

TYNDP 2018

Insight Report Stakeholder engagement

Final version after consultation and
ACER opinion - October 2019

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ENTSO-E Reports 2018

As an improvement to the TYNDP 2018 package, the Insight Reports have been categorised in order to help readers navigate through the document and focus on what readers might find of interest. The category of reports are:

- Executive Report – Contains the key insights of the whole TYNDP package through its two-year cycle.
- Regional Reports – Based on the four projects of common interest (PCI) regions, the reports focus on the regional challenges of the energy transition.
- Communication – These reports communicate how we have interacted with our stakeholders and improved the TYNDP package from 2016 to 2018.
- Technical – These reports give a deeper insight into the technical subjects, including how we use our data, and the technical challenges of energy transition.

We hope this guide is of benefit to all stakeholders.

Main Report

Regional Reports

- North-South Interconnections East
- North-South Interconnections West
- Northern Seas Offshore Grid
- Nordic & Baltics

Communication

- Stakeholder Engagement
- Improvements to TYNDP 2018

Technical

- Data and Expertise
- Technologies for Transmission
- Viability of the Energy Mix
- CBA Technical

Adequacy

- Mid-Term Adequacy Forecast

Section 1

Why participate in the TYNDP?

How is my access to electricity secured at all times at the flip of a switch for a reasonable price and without negatively impacting the environment? This is a question that matters for everyone in today's modern societies. Electricity is increasingly key to our way of life. As Europe gears up to fulfil its objectives and its international commitment on climate, more electricity will be needed for our transport, our heating and cooling, our smart homes, etc. This is why planning the power grid of the future is of interest to all.

If the power sector is the engine of the energy transition, the grid is the 'transmission belt'. Europe needs a fit-for-purpose grid to connect smart cities with one another, to shift large volumes of renewable energy from one part of Europe to the other, to accommodate new technologies and energy models and serve more and more active customers.

The TYNDP, as a joint European grid planning exercise, offers high quality answers to this founding question: what grid does Europe need to fulfil EU environmental targets? Since 2013, the TYNDP is also the first step in a process identifying the key European infrastructure projects – the so-called projects of common interest (PCIs).

For all these reasons, we all should be concerned about the quality of the TYNDP, get involved via our consultations and events and support ENTSO-E in its effort to make the process even more open and inclusive.

Section 2

Stakeholder influence: Methods

The tools used to engage stakeholders continue to improve: technology increasingly allows stakeholders to take part not only physically but through remote connection:

— Consultation process

Consultations are done through the ENTSO-E consultation hub and allow stakeholders to state their opinions on each of our reports. When ENTSO-E releases a TYNDP report, it is commonly available to all to be consulted on.

— Workshops/Webinars

ENTSO-E has hosted workshops and webinars throughout the 2-year process. All stakeholders are welcome to attend the events and state opinions or ask questions. ENTSO-E also tries to take into account the feedback from stakeholders, if it is not possible in the current round then they will be taken into account in the following cycle.

— Bilateral meetings: e.g. EC and ACER meetings

It is very important that ENTSO-E has bilateral meetings with the European Commission and ACER to ensure that TYNDP is fit for the purpose to support the PCI process. The TYNDP is an important deliverable for the ECs PCI process, which relies on ENTSO-E's assessment of projects submitted into the TYNDP. ENTSO-E also has bilateral meetings with other stakeholders within the energy sector such as RGI and IRENA, in order to share knowledge, opinions and best practice.

Section 3

Stakeholder Engagement & Participation

- 3.1. Scenario Building**
- 3.2. System Needs and Regional Investment Plans**
- 3.3. TYNDP 2018 Project Collection**
- 3.4. CBA Guidelines & TYNDP 2018 Project Collection guidelines**
- 3.5. TYNDP 2018 Consultation**
- 3.6. Network Development Stakeholder Group**

3.1

Scenario Building

— Scenario Workshop

A Public Webinar was held for the development of the 2018 Scenarios, mapping the process from start to finish, including a presentation of the storylines. A poll was done during the meeting which consisted of questions from the credible range of RES in 2030 to Assumptions of integration of heat pumps. Around 77 stakeholders contributed to the polls.

— Scenario Building

This was a physical stakeholder workshop on the TYNDP 2018 scenarios. The improvements compared to the previous scenarios were explained and the stakeholder were involved in interactive sessions. During these session stakeholders created their own scenario and voted on the storylines proposed. 55 Stakeholders attended this meeting.

