

TYNDP 2024

Offshore Network Development Plans Stakeholders Engagement Report

January 2024



ENTSO-E Mission Statement

Who we are

ENTSO-E, the European Network of Transmission System Operators for Electricity, is the **association for the cooperation of the European transmission system operators (TSOs)**. The **40 member TSOs**, representing 36 countries, are responsible for the **secure and coordinated operation** of Europe's electricity system, the largest interconnected electrical grid in the world. In addition to its core, historical role in technical cooperation, ENTSO-E is also the common voice of TSOs.

ENTSO-E **brings together the unique expertise of TSOs for the benefit of European citizens** by keeping the lights on, enabling the energy transition, and promoting the completion and optimal functioning of the internal electricity market, including via the fulfilment of the mandates given to ENTSO-E based on EU legislation.

Our mission

ENTSO-E and its members, as the European TSO community, fulfil a common mission: Ensuring the **security of the inter-connected power system in all time frames at pan-European level and the optimal functioning and development of the European interconnected electricity markets**, while enabling the integration of electricity generated from renewable energy sources and of emerging technologies.

Our vision

ENTSO-E plays a central role in enabling Europe to become the first **climate-neutral continent by 2050** by creating a system that is secure, sustainable and affordable, and that integrates the expected amount of renewable energy, thereby offering an essential contribution to the European Green Deal. This endeavour requires **sector integration** and close cooperation among all actors.

Europe is moving towards a sustainable, digitalised, integrated and electrified energy system with a combination of centralised and distributed resources. ENTSO-E acts to ensure that this energy system **keeps consumers at its centre** and is operated and developed with climate objectives and **social welfare** in mind.

ENTSO-E is committed to use its unique expertise and system-wide view – supported by a responsibility to maintain the system's security – to deliver a comprehensive roadmap of how a climate-neutral Europe looks.

Our values

ENTSO-E acts in **solidarity** as a community of TSOs united by a shared **responsibility**.

As the professional association of independent and neutral regulated entities acting under a clear legal mandate, ENTSO-E serves the interests of society by **optimising social welfare** in its dimensions of safety, economy, environment, and performance.

ENTSO-E is committed to working with the highest technical rigour as well as developing sustainable and **innovative responses to prepare for the future** and overcoming the challenges of keeping the power system secure in a climate-neutral Europe. In all its activities, ENTSO-E acts with transparency and in a trustworthy dialogue with legislative and regulatory decision makers and stakeholders.

Our contributions

ENTSO-E supports the cooperation among its members at European and regional levels. Over the past decades, TSOs have undertaken initiatives to increase their cooperation in network planning, operation and market integration, thereby successfully contributing to meeting EU climate and energy targets.

To carry out its **legally mandated tasks**, ENTSO-E's key responsibilities include the following:

- › Development and implementation of standards, network codes, platforms and tools to ensure secure system and market operation as well as integration of renewable energy;
- › Assessment of the adequacy of the system in different timeframes;
- › Coordination of the planning and development of infrastructures at the European level (**Ten-Year Network Development Plans, TYNDPs**);
- › Coordination of research, development and innovation activities of TSOs;
- › Development of platforms to enable the transparent sharing of data with market participants.

ENTSO-E supports its members in the **implementation and monitoring** of the agreed common rules.

ENTSO-E is the common voice of European TSOs and provides expert contributions and a constructive view to energy debates to support policymakers in making informed decisions.

TYNDP 2024

Offshore Network Development Plans Stakeholders Engagement Report

January 2024

How to use this interactive document

To help you find the information you need quickly and easily we have made this an interactive document.



Home button

This will take you to the contents page. You can click on the titles to navigate to a chapter.



Arrows

Click on the arrows to move backwards or forwards a page.



Hyperlinks

Hyperlinks are highlighted in bold text and underlined throughout the report. You can click on them to access further information.



**ENTSO-E ONDP
interactive data
visualisation platform**

Questions?

