

Scenarios overall view

Short term uncertainty increase → Long term

1 year 5 years 10 years 15 years

GOAL

- Security of supply
 - Generation adequacy outlook
- Grid “as it should be” to achieve the “vital” Interconnected European grid
- Pan-EU system adequacy

INPUT

- Grid “as it is” + project commissioned
 - Best national info on generation mix
- Best national prospective on...
- climate policy target 2030
- energy efficiency

SCENARIOS

- ‘predictive’ scenarios → forecast
 - Bottom-up → “*build on national outlook*”
- ‘exploratory’ scenarios → differ enough from each other → not forecast
- top-down → Pan-EU optimization

ENTSO-E’s REPORT

- Scenario Outlook & Adequacy Forecast
- TYNDP report + 6 RgIP (Regional Investment Plans)

Up to 10 years → time need to complete a high-priority electricity infrastructure projects across Europe

TYNDP package

TYNDP scenarios overall view - Ricardo

- scope of TYNDP report: build the “...interconnected European energy grid is vital for Europe's energy security, for more competition on the internal market resulting in more competitive prices as well as for better achieving the decarbonisation and climate policy targets which the European Union has committed to” **ENERGY UNION PACKAGE [COM (2015) 82 final]**
- also TYNDP aims at assessing projects in each contrasting Vision that reflects the same boundary for all countries - to provide **technical assessment** and **show the benefit** of a given project for a given future under different socio-economic technical and political assumptions.
- 2030 National targets [compatible with climate energy policy 2030] not available [as is the case of 2020 Targets] → how to build a scenario
- Nevertheless, as learnt with 2020 experience, there is no way of ensuring that such vision would be a “best estimation” for 2030...
- [Policy makers/ Decision makers] PCI List – List of the projects for which a socio-economic welfare benefit is higher than the cost in the different future possible



European Commision – ENERGY UNION PACKAGE [COM (2015) 82 final]

- ❖ An interconnected grid will help deliver the ultimate goal of the [Energy Union](#), i.e. to ensure affordable, secure and sustainable energy, and also growth and jobs across the EU
- ❖ An adequately interconnected European energy grid brings the benefits of the market closer to European citizens, as consumers could save EUR 12-40 billion annually by 2030¹

(1) Study: Benefits of an integrated European energy market, July 2013, Booz & Co.