

Updated CESEC ELECTRICITY ACTION PLAN (April 2020 update)¹

Action plan Progress Review Infrastructure priority projects

Enhancement of the cross-border transmission capacity between Bulgaria, Romania and Greece and comprising the following 2 project clusters:				
Interconnection Bulgaria- Greece and internal reinforcement in Bulgaria (a cluster of 4 PCIs)				
Project / CESEC sides	Action	Responsible entities	Timing	Challenges / Comments
PCI 3.7.1 Interconnection Maritsa East (BG) - Nea Santa (EL) Bulgaria, Greece	Permit granting completion	BG: Ministry of Energy GR: Competent authority	04/2018	03/2020: Project under construction
	Construction completion	Elektroenergien Systemen Operator EAD/ESO, GR: IPTO	05/2023	
	Commissioning	Elektroenergien Systemen Operator EAD/ESO GR: IPTO	05/2023	
PCI 3.7.2 Internal line Maritsa East - Plovdiv (BG) Bulgaria	Permit granting completion	Elektroenergien Systemen Operator EAD/ESO	04/2019	03/2020:Project under construction
	Construction completion	Elektroenergien Systemen Operator EAD/ESO	05/2022	
	Commissioning	Elektroenergien Systemen Operator EAD/ESO	05/2022	
PCI 3.7.3 Internal line Maritsa East - Maritsa East 3 (BG) Bulgaria	Permit granting completion	BG: Ministry of Energy	04/2018	08/2019:Project under construction
	Construction completion	Elektroenergien Systemen Operator EAD/ESO	06/2021	
	Commissioning	Elektroenergien Systemen Operator EAD/ESO	06/2021	
PCI 3.7.4 Internal line Maritsa East - Burgas (BG) Bulgaria	Permit granting completion	BG: Ministry of Energy	08/2018	05/2019: Project under construction
	Construction completion	Elektroenergien Systemen Operator EAD/ESO	04/2021	
	Commissioning	Elektroenergien Systemen Operator EAD/ESO	06/2021	
Reinforcement of the interconnection between Bulgaria and Romania ("Black Sea Corridor")				
PCI 3.8.1 Internal line Varna - Burgas Bulgaria	Permit granting completion	BG: Ministry of Energy	04/2019	Project under construction.
	Construction completion	Elektroenergien Systemen Operator EAD/ESO	09/2021	
	Commissioning	Elektroenergien Systemen Operator EAD/ESO	09/2021	
PCI 3.8.4 Internal line Cernavoda - Stalpu Romania	Construction completion	C.N.T.E.E. TRANSELECTRICA S.A. (RO)	12/2021	Project under construction.
	Commissioning	C.N.T.E.E. TRANSELECTRICA S.A. (RO)	12/2021	
PCI 3.8.5 Internal line Gutinas - Smardan Romania	Final investment decision	C.N.T.E.E. TRANSELECTRICA S.A. (RO)	2017 (done)	Permitting does not fall under TEN-E Regulation provisions
	Permit granting completion	RO: Ministry of Energy	2018	
	Construction completion	C.N.T.E.E. TRANSELECTRICA S.A. (RO)	12/ 2023	
	Commissioning	C.N.T.E.E. TRANSELECTRICA S.A. (RO)	12/2023	

¹ Project timelines defined in this Electricity Action Plan have been updated following the CESEC Senior officials meeting of 25/03/2020. Therefore, project timelines have not yet factored in possible delays due to the covid-19 crisis.

Enhancement of the transmission capacity along the East-West corridor in South-East Europe from Italy to Romania via the Balkans and comprising the following 3 project clusters

Italy — Montenegro Interconnector (PCI 3.19. Completed and Commissioned 11/2019)

Interconnection Romania — Serbia (“Mid Continental East Corridor”) and internal reinforcements in Romania (4 projects)