Contact us as at tyndp@entsoe.eu



Contents

Executive Summary	6
EU Member States, the European Commission and ACER.....	7
Other Stakeholders and the General Public	9
Next Steps: Public Consultation and Preparation of 2026 ONDPs	10
Acknowledgements.....	11

Executive Summary

Throughout the development of ONDP, ENTSO-E has sought to find the correct balance between securing an efficient approach to the redaction of the plans by the legal deadline while implementing an effective strategy to involve interested external parties at the right time.

The TEN-E regulation (EU) 2022/869 specifies that Member States, the European Commission and TSOs must be involved in the development of ONDPs. ENTSO-E has engaged in frequent discussions with the European Commission and EU Member States from the start of the project in 2022 until the release of the ONDP.

Engagement also took place with key stakeholders, including ACER, Wind-Europe and the Renewables Grid Initiative, while two public events have been organised to enable a broader circle of stakeholders to get involved.

Because of the legal deadline to release the first ONDPs by 24 January 2024, it has been impossible to fit a formal public consultation period before their release. However, an online consultation and a workshop will take place in the first quarter of 2024. ENTSO-E encourages stakeholders to provide feedback on this pilot edition and ideas of improvements to investigate for the next edition.

EU Member States, the European Commission and ACER

Offshore Network Development Plans (ONDPs) are mandated to be in line with EU Member States' non-binding agreements as defined by the TEN-E Regulation. Therefore, it was key to ensure alignment between ENTSO-E, national ministries and the European Commission (EC) on the application of data delivered by EU Member States into the process. This is especially important as the ONDP will be the base for the application of the EC's guidance on Sea Basin Cost Benefit–Cost Sharing.

ENTSO-E Guidance to Member States and bilateral engagement between TSOs and Member States

In this framework, ENTSO-E and the EC have jointly produced a [Guidance document](#) aiming to support Member States to deliver the input information needed by ENTSO-E for the development of ONDPs. The Guidance was provided to EU Member States in September 2022.

Following up on the delivery of the Guidance to Member States, ENTSO-E members have engaged in continuous exchanges with their respective ministries since the autumn of 2022. The overall objective was to ensure a solid framework for the alignment of the bottom-up data by:

- › Clarifying the criteria behind the offshore targets delivered by the ministry;
- › Coordinating on the impact that the ongoing update of National Energy and Climate Plans might have on the development of the ONDP;
- › Discussing the specification of the offshore locations for the capacities and aligning on the information included in the national Maritime Spatial Planning; and
- › Defining specific needs regarding modelling in the event that the Member State wanted predefined transmission corridors to be considered.

Dedicated webinars for EU Member States co-organised with the European Commission

———— May 2023: ONDP methodology and assumptions

A webinar for EU Member States representatives co-organised between ENTSO-E and the EC took place on 2 May 2023. ENTSO-E presented the methodological approach and assumptions and how the plans themselves would be structured. The presentation covered the overall ONDP development process, including the data gathering, the modelling and the post-processing and drafting phases. Particular focus was

given to the input data on offshore renewable energy source (RES) targets provided by Member States, to the methodological approach to expansion and aggregation of the capacities and transmission assets, to how ENTSO-E considered hybrid and radial-to-hybrid evolution, and to how MSPs would feed into the process.

———— October 2023: ONDP preliminary results

On 18 October 2023, the EC, jointly with ENTSO-E, organised an online meeting of the offshore priority TEN-E cross-Regional Groups, where ENTSO-E presented to Member

States' representatives the state-of-play and preliminary results. Each sea basin was addressed in turn, allowing for a discussion on regional specificities.

Reporting to high-level regional groups

High-level groups are groups based on Memorandums of Understanding (MoUs) between the EC and several Member States that provide strategic steering and policy guidance, and monitor the progress of projects of common interest in priority regions (visit this page for more information). Regular reporting on ONDP development progress was

made in the North Seas Energy Cooperation (NSEC) and in the Baltic energy market interconnection plan (BEMIP) high-level groups. ENTSO-E provided updates on the status of the work and raised subjects that impact all countries of a TEN-E offshore priority corridor.

