TYNDP // 2028

Version 2 // October 2026

Scenarios Stakeholder Engagement Plan







Version control table

Version	Publication date
Version 1 (ENTSOs draft)	Internal preparatory document
Version 2 (post SRG review)	October 2026
Version 3 (update on stakeholder engagement by deliverable)	Planned for early Q2 2027
Version 4 (update on stakeholder engagement by deliverable, final version)	Planned for Q4 2027

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For any queries relating to this or any other TYNDP Scenarios document, please contact scenarios@entsos-tyndp-scenarios.eu

1 INTRODUCTION, REGULATORY CONTEXT, SCOPE AND OBJECTIVES

ENTSO-E, ENTSOG and ENNOH are required under the currently applicable legal framework, including the latest Trans-European Networks for Energy (TEN-E) and EU gas Regulations as well as the ACER TYNDP Scenarios Guidelines, to deliver a range of outputs.

These reach from annual work programmes, draft network codes to the organisations' individual Ten-Year Network Development Plans and joint TYNDP Scenarios.

Pursuant to Article 12(1) of the TEN-E Regulation[1], in accordance with recitals (46) to (49) and (54) of the Framework Guidelines for the joint TYNDP Scenarios to be developed by ENTSO for Electricity and ENTSO for Gas "TYNDP Scenarios Guidelines" by ACER of 25 January 2023[2], this published document outlines a comprehensive Stakeholder Engagement Plan, including a process timeline, specifying key moments for decision-makers, stakeholders and the public to provide input on the joint TYNDP 2028 Scenario Building. To the extent possible, the Stakeholder Reference Group (SRG) was involved in co-creating this plan, which considers the SRG's feedback on the scenario-building process formulated at the end of the 2026 Scenarios cycle.

The 2028 Stakeholder Engagement Plan represents a documented set of principles, procedures and deliverables detailing how ENTSO-E, ENTSOG and ENNOH invite all relevant stakeholders to cooperate in the Scenarios' development process.

This document further describes the joint standard of ENTSO-E's, ENTSOG's and ENNOH's consultation practices in the TYNDP Scenario Building, which are intended to guide the consultation process with external stakeholders. The European transmission system operator associations will review the principles for consultation regularly based on experience gained and regulatory updates pertaining to the TEN-E Regulation (EU) 2022/869 and TYNDP Scenarios Guidelines (ACER 2023).

This Stakeholder Engagement Plan is subject to change depending on the evolution of the Scenario Building timeline and is reviewed throughout the scenario cycle. A version control table summarises the developments pertaining to the TYNDP 2028 Scenarios building cycle.

In carrying out consultations with stakeholders, ENTSO-E, ENTSOG and ENNOH aim at:

- Getting expert input and views on joint draft or final proposals;
- Building accessibility and usability of data that allows stakeholders with different levels of expertise to better interpret scenario inputs and results;
- Providing openness and transparency, while ensuring confidentiality of information if there is a legitimate interest in such confidentiality;
- Delivering well-balanced TYNDP Scenarios and its sub deliverables within a timely manner.

While consultation methods may be adapted to reflect the materiality, urgency, complexity and stakeholder impact of a specific issue, such adaptations shall not derogate from the core principles of transparency, openness, equal treatment, traceability and meaningful stakeholder participation. Any deviation from the standard consultation approach shall be justified and documented.

1 Regulation (EU) 2022/869 of the European Parliament and of the Council of 30 May 2022 on guidelines for trans European energy infrastructure, amending Regulations (EC) No 715/2009, (EU) 2019/942 and (EU) 2019/943 and Directives 2009/73/EC and (EU) 2019/944, and repealing Regulation (EU) No 347/2013, OJ L 152, 27.7.2026.

2 Agency for the Cooperation of Energy Regulators (ACER), Framework Guidelines for the joint TYNDP Scenarios to be developed by ENTSO for Electricity and ENTSO for Gas, January 25, 2023.

2 PRINCIPLES OF STAKEHOLDER INVOLVEMENT IN TYNDP SCENARIOS BUILDING

Engaging stakeholders in developing TYNDP Scenarios is based on three core principles: transparency, inclusiveness and efficiency. Transparency ensures that the complex process of developing long-term energy demand and supply Scenarios is clearly communicated and explained, including the implementation of the feedback from the stakeholders where appropriate or relevant, and open to feedback.

