

On the move:

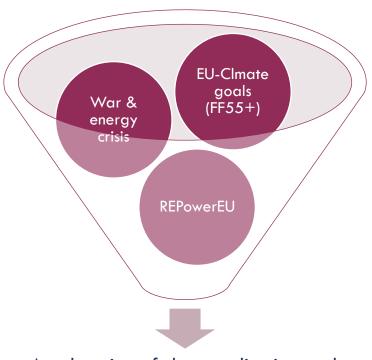
DSO Entity's strategic priorities for 2023

10 May 2023

Breakfast debate



Zoom out: 2023 EU regulatory Environment



Acceleration of decentralisation and electrification

Increased responsibility of DSOs



Additional 600 GW solar PV capacity by 2030 (from currently 165 GW) and legal obligation to install solar panels or new buildings



Installation of 30 mio. heat pumps by 2030



Expected rise in electricity demand by 100 TWh within the next five years



Phase out fossil-fueled vehicles (2035); >30 million EVs (2030), EV-charging point obligations in buildings and on the road

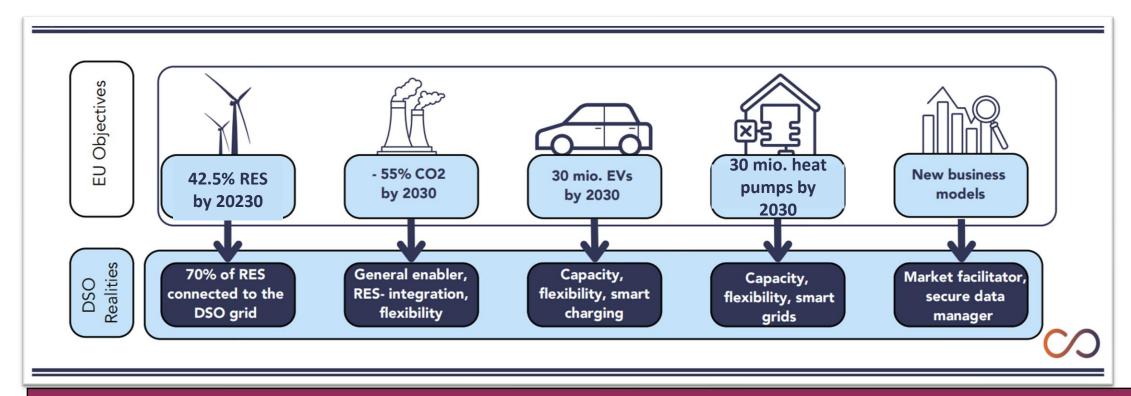


High gas and electricity prices additionally increase consumer demand for decentralised solutions





Growing relevance of DSOs on EU-level: DSOs as technical enabler of EU climate and energy objectives



Decarbonisation, decentralisation and digitalisation enhanced the role of **DSOs as key-enabler** in this energy transition.

The energy crisis and European emergency measures accelerated this trend in 2022

Outlook 2023: expected adoption

Cyber Resilience Act (1st reading)

Overlap with NCCyber

Renewable Energy Directive (Provisional agreement)

 Key role of DSOs in integrating RES Alternative Fuels infrastructure Regulation (Negotiation positions fixed)

- Obligation of roll-out of publicly accessible EV charging points
- Smart charging obligation

Energy Efficiency in Buildings Dir (Trialogue)

 Roll-out of EV charging in buildings, pre-cabling, bidirectional & smart charging obligations Electricity Market
Design
(1st reading)

 Overlap with NCDR

Energy Efficiency Directive (Provisional agreement)

DSO affected by energy efficiency targets

F-Gas Regulation (Negotiation positions fixed)

• Phase-out of SF6 in switchgear

Data Act (Trialogue)

 Overlap with data interoperability Gas Regulation (Trialogue)

Integration of gasDSOs into DSOEntity

Q2 2023

Q3 2023

Q4 2023

Q1 2024

IR Electricity metering & consumption data (Adoption pending)

Setup and start of the work of joint Working Group (DSO Entity/ENTOS-E)

NC CS (Adoption pending)

Implementation at national level

Implementing Act on data for switching and demand response
(1st draft pending)

Implementation at national level

NC DR

(ongoing development)
Submission of DSO Entity &
ENTSO-E's draft proposal



4

Starting point: New, central role of DSOs in this energy transition is highlighted throughout the plan in 4 key-messages



- DSOs are highly relevant in reaching <u>EU climate and energy objectives</u>
 - <u>Technical</u> enabler of political climate and energy goals (connex NC and goals)



- DSOs and <u>renewables</u> are partners in the energy transition
 - RES-targets and financing must go hand in hand with investments in the (decentral) grid infrastructure (digital and physical)



- DSOs empower the <u>consumer</u> provided that the right conditions are in place
 - Right (investment) conditions for DSOs as prerequisite for consumer empowerment (flexibility, data, PV/EV-connection, energy communities)



- DSO Entity is "united in <u>diversity</u>"
 - DSO Entity is uniting, representing and taking responsibility for all European DSOs with different backgrounds and needs (one size does not fit all)



Zoom in: Structured around the three core tasks of DSO Entity as mandated in Electricity Regulation 2019/943



Network Codes & Guidelines

Participates in drafting of Network Codes and Guidelines relevant for DSO grids

- Network Code Cybersecurity
- Upcoming Network CodeDemand Response
- Review of existing NC
- Further delegated implementation assignments



DSO/TSO cooperation

Promotes optimal and coordinated planning and operation of DSO/TSO networks

- MoU with ENTSO-E
- Cooperation on Network Codes
- Joint Work Programme 2022-23



Sharing best practice

Expert Groups and forum provide expertise and enable exchange of views

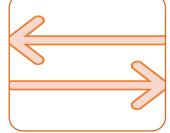
 Various forms of knowledge sharing as foreseen in the Knowledge Sharing Strategy 2023 (Webinar, Events, elaboration of priority topics)



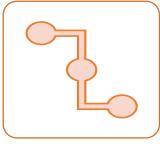
Zoom in: 1st pillar: Core Work of DSO Entity on technical files













EG Cybersecurity

Implementation of Network Code Cybersecurity (Art. 59*)

EG Distributed Flexibility

Development of Network Code Demand Respponse

(Art. 59*)

EG Data Interoperability

Set-up of Joint
Working Group
with ENTSO-E
on data role
model

(Art. 23 & 24**)

EG Existing Network Codes

Amendment of Network Codes

Grid Connection

(Art. 60*)

TF Digitalisation of the energy system

Development of **Digital Twin** and **Smart Grid Indicators** with ENTSO-E

(Art. 55(d)*)

TF Ten-Year Network Development Plan (TYNDP)

Development of TYNDP scenarios with ENTSO-E

(Art. 55(2b) & 57(1)*)

Continuation of cooperation with ENTSO-E in all areas (Art. 57*)



Zoom in: Overview of EG: priorities and keymilestones for network codes and guidelines



EG Cybersecurity

- 1 Implement NC CS
- 2 Reply to EU consultations on CS
- 3 Prepare TCMs



EG Distributed Flexibility

- 1 Develop NC DR
- Reply to EU consultations
- Communicate messages on flex





EG Data Interoperability

- Set up Joint Working Group
- Contribute to the EG1 of SGTF
- Cooperate with ebIX



New assignment EMD Art. 19c

EG Existing Network Codes

- 1 Amend Grid Connection NCs.
- 2 Interact with the ESCs
- Consider NC/GL amendments



- Define Smart Gird Indicators
- 2 Develop an EU Digital Twin
- 3 Develop a RDI strategy



