ENTSO-E's perspective on regional cooperation in the internal electricity market

Bente Hagem Chair of the Board, ENTSO-E

Regional cooperation and Nordic perspectives on Europe 22 November 2017, Oslo

"Enabling the energy transition"















SO EAD























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SP ENERGY NETWORKS

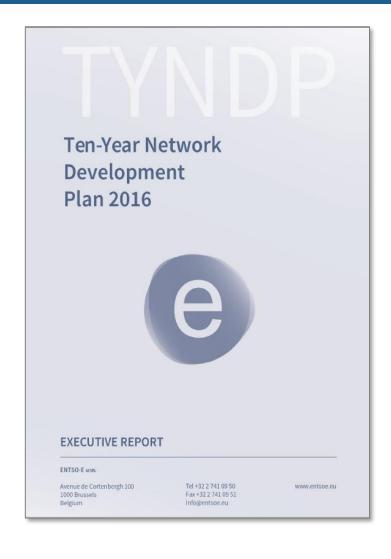


Main tasks for ENTSO-E

- Secure
- Sustainable
- Efficient

- Ten year investment plans
- Network Codes
- Power system analysis
- Five Regional Coordination Centers
- Market platforms
- Best practice sharing
- Interact with stakeholders and policymakers

We invest 150 B€ towards 2040





50.000 km of grid investment



80% CO2 reduction in the power sector



60 % of total consumption covered by RES

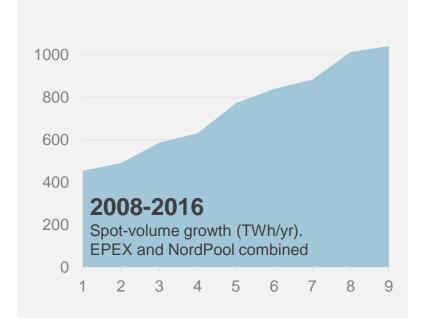
Making 2€ for each € invested!



We develop markets

DAY-AHEAD MARKETS

- 1500 TWh traded on exchanges,
- 1 B€ in social welfare, yearly



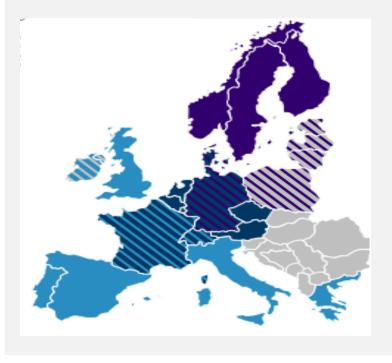
INTRADAY MARKETS

- 120 TWh traded 2016
- New European platform 2018
- Next steps might be real time auctions



BALANCING MARKETS

- 4 European projects ongoing
- 3B€ in cost savings, yearly





We link wholesale and retail markets – how?

- Distributed generation and flexibility require smart meters
- Consumers shall have access to all markets
- TSO-DSO determine products and processes for distributed flexibility
- Neutral bodies should run data hubs for data collection all commercial activity in markets
- Cyber security and privacy issues needs to be ensured



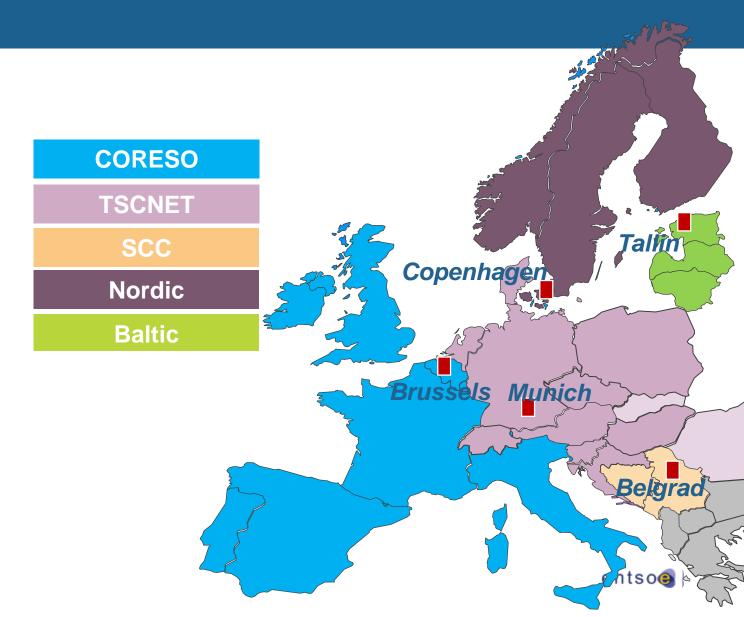


We establish 5 Regional Coordination Centers

Main tasks

- Operational security coordination
- Outage coordination
- Capacity calculation on borders
- Adequacy analyzes
- Common Grid Model

And more services will be delivered!



We need to prepare for 80% RES in the energy mix

- Current measures are not sufficient







What is Regional Energy Forums?

Member States, regulators, TSOs and stakeholders meet, discuss and push for regional cooperation

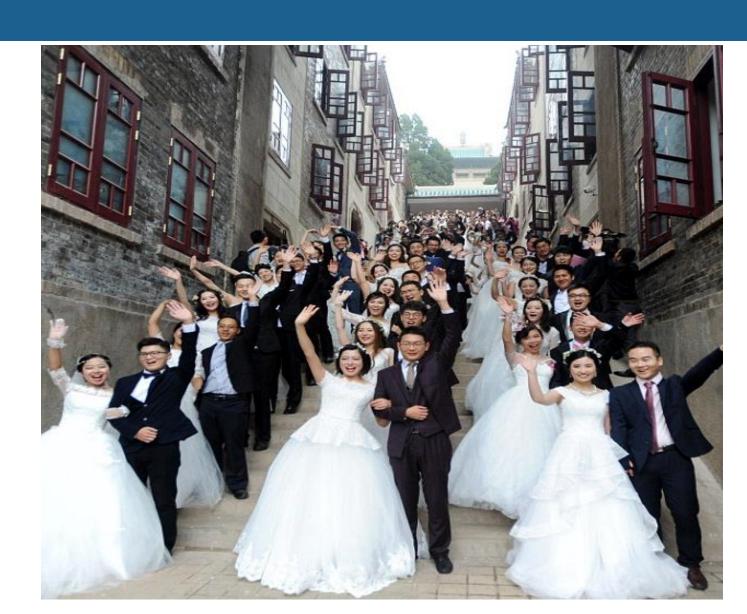
- Changes in energy mix and consequences
- Subsidy schemes
- Adequacy plans
- Grid investment plans
- Capacity allocation on borders
- Market development

How to organize Regional Energy Forums?

- High level representation from participants
- Biannual meetings, delivering road maps and following up on progress
- Each state is part of at least one REF
- REF secretariat need to ensure continuity and focus on regional tasks not national

Need a 'YES I DO" from many at the same time

Regional Energy Forums will ensure speed and significant welfare gain



All good things starts in regions!

Thank you for the attention

