Question text	Answers
If national approaches do not collectively reach EU targets,	ENTSO-E and ENTSOG will publish the datasets as they are collected according
how will the ENTSOs tackle the process of adapting the	to the upcoming NECPs, whose draft versions to be published by end of June 2023,
scenario? Will there be discussions with MS?	as TSOs best estimate together with a methodology to bridge any potential gap.
	We can only assess any potential gap after all datasets are collected and analysed.
	The gap closing methodology will be consulted in July 2023 and this process will
	be performed in close alignment with the member TSOs in order to properly reflect national views.
The Scientific Advisory Board is expected to publish its	The carbon budget methodology will be published for first public consultation in
quantitative recommendation for the EU carbon budget in	July 2023. Additionally, a dedicated stakeholder roundtable is planned for this
H1-23. Will this be taken into account?	topic to gain detailed feedback from interested stakeholders (the ones registered to
	the session).
I'm not so into the abbreviations here, could you please	
explain what the NECPs that you were referring to are (if I	governance of the Energy Union and Climate Action ((EU)2018/1999) introduced
heard correctly)?	the obligation for each member state to submit such a plan and amend this based
	on the results of an assessment by the European Commission. These plans should be updated every two years.
	The TYNDP Scenarios began using NECP data as part of its National Trends
	scenario already in the TYNDP 2020 Scenario process.
Can the Ministry of Energy in a non-EU country participate	Under the updated TEN-E Regulation ((EU)2022/869) and the Scenario
in the stakeholder reference groups?	Framework Guidelines published by ACER, the participation of non-EU member
	states in the Scenarios External Technical Advisory Group (SETAG - new name
	for the Stakeholder Reference Group) is not foreseen.
	After its creation (which is foreseen during summer 2023), participants in the group
	will be determined by the group itself. Therefore, we encourage interested parties

	– included non-EU member states – to reach out directly to the Scenarios ETAG at
	this time and state their reasons for wishing to participate.
	and the same time the same time to be a same time.
	For those wishing to merely gain greater insight into the group's activities, the
	Scenarios ETAG will be required to produce and publish minutes of its meetings.
Do You share the presentation after the webinar has	Yes. All materials presented during the Stakeholder Process Update Webinar will
finished?	be uploaded to the Scenarios website. This includes the presentation, the full
	recording of the event and the full list of all questions asked by participants
	together with written answers by the Scenarios Team.
When SRG (Scenarios ETAG) will start engaging in the	The Scenarios ETAG will begin to engage with the TYNDP 2024 scenarios process
TYNDP 2024 scenario process?	as soon as the group is founded.
•	In addition to this, on our own initiative, the Scenarios Team is organising a series
	of Stakeholder Roundtables after completion of the first public consultation (July
	2023) in which we will invite stakeholders to help us <i>deep-dive</i> into specific and
	detailed topics. We expect that the majority of Scenarios ETAG members will also
	be involved in these roundtables.
Will you include scenarios which do not reach the EU	No. Achievement of EU climate goals is considered a minimum requirement for
climate goals?	our scenarios.
	We recognise that there have been requests from some stakeholders for "behind-
	the-targets/delayed-transition" scenarios. We reject this view. The TYNDP
	Scenarios are of great importance for the planning and development of EU energy
	infrastructure. To this end they should reflect EU energy and climate goals.
	Therefore, the Scenarios Team believes it would be inappropriate to develop
	scenarios that speculate on the achievement of EU energy and climate policy.
Who should be participating in these Scenarios work	All stakeholders are invited to participate in the scenario building process. The
according to plan?	Scenarios Team has developed a range of stakeholder activities to facilitate this:
	Public Consultation: All stakeholders are invited to take part in the two public
	consultations during each scenario cycle (this cycle in Q3-2023 and Q4-2023). To
	support and encourage participation, the Scenarios Team ensures a large window

for commenting (usually either 5 or 6 weeks) and organises a detailed Consultation Workshop to present the scenarios and answer stakeholder questions.

Scenarios External Technical Advisory Group: This group was conceived by the recast TEN-E Regulation ((EU)2022/869) and details on its tasks and membership were further elaborated on by ACER in its Scenario Framework Guidelines. The membership of the group is limited. The Scenarios Team initiated the first call for candidates for the Scenarios ETAG in May-June 2023 and will propose the initial membership list (ensuring fulfilment of the criteria set out in ACER's Scenario Framework Guidelines). Thereafter, membership of the group will be determined by the group itself.

Stakeholder Roundtables: On its own initiative, the Scenarios Team will hold a series of stakeholder roundtables in July 2023 to gain detailed feedback on specific topics for scenario development.

what is the link between stakeholder roundtables and stakeholder reference group (*Scenarios External Technical Advisory Group*)? Do you have the same type of participants?

There is no direct link between the Stakeholder Roundtables and the Scenarios External Technical Advisory Group (Scenarios ETAG), although it seems likely participants in both groups will overlap.

