





ECDSO-E for Smart EnC

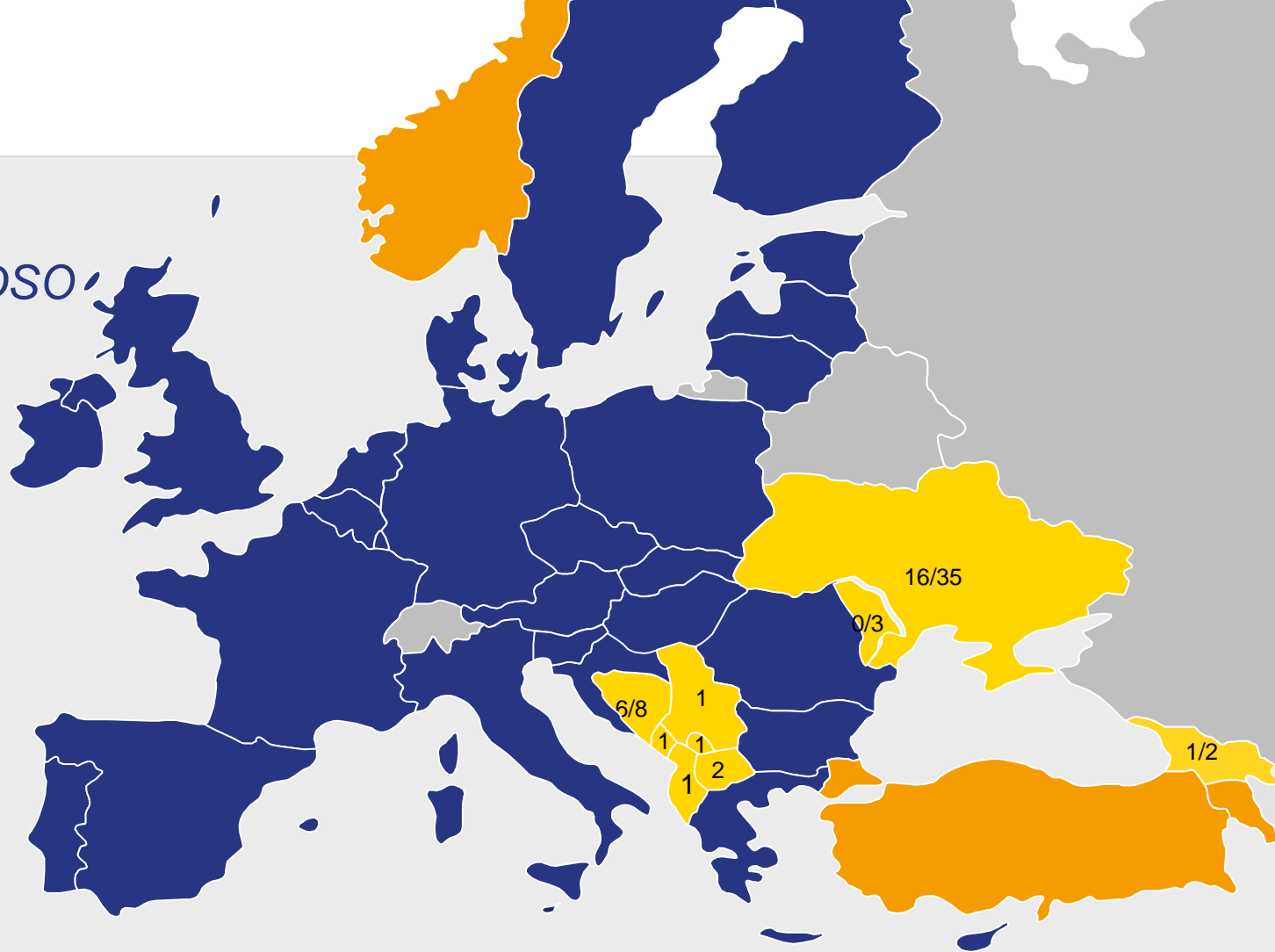
ECDSO-E in the Security of Supply Coordination Group

4th meeting of the Security of Supply Coordination Group

Subgroup for Electricity

ECDSO-E
representing 30 DSO

-  European Union
-  Contracting Parties
-  Candidate
-  Observers



Participants identified the following topics of interest for further coordination

