

ENTSO-E Annual Work Programme 2024

Public Webinar

12 July 2023, 14:00-15:30 CEST

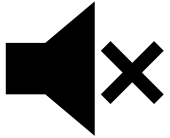


Organisational details



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.

Agenda

Topic	Lead	Time
1. Welcoming participants AWP 2024: Introduction	<i>Eva-Marie Kurscheid</i> <i>Pavlos Natsis</i>	14:00 – 14:15
2. Presentations and Q&A: <ul style="list-style-type: none"> • System Operations (3rd Country TSO collaboration, Risk Preparedness and European Awareness System) • Market (CACM, FCA, BZ, ITC) • System Development (TYNDP 2024, Adequacy) • Transparency Regulation • Research and Development: <ul style="list-style-type: none"> ➤ <i>RDI Roadmap 2024-2034</i> ➤ <i>RDI implementation programs</i> ➤ <i>Innovation cooperations on EU level (Horizon-projects)</i> • Cooperation on the Transmission & Distribution Interface: <ul style="list-style-type: none"> ➤ <i>NC Demand Response</i> ➤ <i>Implementing acts on data interoperability</i> ➤ <i>NC Cybersecurity</i> • Interoperability and Data • Monitoring activities 	<i>Alina Neagu</i> <i>Ludivine Marcenac & Mark Csete</i> <i>Lea Dehaut</i> <i>Sara Mikhael</i> <i>Bajame Allmeta</i> <i>Sultan Aliyev</i> <i>Benedikt Stöfl / Carla Rubí Caellas</i> <i>Ron Wibbelink</i> <i>Olivier Aine</i> <i>Ramona Gruegelsiepe</i>	14:15 – 15:15 <i>(5-7 min per topic)</i>
3. Poll and Q&A	<i>Eva-Marie Kurscheid/ Volha Veramyeva</i>	15.15-15.30

AWP 2024: Introduction

ENTSO-E Annual Work Programme (AWP) 2024 is open for public consultation until 16 August 2023



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.
- This AWP is also in line with the European Commission's priority list for the development of network codes and guidelines for the period from 2020 to 2024 and beyond.



Why your views matter

- The elaboration of the [Annual Work Programme – 2024](#) 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 16 August 2023

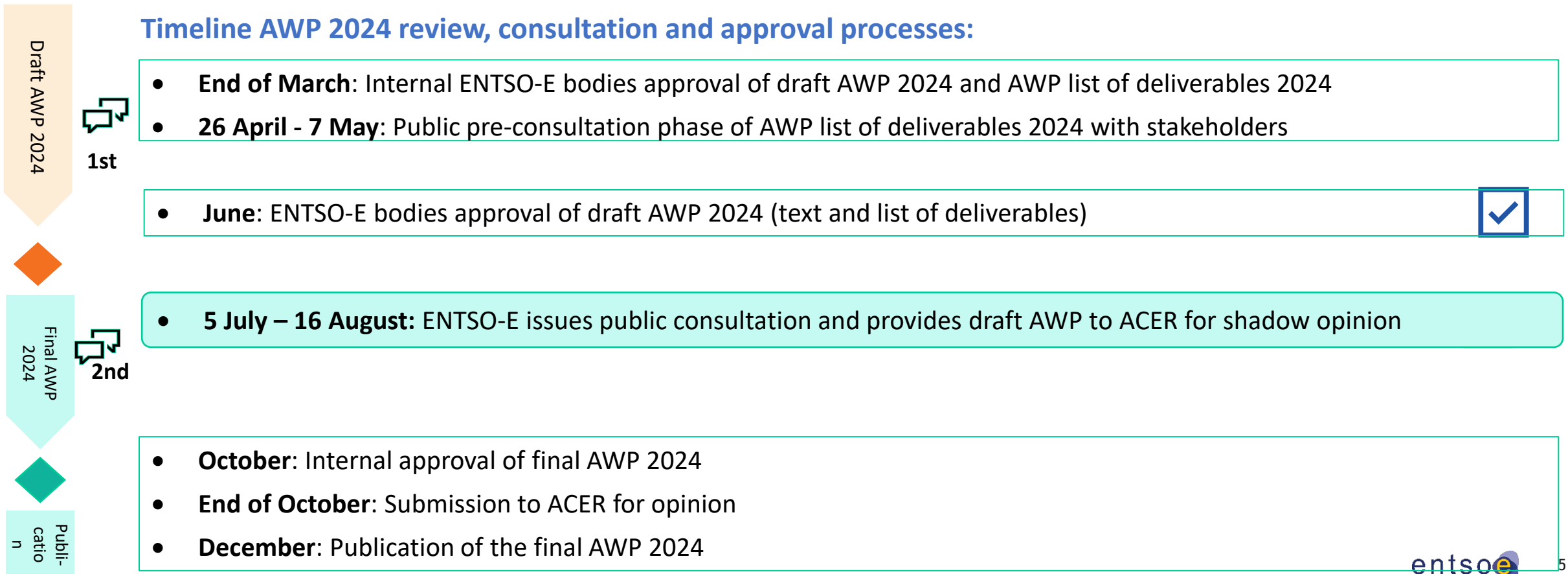
[Consultation on the ENTSO-E Annual Work Programme 2024 - European Network of Transmission System Operators for Electricity - Citizen Space \(entsoe.eu\)](#)

Target Timeline AWP 2024 review, consultation and approval processes

AWP 2024 preparation foresees a two-phased consultation approach and approval process.

