	11/2016						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	11/2016	<i>In the beginning of November 2016 IBR was commissioned with the finalization of the construction works of the main pipeline.</i>

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Interconnector Romania – Republic of Moldova (Iasi- Ungheni) expansion		1.5 bcm/y	06/2019	01/2014	07/2016	07/2017		07/2017	2018	2019	
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Physical reverse flow Romania – Ukraine (at inter-connection point Isaccea)		2.2 bcm/y	2019	01/2015	2017	2018		2018	2018	2019	

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Compressor station in Kipi, Greece and reinforcement of Greek system	Compressor station in Kipi	2-11 bcm/y									<p>This project will be further examined only if at least one of the conditions below is fulfilled:</p> <ol style="list-style-type: none"> 1. Significant increase of flow from Turkey to Greece through the IP “Kipi” is planned and respective capacity upgrade is requested 2. The LNG terminal in Northern Greece is sanctioned and will be connected to the DESFA network <p>FID for the project will be taken according to the provisions of the Greek</p>

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											Network Code
	Metering and Regulating Station at Nea Mesimvria for the connection of the Greek transmission system with TAP	At least 3.65 bcm/y	2019		2016	2017	Q1 2017	2017	2017	2019	
	Komotini Metering and Regulating Station										This project will be further examined only if its need is confirmed or requested by a User according to the Greek Network Code

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Reinforcement of the Hungarian network	Csanádpalota CS Phase I	RO/HU 1.75 bcm/y	01/2020	06/2014	07/2017	06/2018	05/2017	09/2018	10/2018	12/2019	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	01/2020	05/2018	04/2020	05/2020	12/2022	
		HU/AT 5.2 bcm/y	12/2022	06/2014	07/2017	01/2020	05/2018	04/2020	05/2020	12/2022	

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Interconnector Slovenia – Hungary	SI: R15/1 Pince – Lendava – Kidričevo	Up to 38.1 GWh/d	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	12/2019	06/2019	12/2020	

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Firm capacity upgrade on the interconnector Hungary – Ukraine	HU-UA reverse flow	6.1 bcm/y									

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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	

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Inter-connection Croatia – Slovenia (Lučko-Zabok-Rogatec, bidirectional)	HR: Construction of new inter-connection pipeline Lučko-Zabok-Rogatec	5 bcm/y	12/2019		12/2014	10/2017	03/2018	03/2018	07/2018	12/2019	
	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).

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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	

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Interconnector Greece - former Yugoslav Republic of Macedonia	Part in former Yugoslav Republic of Macedonia – Evzoni/Gevgelija-Stip	1.1 – 1.7 bcm/y	10/2020	06/2010	2011	2017	2017	2017	2017	2020	
	Part in Greece: Nea Mesimvria-Evzoni/Gevgelija	1.1 – 1.7 bcm/y	10/2020	2016	2017	2018	2017	2018	2018	2020	
Interconnector former Yugoslav Republic of Macedonia – Bulgaria		0.5 – 0.7 bcm/y	10/2022	06/2010	2011	2018	2018	2018	2019	2021	
				2017	2018						

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Eastring		20 bcm/y	09/2021	02/2016	03/2018	12/2019		08/2020	08/2020	09/2021	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
	Expansion	40 bcm/y	12/2024	01/2021	06/2021	06/2022		02/2023	02/2023	06/2024	

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												and scope and can therefore not be appropriately assessed in a CESEC regional modelling framework.
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