- ***smart meters,***
- ***integration of renewables,***
- ***unbundling,***
- ***cost reflectivity of tariffs and prices,***
- ***investment incentives,***
- ***treatment of losses and thefts,***
- ***load profiles.***

The process, consultations and accomplishments



POLICY GUIDELINES
by the Energy Community Secretariat
on the Grid Integration of Prosumers

PG 01/2018 / 5 Feb 2018



Position paper on connection cost

Network security and risk preparedness (contribution to OSCE Handbook)

Guidelines and toolbox for DSO unbundling

Distributed generation:

- Position paper on self consumption for discussion
 - Policy Guidelines

Network tariffs

- Study to develop policy guidelines for network tariffs
 - Policy Guidelines

New ECDSO-E coordination group setup



- **Adopted scope of work and organisational structure**
- **Appointed governance structure**
- **Web portal for communication and data exchange developed**
- **Prioritised topics of interest**
- **Appointed convenors of the ECDSO-E Task Forces**
- **Appointment of the experts in the ECDSO-E task forces**

- ***To facilitate implementation of the Directive 2009/72/EC and Directive 2005/89/EC***
- ***To follow up conformity of practices, processes and activities, make assessments, develop official position and guidance documents***
- ***To follow up development of regulations and its implementation***
- ***Cooperation with other working parties within EnC and SoS CG***
- ***Support individual DSOs in the management of transition and coordinate interlinked activities***
- ***To establish and maintain liaison and cooperate with other stakeholders in the EnC, as an integral part of the SoS CG***
- ***Web based platform: <http://ecdsoe.org/>***

ECDSO-E Coordination Group

Members:

Officials/representatives of the DSO's of all interested parties from the EnC, observers and participants to the EnC Treaty, experts and officials of the ECS, representative stakeholders

Governance:

Chairperson, two vice Chairpersons, ECS's moderator

Meetings:

Routine meetings at least twice per year or when considered necessary

Special task force groups

well defined tasks (ToR) and time frame
convenor and experts nominated from ECDSO-E
reporting to ECDSO-E

Joint working groups within the SoS CG

expert teams working under work plan of the SoS CG
experts nominated by ECDSO-E
reporting to ECDSO-E

Technical networking groups

experts in particular field of TN
convenor and experts nominated by ECDSO-E
reporting to ECDSO-E

Compliance officers networking group

compliance officers or experts of the DSO's
convenor nominated by ECDSO-E
reporting to ECDSO-E

Discussed tasks and topics of common interest



Prioritization of tasks is necessary and thereof establishment of task forces groups appropriately!

- *benchmarking (data collection and sharing)*
- *cost reflectivity of tariffs and prices*
- *DSO unbundling*
- *E-mobility*
- *grid connections*
- *integration of renewables*
- *investment incentives*
- *load profiles*
- *quality of service*
- *smart meters*
- *switching supplier*
- *treatment of losses and thefts*
- *TSO2DSO activities (security, smart grid, planning)*



- *Experts, knowhow exchange*
- *Well defined Terms of reference*
- *Work plans*
- *Studies & reports*
- *Policy guidelines*
- *General terms & conditions*

Designated regional Task Force,

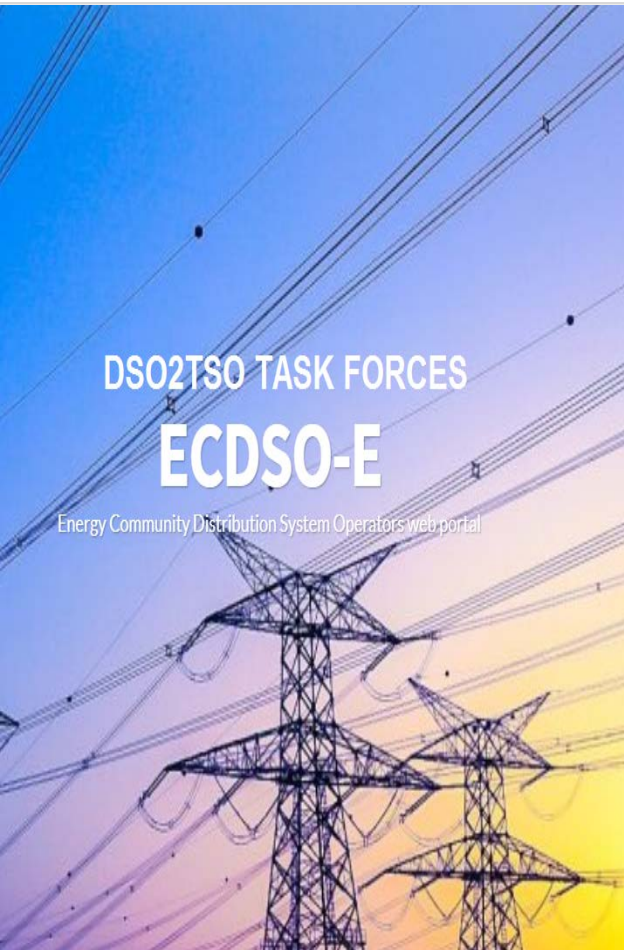
- *to cover transmission, distribution and other players' associated risks*
- *to provide inputs for right incentives in a regulatory framework*
- *to aid developing the regional Smart Grid strategy*
- *to create tools for assessment of a potential and individual impact of each measure/project.*