- ✓ ENTSO-E to close and deliver 11 tasks by the end of 2023
- The AWP 2024 includes 13 additional tasks for 2024 and beyond

Timeline AWP 2024 review, consultation and approval processes:



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AWP 2024 – Operations highlights

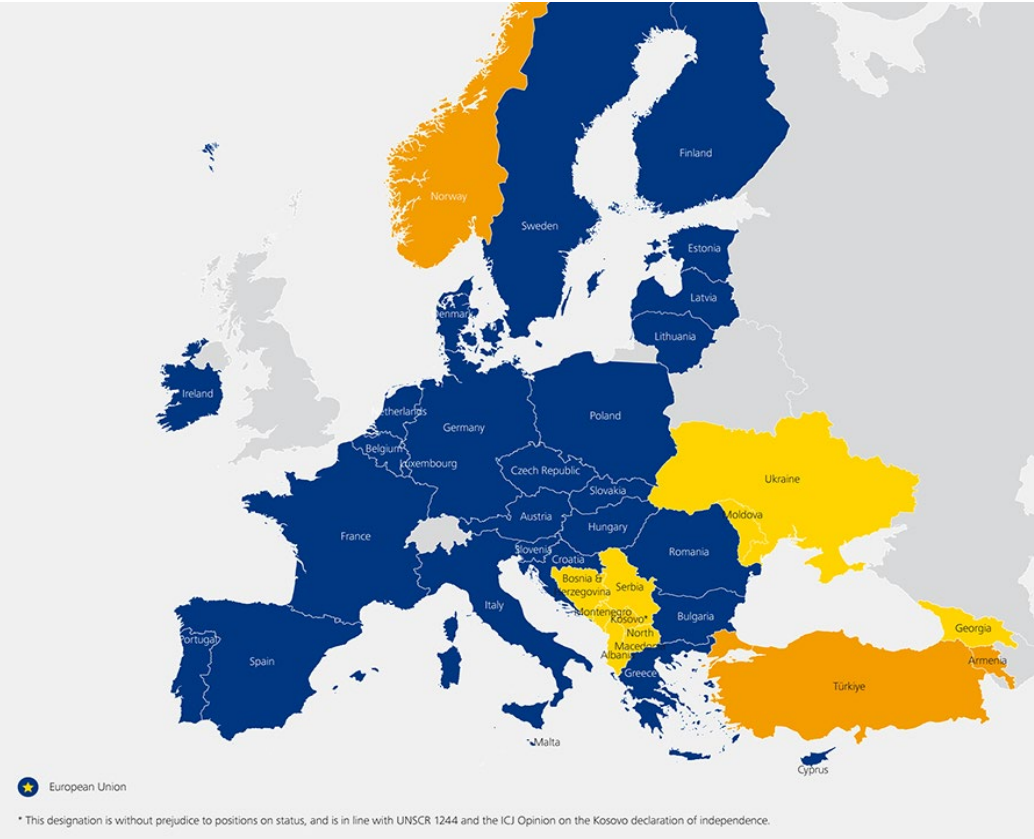


Highlights of AWP 2024

3rd Country TSO Collaboration

- TSOs from the Contracting Parties countries of the Energy Community have gained new responsibilities towards ENTSO-E as the result of the Decision of the Ministerial Council of the Energy Community D/2022/03/MC-EnG
- This Decision contains adapted legislation, to be transposed in the Contracting Parties of the Energy Community by the end of 2023
- The dedicated experts will continue providing useful feedback related to the implementation challenges of the adapted legislation to the European Commission and the Energy Community Secretariat, as well as supporting the member TSOs from the Contracting Parties
- Cooperation with UK TSO, on the basis of the Trade Cooperation Agreement (TCA) between the UK and the EU: e.g. further work on the preparation of the Day-Ahead Target Model, based on the concept of “Multi-region loose volume coupling”

Energy Community Contracting Parties



- ✓ Blue depicts EU Parties
- ✓ **Yellow depicts Contracting Parties**
- ✓ Orange depicts Observers

AWP 2024 – Operations highlights



Highlights of AWP 2024

Risk Preparedness Methodology & Regional Crisis Scenarios Report

- The Risk Preparedness Methodology is being updated in 2023. It will include: deeper analysis on initiating events, causes, vulnerabilities and risk controls, better descriptions of the evolution of scenarios, including interdependence and simultaneous events and quantitative analysis and simulations (see timeline below).
- 2nd Cycle of the identification of Regional Electricity Crisis Scenarios will begin in December 2023 – to be concluded by September 2024
- The Regional Crisis Scenarios report contains a summary of the process that leads to identification and assessment of the electricity crisis scenarios;
 - a result of ranking the scenarios for relevance, according to the approved common methodology;
 - a complete list of regional electricity crisis scenarios identified in 2023, with descriptions; and
 - a summary of lessons learnt from the application of the methodology.



