

ENTSO-E Annual Work Programme 2023 - Treatment of stakeholders' comments

This note contains a summary of remarks received during the public consultation organised from 05 July to 15 August 2022 and ENTSO-E views on those comments in relation to the Annual Work Programme (AWP) 2023 as submitted to ACER. For ACER's information, ENTSO-E organised a webinar on 27th July in the middle of Public Consultation.

Stakeholder	Do you think the Work Programme focuses on the right deliverables or should some be deleted or added	On the individual work items do you have any specific comments?	What items from the AWP should be prioritized in the case of a broader Russian issue causing disruptions/unintended consequences?	ENTSO-E views
Digital Engineering Ltd	The AWP 2023 neglects an important part of analysis: it does not reflect the physical impact Climate Change could have on the network operation. Climate Change will affect all levels of network elements (production, demand and transmission capacity). Importantly, the impacts will not be limited to harsher extreme events, but a New Normal will evolve which implies changes for network operation and layout. In order to build a robust and resilient network, the potential physical impacts should therefore be covered in R&D (methodology for making CMIP6 Climate Change data useable for network operators), network development and robustness/resilience (both using the Climate Change scenario data in addition to historical data for analysis and network development).	No answer	No answer	Currently ENTSO-E is addressing the climate change challenges and impacts on the transmission network through the initiatives within the planned RD&I Roadmap 2020-2030, ERAA, TYNDP and the Risk Preparedness Methodology: RD&I Roadmap 2020-2030 Flagship 3 (Enhance grid use and development for pan EU market) Flagship 4 (Enable large scale offshore wind energy into the grid). Topics like Circular economy included in planning and asset management, SF6 free solutions, Development of HV components and sub-systems for extreme environmental conditions will be further developed under those indicated flagships. ERAA and TYNDP studies A forward looking climate database which takes climatic time series for the power system from actual climate change adjusted meteorological models is under development and will be ready for use by 2024, and made available in the public domain. This is highlighted as a key requirement in the ERAA roadmap: Implementation Roadmap European Resource Adequacy Assessment (ERAA) (entsoe.eu). This improved data handling will also be of benefit for more accurate long-term scenario and grid planning studies in TYNDP context. Risk Preparedness Methodology Additionally, within the Risk Preparedness Methodology, ENTSO-E has identified several scenarios related to climate like droughts and heatwaves. In 2023 ENTSO-E will update the Risk Preparedness methodology and launch the 2nd cycle of identifying regional scenarios.



T&D Europe Yes T&D Europe welcomes the wider T&D Europe believes the security of supply The TYNDP's system needs study identifies need that may be addressed stakeholder engagement in actions should take precedent in case of a by very diverse solutions. The methodology does not look at what may development of the TYNDP 2024 broader Russian issue causing disruptions, be the best solution to address the needs. scenarios. With the TYNDP providing a including the need for anticipation and close Solutions include non-infrastructure solutions (such as dynamic line benchmark for network development, coordination with key ENTSO-E rating), and infrastructure solutions that are not wire-based (for we look forward to seeing improved stakeholders. Supply issues of other key example storage). The T&D industry is one among many sectors that will forecasting on the future quantitative critical inputs beyond gas for electricity contribute to making Europe's future power system fit for purpose. needs (n.b. products and services) to generation should also be taken into Therefore, the TYNDP system needs study is not limited to development account in the projections of ENTSO-E. enable these scenarios. Moving forward of physical infrastructure. Nor could it focus only on the 'needed towards the preparation of the TYNDP, functional development covering the entire system' as said in your and the building of long-term European For instance, ENTSO-E and ENTSO-G could comment, because possible actions to address system needs extend monitor and assess whether European grids energy scenarios, to succeed with the beyond network development. energy transition ENTSO-E should also have acted as enablers or deterrents of take into account the impact on the T&D European solidarity among Member States, industry and its expected contribution.. to respond to shortages in energy supply at ENTSO-E and the EU DSO entity have developed a joint list of priorities This means the TYNDP should go beyond national level. Case studies could involve for 2022 and 2023 in accordance with the Memorandum of the initial focus on the development of Central and East European countries which Understanding they have signed in early 2022. These priorities cover a the physical infrastructure, such as are highly dependent on Russia for gas, wide range of topics (operational, system development, market facilitation) and with different focus (e.g. technical exchange based on additional lines, to focus on the needed France currently importing electricity, or functional network developments countries best positioned to replace gasbest practices or common regulatory developments). covering the entire fired power plants. system. ENTSO-E has also engaged with the EU DSO entity on its Vision for a We look forward to getting involved in T&D also welcomes further RDI activities carbon neutral Europe for which the development of a sound the stakeholder engagement activities in Transmission & Distribution Interface and strengthened cooperation including promotion of EU funded projects the next following months and we are such as the READY4DC we are involved in. between TSOs and DSOs are critical. The final Vision will be released in ready to engage in a constructive Accelerating such programmes will enable Q4 2022 and follow-up activities might be initiated including with the EU dialogue on specific areas. In addition, we resilience against the foreseeable DSO entity. welcome the continuous improvement of geopolitical changes including unintended models and methodologies ENTSO-E is consequences from the broader Russian Specifically on the promotion of smart grids, ENTSO-E and the EU DSO committed issue. entity are working on a joint declaration of intent to accelerate the deployment of a European Digital Grid. This declaration will be followed 2. Cooperation on the T&D interface by technical deliverables which will further define relevant areas for (p.20)actions. This work will build upon previous cooperation including but not T&D Europe supports the ongoing only the report on smart grid indicators. cooperation of ENTSO-E with the EU DSO ENTSO-E appreciates the strong collaboration established with the T&D Entity and distribution system operators, including exchange of best practices for Europe and other Stakeholders who play the utmost importance in the network development at national level. developments of the cybersecurity in the pan-European arena. In particular, we support the work items Operational Technology plays a crucial role and opens a door for the related to data interoperability, cyber further discussions that will need to be addressed extensively. resilience and the planning and Cybersecurity is not a static arena, it is constantly evolving and growing. operational issues, including forwardlooking discussions on topics such as ENTSO-E welcomes T&D support in developing multi-vendor HVDC ENTSO-E Vision for a power system for a systems. We do share the view, the development of RDI Programmes, in carbon neutral cooperation with all stakeholders, is an effective way for the to accelerate the implementation of ENTSO-E RDI Roadmap.