ENTSO-E, ENTSOG and ENNOH aim to provide transparency on all assumptions and methodologies and make underlying data openly accessible, so that Scenarios can be plausibly replicated by third parties. Inclusiveness reflects the importance of ensuring that TYNDP Scenarios take into account the general opinions of EU citizens and European stakeholders, which are represented by the bodies included in various interest groups.

This is achieved by aligning the TYNDP Scenarios' projections with EU climate and energy policy targets as well as implementing stakeholder feedback into the general assumptions, parameters, data and methodologies of the draft TYNDP Scenarios. Next to inclusiveness, efficiency is achieved through establishing the SRG representing interested parties throughout the entire value chain. This platform (SRG) allows for technical and timely implementation of feedback. Stakeholder input must be balanced with available time and capacity in order to obtain timely results in line with ACER's Scenarios Guidelines. The SRG is a platform for developing advice to the ENTSOs covering main outcomes of their discussion, reflecting majority views and minority views on key inputs, assumptions and methodologies proposed by the ENTSOs. To ensure a robust and non-discriminatory scenario development process, scenarios must be based on comprehensive information and prepared impartially. Stakeholder scrutiny of inputs, assumptions and methodologies, contributes to those principles.

Any organisation or individual outside the SRG can contribute to the development of TYNDP Scenarios through multiple fully public stakeholder events and written consultations. Continuous interaction with stakeholders ensures that the most up-to-date data, technologies, and real-world experiences are integrated into the Scenarios by timely implementing stakeholder input.



3 METHODS OF STAKEHOLDER INVOLVEMENT IN TYNDP SCENARIOS BUILDING

When to consult

Consultation activity will be conducted whenever necessary with regard to the significance for stakeholders, and with different objectives depending on the subject matter:

- Depending on the nature of the work output being developed, to consult informally with stakeholders at an early stage in order to get ideas and elements for the preparatory work, and at a later stage, to conduct a formal consultation to seek feedback on a draft proposal. For all stages where consultation is used, to alert stakeholders of the upcoming consultation and to consult sufficiently early to ensure both that stakeholders have adequate time to provide input and that there is adequate time to take stakeholder input into account.
- To publish the Stakeholder Engagement Plan indicating where and why consultation processes will be required as part of the process.
- To publish a timeline of on-going and planned consultation processes aligned to the Stakeholder Engagement Plan on the website. This, supported by pro-active announcements, ensures appropriate notice periods in advance of opening consultation phases.

Whom to consult

ENTSO-E, ENTSOG and ENNOH actively seek to consult any interested party directly affected by the subject matter in accordance with the respective regulations, by making clear the target audience in the consultation document, if the audience is different from the standard parties. Standard parties are typically industry associations representing transmission grid users (generators, distribution networks, suppliers and traders), market participants, consumers (including industry), environmental and climate non-profit organisations, academia, power exchanges, ACER, national regulators and EU member states. All stakeholders are generally treated in an equal manner. ACER, the European Commission and the SRG receive a diversified approach in that meetings, content sharing and methods of interaction frequent throughout the Scenario Building timeline.

ENTSO-E, ENTSOG and ENNOH will:

- Keep the consultation open to any interested party, by announcing workshops and formal consultations through public newsletters and by appropriate website information.
- Make it possible for interested parties to subscribe to news about consultations.
- Consult at an appropriate level (national, regional, and European) with regard to the subject matter. For TYNDP Scenarios, this is primarily the European level taking into account national developments.