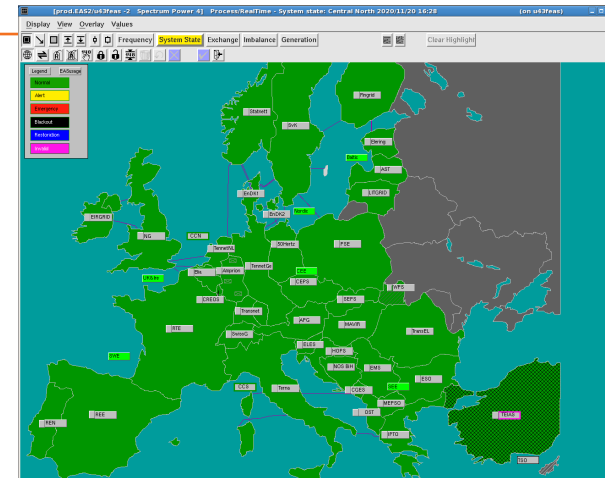
AWP 2024 – Operations highlights



Highlights of AWP 2024

European Awareness System

- An analysis on the technology upgrade on Siemens Power Spectrum 4 will be performed to anticipate end of life support of the software. Replacement of hardware and the virtualization of the hosting environment will be investigated.
- A pilot project and feasibility study on data streaming technology will be realized to assess this solution as an alternative for a SCADA/EMS software for the upgrade of EAS.
- Connection of EAS to ENTSO-E central security information and event management (SIEM) will provide enhanced IT security to EAS system.
- The provision of an EAS training system accessible will ensure that TSO operators are better trained on the use of EAS system and get most of the information available to take better decision on the European grid.
- Access to EAS by Regional Coordination Centres (RCC) will be enabled to provide better information to RCCs to perform their tasks. The overview and the information shared in EAS, becomes even more important, both as an overview of the situation in the region of the RCC and in the neighbouring region(s).
- The integration into EAS of the relevant MARI and PICASSO data will help concentrate information in one place (EAS imbalance map) providing to operator a global overview.



AWP 2024 – Market highlights



Highlights of AWP 2024

Capacity Allocation and Congestion Management Regulation

- Adaptations needed for the implementation of **15-minute products in Day Ahead** continue in 2024. The delivery is planned in 2025
- **Intraday Auctions** (Art. 55 CACM Regulation): The go-live is planned for Q2 2024
- **Capacity Calculation Regions** (Art. 15 CACM Regulation): CCR assessment Framework and the determination of capacity calculation regions.
- Possible adaptations after the adoption of the energy market reform

Forward Capacity Allocation Regulation

- **Long-Term Flow-Based Allocation implementation:** Long-term flow based in Core CCR (go-live Q3 2024) and Nordic CCR (go-live Q1 2025)
- The **harmonised allocation rules** pursuant to Art. 51 FCA will be revised until March 2025 according to the biennial rhythm
- FCA amendments: All TSOs and ENTSO-E will prepare for contributing to the **amendment proposal of the FCA Regulation**

AWP 2024 – Market highlights



Highlights of AWP 2024

Electricity Balancing Regulation

- All TSOs with derogations will continue their **accessions to the respective balancing platforms** in accordance with the accession roadmaps.
- All TSOs will continue work on the **establishment of the capacity management module (CMM)** – a central module common to all balancing platforms to increase the efficiency and robust-ness of the operation of the platforms.

- Biennial Balancing report and annual EB cost reports will be published in mid-2024.
- Depending on ACER decisions in July 2023, possible amendment to the **Cross-zonal capacity allocation harmonised methodology and RCC Sizing and RCC Procurement methodologies.**

	IGCC	MARI	PICASSO	TERRE
Balancing service	IN	mFRR	aFRR	RR
Participants				
Target area	Continental Europe	Europe	≥ Continental Europe	≥ RR TSOs
Go-live	24/06/2021 & operational since 01/10/2011	05/10/2022*	22/06/2022*	29/09/2020*

AWP 2024 – Market highlights



Highlights of AWP 2024

Internal Energy Market Regulation Bidding Zone Review (Art. 14 (6) Electricity Regulation)

- The Bidding Zones Review work will continue in 2024.
- First results of the Nordic Region may be ready by February 2024.
- **The complete Review is expected for Q3 2024.**

