Getting the European Energy Market ready for 2030

What is the role for network codes and guidelines?

Bente Hagem Chair of the Board, ENTSO-E

European Energy Forum 23 October 2018, Strasbourg

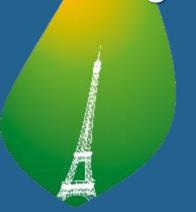


Can they manage 4 degrees?



Transformative changes...

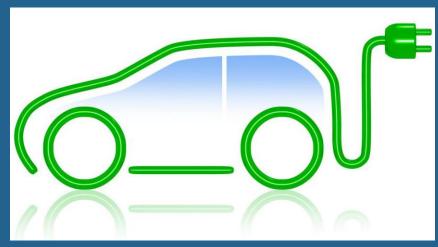






Clean Energy Package









The future is electric

50% generating capacity from RES in 2030

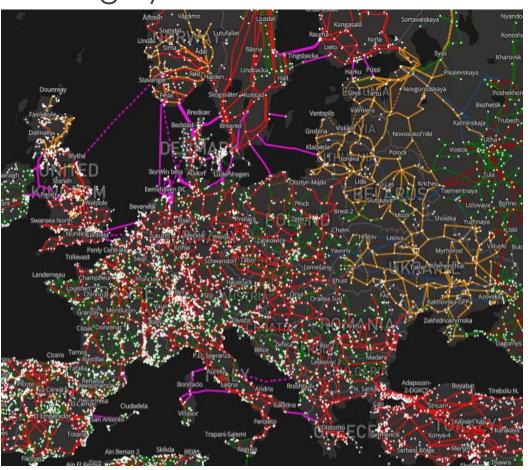
40% increase of hourly flexibility needed by 2025

5 countries to allow only electric vehicles sold from 2025/2030

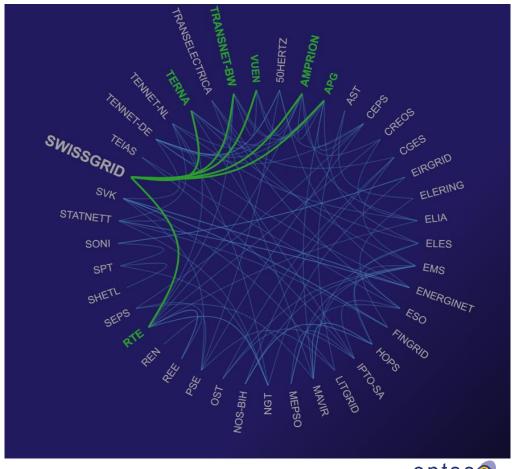


Our systems are tightly connected

Highly meshed network



Increasingly connected





Tasks of ENTSO-E: a technical advisor for EU

Ten-Year Network
Development Plans

Network Codes development and implementation

We build markets

Regional cooperation, building RCCs

Adequacy forecasts



43 TSOs from 36 countries



530 million citizens served



1,14 TW installed generation capacity



480 000 km of interconnections

We have delivered 8 codes and guidelines

3 Market Codes

- Efficient utilization of grid and generation incl. capacity calculation on borders
- Lower costs to industry and consumers
- Improved competition

2 Operation Codes

- Defining regional coordination
- Secure operations in spite of more RES
- More efficient exchange of reserves

3 Connection Codes

- Harmonized requirements for investments and operations
- Better industrial solutions, competition and cost reductions

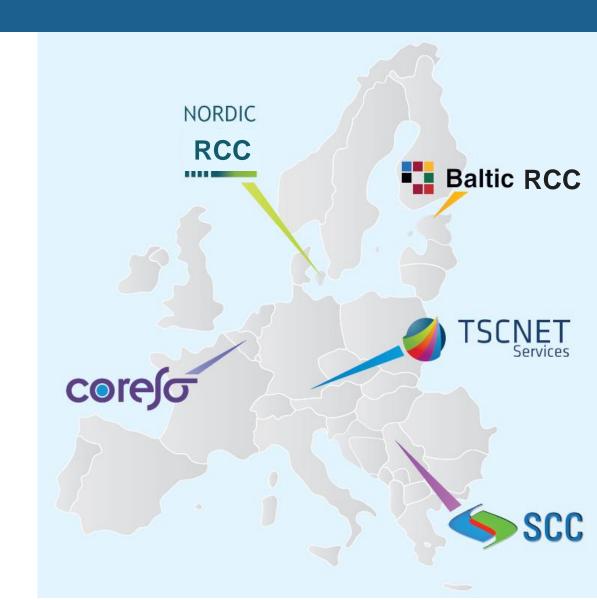


Network Codes deliver regional cooperation

Regional Coordination Centers (RCC):