How to consult

ENTSO-E, ENTSOG and ENNOH will:

- Organise, depending on the nature of the deliverable being developed, informal discussions with all interested stakeholders at an early stage. This may be especially important when certain stakeholders are more directly affected than others, or when their input or data form an important basis for TYNDP Scenario work.
- Seek stakeholder engagement during the development process through one or more workshops, open to all interested stakeholders and announced via a public newsletter, prior to the formal consultation.
- Provide prior notice as soon as possible via the timeline posted on the website. Allow the consulted parties adequate time to respond taking account of the complexity of the issue and any deadlines set. In general, 'adequate time' means sufficient notice of an upcoming consultation period to allow for stakeholders to set aside time (for workshops, at least four weeks' notice will be given), and sufficient time for stakeholders to respond to the consultation, as outlined below.
- Strive to allow, for formal consultations, for a standard one-month consultation period; however, in some cases a longer consultation period may apply, for example if the informal consultation phase has revealed controversial issues.
- The maximum consultation period will be three months, in order to ensure that progress on joint deliverables is not unduly delayed.
- Shall strive to increase the use of informal consultations with SRG and to give prior notice of the formal consultation as early as possible in case of ENTSOs internal reasons (for example the consensus on the drafting of the consulted document has required more time), endangering the possibility to deliver it by a mandatory deadline.
- Produce reasoned proposals to be consulted upon, indicating the objectives pursued.
- Shall strive to provide additional information on the impact of the proposals, when needed for proper evaluation of the given proposals.
- Use a variety of tools in conducting consultation activities:
  - Workshops will usually occur during the drafting process and may focus on key details of the Scenarios being drafted or have a broader scope depending on the subject matter.
  - Formal consultations take place to seek feedback on a complete draft document or a sub-deliverable. The consultation document will be made available and announced on TYNDP Scenario dedicated websites and on the European transmission system operator associations' websites and stakeholders will be informed via public newsletters, and in some cases via direct email. A web-based application with registered access for stakeholders will be put in place, offering electronic forms to submit contributions. The application will allow to centrally organise and archive all contributions as well as publish these contributions from stakeholders.
  - Other information forums, such as roundtables, stakeholder events and occasionally conferences, may be used to increase topic awareness and understanding.
- Publish clear, concise and reasoned documents that are easy to read, including, where appropriate, "Frequently Asked Questions" type documents. Standard templates, including a summary of key questions, should be used. Supporting data, assumptions, and references will be provided in an easily accessible and available manner.

Where to consult

ENTSO-E, ENTSOG and ENNOH will use the following tools to ensure stakeholders receive access to information about the TYNDP 2028 Scenarios:

- Public webinars open to all along key steps of the Scenario Building process. These webinars will include a status update on the Scenario Building process, next steps, and the opportunity for stakeholders to ask questions. Webinars will be announced at least two weeks in advance. All relevant documents and resources from public engagement activities will be made available. This includes slides and recordings of webinars and workshops. In addition, any additional developments will be published with short status updates and an overview of next opportunities for stakeholders to get involved.
- All relevant TYNDP Scenario information is posted on the joint TYNDP Scenarios website

  https://www.entsos-tyndp-scenarios.eu/

  including registration to and documentation of public events (webinars, workshops, consultations)
- Stakeholders are welcome to contact

  scenarios@entsos-tyndp-scenarios.eu

  and will receive responses to their queries.

How ENTSO-E, ENTSOG and ENNOH will respond to consultations

ENTSO-E, ENTSOG and ENNOH will:

- Be mindful of stakeholders' comments and will give appropriate consideration to all responses received.
- Allow for confidential and non-confidential responses. Confidential responses will be allowed only if necessary, given the subject matter; in such cases, an explanation of grounds for the acceptance of a confidential response will be outlined for all stakeholders.
- Make public all documents and minutes of meetings related to the consultations, in accordance with the respective regulations.
- Make public all (non-confidential) responses received to formal consultations and the total number of responses received.
- Make public the final joint position following the consultation including an evaluation of the responses received explaining the reasons why comments have or have not been taken into account, in accordance with the respective regulations.
- If necessary, and where timelines permit, consult a second time (for example where revised proposals are radically different from the original proposals). ENTSO-E, ENTSOG and ENNOH provide justification for the second time consultation when introducing it.
- Publish all joint responses to formal consultations carried out by the European Commission and ACER.

How to treat confidential information

On how to treat confidential information, ENTSO-E, ENTSOG and ENNOH will:

- Typically treat responses as non-confidential.
- Leave for the consulted party to decide whether the response (or parts of it) is confidential or not. ENTSO-E, ENTSOG and ENNOH will define the conditions to be met to claim the response as confidential as well as the procedure to be applied when the define conditions are not met. Whatever the consulted party claims as confidential shall be treated as such.
- List the names of all responding organisations unless requested to be made anonymous by the responding entity.
- Not link responses to specific respondents in the evaluation of responses.
- Carry out an evaluation of responses in a transparent way to all third parties without undermining their confidentiality rights as protected herein.