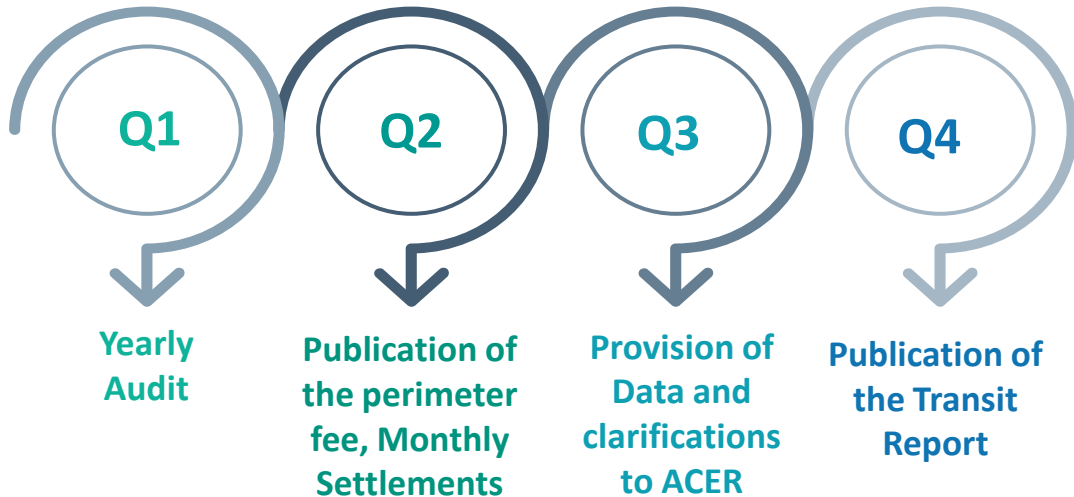
AWP 2024 – Market highlights



Highlights of AWP 2024

Inter TSO Compensation

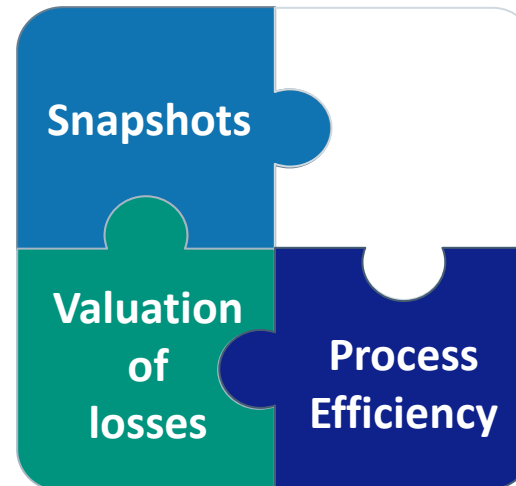
Management and Reporting



Expected changes

Ukraine and Moldova Accession

A decision on the Accession requests of both UA/MD is expected later in 2023. In 2024, ENTSO-E will focus on ensuring a seamless integration of the new parties to the ITC Agreement.



Future Improvements

ENTSO-E will continue to collaborate with ACER and the EC to improve the functioning, accuracy and fairness of the ITC Mechanism



Highlights of AWP 2024

January 2024: First Offshore Network Development Plans, part of TYNDP 2024

March 2024: Final TYNDP 2024 Scenarios

-> Ongoing public consultation until 8 August on input parameters and methodology for building the scenarios

May 2024: Summer Outlook 2024

Q3 2024: Draft TYNDP 2024 for public consultation, including:

- Assessment of future system needs
- Cost-benefit analysis of infrastructure projects

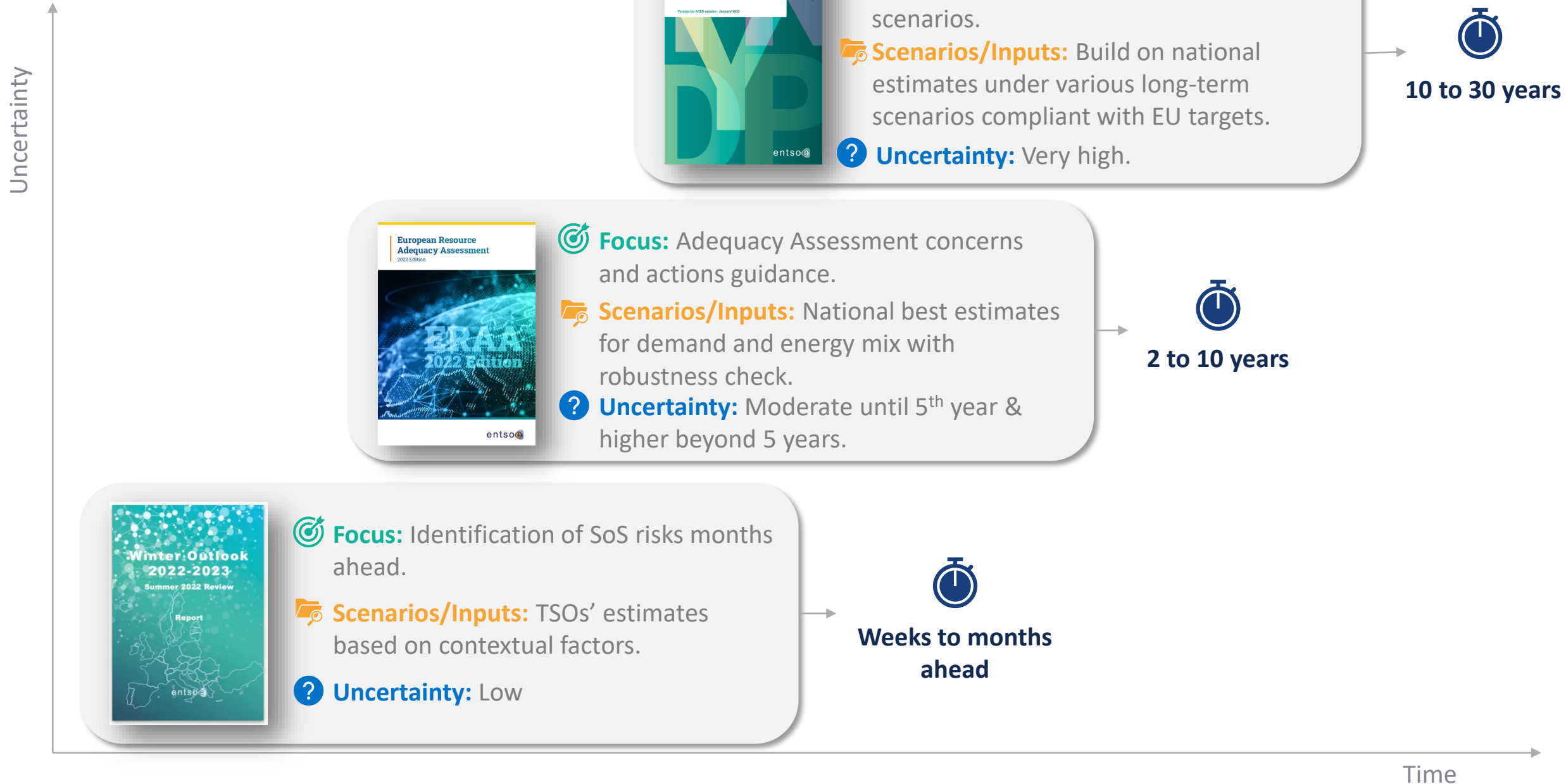
The scope of TYNDP 2024 & stakeholder engagement plan went through public consultation in May 2023. More engagement opportunities will follow

