

Cross-Border Transmission Planning – the EU case

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Structure of presentation

- European needs for electricity transmission network investments
 - EU energy policy goals
- Ten-Year Network Development Plan
- Challenges to overcome
 - Permitting
 - Financing of network investments
- Concluding remarks



EU energy policy goals 20-20-20 by 2020

- Sustainability
 - Reduction of greenhouse gases
 - Renewables
 - Energy efficiency
- Security of supply





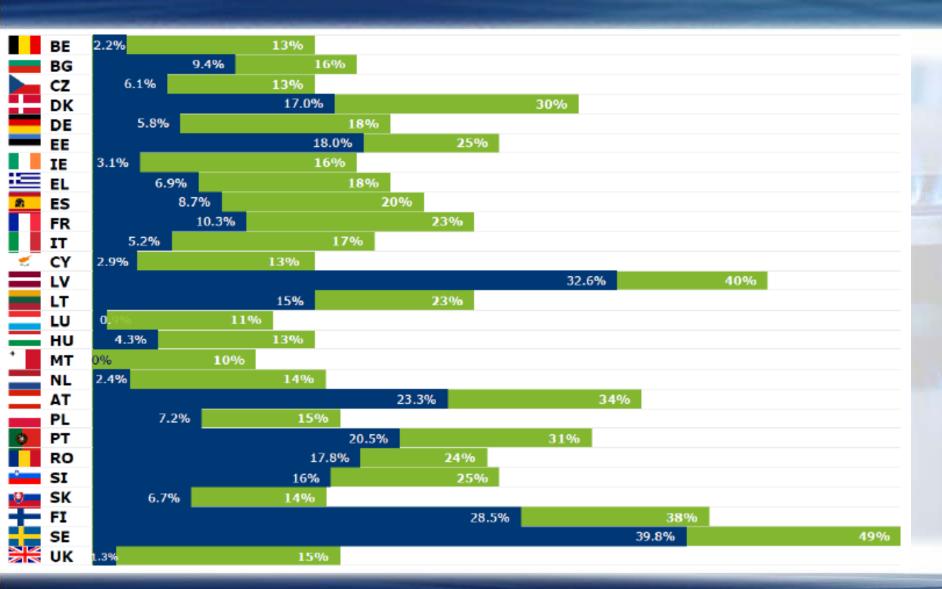








National RES targets





Ten-Year Network Development Plan - TYNDP

- ENTSO-E shall adopt and publish a Communitywide network development plan every two years
- It shall include
 - modelling of the integrated network
 - scenario development
 - a European generation adequacy outlook and
 - an assessment of the resilience of the system
- ACER shall provide an opinion on draft TYNDP

(non-discrimination, effective competition, the efficient functioning of the market or a sufficient level of cross-border interconnection open to third-party access)



Prerequisites for TYNDP

- National investment plans, taking into account regional investment plans and Community aspects of network planning
- Reasonable needs of different system users (in case of cross-border investments)
- Identified investment gaps, notably with respect to cross-border capacities

TYNDP should identify investment needs of European significance based on multi-TSO studies with ENTSO-E regional and EU-wide analysis

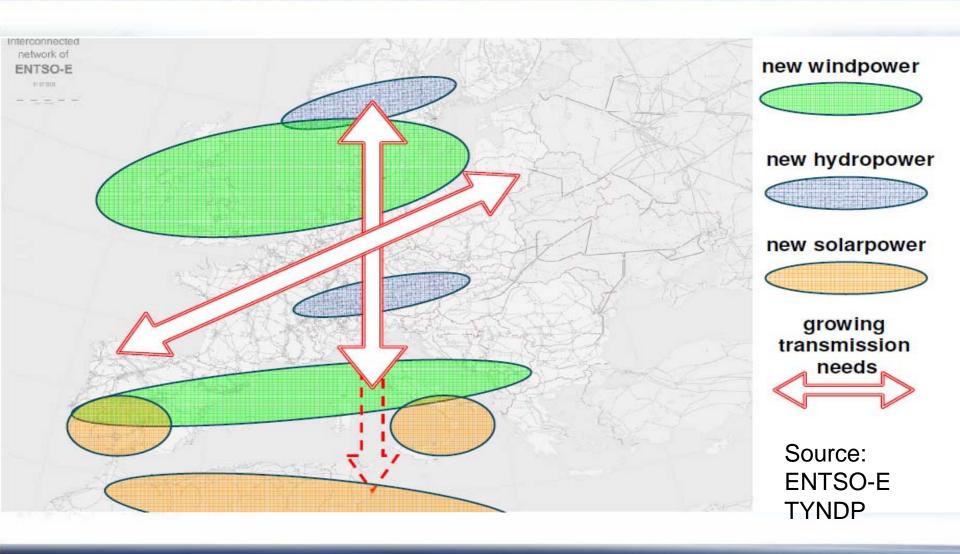


Main drivers for investments in new or refurbished power lines





Effects of development in generation and demand





Financing of investments

- The price tag of TYNDP 100 billion euro of which ca 25 million in the first five years
- Need for sound, stable and predictable regulatory framework
- Risk perception of TSO business has increased (high leverage, legislation uncertainty, slow payback, new challenges like DC grids, smart grids, etc.)



Permitting

- Permitting is the biggest challenge for TSOs
- Non-harmonised legislation between countries and even within countries
- Different processes for different technologies
- High number of permitting authorities
- Lack of time limits
- Public awareness and attitude

 a lot of local opposition to transmission lines



Concluding remarks

- Investments in transmission infrastructure are the key to achieve the EU energy policy goals!
 - ✓ Critical for renewables
 - ✓ Indispensable for market integration
 - ✓ Necessary for security of supply
- EU Commission is preparing an Energy Infrastructure Package, which is due in November
 - ✓ EIP will cover electricity and gas
 - ✓ Identify infrastructure corridors
 - ✓ Propose concrete measures (what, how who)





Thank you for your attention