Categorisation of stakeholder engagement

Stakeholder engagement actions are attributed in two categories: (1) activities that seek to inform stakeholders about the Scenario Building process (i.e., information sharing via website or events) and (2) activities that seek to ensure active involvement of stakeholders in the Scenario Building process (i.e., consulting and involving). Thereby it is important to clearly define stakeholders' goals and expectations towards the identified levels of citizen and stakeholder participation in TYNDP Scenario planning and decision-making. The selection of the level of participation that defines the public and stakeholders' roles in the Scenario Building participation process is largely categorised by the following goals and expectations:

Inform: To provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and solutions. The ENTSOs keep stakeholders informed without requiring stakeholders' feedback.

Consult: To obtain public feedback on analysis, alternatives and decisions. The ENTSOs keep stakeholders informed, listen to and acknowledge concerns and aspirations, consider, incorporate stakeholder input as appropriate, and provide feedback on how public input influenced the decision.

Involve: To work directly with the public and stakeholders throughout the process to ensure that concerns and aspirations are consistently understood and considered. Involving requires a more thorough and constant engagement and builds up on informing and consulting stakeholders. The ENTSOs primarily work with the SRG to ensure that public concerns and aspirations are directly reflected in the alternatives developed and provide feedback on how input influenced different decisions.

The participation level required by Regulation (EU) 2022/869 (TEN-E Regulation) is closer to consultation, involvement via the public and involvement via the SRG, rather than collaboration as joint decision-making or delegated power. This is due to the TEN-E Regulation and ACER TYNDP Scenarios Guidelines requiring broad stakeholder involvement, consultation, scrutiny and input on assumptions, methodologies and data, but leaving the responsibility for developing and approving the Scenarios with the ENTSOs, subject to ACER and European Commission oversight.

ENTSO-E, ENTSOG and ENNOH inform and actively involve stakeholders in at least the following steps of the Scenario Building process of which some are primarily dedicated to SRG scrutiny (SRG-specific):

1. **Feedback implementation tracker**
2. **Regular exchanges with SRG (SRG-specific)**
3. **Agreed procedural time plan for SRG (SRG-specific)**
4. **SRG activities tracker (SRG-specific)**
5. **Definition of format of data sets (SRG-specific)**
6. **Proposal of external Scenarios used for benchmarking (SRG-specific)**
7. **Development of the Stakeholder Engagement Plan (SRG-specific)**
8. **Review of stakeholder engagement in timeline (SRG-specific)**
9. **Confirmation of Storylines (SRG-specific)**
10. **TYNDP 2028 Scenarios Innovation Roadmap (SRG-specific, for later public consultation)**
11. **Discussion on deciding about a cut-off date until when adopted energy and climate policies should be taken into account (SRG-specific)**
12. **Input data, methodologies, parameters and assumptions (SRG-specific and for public consultation)**
13. **Review of the draft TYNDP 2028 Scenarios (SRG-specific)**

4 STAKEHOLDER ENGAGEMENT TIMELINE

The TYNDP 2028 Scenarios Stakeholder Engagement Timeline is a "comprehensive process timeline" (recital (47) TYNDP Scenarios Guidelines, ACER 2023), including at least the different steps for constructing the Scenarios with their planned timings (including a timeline for any innovation not yet fully implemented before the Scenarios cycles has started), the cut-off date applicable to the particular Scenario Building process, when updates on the progress of the Scenario Building will be shared with all stakeholders (e.g. publication of documentation and data) and how the SRG and other stakeholders are integrated in the process, directly linking it with the Stakeholder Engagement Plan.

The latest TYNDP 2028 Scenarios Stakeholder Engagement Timeline is available in the Stakeholder Engagement segment on the 2028 Scenarios website.

5 FEEDBACK IMPLEMENTATION TRACKER

The Feedback Implementation Tracker shall be a publicly available record of stakeholder input received during the TYNDP Scenarios process, documenting the parties involved, topics discussed, feedback provided, and how this feedback was considered, incorporated, or not incorporated, including the rationale for decisions taken.

