Infrastructure development: developing a future-proof grid
Electricity interconnections – main steps

- **10% electricity interconnection target** – by 2005 defined as import capacity over installed generation capacity in a Member State;

- 2014 Commission proposal **to extend the 10% to 15% by 2030**, while taking into account the cost aspects and the potential of commercial exchanges in the relevant regions. Target endorsed by the October 2014 European Council;

- Target to be achieved by the implementation of **Projects of Common Interest (PCIs)**.
Commission Expert Group on electricity interconnection targets

- EG to provide the Commission with technical advice to operationalise the 15% target;

- EG composed of 15 members selected in a public call for applications; Work started in October 2016;

- First EG advice expected to be published in mid-2017;

- Contribution to the 2030 target and the review of the TEN-E regulatory framework
The role of the 2030 interconnection targets

- **Market integration** and **RES integration** as well as security of supply require better interconnected Europe;

- **Share of electricity** expected to increase significantly from 27% in 2016 to more than 50% in 2030 driven by electrification of transport, heating and cooling;

- In addition to a well-functioning market, **more interconnections** are needed to grasp the full potential of energy transformation;

- The 2030 **interconnection target** is seen as a useful policy tool to guide the development of trans-European electricity infrastructure.
Electricity interconnection targets: Challenges

- Member States differ in terms of generation mix, size of their markets and geographical location;
- Existing interconnectors not always used efficiently due to internal congestion;
- Public acceptance;
- Financing needs;
- Breakthrough technologies gaining momentum:
  - integrated services and digitalization, electricity storage, empowerment and local generation, demand response, energy efficiency;
How to design a meaningful target

• What would you consider important factors to take into account when establishing a 2030 interconnection target?

• How could the interconnection target(s) be taken into account in European grid planning and how could they best be taken into consideration in the identification of TYNDP and the PCIs?

• What could be the impact of the increasing uptake of decentralised renewables and other emerging technologies on the need for transmission lines and interconnectors?
Thank you

Contact: