

# ENTSO-E Annual Work Programme 2025

Public Webinar

10 July 2024, 14:00-15:30 CEST



# Organisational details



**Webinar planning: approx. 1.5 hours**

**Interactive (Q&A + MS Teams Polls in the Chat)**



**All participants must stay muted when not speaking  
Speak only when given the floor by the moderator**



**All the questions and comments in the MS Teams will be addressed preferably during the webinar.  
If questions remain open, they can be addressed offline bilaterally.**



**During the Q&A the participants can raise the hand to ask a question / make a comment  
The moderator will give you the floor**



**Recording/streaming is needed to ensure transparency. If you object, please let us know.**

# Poll in MS Teams

In your opinion, which parts of the AWP 2025 are the most important ones?

- System Operations
- Market
- System Development
- Transparency Regulation
- Research, Development and Innovation
- New Network Codes
- Cooperation on the Transmission and Distribution Interface
- Interoperability and Data
- Monitoring and Reporting activities



47 responses



# Agenda of this webinar follows the structure of draft AWP 2025



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System Operation

Market

System Development

Transparency Regulation

Research & Development

New Network Codes & Guidelines

T&D interface

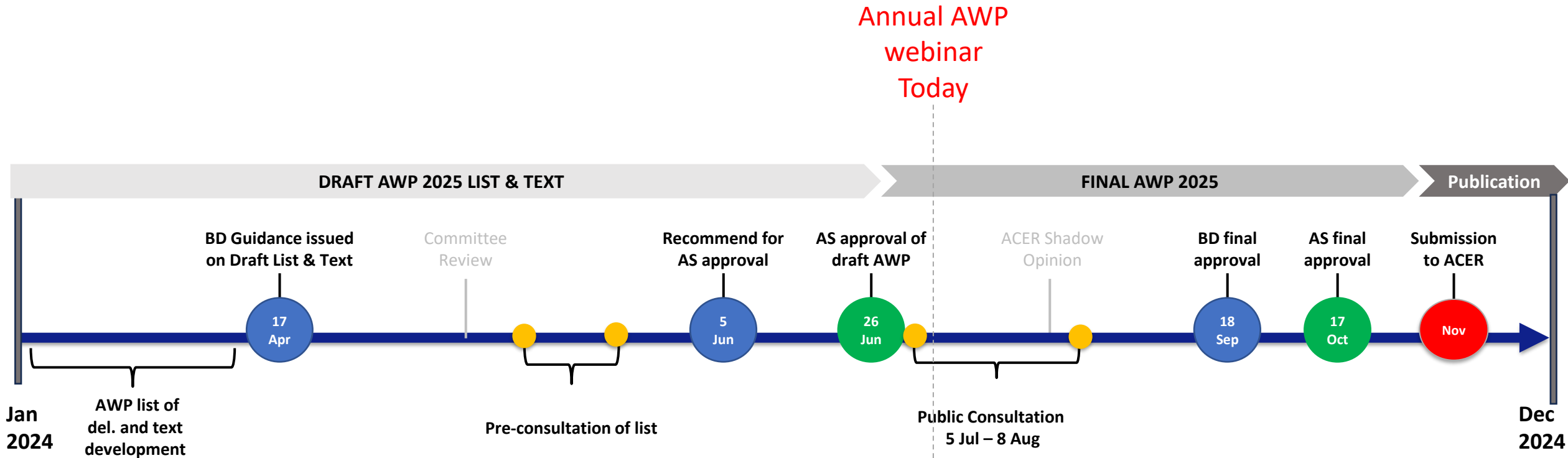
Interoperability Reporting

# Agenda

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<b>3. General feedback via poll</b>	15.15-15.30

# AWP 2025 – High- Level Timeline

AWP 2025 preparation foresees a consultation approach and approval process.



- Board (BD) meeting
- Assembly (AS) meeting
- Public consultation

# AWP 2025: Introduction

ENTSO-E Annual Work Programme (AWP) 2025 is open for public consultation until 08 August 2024

## Overview



- ENTSO-E publishes every year an Annual Work Programme as obliged under REGULATION (EU) 2019/943 on the internal market for electricity.
- AWP focuses on the legally mandated tasks given to Transmission System Operators (TSOs) and the European Network of TSOs (ENTSO-E) directly by European Union (EU) Regulations, Directives and Network Codes and Guidelines as well as the related terms and conditions or methodologies.

## Why your views matter



- The elaboration of the [Annual Work Programme – 2025](#) and its successful implementation - hinges on the input provided by our stakeholders.
- Your comments are valuable to us in order to improve the draft found in the open public consultation.
- AWP team will provide feedback to those who provided comments.

## Public consultation open on ENTSO-E's consultation hub until 8 August 2024

[Consultation on the ENTSO-E Annual Work Programme 2024 - European Network of Transmission System Operators for Electricity - Citizen Space \(entsoe.eu\)](#)



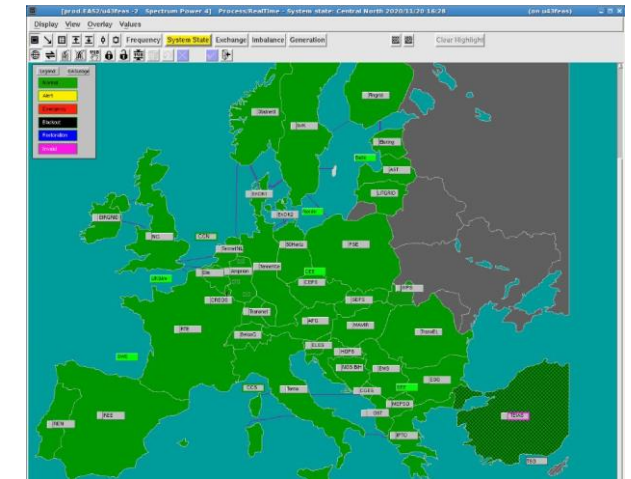
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## European Awareness System

- Achieved:
  - the integration of data from the Wide Area Monitoring System (WAMS) --> operators were provided with an enhanced frequency map and new voltage and angle maps. Furthermore;
  - the integration of data from balancing platforms
- Due to the expected end of the current EAS based on Siemens SPECTRUM 4 at the beginning of 2027, ENTSO-E will focus on preparing the transition to a new system.
- The plan is to develop some easily implementable functions based on WAMS data and develop an ex-post analytical platform for the purpose of analysing operational events (as provided by the recommendations from the 2021 grid incidents reports)



# AWP 2025 – Operations highlights

## Common Grid Model

- The CGM and OPDE are critical enablers of the operational coordination and the security of supply on the European level.
- The legal basis for the CGM and OPDE is found in three of the Network Codes: The SOGL (Art. 64), the Capacity Allocation & Congestion Management (CACM) Regulation (Art. 17) and the Forward Capacity Allocation (FCA) Regulation (Art. 18).
- A CGM compiles the Individual Grid Models (IGMs) of each TSO, covering timeframes from one year before real time to one hour before real time. TSOs' IGMs, after following a quality assessment and pan-European alignment process, are provided to RCCs, who merge them into a pan-European CGM and feed the merged CGM back into the OPDE system.
- The CGM is a prerequisite for several services harmonised in the Network Codes, including Coordinated Capacity Calculation (CCC), Coordinated Security Analysis (CSA) and Outage Planning Coordination (OPC).
- In 2025, further work would be done to ensure the pan-European CGMs generated are fit-for purpose for the different regional and pan-European services, but also to improve the performance of the system with the faster delivery of the grid models on OPDE.

## Regional Coordination Centers

- Regional coordination first became a legal mandate in SOGL with five core tasks to be performed by RCCs and was expanded in the Clean Energy Package and Regulation (EU) 2019/943 to become 16 tasks.
- RCCs are entities owned and appointed by TSOs in System Operation Regions (SORs) to fulfil tasks according to Art 37.1 of Regulation (EU) 2019/943.
- Through their recommendations to TSOs, RCCs contribute by the efficiency in system operation coordination, minimising the risks of wide-area events such as brownouts or blackouts, and lowering costs by ensuring the maximised availability of transmission capacity to market participants
- ENTSO-E will focus on the following services in 2025:
  - Art. 37 (1)(g): Training and Certification
  - Art. 37 (1)(h): Supporting restoration
  - Art. 37 (1)(j) and Art.37 (1)(k)
  - Art. 37 (1)(l): Inter-TSO settlement
  - Art. 37 (1)(o): Maximum Entry Capacity
  - Art. 37 (1)(p): The need for new infrastructures

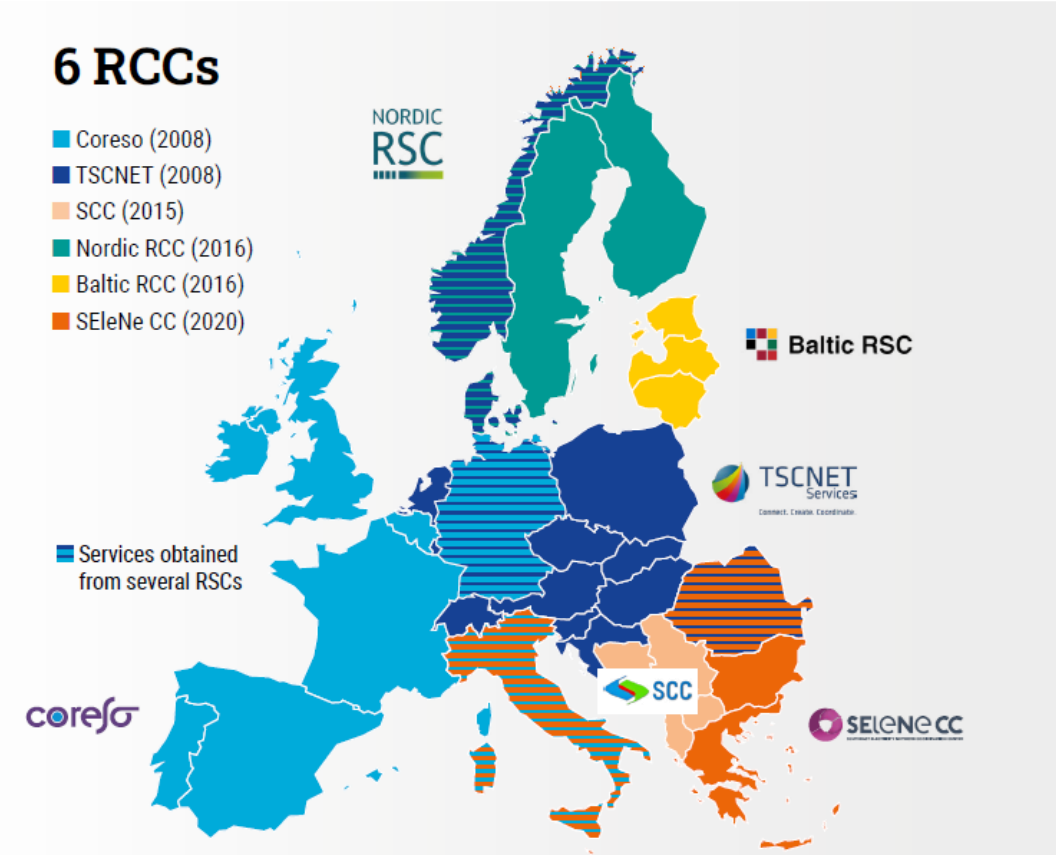


Figure 1: Map that shows the main Member States related to an RCC\*

\* Norway and Denmark is serviced by both NRCC and TSCNET, Germany is serviced by both TSCNET and Coreso, Italy is serviced by both TSCNET and Selene-CC, and Romania is serviced by both Selene-CC and TSCNET. Kosovo borders are indicated in the RCC map as KOSTT signed the Connection Agreement with ENTSO-E in 2020. This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence. Kosovo is as of yet not serviced by an RCC.

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# AWP 2025 – Market highlights

## CACM - Capacity Calculation and Congestion Management (Day ahead and Intraday Timeframe)

- Implementation of the Algorithm Methodology with implementation of 15-minute products in Day Ahead by Q1 2025 and implementation of Flow based allocation in the intraday timeframe. The review of the effectiveness of the algorithms is to start end of 2025.
- The intraday cross-zonal gate closure time will need to be amended to be set at maximum 30 minutes before delivery.
- Congestion Income Distribution methodology – cross CCR CID to cope with Advanced hybrid coupling and assessment of the methodology.
- Capacity Calculation Region: assessment of the configuration of the CCRs by 3 months after the implementation of the first regional operational security coordination in Core , EnC CCRs
- Follow up on the bidding zone review
- Follow up on the amendment of the CACM Regulation

## FCA - Forward Capacity Allocation - Long Term Timeframe

- Long Term Market implementation
- Harmonised allocation Rules
- Assessment of the Long-Term Market



# AWP 2025 – Market highlights

## EBGL – Electricity Balancing Guideline - Balancing Timeframe

- Harmonisation of Cross-Zonal Capacity allocation processes – implementation of ACER’s decision, expected in January 2025.
- Implementation of amendment proposals of the European methodology for balancing energy pricing and the Implementation Framework for aFRR Platform (high price mitigation measures)
- Amendment proposal to RCC Procurement Methodology (Art. 37(1)(k) of Internal Market for Electricity) – to be submitted to ACER in mid-2025
- European Balancing Platforms – continuous implementation

## IEM – Regulation on the Internal Market for Electricity - ITC

- Implementation of the main recommendations formed in 2024 with regards to the number of snapshots, the pricing of transit losses, and more generally the method for estimating the volume of transit losses.
- Advise policymakers where necessary improvements require legislative change

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### Ten Year Network Development Plan (TYNDP) 2026

- Scenarios 2026 jointly developed with ENTSOG
- Assessment of system needs (onshore and offshore) and 2<sup>nd</sup> edition of the Offshore Network Development Plans
- Cost-benefit analysis of infrastructure projects

Also in long-term planning:

- Interlinked Model
- Cost-sharing per sea basin

### European Resources Adequacy Assessment (ERAA) 2025

- 5<sup>th</sup> edition of the ERAA

### Seasonal Outlooks

- Summer Outlook 2025
- Winter Outlook 2025-2026

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Transparency Platform (TP) implementation to comply with the updated Manual of Procedures (MoP v3r4 and MoP v3r5)



Finalisation of MoP v3r5 addressing new publication obligations and improvement of existing publications.



Finalisation of TP Redesign and TP Vision projects, resulting in a new GUI for TP and new backend architecture, contributing to enriched user experience and better performance



Implementation of statistical data on TP, the enduring solution for the publication of the ENTSO-E Statistical Data Portal Reports and Statistical Factsheet.



Development of the TP to accommodate the provision of data included in the FCA and EB list of information. The data submitted will not be available to the public but shared only with ACER for its monitoring.



TP App Re-invention– providing users with a new mobile app with extensive data, new functionalities and ways to engage with TP data with ease of access.



TP Data Quality improvements, including improved compliancy metrics and introduction of new/updated monitoring measures.



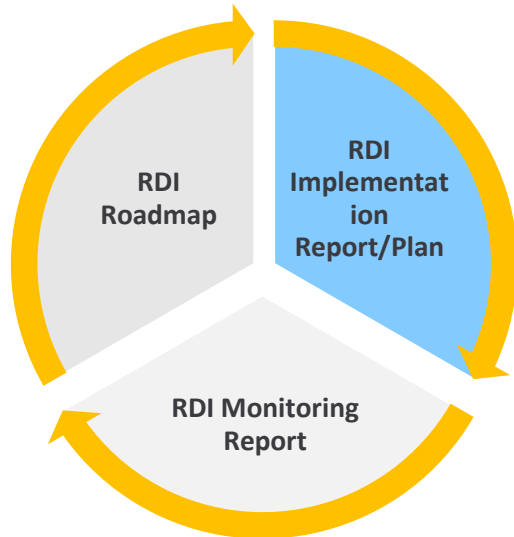
Close cooperation and engagement with users via newly established Co-creation User Group and ETUG, involving them in implementation of TP Vision 2030 strategic actions.



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## RDI Planning & Implementation



### RDI Implementation:

- **RDI programs** based on the priority milestones of the **new RDI Roadmap 2024-2034** to bridge between planning and implementation:
  - enhance flexibility and market mechanisms
  - tools and strategies for optimal cross sectors integration
  - enhance grid use and sustainability
  - onshore and offshore grid development and integration
  - secure stable operation of the hybrid AC/DC grid
  - enhance control and interoperability through digitilisation

## Cooperations – External projects

- Uptake of outcomes of RDI projects and programmes into ENTSO-E legal mandates and TSOs activities
- Cooperation with stakeholders & policy makers via ETIP SNET and SET plan activities led by the EC



(2022-2025)

Create a common knowledge base for interoperability activities on energy services

12 partners (incl. ENTSO-E, E.DSO and FSR)



(2024-2026)

Create an adaptable federated Pan-EU

digital twin ecosystem / 75 partners across 15 EU countries, with 13 TSOs

## Strategic Priorities, Mandates and EU Action Plans



### Specific recommendations

1. ENTSO-E will produce with relevant stakeholders a pan-European **assessment of flexibility needs** for the whole timespan of the energy transition, to guide a cost-efficient deployment of flexibility resources.

### Article 19e

Assessment of flexibility needs



## Flexibility: Priority for the energy system, priority for ENTSO-E

ENTSO-E has been working on implementing its Vision for a Power System for a Carbon Neutral Europe addressing system flexibility needs in preparation of the EU's Electricity Market Design mandate to ENTSO-E and EU DSO Entity to develop a methodology for the for the Analysis by TSOs and DSOs of the national flexibility needs. This work-stream that has officially started in Q2 2024 will deliver results in 2025.



### Energy System Flexibility

Balance the increased weather dependency & system complexity

## EU Action Plans

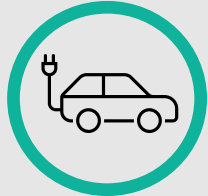
**Digitalising the Energy System EU Action Plan:** Joint work with the EU DSO Entity that is ongoing since 2023. Focuses on the development of a common framework for a digital twin which can enhance the efficiency and smartness of the grid.

**EU Grid Action Plan (Action 7):** Joint work with EU DSO Entity to update a catalogue of innovative technologies so as to promote uptake of smart grid, network efficiency and innovative technologies.

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# AWP 2025 – NC on Demand Response



✓ Streamlined **participation of distributed flexibility** (e.g. electric vehicles, heat pumps, batteries) in TSO and DSO services



✓ Enhanced **harmonization** across EU, allowing Flexibility Service Providers to deploy their solutions in several countries



✓ Accelerated **decarbonization** of the power sector, by allowing more renewables to connect to the grid



Content

Simplified market access rules for flexibility assets

Harmonized requirements and standards for service providers

Market design principles for congestion management and voltage control

Coordinated use of flexibility to ensure efficiency

National T&Cs and EU-wide TCMs to complement the code

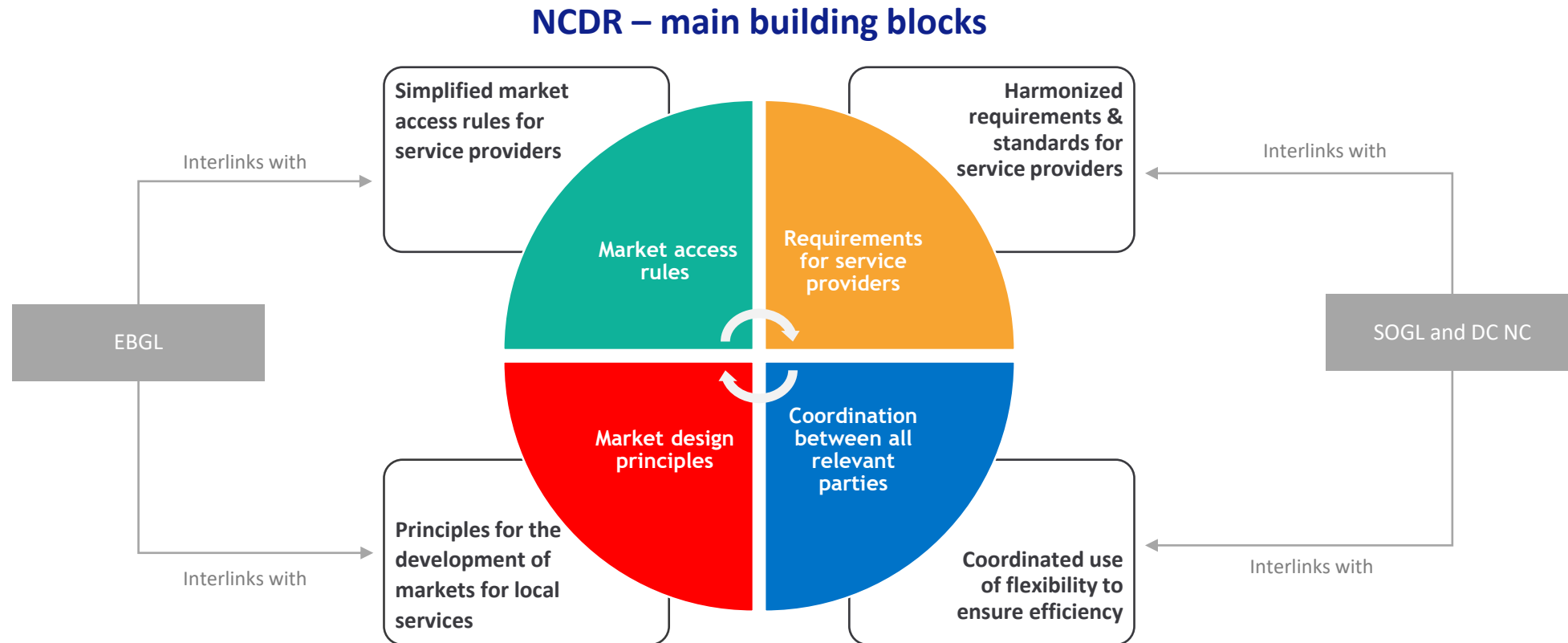


Timeline





# AWP 2025 – NC on Demand Response



In 2025, ENTSO-E and the EU DSO Entity will work together in establishing the framework for the implementation of this new Network Code, which will include new tasks for both Associations and Member States.

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- Network Code on Cybersecurity (NCCS) entered into force on 13th June 2024.
- TSOs with the assistance of ENTSO-E and in cooperation with the DSO Entity have launched the implementation phase.
- During 2025, the particular focus (but not exclusively) will be on:
  - developing the cybersecurity risk assessment methodologies;
  - preparing provisional list of European and international standards and controls;
  - developing the cybersecurity incident classification scale methodology;
  - preparing a template to perform cybersecurity exercises at entity and national level.

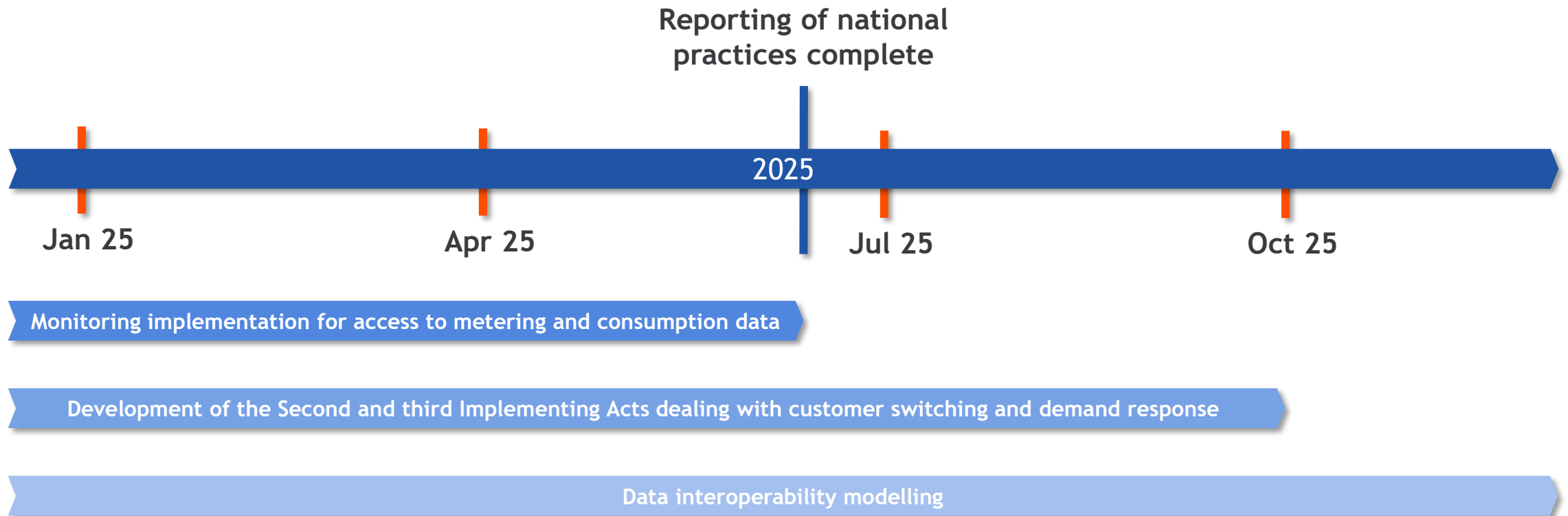
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# AWP 2025 – Implementing acts on data interoperability

- Background – **Article 24(2) IEM Directive**: In 2023, EC adopted the **First Implementing Regulation** on interoperability requirements and non-discriminatory and transparent procedures for access to metering and consumption data
- As part of this Implementing Regulation, ENTSO-E and EU DSO entity established a **Joint Working Group (JWG)** on data interoperability.
- **Second and third Implementing Acts** dealing with customer switching and demand response (adoption in 2025/26) is currently being developed by the **JWG Task Force 2** (Task Force for development of implementing regulations)
- The main tasks of the **JWG** includes:
  - i. Developing guidance** to assist Member States in the reporting of national practices
  - ii. Collecting the reports** of national practices provided by Member States regarding the implementation of the reference model
  - iii. Publishing the reports** in a publicly available repository which shall be kept up to date
  - iv. Monitoring the implementation** of the reference model included in this IA and its further development
  - v. Supporting the EC**, upon its request, in developing the IA on Demand Response, customer switching and other services.

# AWP 2025 – Implementing acts on data interoperability



# Agenda

Topic	Time
<b>1. Welcoming participants</b> <ul style="list-style-type: none"><li>AWP 2025: Introduction (structure, focus on legal mandates)</li><li>EU grid action plan as overarching target trigger (14 concrete actions)</li></ul>	14:00 – 14:15
<b>2. Presentations and Q&amp;A:</b> <ul style="list-style-type: none"><li><i>System Operations (European Awareness System, Common Grid Model and Regional coordination Centres)</i></li><li><i>Market (CACM, FCA, EB GL and ITC)</i></li><li><i>System Development</i></li><li><i>Transparency Regulation</i></li><li><i>Research and Development</i></li></ul> <b>New Network Codes – Implementation:</b> <ul style="list-style-type: none"><li><i>NC Demand Response</i></li><li><i>NC Cyber Security</i></li><li><i>Implementing acts on data interoperability</i></li><li><i>CNC amendments</i></li></ul> <ul style="list-style-type: none"><li><i>Cooperation on the Transmission and Distribution Interface</i></li></ul> <ul style="list-style-type: none"><li><i>Interoperability and Data</i></li><li><i>Monitoring and reporting activities</i></li></ul>	14:15 – 15:15 (5 min per topic)
<b>3. General feedback via poll</b>	15.15-15.30



# AWP 2025 – CNC amendments

[Link](#) to the existing IGDs on ENTSO-E website

## Amendment process of CNC

- 17 June to 8 September 2024: ACER launched the public consultation for NC HVDC amendment.
- ENTSO-E expects entry into force of the amended CNCs is expected end of 2024/early 2025. In this case, ENTSO-E focuses on implementation guidance documents (IGDs) in 2025. If the delayed, ENTSO-E's work on CNC implementation will also be delayed.

## CNC-related deliverables / action items in ENTSO-E AWP 2025

- Implementation Guidance Documents (IGDs) development for new topics introduced by amended CNCs, i.e. grid forming capabilities: drafting, consultation and publication after the entry into force of the amended CNCs
- Update of the app. 30 CNC-related IGDs that are already published on ENTSO-E website
- NC RfG and NC HVDC: collection and delivery of the *list of NC monitoring information* to ACER(see separate slide)

# AWP 2025 – CNC amendments

## List of NC monitoring information to ACER

- Aiming at monitoring the implementation of the NC RfG and the NC HVDC, and according to the 714/2009 regulation, ENTSO-E has the legal mandate to provide ACER data on the installed capacities per member state, for monitoring of:
  - Compliant/non-compliant PGMs
  - HVDC systems
  - DC-PPMs
- The data provided reflect the status of all PGMs, HVDC systems and DC-connected PPMs connected to the relevant Member State electricity system, as at 31st of December of the preceding year.

# Agenda

Topic	Time
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# Cooperation on the Transmission and Distribution Interface 2024-2025

Following up on Art. 55 (2) of Regulation (EU) 2019/943, ENTSO-E and EU DSO Entity signed an MoU which also foresees an agreed yearly work programme

1. Energy System Flexibility	2. Operate the System of Systems	3. Grid Infrastructure: Design, Plan, Deploy the System	4. Empower the final consumer through digitalisation	5. Other areas of cooperation
<p><b>1.1</b> Network Code Demand Response (NCDR)</p> <p><b>1.2</b> Network codes and guidelines updates triggered by NCDR</p> <p><b>1.3</b> Flexibility needs assessment: methodology (national) requested by EMDR)</p>	<p><b>2.1</b> Network Code on Cybersecurity</p> <p><b>2.2</b> Cooperation on amendments of existing Network Codes: NC RfG and NC DC</p>	<p><b>3.1</b> Ten-Year Network Development Plan scenarios</p> <p><b>3.2</b> EU Grid Action Plan (GAP) –#Action 6</p> <p><b>3.3</b> EUGAP # Action 7</p> <p><b>3.4</b> EUGAP #Action 13</p> <p><b>3.5</b> Digitalisation of Energy Sector Action Plan (DESAP) and Smart Grid Indicators</p>	<p><b>4.1</b> Implementing Acts on Data Interoperability</p> <p><b>4.2</b> Common Energy Data Space</p>	<p><b>5.1</b> Assessment of the need for a common IT-platform for ENTSO-E and EU DSO Entity</p> <p><b>5.2</b> Assessment of the need to amend the Memorandum of Understanding (MoU) or replace it by a cooperation agreement</p> <p><b>5.3</b> Common Events</p>

# Agenda

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# AWP 2025 – Interoperability and Data

## Main activities in 2025 will include :

- **Developing** and **maintaining** the Electronic Data Interchange (EDI) library and the Common Grid Model Exchange Standard (CGMES) library
- **Development** of the Common Information Model (CIM) and implementation guides to support data exchanges required from the Network Codes and Clean Energy Package
- **Work** on international standards
- **Updating** the CGMES and RCC services data exchange profiles
- **Training activities** for the TSO–RCC community
- **Maintaining** the harmonised role model, participating in the Joint Working Group and contributing to the development
- **Implementation** and monitoring of data interoperability implementing acts and access
- **Contributing** to Common Energy Data Space and Digital Twin discussions as foreseen in DESAP
- **Implementing** Art. 55 (2)(a, b, c) of Regulation (EU) 2019/943 and Art. 24 of Directive (EU) 2019/944

# Agenda

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# AWP 2025 – Monitoring highlights

## Market Report

- Highlights developments made in the day-ahead (DA) and intraday (ID) coupling, forward capacity allocation, and balancing markets.
- Presents an overview of current and future developments impacting the European electricity market.

## Capacity Calculation and Allocation Report

- Outlines the results of monitoring the implementation of the coordinated capacity calculation processes in each Capacity Calculation Region (CCR) in ID, DA, and long-term timeframes.

## System Operation Monitoring Reports

- Annual reports on incident classification scale and load-frequency control highlighting any trends that might impact operational security negatively in the future.
- Biennial report presenting the improvements made by TSOs regarding the development of a probabilistic risk assessment methodology.

## CNC Monitoring Report

CNC monitoring reports are no legal obligations in CEP anymore, but ENTSO-E delivers the report case-by-case on a voluntary basis (not planned for year 2025 for now)

# Agenda

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# Poll: General Feedback – in MS Teams

How would you rate the webinar?



How would you rate the speakers?



What can be improved?

Interactions  
detailed information polls  
Tiemliness and sharing Q  
bit more time sharing of links  
presentation  
listeners

Our values define who we are, what we stand for and how we behave.  
We all play a part in bringing them to life.



## EXCELLENCE

We deliver to the highest standards. We provide an environment in which people can develop to their full potential.



## TRUST

We trust each other, we are transparent and we empower people. We respect diversity.



## INTEGRITY

We act in the interest of ENTSO-E



## TEAM

We care about people. We work transversal and we support each other. We celebrate success.



## FUTURE THINKING

We are a learning organisation. We explore new paths and solutions.

**We are ENTSO-E**