— Scenario Building workshop with Member States

The ENTSOs organized a second stakeholder workshop for ACER, EC and Member states. This workshop was the same format as the previous stakeholder workshop. 48 Stakeholders attended this meeting.

— Scenario Building Report for Consultation workshop

Following the publication of the first set of joint scenarios, the ENTSOs hosted a stakeholder workshop. In the workshop many aspects of the scenarios were explained, from the reason for building them to the results. 146 stakeholders attended this workshop.

— Scenario Storylines consultation

The ENTSOs released a consultation on the scenarios which lasted 1 month. 21 comments were received from stakeholders all over Europe and the results can be seen on the ENTSO-E TYNDP 2018 website; under 'scenarios'.

3.2

System Needs and Regional Investment Plans

As a part of the release of this document for consultation, ENTSO-E organized a webinar to explain the results of the System Needs 2040 report

and the content of the Regional Investment Plans. The system needs webinar attracted 181 participants and received 8 responses in the consultation.

3.3

TYNDP 2018 Project Collection

As part of the ENTSO-E project collection process, ENTSO-E hosted 3 workshops in separate locations around Europe to help project promoters deliver the required information and directly respond to any existing or new queries. The 3 locations were:

- Belgium (Brussels) – 27 attendees
- Italy (Rome) – 15 attendees
- Germany (Berlin) – 15 attendees.

3.4

CBA Guidelines & TYNDP 2018 Project Collection guidelines

ENTSO-E is committed to working closely with ACER and the European Commission when it comes to developing guidelines and methodologies which affect stakeholders. It was therefore very important to consult with both organizations when creating the CBA guidelines and the guidelines for inclusion of project in the TYNDP. The CBA guidelines used as part of the TYNDP will be approved by the European Commission. The EC is responsible for the developing of any guidelines which will be required for projects in the TYNDP to be eligible for subsequent PCI selection. ENTSO-E has developed its own guidelines for inclusion of project in the TYNDP in consultation with the European Commission to avoid any conflict with any subsequent EC guidelines. Therefore all promoters involved in the process can have confidence that the process is fair and in line with the views of these crucial stakeholders.

Roadmap and explanation of the participation opportunities during the whole process of the TYNDP 2018 (phase I and phase II):

To comply with Regulation (EU) 347/2013 Annex III.3 (3), electricity transmission and storage projects must be part of the latest available TYNDP to be eligible for inclusion in the EU's list of projects of common interest (PCIs). PCIs are electricity projects that have significant cross border impact on at least 2 Member States.

The guidelines for inclusion of projects in the TYNDP were revised thanks to project promoters' input, collected during a workshop organized by ENTSO-E in June 2017.

From October to November 2017, ENTSO-E collected applications of transmission and storage projects for inclusion in the TYNDP 2018 package. 195 applications were received from transmission projects and 12 from storage projects. All project candidates for PCI-status will be evaluated based on the assumptions, analyses and methodology developed in the TYNDP¹.

Figure 3.1 TYNDP Publication Timeline

ENTSO-E TYNDP	J	F	M	A	M	J	J	A	S	O	N	D	STATUS AT END Q2 2018
TYNDP 2018													
Scenario development	●	●	●	●	●	●	●	●	●	●			Released for consultation in Oct 2017, final version in March 2018
Pan-European and Regional system needs, Regional Investment Plans				●	●	●	●	●	●	●	●	●	Released for consultation in Feb 2018
List of projects & investments							●					●	Project collection in Oct-Nov 2017
Cost Benefits Analysis assessment of projects										●	●	●	Work on CBA 3.0 ongoing
ENTSO-E Activity	ENTSO-E Decision / publication			Workshop / Webinar - consultation			ACER Opinion			Call launch			

3.5

TYNDP 2018 Consultation

ENTSO-E will undertake the common practice of releasing the TYNDP for consultation near the end of July. The consultation will last 1.5 months. All stakeholders are very welcome to contribute to this consultation, and

where possible ENTSO-E will endeavor to implement changes for the final release of the TYNDP 2018 package or to take these into consideration for the future releases.

¹ The PCI selection is a process separate from the TYNDP process, under the responsibility of the EC Regional Groups led by the European Commission.