Project / CESEC sides	Action	Responsible entities	Timing	Challenges / Comments
PCI 3.22.1 (PECI status) Interconnection Resita (RO) - Pancevo (RS) Romania, Serbia	Construction completion	RS: Elektromreža Srbije RO: C.N.T.E.E. TRANSELECTRICA S.A.	12/2024	Completed on Serbian side Under construction on Romanian side Completion delayed from 2020 to 2024
	Commissioning	RS: Elektromreža Srbije RO: C.N.T.E.E. TRANSELECTRICA S.A.	12/2024	
PCI 3.22.2 Internal line Portile de Fier - Resita Romania	Construction completion	RO: C.N.T.E.E. TRANSELECTRICA S.A	12/2024	Under construction Completion delayed from 2021 to 2024 due to insolvency of general contractor
	Commissioning	RO: C.N.T.E.E. TRANSELECTRICA S.A	12/2024	
PCI 3.22.3 Internal line Resita - Timisoara/Sacalaz Romania	Final investment decision	C.N.T.E.E. TRANSELECTRICA S.A. (RO)	2018	Permitting Completion delayed from 2023 to 2025
	Permit granting process	Romanian Ministry of Energy	05/2021	
	Construction completion	C.N.T.E.E. TRANSELECTRICA S.A. (RO)	12/2025	
PCI 3.22.4 Internal line Arad - Timisoara/Sacalaz Romania	Final investment decision	C.N.T.E.E. TRANSELECTRICA S.A. (RO)	N.A	Planned but not yet in permitting Technical design&specification on-going
	Permit granting end date	Romanian Ministry of Energy	N.A	
	Construction completion	C.N.T.E.E. TRANSELECTRICA S.A. (RO)	12/2027	
Transbalkan corridor				
PECI-Transbalkan corridor - Section I: See info on PCI 3.22.1 - Section III: AC OHL 400kV Obrenovac (RS)- Bajina Basta (RS) - Section IV: AC OHL 400kV Bajina Basta (RS) - Visegrad (BA)-Pljevlja (ME) Serbia, Montenegro, Bosnia and Herzegovina	Permit granting	Relevant Competent Authorities	2019-2021	Lack of appropriate grant funds for sections III and IV. Section III: pending application for a WBIF Investment grant Section IV: preparation of the technical documentation (2019-2021)
	Construction completion	CGES, EMS, NOS-BIH	2021-2025	
	Commissioning	CGES, EMS, NOS-BIH	2025	
PECI- Transbalkan corridor - Section II: OHL 400 kV Kragujevac - Kraljevo Serbia	Permit granting	Relevant Competent Authorities	2017-2019	Construction expected to start Q3/2020
	Construction start date	Elektromreža Srbije (RS)	2020-2021	
	Commissioning	Elektromreža Srbije (RS)	2021	
PECI - Transbalkan corridor - Section in ME - 400 kV OHL Pljevlja - Lastva Montenegro	Construction	CGES (ME)	2014-2022	2019: Section Lastva-Čevo completed Section Čevo- Pljevlja under construction
	Commissioning	CGES (ME)	2022	