The tracker shall enhance transparency, traceability, and accountability by providing a clear overview of stakeholder contributions and their influence on scenario development. To support accessibility and reusability, participants should avoid arrangements that create confidentiality restrictions, while the tracker should minimise the use of sensitive information through aggregated, anonymised, and simplified reporting where appropriate.



6 INCLUSION OF THE STAKEHOLDER REFERENCE GROUP

The Stakeholder Reference Group (SRG) organises itself independently from the ENTSOs, with the aim of providing timely, expert input to the ENTSOs' development of Scenarios in accordance with the ENTSOs' scenario development timeline (see recital (45) and (54) ACER TYNDP Scenarios Guidelines). The following section outlines how the inclusion of the SRG in the Scenario Building allows for an independent advice of experts in the Scenario Building process by ENTSO-E, ENTSOG and ENNOH.

The SRG can request all information and documents to carry out its task, which the ENTSOs make available considering their duty to protect confidential information in line with legal requirements. The ENTSOs remain at all times responsible for the inputs, assumptions and timely submission of the draft Scenario Report and are not bound by the advice of the SRG. However, this advice must be recorded and published in line with the transparency requirements established in Section 4 of the TYNDP Scenarios Guidelines (recital (57) and (58) ACER TYNDP Scenarios Guidelines).

Regular exchanges with SRG

The SRG is integrated into the ENTSOs' TYNDP Scenario-building process through regular and structured exchanges supported by the current SRG online environment and tracker system. Throughout the scenario cycle, the SRG engages with the ENTSOs through workshops, working group meetings, dedicated consultations, weekly or bi-weekly exchanges, and written feedback rounds, providing independent scrutiny of documentation, including assumptions, methodologies, input data, and draft outputs. The SRG's online environment serves as the central collaboration and transparency tool, comprising reading and review material, discussion minutes and tracking logs, which records key discussions, actions and follow-up items. This structure enables continuous monitoring of topics across scenario cycles, facilitates accountability for follow-up actions, and supports informed dialogue between the SRG, ENTSOs and observer institutions.

Agreed procedural time-plan for SRG

In accordance with Section 4) of Recital (54) of the ACER TYNDP Scenarios Guidelines (2023), the time available to the SRG to discuss and reach an informed and balanced view for its advice shall be defined in the agreed procedural time-plan for scenario development, as referenced in the process timeline and Stakeholder Engagement Plan. Specifically, the procedural time-plan ensures that SRG members have sufficient time to review all relevant materials, discussions are conducted in a transparent and inclusive manner, advice is informed, balanced, and evidence-based, and stakeholder engagement activities are aligned with the overall scenario development timeline.

The following procedural time-plan has been agreed with the SRG during a formal review period in August and September 2026:

SRG members shall receive formal notification of the upcoming review, together with information about the review materials, at least two weeks in advance. Structure and format of the review documents and materials, expected templates or forms for providing comments and what feedback is sought will be clarified in the notification period. For that purpose, if needed, ad-hoc meetings or workshops can take place, if requested by the SRG.

Where not clear, identification of any feedback that should be submitted prior to SRG discussions, as well as deadlines and submission channels for advance comments should be agreed upon.

Expected scope and level of detail of the SRG advice, specifically requirements regarding consensus views, minority views, and supporting rationale, and any additional pro-

cedural requirements necessary for the preparation and finalisation of the SRG review should be documented by the SRG as to allow for process transparency.

SRG members shall assess the materials, exchange views, discuss findings, and formulate their advice with the objective of reaching an informed and balanced position. Feedback by the SRG shall be given within three weeks from the start of the review period. Review material shall be circulated with the SRG at the beginning of the review period by the latest.

Feedback received from SRG members shall be consolidated and considered for inclusion in the final SRG opinion.

In practice, the agreed procedural time plan for the SRG will consist of

- A two-week notice period, during which clarifications on the review material and review period will be provided and advance feedback requirements are communicated.
- A three-week review period, during which the review of materials, facilitating discussions and exchanges, submission and consolidation of comments, and formulation of SRG advice/opinion is formalised before submission of feedback. Where an overall SRG advice/opinion is not found, individual SRG members' feedback shall be submitted indicating which SRG member(s) give(s)advice.