November 2024: ERAA 2024, Winter Outlook 2024/2025

TYNDP stakeholder
engagement plan



System planning products





Highlights of AWP 2024



Transparency Platform (TP) implementation to comply with the updated Manual of Procedures (MoP v3r3 and MoP v3r4)



TP development to potentially become an Inside Information Platform – Project TP IIP.



TP development for CACM 2.0 amendment requirements



Continuation of TP Architecture Implementation with major TP upgrades resulting in enriched user experience and better performance



Data quality improvements including continued monitoring of quality and data completeness



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



Updating ENTSO-E TP mobile Application to support user needs



New Transparency requirements associated with REMIT 2.0 and EMDR



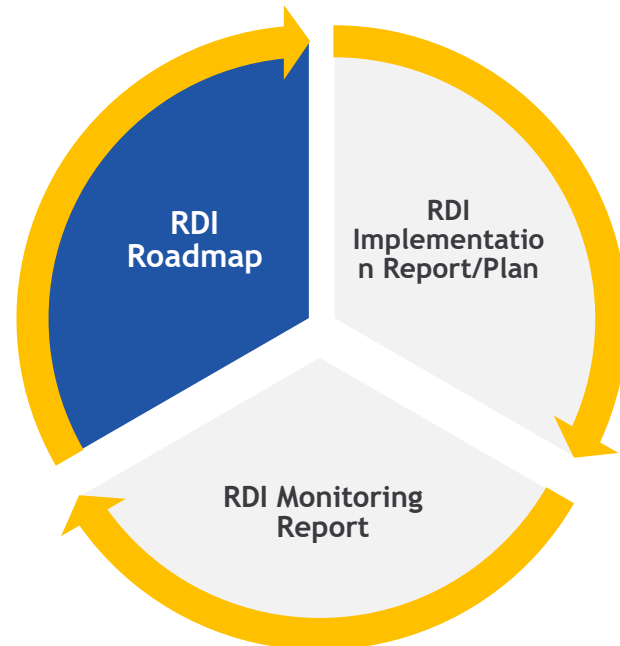
Creating an enduring solution for the publication of the ENTSO-E Statistical Data Portal Reports and Statistical Factsheet



Highlights of AWP 2024

RDI Planning:

- **New RDI Roadmap 2024-2034:** focus on accelerating RDI activities and projects addressing new challenges & policy priorities (REPowerEU, DESAP, NZIA)
- Direct continuation of the RDI Roadmap 2020-2030, keeping the basis of 6 Flagship topics*



RDI Implementation:

- **RDI programs** based on the priority milestones of the Roadmap to bridge between planning and implementation:
 - flexibility needs on a system level
 - challenges and opportunities of smart integration of sectors (transport, heating, H₂)
 - new approaches required for the stability management
 - solutions which digitalization can bring to the electricity system (e.g. Digital Twins)

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

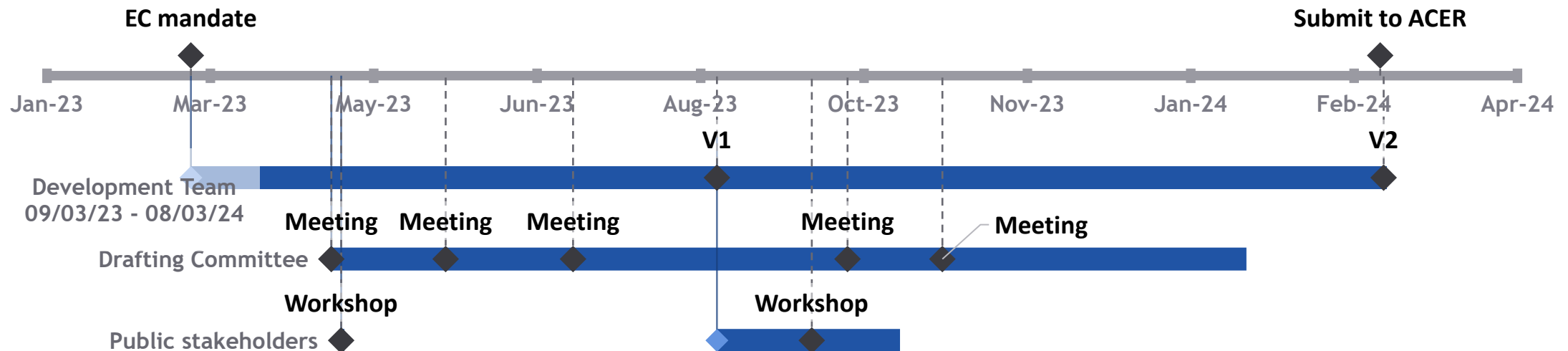
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3. Poll and Q&A		15.15-15.30