Electricity Interconnections Hungary — Slovakia				
Project / CESEC sides	Action	Responsible entities	Timing	Challenges / Comments
PCI 3.16.1 Interconnection Gabčíkovo (SK) - Gönyű (HU) - Velký Ďur (SK) Hungary, Slovakia	Permitting end date	Slovakia: Ministry of Economy Hungary: Hungarian Energy and Public Utility Regulatory Authority	08/2019	Under construction
	Construction completion	MAVIR (HU), SEPS (SK)	12/2020	
PCI 3.17 Interconnection Sajóvánka (HU) - Rimavská Sobota (SK) Hungary, Slovakia	Permitting end date	SK Ministry of Economy HU Energy and Public Utility Regul. Auth.	08/2019	Under construction
	Construction completion	MAVIR (HU), SEPS (SK)	12/2020	
	Commissioning	MAVIR (HU), SEPS (SK)	12/2020	
Electricity Interconnection Croatia — Hungary — Slovenia				
PCI 3.9.1 Double AC OHL 400 kV Interconnection Žerjavinec (HR)/Hévíz (HU) -Cirkovce (SI) Slovenia, Croatia, Hungary	Permit granting process	SI: Ministry of Infrastructure	2017-2020	Permitting not completed 2019: SS Cirkovce under construction 2020: line Cirkovce-Pince under construction
	Construction completion	ELES d.o.o. (SI)	12/2021	
	Commissioning	ELES d.o.o. (SI)	12/2021	
Infrastructures supporting the integration of Ukraine and Moldova power systems into European electricity market				
PMI OHL rehabilitation Mukacheve (UA) - V.Kapusany (SK) Ukraine, Slovakia	Permit granting process	SK Ministry of Economy / UA authority	06/2020	02/2020: Feasibility study Final solution still not agreed UA Permit granting expected 06/2020
	Construction	SEPS (SK) / Ukrnergo (UA)	2021-tbd	
	Commissioning	SEPS (SK) / Ukrnergo (UA)	N.A.	
PMI² Interconnection Isaccea (RO) - Vulcanesti (MD) OHL 400kV Vulcanesti (MD)- Chisinau (MD) Romania, Republic of Moldova	Feasibility	IS Moldelectrica (MD)	09/2017	12/2017: Loan agreement EBRD-EIB 09/2019: Loan agreement World Bank Bid will be launched in Q1/2020
	Regulatory approval	Relevant Competent Authority	2018	
	Commissioning	IS Moldelectrica (MD)	2022	
Slovenia – Croatia Smart Grids Project				
PCI 10.3 SINCRO.GRID Solving network voltage, frequency control and congestion issues Slovenia, Croatia	Permit granting process	SI: Ministry of Infrastructure HR: Ministry of environment and energy	2018-2020	Under construction
	Construction completion	ELES (SI), HOPS (HR)	06/2021	
	Commissioning	ELES (SI), HOPS (HR)	11/2021	

² This project was not resubmitted by project promoters under PECE/PMI 2020 call. Nevertheless, its completion remains a priority to ensure Moldova power systems integration into European electricity market.

Electricity markets: trading and coupling

(TSO: Transmission system operator, PX: Power exchange, NRA: National regulatory authorities)

CESEC sides Project	Main Milestones & Status/Timing (<i>d</i> -Done / <i>og</i> -on going / <i>tc</i> -to come)
Italy - Greece Day-ahead MC <u>Responsible parties</u> Italy: Terna (TSO) / GME (PX) Greece: IPTO (TSO) / HEnEx (PX)	<ul style="list-style-type: none"> IPTO (TSO) and HEnEx (PX) request for IT-EL border go live approved by Italian Borders Working Table (IBWT) (<i>d</i>-05/2019) Expected Local Technical Readiness for the start of the integration tests (<i>og</i>-04/2020) → <u>Go-live of Day-ahead MC (<i>tc</i>-Q4/2020)</u>
Greece - Bulgaria Day-ahead MC <u>Responsible parties</u> Greece: IPTO (TSO) / HEnEx (PX) Bulgaria: ESO (TSO) / IBEX (PX)	<ul style="list-style-type: none"> Approval of EL and BG NRAs to include EL-BG border into IBWT day ahead MC project (<i>d</i>-02/2019) IBWT NRAs Decision to approve BG parties adherence to the IBWT Day-Ahead Operations Agreement (<i>d</i>-12/2019) BG parties completed accession process to the IBWT Day-Ahead Operations Agreement (<i>d</i>-03/2020) Preparation of EL-BG day ahead MC project High level Business Process (<i>d</i>-03/2020) → <u>Go-live of Day ahead MC (<i>tc</i>-Q1/2021)</u>
Bulgaria - Romania Day-ahead MC <u>Responsible parties</u> Romania: Transelectrica (TSO) / OPCOM (PX) Bulgaria: ESO (TSO) / IBEX (PX)	<ul style="list-style-type: none"> Involved NRAs approval for Day-ahead MC received by RO and BG parties (<i>d</i>-11/2019) ToR approval between the responsible parties (<i>d</i>-01/2020) Preparation of BG-RO MC Project detailed roadmap (<i>og</i>-03/2020) and High Level Market Design (<i>og</i>-03/2020) Change Request for the inclusion of the BG-RO border in the SDAC (<i>d</i>-03/2020) → <u>Go live of Day-ahead MC (<i>tc</i>-12/2020)</u>

EU member states/Energy Community contracting parties market coupling pilot projects