The Scenarios ETAG will be a permanent group exchanging with the Scenarios Team on a regular basis also beyond the current 2024 scenarios cycle. After facilitating its creation and initial participant list, the Scenarios Team will not be directly involved in the governance or processes of the Scenarios ETAG and will participate in Scenarios ETAG meetings merely as an observer.

The Stakeholder Roundtables are a one-off event that has been planned by the Scenarios Team. The goal of the Scenarios Team in this case is to focus on a small selection of topics requiring more detailed responses and to ensure that feedback on such topics is received in a transparent manner. The Scenarios Team will, of course, make the conclusions of the Roundtables publicly available and discuss

	these with the Scenarios ETAG. Indeed, it is likely that several Scenarios ETAG
	members will be in Stakeholder Roundtables.
When should the power generation project developers send	If your question refers to the submission of infrastructure projects for assessment
away their information?	in the electricity TYNDP 2024, please note that concerned projects include
	transmission projects (including offshore hybrid generation+transmission projects)
	and storage projects. The submission window will open from mid September to
	mid October 2023.
Will electricity DSR be fully addressed in the innovation	DSR units are modelled in the 2024 TYNDP Scenarios, but the model does not yet
part of 2024 cycle? If so, when/where will be possible to see	support their expansion, I.e., the capacities that exist in 2030 will be kept until the
data/modelling assumption?	last target year, 2050. We do plan to enhance the DSR modelling for the 2026 cycle,
	though, as one of the main areas of improvement.
	The modelling methodologies and the draft assumptions will be published as part
	of the public consultation (planned in July 2023).
Regarding the communication on innovation, did you take	There are a couple of modelling features used in the 2024 TYNDP Scenarios that
into account the use of flexibility in the electrical grid	reflect flexibility resources. First, storage is available in four different shapes:
development plan?	batteries, pumped-hydro units, H2 storage tanks and H2 salt caverns. Then, EV
de veropinent plan.	demand is explicitly modelled therefore the market modelling tool (I.e., PLEXOS)
	can decide to shift the charging requirements within time windows if the economic
	signals support it. Third, we also represent DSR units that shift demand in time
	(but do not reduce it), yet these units are not expandable in this cycle.
How is multi-day energy storage being integrated into the	There are two multi-day energy storage resources in the model. The first one is
scenarios?	connected to the electricity grid and is represented by pumped-hydro units. The
- Seemands.	second one is connected to the hydrogen network and reflects H2 storage in salt
	caverns. While the former cannot be expanded, the second one can.
Since not all the full/observer members of ENTSO-E are in	_
EU-27, what are the Targets in 2030 for those countries to	required by the REGULATION (EU) 2022/869; 'the Union's 2030 climate and
be considered for NT+?	energy targets and its 2050 climate neutrality objective'
	0.00

2024 Innovations. Domestic H2 production of synthetic	We are currently developing the scenarios including the demand for each energy
fuels. How much are you foreseeing for road transport?	carrier in each sector. As of today, we haven't determined this number yet.
Do you consider some sort of heat storage for flexible	No, heat storage flexibility is not modelled in this cycle.
heating?	
Which software ENTSO-E is using for energy planning and	The market modelling tool used for energy system planning within the TYNDP
also for power system analysis?	Scenarios process is PLEXOS. The power system analysis is conducted within the
	Cost-Benefit Analysis phases of the TYNDPs, with tools like PowerFactory.
What is the reason for only focusing on energy imports via	The TYNDP 2024 scenarios will cover a wide range of possible import routes and
NG, NH3 and e-fuels - and excluding imports of gaseous	carriers. Next to energy imports via NG, NH3 and e-fuels, we consider the import
hydrogen via pipelines?	of H2 and CH4 via pipelines.
Innovations in 2024 cycle, what about utility-scale battery	The utility scale battery storage is included in the Scenarios modelling, the
storage?	underlying assumptions will be shared for the public consultation, currently
	planned in July, 2023
Do you also consider super capacitors, flywheels, thermal	No, the only storage technologies available in the model are: Li-Ion batteries,
storage in the process?	pumped-hydro units and H2 storage (steel tanks and salt caverns).
When building a common EU-wide scenario based on input	This is indeed a challenging task. In a first step, the data from all EU27 member
from separate TSOs, how do you secure that this results in	states will be aggregated to grasp the EU-wide picture of this dataset. In a second
a coherent scenario across countries?	step the compliance with EU targets will be checked and any necessary changes
	will be done in close cooperation with the TSOs to maintain a coherent scenario.
Do you plan to use an explicit CO2 price for the Expansion	Yes, the CO2 price will be consulted during the first publication planned to take
loop?	place in July 2023.
Are there any plans to better calibrate hydro generation for	This is something that the modelling team is aware of and is trying to improve in
the PLEXOS simulations? Significant difference between	every cycle. However, it should be stated that, on the one hand, TP data is historical
hydro outputs with ENTSOE transparency data	generation data provided by operators while, on the other hand, the data used in
	the studies hydro modelling is derived from climate data provided by the
	Copernicus Climate Change Service. This climate data currently relies on
	reanalysis models that have their own limitations and cannot accurately capture the
	hydro dynamics that operators see in real operation.