- 1. Capacity calculation
- 2. Security analysis
- 3. Common grid model
- 4. Adequacy forecast
- 5. Outage planning

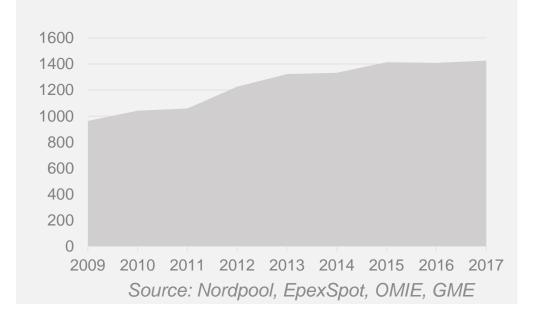
We are prepared to take on new tasks from CEP



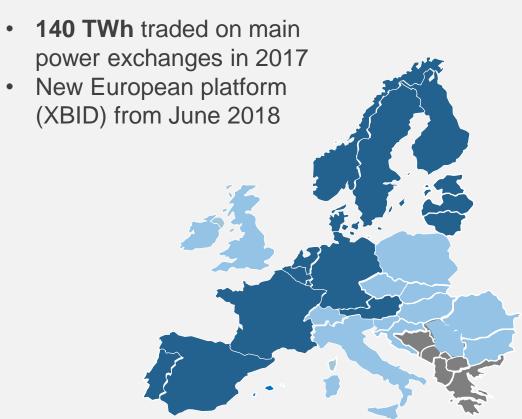
Network codes deliver efficient markets

DAY-AHEAD MARKETS

- 1400 TWh, 50% of consumption in European market coupling
- 1 B€/year in social welfare

