SmartNET Final Event
Ancillary services from distribution networks and TSO-DSO coordination modalities - The view of DSOs

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About E.DSO

- Founded in 2010
- DSO-only Association
- E.DSO Members connect >70% of European customers
- Focused on electricity
- Committed to innovation
- Participation in 9 EU-funded projects
- Participation in all EU expert groups in Smart Grids (SGTF, ETIP SNET, TSO/DSO Platform)

Members

- 23 Countries
- 39 Companies
- 3 Associations

- AT: EnergieNetz Steiermark
  - Netz Niederösterreich
- BE: Parijs
  - ORES
- CH: Services Industriels de Genève
- CY: Electricity Authority of Cyprus
- CZ: E2G Distribuce
  - PREDistribuce
- DE: E.ON
  - EWU Netz
  - Netze BW
  - innogy
  - Rheinische NETZ Gesellschaft
  - Stromnetz Hamburg
- ES: Hidroeléctrica Distribución Electrica
  - Endesa Distribución Electrica
  - Iberdrola Distribución Electrica
  - Union Fenosa Distribución
  - Vengan Distribución Electrica
- FI: Carina
- FR: ENEDIS
- GR: HEDNO
- IE: ESB Networks
- IT: Avel
  - e-distribuzione
  - Istiti
- NL: Alliander
  - Eneco
  - Netbeheer Nederland
  - STEEDIN
- PL: Energa Operator
  - Energia Operator
  - PGE Dystrybucja
- PT: EDP Distribuição
- RO: e-distributie Banat
  - e-distributie Dobrogea
  - e-distributie Muntenia
- SI: SOOD
- SK: Vallenstäd
- SE: ETEK GRIDS
  - (DSOE)
The evolving role of the DSOs

Unidirectional → Passive → “Hardware”-based

Multidirectional
Cross-sectoral

Active customers
Market facilitation

Digital
Flexible operations

NOW

Power plant → Transmission → Distribution system operators → Demand-side participation

Wind integration, CHP connection, PV Integration

Active network management, Energy storage, EV Charging
System Operators and Flexibility

In both cases, efficient cooperation between DSOs and TSOs is key to ensure the smooth functioning of the sustainable energy system.
EU Energy Policy context

**Technical**
- Standards
- Network Codes
- Technical groups (CIRED, ...)

**Policy**
- TSO/DSO Platform
- Clean Energy Package
- EC’s Smart Grids Task Force

**Research**
- ETIP SNET
- Projects (CoordiNet, INTERRFACE ...)
- BRIDGE
Latest policy activities

Clean Energy Package

Electricity Market Design Directive
- Smart metering
- Data management
- Data access
- DSOs’ & TSOs’ future roles
- Flexibility

Electricity Market Design Regulation
- DSO/TSO responsibilities
- Network codes
- Data management
- DSO Entity

Both files to be approved in Q2 2019

TSO/DSO Platform

TSO/DSO report on an integrated approach to Active System Management

Published on 16 April 2019

EC’s Smart Grids Task Force

Expert Group 3 (EG3) report on barriers and recommendations for the deployment of flexibility.

To be published in May/June 2019
Following-up with new projects

- **2016-2019**
  - SmartNet

- **2019-2022**
  - CoordiNET

- **2020**
  - New ES-5 (TSO/DSO/Consumers)
    - 2020 project
  - INTERFACE project
Thank you for your attention!