AWP 2024 – NC on Demand Response

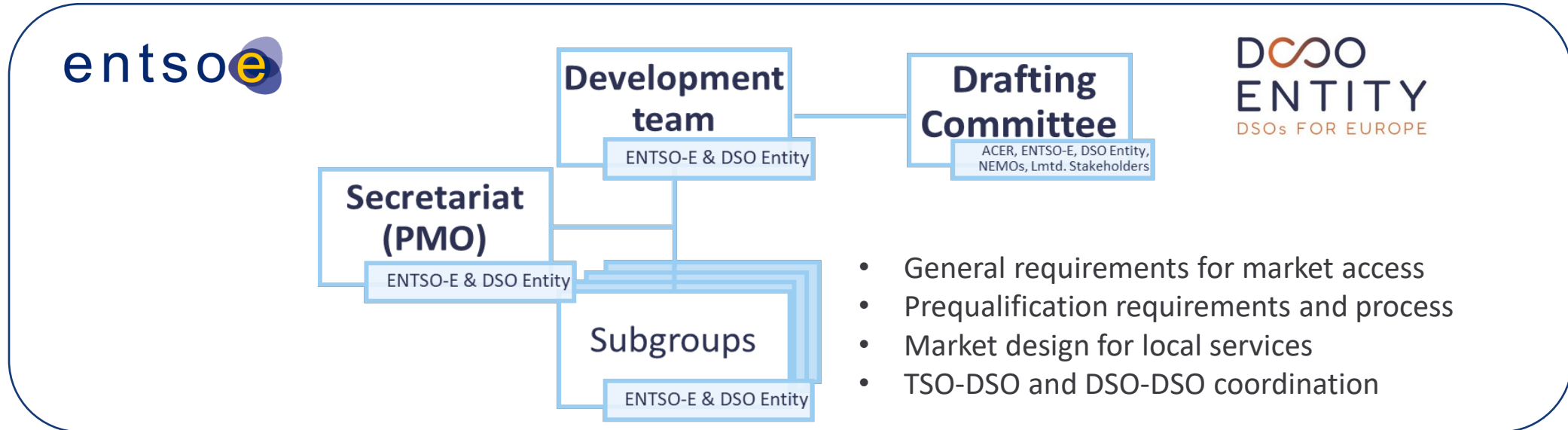
Timeline

- Mandate letter for NC DR draft to DSO Entity in cooperation with ENTSO-E, arrived on 9th March 2023 → **NC DR shall be submitted by 8th March 2024.**
- According to the MoU between ENTSO-E and the EU DSO Entity, the organizations will address the task as equal partners.
- The drafting of the NC DR is currently planned as indicated on the timeline below. Pre-consulting the drafting committee before the public consultation is agreed considering the high interest from the stakeholders. This would postpone the public consultation. The impact on the overall timeline will be assessed with ACER and the EC.



AWP 2024 – NC on Demand Response

Organization enables stakeholder contributions



- **Working principles defined in Memorandum of Understanding between ENTSO-E and DSO Entity**
- **Significant commitment for involved organisations**
 - Development team
 - Plenary group of 7+7 DSOs and TSOs; meets every 2 weeks
 - 4 subgroups of 6+6 DSOs and TSOs; meets every week
 - Regular reports to respective bodies in each Association
 - Drafting Committee
 - 10 organisations, 2 representatives per organisation
 - Meets every 4-5 weeks approx.

AWP 2024 – Implementing acts on data interoperability



Highlights of AWP 2024

- Background: **Article 24(2) IEM Directive**: EC shall adopt, by means of implementing acts, interoperability requirements and non-discriminatory and transparent procedures for access to data
- **First Implementing Act** on data interoperability and access – date of effect: 5 July 2023 - [Commission Implementing Regulation \(EU\) 2023/1162 of 6 June 2023](#)
- **Second Implementing Act** dealing with customer switching master data and demand response master data is currently being developed – its entry into force is expected in 2024
- Establishment of a **Joint Working Group** as a new legal mandate for ENTSO-E and EU DSO Entity on data transparency stemming from the first Implementing Act