SRG activities tracker

Through this Stakeholder Engagement Plan, ENTSO-E, ENTSOG and ENNOH record stakeholder interactions. Specifications on how the SRG is included in giving feedback on the different aspects of the Scenario Building, as well as the SRG's own recording of their activities, in terms of the parties, the topic(s) discussed and how interactions have been considered in the development of the Scenarios, is outlined in the SRG tracker (see recital (49) ACER TYNDP Scenarios Guidelines).

Definition of format of data sets

To ensure that scenario datasets are accessible, understandable and usable by stakeholders reviewing the Scenarios, the format of data sets should be agreed upon with the users of the data and consulted with the SRG (recital (52) TYNDP Scenarios Guidelines, ACER 2023). While the users of the data are identified as the public, especially public consultation respondents and the SRG, a commonly defined agreement on the format of data sets is verified via the SRG. Consultation of the SRG to define the format of data sets helps identify stakeholder needs regarding data structure, granularity, transparency and ease of review, thereby enabling more meaningful scrutiny of assumptions, methodologies and results.

Proposal of external Scenarios used for benchmarking

The identification and choice of external Scenarios used for benchmarking the TYNDP 2028 Scenarios could be defined by the SRG (recital (53) TYNDP Scenarios Guidelines, ACER 2023). This could gather views on which external Scenarios could provide credible and relevant benchmarks for validating the TYNDP 2028 Scenarios. The stronger inclusion of the SRG in the Scenario benchmarking exercise is described in the TYNDP 2028 Scenarios Innovation Roadmap under 3.1.3. *Stakeholder-supported Scenario Benchmarking*.

7 STAKEHOLDER ENGAGEMENT BY DELIVERABLE

The following section summarises the specific elements for which inputs from stakeholders are expected to be taken into account. Stakeholder engagement should allow outside contributors enough time to evaluate the key inputs and provide feedback on the assumptions driving and influencing the results, detailing when SRG or public respondents must deliver feedback and explaining how non-SRG stakeholder engagement is carried out (recital (48) TYNDP Scenarios Guidelines, ACER 2023). The deliverables are listed below and receive descriptions whenever updates or their rollouts occur.

Development of the Stakeholder Engagement Plan

The development of the Stakeholder Engagement Plan is regularly updated to trace the delivery of tasks associated with the inclusion of stakeholders in the TYNDP Scenario Building process. The version control table of the document outlines when updates were implemented. For the development of the first published version of the Stakeholder Engagement Plan (version 2), the ENTSOs prepared the document which was reviewed by the SRG from August until September 2026, following restricted capacities from the SRG's side to co-draft the Stakeholder Engagement Plan as communicated at an SRG workshop on 8 July 2026.

For all following versions of the Stakeholder Engagement Plan, updates related to the summary of deliverables achieved during the Scenario Building process, no review of the SRG is presumedly required. The ENTSOs would again consult the SRG for review of any material updates to the Stakeholder Engagement Plan.

Review of stakeholder engagement in process timeline

Recitals (46) and (47) TYNDP Scenarios Guidelines, ACER 2023, support the inclusion of a formal review of stakeholder engagement within the process timeline by requiring stakeholder engagement to be planned, transparent and sufficiently integrated into the scenario-building process, while also requiring the publication of a comprehensive process timeline that clearly identifies stakeholder involvement and key milestones. Consistent with these requirements, the SRG will be utilised as the primary external review mechanism for stakeholder engagement, providing expert scrutiny of the Stakeholder Engagement Plan and the stakeholder engagement timeline, assessing whether stakeholder interactions are timely, meaningful and aligned with the overall scenario development process, and recommending improvements where necessary. This approach ensures that stakeholder engagement is not only planned and documented, but also periodically reviewed and refined throughout the scenario cycle.