CESEC sides Project	Main Milestones & Status/Timing (<i>d</i> -Done / <i>og</i> -on going / <i>tc</i> -to come)
Albania - Italy - Montenegro - Serbia (AIMS) Day-ahead MC <u>Responsible parties</u> Albania: OST (TSO) APEX* (PX) Italy: Terna (TSO) / GME (PX) Montenegro: CGES (TSO) / BELEN (PX) Serbia: EMS (TSO) / SEEPEX (PX)	<ul style="list-style-type: none"> AIMS Working Group: <ul style="list-style-type: none"> ToR adoption (<i>d</i>-01.2018) and non-Disclosure Agreement (<i>d</i>-09/2018) Feasibility analysis approval (<i>og</i>-Q2/2020) Project implementation plan completion (<i>tc</i>-Q4/2020) Establish framework (legal/contractual) for EU/non-EU MC (<i>tc</i>-Q4/2020) AIMS NRAs to run voluntary National Electricity Market Operator designation process (<i>tc</i>-Q4 2020) Establishment of APEX (PX) in AL (<i>og</i>-Q4/2020) Entry into operation of PX in ME (<i>og</i>-Q4/2020) and AL (<i>og</i>-Q2/2021) VAT law changes in AL and ME (<i>tc</i>-Q4/2020) Cooperation agreements for the Design Phase signature (<i>tc</i>- Q1/2021)
* Not yet established	

CESEC sides Project	Main Milestones & Status/Timing (d-Done / og-on going / tc-to come)
<p>Bulgaria – North Macedonia Day ahead and intraday electricity MC</p> <p><u>Responsible parties</u> Bulgaria: ESO (TSO) / IBEX (PX) North Macedonia: MEPSO (TSO) / MEMO (PX)</p>	<ul style="list-style-type: none"> • Project Framework: <ul style="list-style-type: none"> - Ministerial MoU (d-05/2018) / Stakeholders MoU (d-04/2018) signed and WGs established and operational (d-07/2018) • Implementation of MC (Technical assistance under WB6 MoU): <ul style="list-style-type: none"> - Designation of Nominated Electricity Market Operators (og-04/2020) - Selection of service provider for Macedonian PX (tc-06 2020) - Establish framework (legal/contractual) for EU/non EU MC (tc-Q4/2020) <p style="text-align: center;">→ <u>Go live of Day-ahead MC (tc-Q3/2021)</u></p>
<p>Croatia-Serbia-Bulgaria Day-ahead MC</p> <p><u>Responsible parties</u> Croatia: HOPS (TSO) / CROPEX (PX) Serbia: EMS (TSO) / SEEPEX (PX) Bulgaria: ESO (TSO) / IBEX (PX)</p>	<ul style="list-style-type: none"> • Kick off meeting (d-02/2019) • all 3 TSOs and PXs sent joint letter to all 3 NRAs requesting NRS support for HR-RS-BG day-ahead MC (d-03/2019) • Preliminary Feasibility Analysis for formal establishment and start of MC project (d-06/2019) • National Electricity Market Operator designation by RS NRA (tc-date unknown) • Establish framework (legal/contractual) for EU/non EU MC (tc-Q4/2020)
<p>Croatia, Bosnia and Herzegovina Day ahead and intraday MC</p> <p><u>Responsible parties</u> Croatia: HOPS (TSO) / CROPEX (PX) Bosnia and Herzegovina: NOSBiH (TSO)</p>	<ul style="list-style-type: none"> • Establishment of PX in BiH: <ul style="list-style-type: none"> - Technical assistance under WB6 MoU (d- proposal and roadmap for the establishment of a day-ahead market in BiH delivered) - Adoption of a new energy law allowing for PX establishment (tc-date unknown) • Establishment of day-ahead MC: <ul style="list-style-type: none"> - CROPEX expressed interest in receiving technical assistance under WB6 MoU (d-02/2018) - HOPS sent to NOSBiH a Letter of intent (proposal to introduce “export-import zone”organised by CROPEX (d-07/2018) - Agreement of BiH Ministry and stakeholders on initiating MC (tc-date unknown) - Mutual recognition of trade licenses (tc-date unknown) - National Electricity Market Operator designation by BiH NRA (tc-date unknown) • Establish framework (legal/contractual) for EU/non EU MC (tc-Q4/2020)