



- The Commission sees regional co-operation as a key building block for the Energy Union
- Close cooperation between key actors can advance EU energy policy objectives, help integrate energy markets and increase security of supply
- Central and South Eastern Europe Energy Connectivity (CESEC) has been a successful initiative bringing together EU Member States and Energy Community Contracting Parties
- CESEC started in 2015 as a regional high level cooperation forum for gas
- Building on its success, it was extended in 2017 to cover electricity, renewables and energy efficiency
- CESEC recipe for success: priority to projects with biggest value added but are still realistic and feasible, high-level political commitment, clear roadmap



#### Central and South Eastern Europe Gas Connectivity (CESEC)

#### Achievements so far

- Prioritisation of key projects in the region
- High level political commitment
- Concrete regulatory deliverables with agreed timeline
- Mobilisation of EU financial support

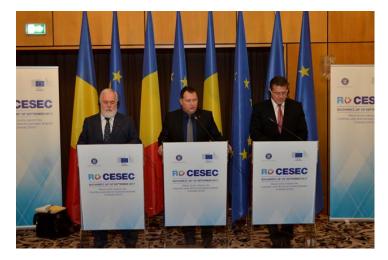


- Electricity Trading and Market Coupling
- Power Grid Infrastructures
- Renewable Energy and Energy Efficiency





## **CESEC "upgrade" – electricity, renewables, energy efficiency**





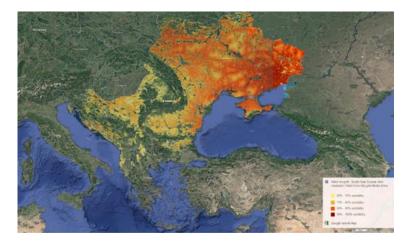


### **Bucharest September 2017**

The agreed goals complement the 2015 Memorandum of Understanding, the concrete actions are enshrined in a dedicated Action Plan and the revised governance in the Terms of reference which have been signed in Bucharest.



## Boosting renewables and energy efficiency to achieve Energy Union objectives – huge potential in the CESEC region



Security of supply Global leadership in renewables

Suitable locations for wind in Southern-Eastern Europe Source: IRENA

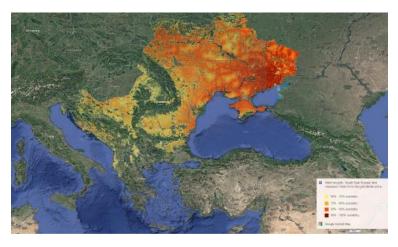




... while promoting growth, jobs and investment



# **Immense potential for renewable energy in the CESEC region**

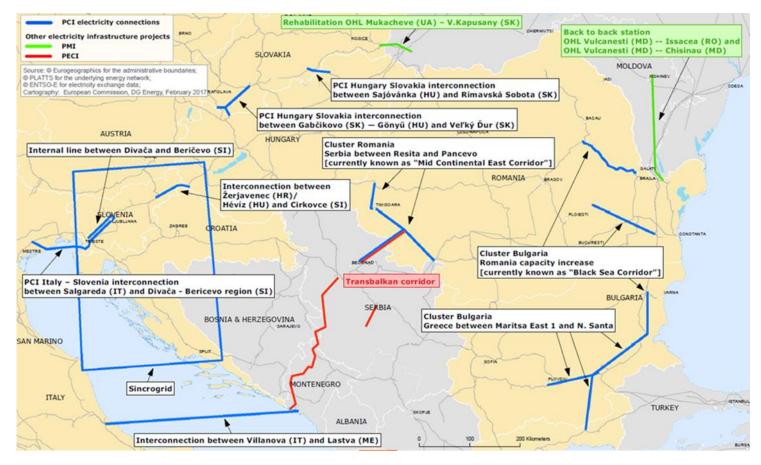


Suitable locations for wind in Southern-Eastern Europe Source: IRENA

- IRENA study (2017) analysed potential in the power sector:
  - Status quo: 36 GW in the region (mostly hydro)
  - Estimated technical potential of 740 GW
  - Today, already about 130 GW cost-effective
  - By 2030, almost the full potential of solar PV and wind energy could be costcompetitively deployed



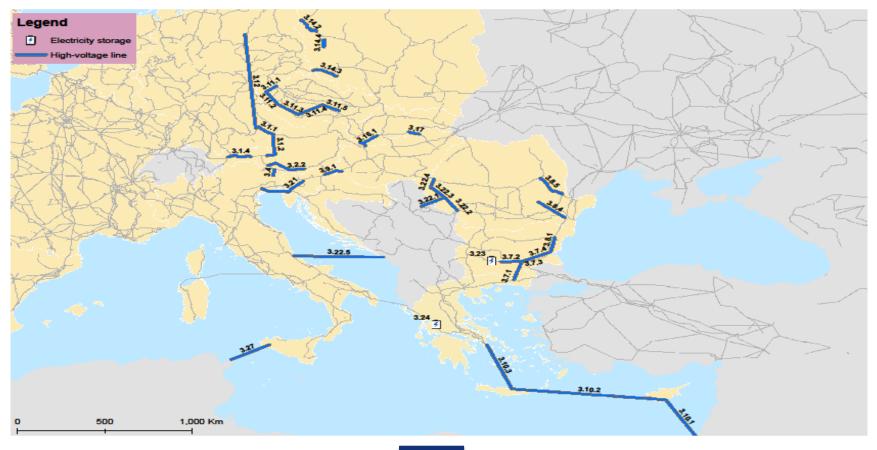
#### Power Grid Infrastructures: prioritisation of projects, link with PECIs/PMIs, coordination with trading and market coupling