AWP 2024 – Implementing acts on data interoperability



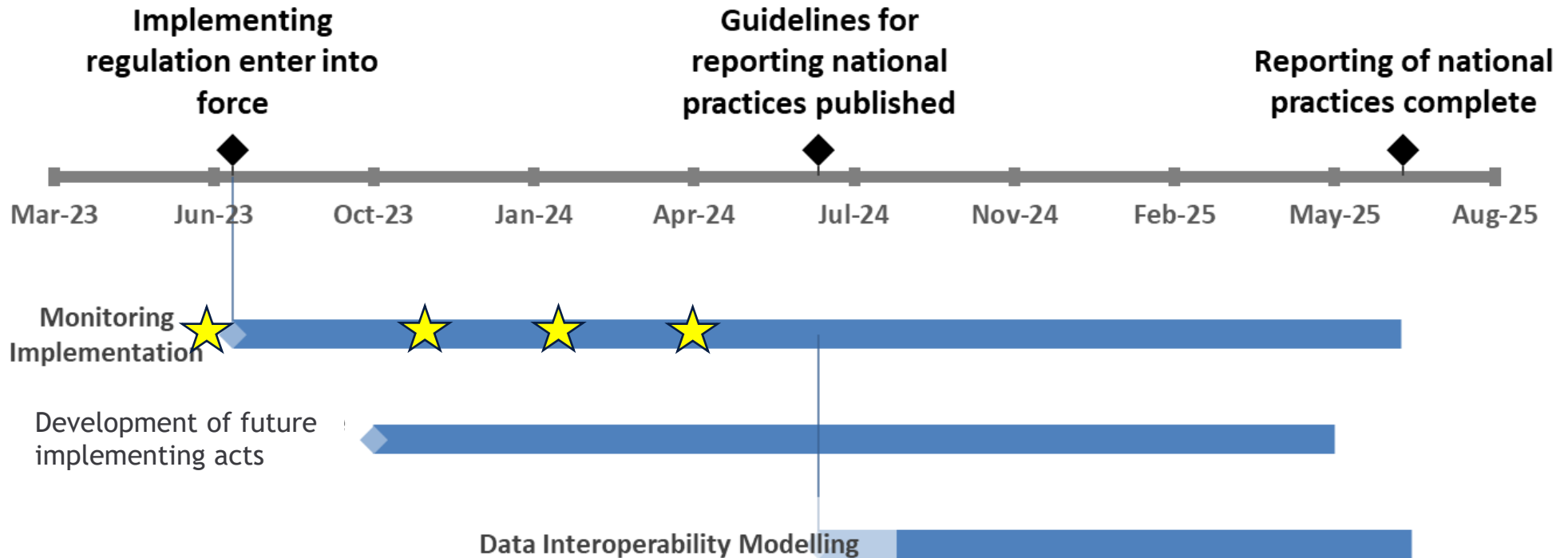
Highlights of AWP 2024

- Article 12 1st DIA: **Tasks of the Joint Working Group (JWG)** – Article 12, Regulation (EU) 2023/1162 :
 - developing guidance** to assist Member States in the reporting of national practices
 - collecting the reports** of national practices provided by Member States regarding the implementation of the reference model
 - publishing the reports** in a publicly available repository which shall be kept up to date
 - monitoring the implementation** of the reference model included in this IA and its further development
 - supporting the EC**, upon its request, in developing the 2nd IA on Demand Response, customer switching and other services.

AWP 2024 – Implementing acts on data interoperability



Highlights of AWP 2024



★ Workshop

Network Code on Cybersecurity



Highlights of AWP 2024

During **2024**, all the entities falling under the scope of this Network Code shall perform activities to comply with the legal obligations. For ENTSO-E in close collaboration with the EU DSO entity that would mainly, but not exclusively, mean the activities on:

- ✓ developing the cybersecurity risk assessment methodologies;
- ✓ developing the cybersecurity incidents classification scale methodology;
- ✓ supporting entities in developing capabilities to handle detected cybersecurity incidents;
- ✓ performing a feasibility study to develop a common tool to share incidents;
- ✓ preparing a template in order to perform cybersecurity exercises.

More info on: [Network Code on Cybersecurity \(NCCS\) \(entsoe.eu\)](https://entsoe.eu)

AWP 2024 – Interoperability and Data










Highlights of AWP 2024

- Implementing acts on data interoperability and access: drafting, monitoring and reference modelling;
- New legal mandate with the DSO Entity stemming from Implementing Acts on Data Interoperability and Access;
- Development of Common Information Model and implementation guides;
- Production of international standards;
- Maintenance of the harmonised electricity role model.
- Common Information Model trainings

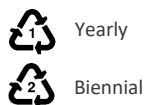
AWP 2024 – Monitoring highlights



Highlights of AWP 2024

Market		System Develop.	System Operations			
Market Report  <ul style="list-style-type: none"> describes the latest achievements in integrating European electricity wholesale and balancing markets according to FCA, CACM and EB Regulation, namely describes the governance, operation, expenditures and evolution of services of the Single Allocation Platform, the short-term Market Coupling and the balancing markets during the period of June 2023 to May 2024 	Balancing Report  <ul style="list-style-type: none"> focuses on monitoring, describing and analysing the implementation of the EB Regulation reporting on the progress made concerning the integration of balancing markets in Europe provides performance indicators for the balancing platforms for 2023 	Connection Network Codes Report  <ul style="list-style-type: none"> monitors the implementation of the grid Connection Network Codes (CNC) in each member state 	Regional Coordination Assessment Rep.  <ul style="list-style-type: none"> contains Key Performance Indicators (KPIs) for the services provided by the Regional Coordination Centers (RCCs) provides an overview on the legacy service in place, what this consists of and if the RCC started working towards the service based on the regulatory framework 	Load-frequency control Report  <ul style="list-style-type: none"> presents results of: <ol style="list-style-type: none"> The frequency quality evaluation criteria Frequency Containment Reserves (FCR) obligations any TSO mitigation measures and ramping requirements to alleviate deterministic frequency deviations 	Incident Classification Scale Report  <ul style="list-style-type: none"> presents the operational security indicators relevant for operational security and planning identifies necessary improvements including related tools provides explanations of the reasons for incidents at the security ranking scales 2 and 3 	Regional electricity crisis scenarios  <ul style="list-style-type: none"> identifies new and updates previous regional electricity crisis scenarios based on the Risk Preparedness Methodology provides adequate information that will allow Member States to create effective risk preparedness plans