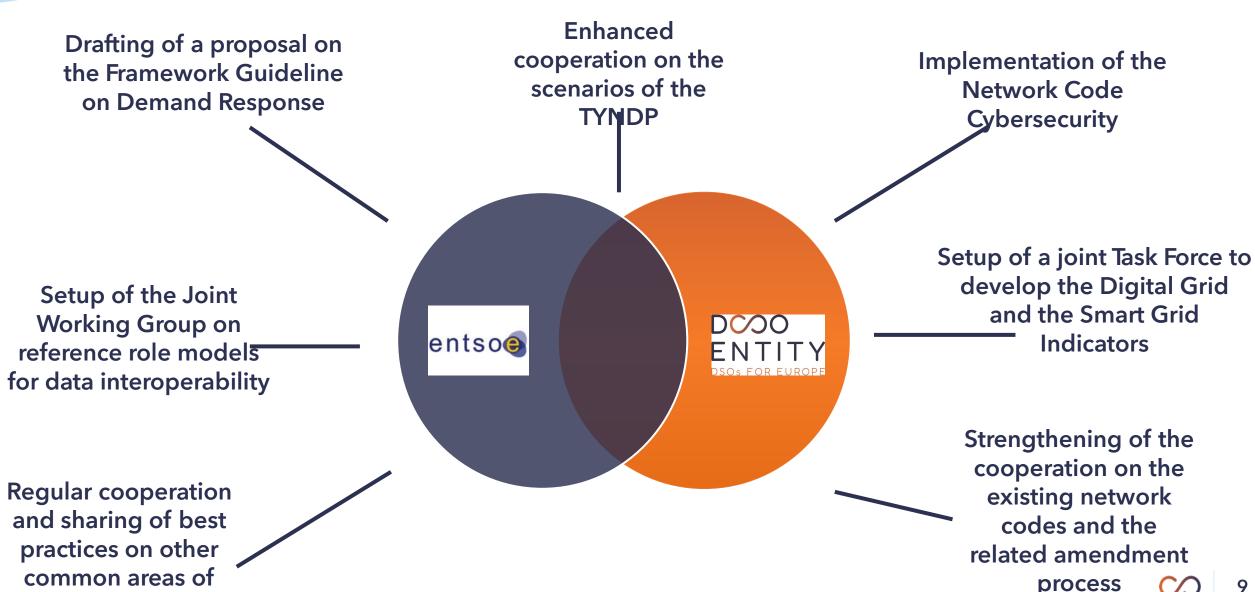


- 1 Develop TYNDP scenario
- 2 Investigate DSO PCI projects
- 3 Contribute to Knowledge Sharing



Zoom in: TSO – DSO cooperation

interests



Zoom in: Objective and development of Knowledge Sharing

Internal Sharing



INFORM and EDUCATE

With & towards members

Objectives:

- Inform and educate members
- Share and collect knowledge, experience and best practice among members (from all sizes and EU Member States)
- Support members in implementing secondary legislation DSO Entity as
 ((champion of implementation))

External outreach



EXPERTISE and VISION

Towards EU institutions & agencies, NRAs, other energy stakeholders, etc.

Objectives:

- Share knowledge on DSOs with external stakeholders
- Raise awareness on DSOs in the energy transition by sharing facts and figures and expertise based on knowledge from the ground (e.g. implementation challenges)
- Convince through credible (technical)
 expertise and «thought leadership»

Starting point Building Knowledge Sharing strategy



Member survey & expert input (intern)

European Developments (extern)



Zoom in: Structured around the three core tasks of DSO Entity as mandated in Electricity Regulation 2019/943



Network Codes & Guidelines

Participates in drafting of Network Codes and Guidelines relevant for DSO grids

- Network Code Cybersecurity
- Upcoming Network CodeDemand Response
- Review of existing NC
- Further delegated implementation assignments



DSO/TSO cooperation

Promotes optimal and coordinated planning and operation of DSO/TSO networks

- MoU with ENTSO-E
- Cooperation on Network Codes
- Joint Work Programme 2022-23



Sharing best practice

Expert Groups and forum provide expertise and enable exchange of views

 Various forms of knowledge sharing as foreseen in the Knowledge Sharing Strategy 2023 (Webinar, Events, elaboration of priority topics)



Thank you for your attention!

DSO Entity

Uniting DSOs to deliver a just energy transition



Summary: Priorities and benefits for members

Priorities & focus for 2023

Benefits for members



 Contribute to the development & implementation of Network Codes and guidelines and relevant implementing regulation



 DSO-tuned and future proof conditions to facilitate energy transition



Continue and boost constructive collaboration



- b Balanced approach on TSO/DSO issues to all levels of the grid
- More integrated view for entire grid



- Internal: share best practices among members
- External: inform about the role of DSOs in energy transition



- **Platform** for member engagement
- **Unique voice** and credible institution