#### North-South electricity interconnections in Central Eastern and South Eastern Europe: More than 20 PCIs to be implemented in CESEC countries, but delays due to financing and permitting

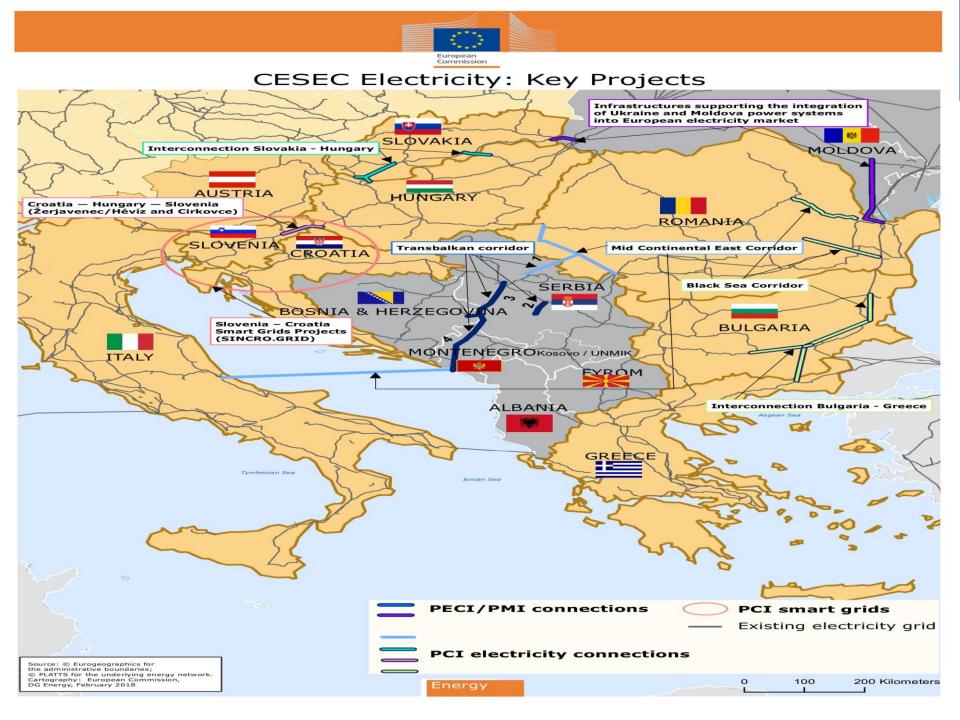
Priority Corridor North-South Electricity Interconnections in Central Eastern and South Europe ("NSI East Electricity")





## **NSI East Electricity - Main objectives**

Article 4(2)(a)	Problem* as identified at RG meeting	Market integration	SoS	Sustainability	Need	Countries affected
Problems that can be addressed through infrastructure needs	High price differentials	•			Infrastructure to enable the reduction of price differentials (by adding capacity) across the EU	GR, HU, IT, PL, RO,DE, SK, SI, CZ, CY
	Integration of renewables and accommodation of flows			•	Infrastructure to mitigate RES curtailment and to improve accommodation of flows	AT, BG, GR, DE, IT
	"Partial isolation" (2020 10% target currently not met)	•			Infrastructure to contribute to achieve the interconnection level to at least 10%	BG, CY, DE, IT, PL, RO
	Adequacy issues due to significant changes in generation mix		•		Infrastructure to ensure system adequacy deficiencies	BG,GR, IT, CY, DE, PL
	System flexibility and stability		•	•	Infrastructure to improve system flexibility and stability	CY, CZ, DE, IT, HU, GR, SI,
	Impact of loop flows	•	•		Internal infrastructure to reduce the occurrence of loop flows in the borders between CZ-DE, DE-PL	DE, PL, CZ
	Ending electricity isolation	•				СҮ





# **Investing in Energy Infrastructure**

### **Commission's proposal for MFF 2021-2027**:

- Considerable increase in budget available through Connecting Europe Facility and InvestEU
- Connecting Europe Facility: from €30.4 billion to €42.3 out of which €8.65 billion for energy
- InvestEU (successor of EFSI): 30% of overall financial envelope to climate objectives – 50% of investment under Sustainable Development to climate and environment objectives