Engagement with the European Commission and ACER

Engagement with the EC DG ENER took place throughout the ONDP development phase and even earlier during the drafting of the TEN-E regulation, starting in spring 2021 until Q4 2023, and covered the timeline, methodology, main assumptions and high-level results. ENTSO-E also exchanged on its plans

and timeline for ONDP development bilaterally with representatives of ACER and some national regulatory authorities (NRAs) in May 2023. ONDPs are part of the TYNDP 2024 and will therefore be submitted to ACER for opinion with the whole TYNDP 2024 in Q4 2024.

Other Stakeholders and the General Public

WindEurope

During the development of the ONDPs ENTSO-E had dedicated exchanges with WindEurope on the following occasions:

- › Summer 2022 – call to exchange on the technical assumptions on offshore wind generation at the base of the ONDP set-up; and
- › Autumn 2023 – call to exchange on the capacities considered in the ONDP study and general update on the upcoming reports

Renewables Grid Initiative

The Renewables Grid Initiative (RGI) contributed to the development of ONDPs with a chapter included in the Pan-European summary “Offshore infrastructure and environmental protection go hand in hand – Recommendations by the Renewables Grid Initiative”. The chapter provides an overview of all the relevant considerations regarding environmental protection in offshore infrastructure development, including maritime spatial planning, mitigation measures and nature enhancement, and concludes with eight recommendations.

This RGI contribution was requested by ENTSO-E given their specific expertise concerning the critical aspects related to nature conservation in the development of marine energy infrastructure. This allowed a different perspective to be integrated from the one usually delivered by the TSOs in their planning products.

RGI also contributed to a public workshop organised on 6 June 2023 on the broader topic of the future of offshore, where the ONDP methodology was presented (see more information below) with the participation of RGI CEO Antonella Battaglini, among the speakers.

Other stakeholders and general public

June 2023: Public workshop on the future of offshore

On 6 June 2023, ENTSO-E organised a workshop in Brussels and online on “The future of offshore”, during which a wide range of challenges and opportunities related to the future offshore system were discussed. The workshop, opened to all, gathered close to 150 stakeholders including those from the

industry, NGOs, academia and policy-makers. As part of the event, ENTSO-E presented an overview of the methodology and process for the development of ONDPs.

[Presentations](#)

November 2023: Webinar on system needs in TYNDP 2024

On 6 November 2023, ENTSO-E organised a webinar on system needs in the TYNDP 2024. The webinar aimed to provide stakeholders with a complete picture of how future system needs will be assessed in the TYNDP 2024. As such, it included a detailed presentation of the methodology and process of ONDPs, and explained in detail how ONDP results will be considered in the system needs study of the TYNDP

2024, which will be released in the summer of 2024. The objective is to obtain an integrated onshore–offshore view of system needs. The webinar was attended by over 140 stakeholders.

[Presentation](#) | [Recording](#)

Next Steps: Public Consultation and Preparation of 2026 ONDPs

Considering the legal deadline set by the TEN-E Regulation to release the first ONDPs by 24 January 2024, it has not been possible to fit a formal public consultation period before the release of ONDP, in addition to the stakeholders engagement activities mentioned in the present report. However, an online consultation and a workshop will take place in the first quarter of 2024. Stakeholders' feedback will be considered in the development of TYNDP 2026 ONDP.

The ONDP 2024 will also be formally submitted to ACER for Opinion as part of the TYNDP 2024 package.

Acknowledgements

ENTSO-E would like to thank all the experts involved for their commitment and enthusiasm in elaborating this ONDP.

The ONDP Package was elaborated under the guidance of the **ONDP Central Group**, led by: **Antje Orths (Energinet)** and **Francesco Celozzi (ENTSO-E)**.

The drafting team of this Stakeholder Report is composed of the Members of the **ONDP Central Group**.

Drafting Team

Lead

Léa Dehaut.ENTSO-E

Drafting team members

Antje Orths.Energinet

Francesco Celozzi.ENTSO-E

Secretariat support

Iason Dizes.ENTSO-E

Thanh-Thanh Le Thi.ENTSO-E

Xosé María Vega Arias.ENTSO-E

Design

DreiDreizehn GmbH, Berlin . www.313.de

Cover image

© TenneT TSO B.V.

Publication date

January 2024