Proposed concept of DSO2TSO cooperation aims at facilitating the changes and adaptations of the existing systems in order to establish a full Smart Grid concept in the EnC region, the “SmartEnC”:

- improvements of the existing IT systems,
- introducing new entities (consumers and distributed generation, prosumers and other market players) into the overall communication scheme,
- development of necessary data exchange formats,
- reestablishment and introduction of new communication channels and data exchanges between TSOs and DSOs,
- Introducing Cyber Security mechanisms and procedures for the overall new IoT based technology and concept
- Other...



Objectives of the TF:

1. Improved DSO2TSO interoperability, communication, energy forecast and system operation/analysis/planning on a different time horizons (including demand side control),
2. Standard data exchange formats & common tools (Improvements in SCADA-Supervisory Control and Data Acquisition and WAMS-Wide Area Monitoring System,
3. Connection Codes Coordination,
4. Energy Infrastructure Cyber Security,
5. Quality of service on the interface.

- **Task 1 - Economy and viability of the smart grid system:** addresses business and technology trends contributing to the overall energy system optimization at affordable investment and operational costs.
- **Task 2 - Digitalisation and Customer participation:** addresses the use and impact of the Information and Communication Technologies as a pervasive tool along the entire value chain of the power generation, transportation and **use**.
- **Task 3 - Storage technologies, generation flexibility and sector interfaces (gas&oil, electricity, district heating...):** addresses the technological and market developments related to energy storage solutions to ensure the required level of flexibility for the transmission and distribution of electricity.
- **Task 4 – Innovation, implementation and project management:** Creates a common platform for analysing the progress made with technologies through-out the EnC and facilitate their scalability. Build a methodology to judge system needs in the energy transition capable of identifying tangible needs for building on progress made ...



- **Task 5 - The National Stakeholder Coordination:** provides a sounding board and exchange platform for national stakeholders in the area of energy systems and networks. Its purpose and goal is to support the implementation of a SmartEnC concept; to enable national stakeholders to contribute actively and in a coordinated way. Reflecting and commenting on, from a national stakeholders perspective, the outcomes of the regional projects and TF work. Providing a platform for DSOs/TSOs/ECDSO-E/other stakeholders to find partners and experts from a national level that are ready to contribute to the TF activities, and projects. The coordination is organised and supported by Energy Community Secretariat.

Format of cooperation ECDSO-E with TSOs – yet to be determined



<http://ecdsoe.org/>



Home ECDSO-E Datasets SmartEHC Documents News

New draft ToR for DSO2TSO TF uploaded
Dear Colleagues, the new version of the draft ToR for DSO2TSO TF has just been uploaded to the folder "Documents archive". Link: http://ecdsoe.org/groups/dso2tso-tf/documents/Best_Nenad

A large banner image showing high-voltage power lines and pylons against a blue and yellow sky. The text "ECDSO-E" is centered in white, with "Energy Community Distribution System Operators web portal" below it. Navigation arrows are visible on the left and right sides of the banner.

ECDSO-E

Energy Community Distribution System Operators web portal

Welcome to the Energy Community Distribution System Operators web portal

The background is a satellite-style image of the Earth at night, showing city lights. Overlaid on this are numerous glowing blue lines that represent energy transmission paths, connecting various points across the globe.

Thank you