TYNDP 2028 Scenarios Innovation Roadmap

Consultation on the 2028 Scenarios Innovation Roadmap is required to identify stakeholder priorities, gather innovation proposals, validate implementation priorities, and ensure transparency regarding how innovations are selected and implemented. Stakeholder input for the creation of the TYNDP 2028 Innovation Roadmap was gathered through the review of the SRG Opinion on the TYNDP 2026 Scenarios, stakeholder feedback on the 2026 Innovation Roadmap via the public consultation package in 2026, a dedicated SRG survey conducted in June-July 2026, and the ongoing review of the draft roadmap by the SRG in September 2026.

Confirmation of Storylines

Confirmation of the TYNDP 2028 Scenarios storylines is needed to certify whether the proposed scenario narratives and key uncertainties are relevant, credible, and aligned with stakeholder expectations as well as regulatory requirements.

Input data, methodologies, parameters and assumptions

Parameters and assumptions

To challenge and validate the key drivers underpinning scenario outcomes, improving robustness, and reducing bias, the assumptions and parameters substantiating the TYNDP 2028 Scenarios need to be reviewed by stakeholders.

Discussion regarding the TYNDP 2028 Scenarios' cut-off date – until when adopted energy and climate policies should be considered – is needed to clarify what external evidence is included in the benchmarking or selection of parameters, assumptions, data and methodologies, as well as to provide transparency regarding the necessary exclusion of late information. This should not, however, exclude any relevant EC Scenarios under development, such as the Reference Scenario or Impact Assessment for the post-2030 framework, from the benchmarking exercise

ACER's TYNDP Scenarios Guidelines, paragraph (19), advise the ENTSOs to identify and propose a cut-off date until when adopted energy and climate policies should be taken into account, together with the SRG.

Data transparency

Transparency on data collection and input data for the modelling of the TYNDP 2028 Scenarios is required to provide visibility of the data sources, data utilised and data availability to allow stakeholders the opportunity to assess its appropriateness and build confidence in the modelling process.

Data collection

The ENTSOs aim at providing visibility over the data sources and limitations, and to draw on stakeholder data to complement data sets where the original data collection implies need for definition.

The development of the TYNDP 2028 Scenarios relies primarily on data collected from TSOs, including projections for electricity and hydrogen demand, generation and infrastructure. While these inputs provide the foundation for the Scenarios and are expected to reflect national planning assumptions, TSOs are also responsible for ensuring that the resulting datasets are compliant with National Energy and Climate Plans (NECPs). Where TSO-provided data does not sufficiently support the achievement of EU climate and energy targets, adjustments may be required to be made by the ENTSOs to close identified gaps and ensure consistency with the regulatory requirement for EU target-compliant Scenarios. Such gap-filling may include the revision of electricity and hydrogen demand projections, as well as other assumptions underpinning the energy transition, to ensure that the final Scenarios provide a credible representation of pathways towards the EU's 2030 and 2050 climate objectives. These changes will be outlined so that the final numbers used in the Scenarios are clear and can be understood based on the data.

Input data

The ENTSOs aim at verifying data quality, identify potential errors or outliers, and draw on stakeholder expertise to improve dataset before modelling where consultation is advised.

Development or update of methodologies

The ENTSOs aim at fostering stakeholder scrutiny of the developed methodologies for the TYNDP 2028 Scenarios cycle, as it is required to enable independent review of modelling approaches and ensure methodologies are robust, credible, and fit for purpose.

Review of draft TYNDP 2028 Scenarios

The SRG is to review the draft TYNDP 2028 Scenarios, to verify plausibility, identify unintended outcomes, and confirm that stakeholder feedback has been appropriately reflected before finalisation.



GLOSSARY

ACER	European Union Agency for the Cooperation of Energy Regulators
DSO	Distribution System Operator
EC	European Commission
ENNOH	European Network of Network Operators for Hydrogen
ENTSO-E	European Network of Transmission System Operators for Electricity
ENTSOG	European Network of Transmission System Operators for Gas
ENTSOs	ENTSO-E, ENTSOG and ENNOH
EU	European Union
NECPs	National Energy and Climate Plans
SRG	Stakeholder Reference Group
TSO	Transmission System Operator
TYNDP	Ten-Year Network Development Plan

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for Gas

Avenue de Cortenbergh 100
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DreiDreizehn GmbH, Berlin | www.313.de
Cover artwork: ZN Consulting, Brussels |
www.znconsulting.com

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Publishing date

October 2026




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