3.6

Network Development Stakeholder Group

During the application process of the TYNDP, not all project promoters fully meet the Project inclusion guidelines. ENTSO-E must follow the procedural process outlined in the 'ENTSO-E Practical implementation document for inclusion of project in the 10-year network development (TYNDP)2018' document, but to ensure our opinions and reasons for rejection of a project are objective, transparent and non-discriminatory, we seek the advice of the NDSG. The NDSG opinion is not binding and the final decision belongs to ENTSO-E. ENTSO-E held a session where all rejected project promoters had the opportunity to state reasons why they should be re-entered into the TYNDP 2018 process, in front of the NDSG. In this way, the NDSG acts as an advisory committee for this aspect of the TYNDP process. ENTSO-E will then take these views into account, finally making the final decision on whether these rejected projects should be re-accepted or remain rejected. The advisory committee for the TYNDP 2018 process took place in Brussels on the 17th May 2018.

Network Development Stakeholder Group Feedback

Feedback from RGI

RGI is supporting expertise within CAN Europe and the EEB to provide better feedback for the TYNDP process. Two series of workshops – one on modelling itself, the other on assumptions of technical and political nature – will take place starting in 2019. These workshops will bring together ENTSO-E, ENTSG, NGOs, TSOs, and other stakeholders. The goal is to identify which modelling challenges exist (missing algorithms, etc.), what solutions are available, how social values and corresponding political objectives can be mapped in a model, and ultimately how the most ambitious TYNDP scenario can be moved closer to compliance with the Paris Accord.

3.7

Interconnection Target Calculation

The 2014 March and June European Councils conclusions stressed the need to ensure the full participation of all Member States in the internal energy market. Accordingly, the European Council called upon the Commission in October 2014 to report regularly to the European Council with the objective of arriving at a 15% target by 2030, as proposed by the EC.

The EC established an Expert Group, composed of 15 experts from all over Europe, to advise on the ways to achieve the 15% interconnection targets by 2030. The Expert Group concluded its report last September and it has been issued last November.

The Expert Group studied the challenges brought by the constantly changing energy sector. In its report it recognized that the need for developing further interconnection capacity should reflect the reality of the needs of each member state. Interconnection thresholds should be applied accordingly. It also recognized that needs should be reflective of the role of interconnection in:

- Supporting the implementation of the internal energy market,
- Fostering the RES integration, and
- Improving the SoS across the pan-European area.

According to the Expert Group, Member States, TSOs/ promoters, regulators and European institutions should take action in case of any of the following thresholds is triggered:

- Efficient internal energy market should be interpreted in competitive electricity prices throughout EU. Member States should strive for minimising differences in wholesale market prices. New interconnectors shall be kept in priority if the price difference exceeds the threshold of 2€/MWh Member State borders, regions or bidding zones. The higher the price difference, the higher are the interconnection needs.

- The peak demand shall be met through the combination of national capacity and imports for every Member State. In cases where the nominal transmission capacity of interconnectors is below 30% of their peak load, Member States should investigate options for further interconnection.

- The further integration of RES shall not be blocked by the insufficient export capacity. RES for any Member State should be optimally at the pan-European level. Countries for which the interconnectors' nominal transmission capacity is below 30% of installed renewable capacity should study the options of further infrastructure development.

The Interconnection Target Group has done the calculation of 2030 targets using the 2020 nominal transmission capacity of interconnectors figures from TYNDP 2016.

During TYNDP 2018 the Interconnection Targets have been calculated for different time horizons and Scenarios.

On the basis of the methodologies defined by the Interconnection Target Group, ENTSO-E decided to go beyond the 2030 horizon targets and check the Interconnection Levels at the 2040 horizon. It did this based on the Identification of the System Needs process in TYNDP 2018 as explained in the latest report of ENTSO-E named "Completing the map".

In the main TYNDP 2018 package, Interconnection Levels have been calculated for the TYNDP 2018 CBA reference network (nominal transmission capacity of interconnectors) which corresponds to the 2027 time horizon.

Section 4

Future roadmap: TYNDP 2020

For the TYNDP 2020 process ENTSO-E will continue to consult with stakeholders where possible. This has already started with the Scenario Building Workshop, which accommodated more than 100 stakeholders around Europe. It will enable them to give their views on what the journey toward the energy transition should look like. In addition, the feedback received which could not be taken into account in the 2018 process will be used in the planning and development process for the TYNDP 2020. We therefore welcome the inputs our all stakeholders, even outside the consultation periods, this can be done via email TYNDP2018@entsoe.eu and we look forward to working with all stakeholder as they do their great work for the energy transition.

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