FCA: Forward capacity allocation
 CACM: Capacity allocation and congestion management
 EB: Electricity balancing

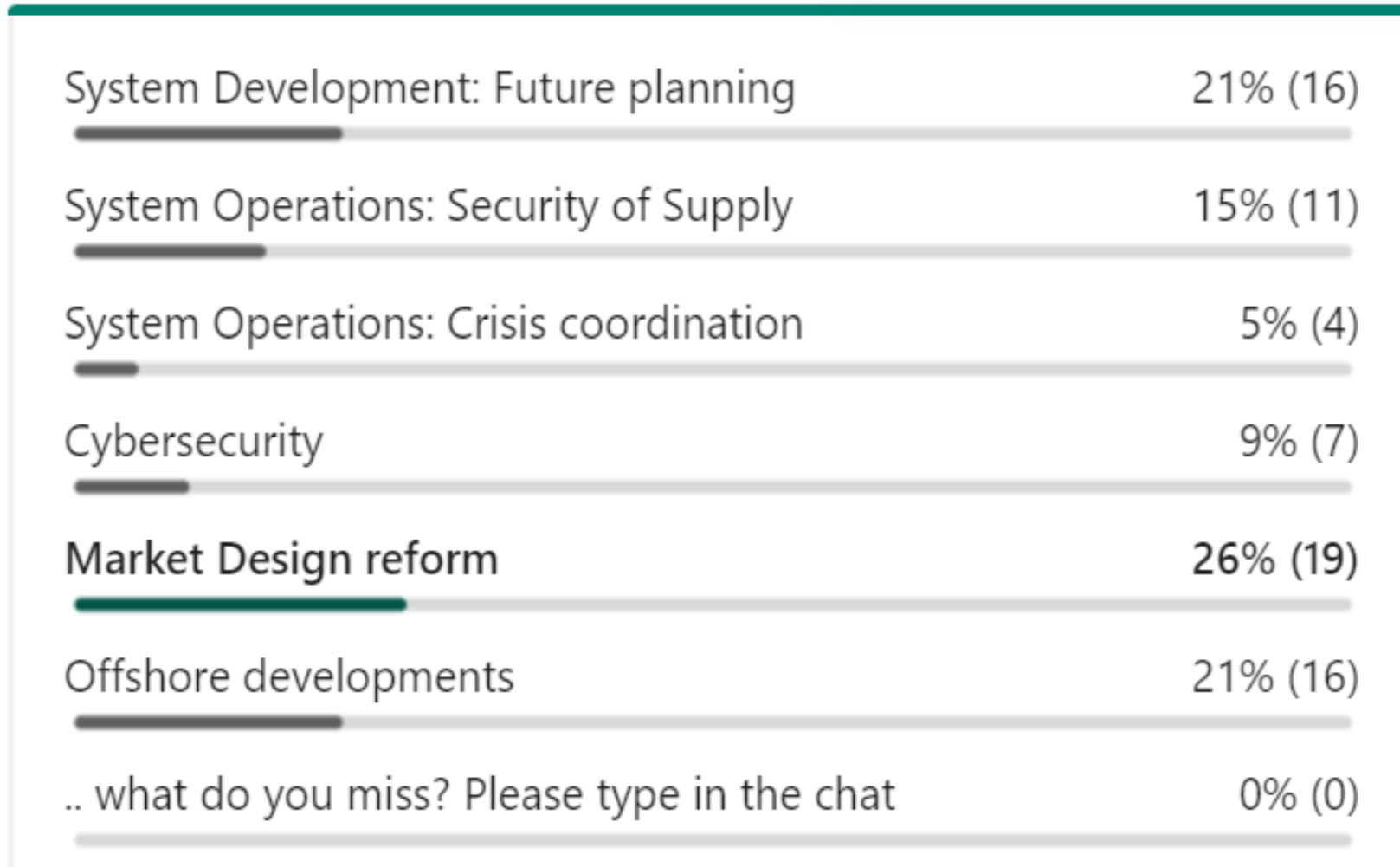


All Reports of the previous years can be found here: [Network Codes Monitoring \(entsoe.eu\)](https://entsoe.eu)

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3. Poll and Q&A		15.15-15.30

Poll 1: Which areas of work are you most interested in?



Poll 2: In your opinion the ENTSO-E Work Programme 2024...?

Focuses on the right deliverables 70% (22)



Opinion	Percentage	Count
Focuses on the right deliverables	70%	22
Does not focus on the right deliverables	3%	1
Not ready to respond yet	25%	8

Does not focus on the right deliverables 3% (1)

Not ready to respond yet 25% (8)

31 responses

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