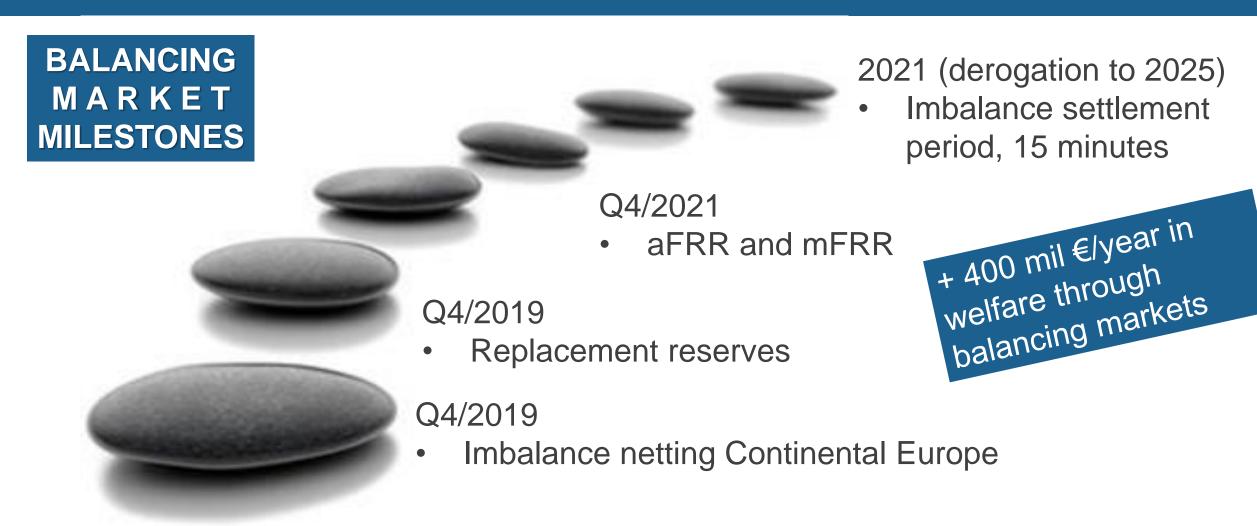


INTRADAY MARKETS



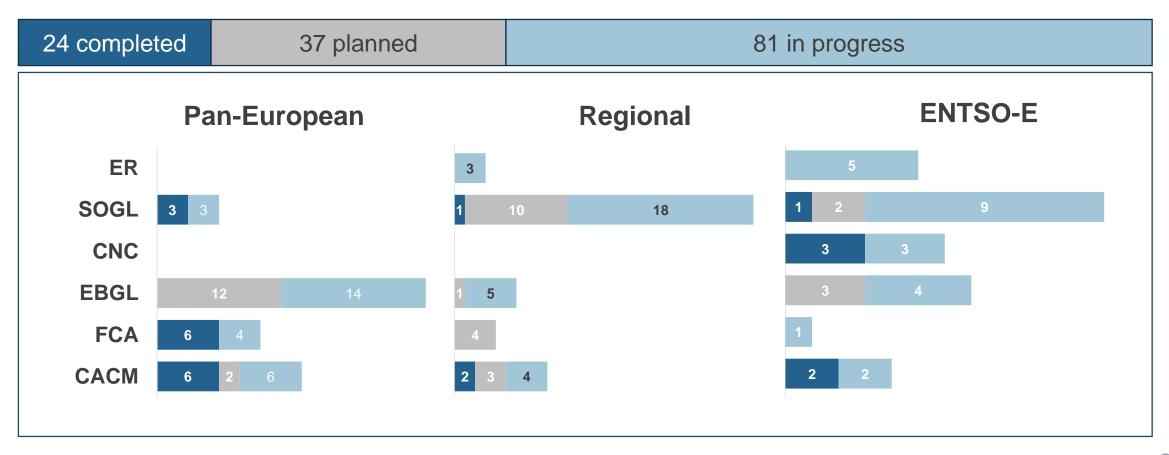


Network Codes will deliver balancing markets



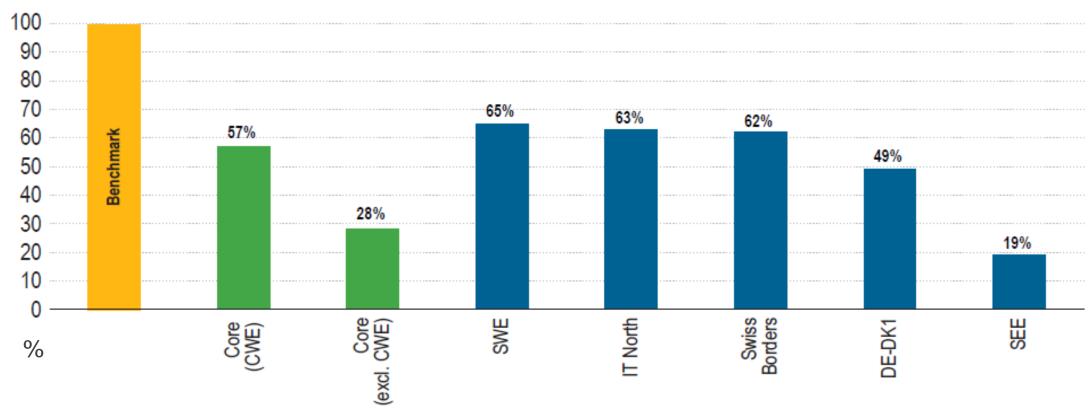


74% of Network Codes methods are already completed or underway



Implementing CACM NC will increase the capacity on borders

Ratio between available tradable capacity and the benchmark capacity of HVAC interconnectors per region – 2017 (%)





What we need is to implement the Codes

- 5 RCCs are established with capacity calculation function
- Capacity calculation methods are developed in each region, scrutinized by regional NRAs. If disagreement, ACER takes over
- Regional methods developed for re-dispatch and countertrading
- A procedure for bidding zone configuration involving TSOs, NRAs and ACER



Let us complete the job – delete Articles 13 and 14

Don't jeopardize our market model

- No clear definition of suggested targets of 75%
- No assessment of consequences

We do not need a regulatory experiment that:

- Challenges operations and security of supply
- Increases costs for consumers
- Weakens price signals
- Reduces incentives to build interconnectors



Thank you for your attention