



*Regional Group Summary*

# Continental South East

Final version after public consultation  
and ACER opinion - October 2019

*The regional group Continental South East (CSE) consists of the following countries: Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Greece, Hungary, Italy, FYR of Macedonia, Montenegro, Romania, Serbia and Slovenia. Turkey participates in the group as an observer.*

Today, the grid in the CSE region (especially in the Balkan area) is rather sparse compared to the rest of the Continent. This leads to insufficient transfer capacities; the increase of existing transfer capacities (both cross-border and internal) is a prerequisite for market integration.

The main challenges and drivers of transmission grid development in the region are:

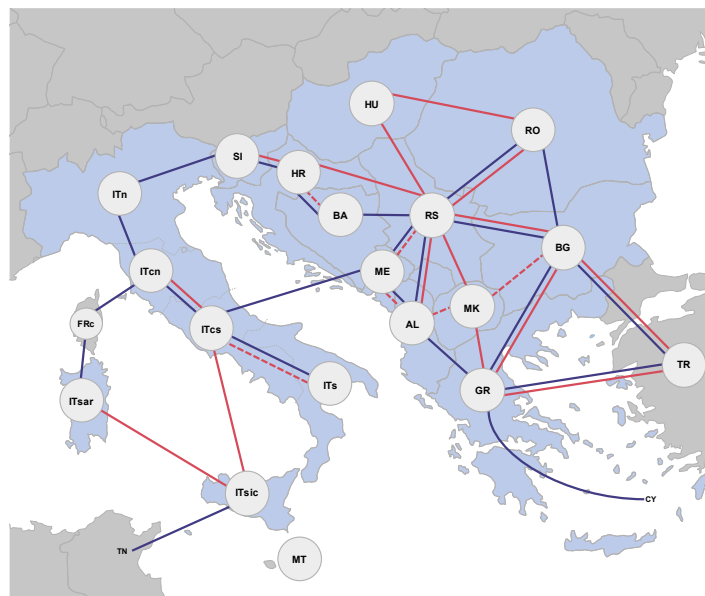
- Increase of Transfer Capacities and Market Integration facilitation.
- Massive RES integration in order to achieve EU and national targets.
- Flexibility needs, especially for the countries with the highest RES penetration in the region.
- Extensions of ENTSO-E system to the East and South.

These challenges are reflected in the planned projects and are confirmed by the system needs identified for 2040.

## 2040 Needs

The map below shows potential needs for additional capacity increases in 2040 – beyond the 2020 grid.

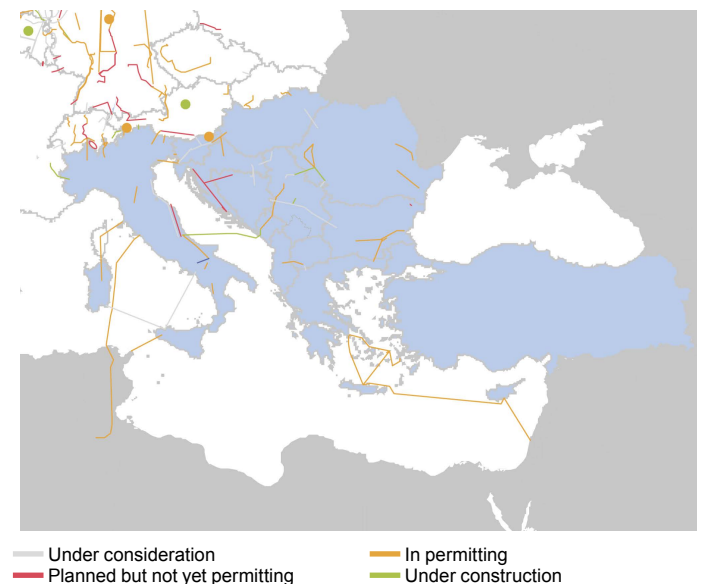
### Summary of capacity increases from 2020 to 2040



- Increases already identified in TYNDP 2016<sup>1</sup>
- Increases beyond 2030 in only one scenario
- Increases beyond 2030 in at least 2 scenarios

## Projects

The map below shows all the promoted projects that will be analysed with the CBA methodology in the TYNDP 2018.



## Benefits

Increasing capacities at the borders, as shown on the map to the left, would have a significant impact on the ENTSO-E electrical system and society as a whole.



**Up to 30 €/MWh**  
reduction in marginal costs  
of electricity generation



**2 to 41 TWh**  
less curtailed renewable energy



**0 to 31 Mton**  
reduction in CO<sub>2</sub>



**Up to 480 GWh**  
reduction in Energy Not Served

More information can be found in the Regional Investment Plan 2017 of this regional group and in the European System Need Report 2017.

— [https://www.entsoe.eu/Documents/TYNDP%20documents/TYNDP2018/rgip\\_CSE.pdf](https://www.entsoe.eu/Documents/TYNDP%20documents/TYNDP2018/rgip_CSE.pdf)

— [https://www.entsoe.eu/Documents/TYNDP%20documents/TYNDP2018/energy\\_power\\_system\\_2040.pdf](https://www.entsoe.eu/Documents/TYNDP%20documents/TYNDP2018/energy_power_system_2040.pdf)

<sup>1</sup> Reference capacities of TYNDP 2016 for 2030 which for some borders had been adjusted for the TYNDP 2018 purpose. Projects commissioned in 2020 are not included as increases.