The Role of TSOs in European Electricity Market

Zbyněk Boldiš
Executive Director Energy Trade & International Relations

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Presentation Outline

- System development and operation
- Market facilitation
- Code development
- Conclusion
Backbone of the electrical system

Transmission

380 kV
220 kV
110 kV

Distribution

20/10 kV
380 V

Municipal Supply
Industry

Domestic consumer
Small/medium size industry

Large scale Industry
Real time system operation

Use of Balancing Power

- Consumption
- Production

frequency set point
50 Hz
Czech market – physical power

Competition in Generation and Trade

Distribution (ČEZ, E.ON, PRE)

Choice of Supplier

Supply (Retail)

Eligible Customers

Market Operator

Traders

Import

Independent Power Producers

ČEZ

ERÚ

 électrique régulateur d'état
Czech market – ancillary services

- Autogenerators
- Consumers
- Island operation

Regulated

Competitive

Cash flows
- System services
- Ancillary services
ENTSO-E: consultation process in line with stakeholders’ resources

- Complementary ENTSO-E & ACER stakeholder consultation
- Separate & non-overlapping stages in consultation process
Roles of TSOs – Summary

- System development / system adequacy
- System responsibility (balance)
- Market facilitation
  - Active involvement in market design
    - Procurement of operational reserves
    - Balancing Market
  - Congestion management
    - Redispatch
    - Capacity allocation
  - Market coupling
  - Indication of regional power and energy balances
- Code development - together with EU bodies
Conclusion

- TSOs play a central role in in the operational security of the power system and in facilitating efficient functioning of the EU electricity market
- TSOs also actively contribute to the EU market design and development
  - within the given powers and means
  - by taking initiatives, making proposals and enhancing utilization of market oriented approach
ČEPS – well unbundled connectivity

Zbyněk Boldiš
Executive Director Energy Trade & International Relations

ČEPS, a.s
Elektrárenská 774/2
Praha 10
boldis@ceps.cz
www.ceps.cz