We urge ENTSO-E to prioritise developing



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a common vision with DSOs on operating	
a distribution-based system. This	
common vision should be included as	
part of the TSO-DSO cooperation action,	
considering the urgency of rolling out the	
needed technologies in due time.	
With this in mind, it would be key to	
maintain a reference to continuing	
developing a common view on smart	
grids functionalities and their	
deployment, including the proposal on	
smart grids indicators. Keeping the	
discussion ongoing such as under the	
Commission's Smart Grids Task Force will	
enable an effective application of	
national and Union legislation and	
policies relevant to the implementation	
of Smart Grids.	
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3. Cybersecurity (p.21)	
T&D Europe welcomes the upcoming	
entry into force of the Network Code on	
Cybersecurity and ensuing close	
collaboration between ENTSO-E and the	
EU DSO entity. In this regard, T&D Europe	
would like to highlight the importance of	
paying special attention to the	
Operational Technology (OT) systems	
security of the installed base and	
associated digital equipment that are	
supporting today's electrical grid.	
We are also supporting the work items in	
relation to interoperability and data,	
monitoring activities related to the grid	
connection network codes, and TDO-DSO	
Interface, among others.	
interface, afflorig others.	



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ENTSO-E's work programme is based on legal mandates therefore it already covers all key deliverables, including on coordination with 3rd country TSOs. However, recent political and legislative initiatives should be taken into account. First, candidate status has been granted to Ukraine and Moldova by the Council of the EU on 24th June 2022. Second, the importance of commercial exchange of electricity with Ukraine was highlighted in the REPower EU Plan (23rd May) and in the European Commission Communication "Save gas for a safe winter" (20th July). Therefore, cooperation with these two countries and international cooperation in general could possibly be included as a dedicated chapter to the Work Programme.

In our understanding, there is a strong willingness of all parties involved to finalise the synchronisation of power systems of Ukraine and Moldova with the Continental European Network in shortest technically possible timeframe. This is why we believe that this fact could be considered in the wording of the respective sub-chapters of the Work Programme. First, a sub-chapter on Inter-Transmission System Operator Compensation (Chapter 2. Market) could include more definite wording on Ukraine's accession to the ITC mechanism (p.12). Second, in Chapter 3. System Development, the paragraph on selection of candidate projects for TYNDP 2024 could also refer to envisaged strengthening projects interconnections with Ukraine (p.13). Third, Ukraine also could be featured more specifically in Chapter 6. Cooperation on the Transmission & Distribution Interface (p.20) for the country to be engaged in cooperation and thematic workshops with the EU DSO Entity (operational issues and a vision for carbon neutral Europe).

Based on article 31(9) of Directive (EU) 2019/944, we would also propose to consider adding a sub-chapter (to Chapter 6.) on TSO-DSO cooperation for the purpose of the effective participation of market participants connected to the grids of system operators in retail, wholesale and balancing markets. Synchronization of the Ukrainian power system with the Continental European Network could also open possibilities for new market participants on the distribution level (integration of renewable energy sources into the market). Therefore, it is crucial to elaborate proper bilateral TSO-DSO coordination (including the Ukrainian DSOs). Ukrainian and

We would like to suggest to prioritize system development and cybersecurity. Better interconnection and opportunities of using available energy resources in Ukraine could help to reduce dependence on russian gas and to counterbalance the sharp increase in prices for gas caused by russia's uncompetitive hostile actions with gas supplies to the EU. As our experience shows, russia increasingly uses cyberattacks and cyber threats to undermine security of operations of the Ukrainian power sector with potential to attack the power systems of Continental Europe as well. These are real threats and they need to be addressed.

ENTSO-E is closely facilitating and monitoring the cooperation with Ukrenergo and Moldelectrica, while supporting the emergency synchronization related tasks. In the Annual Work Plan the chapter "Coordination with 3rd country TSOs" contains the elements of this collaboration.

About the Ukraine's accession to the ITC mechanism a decision has not been taken yet.

Regarding your comment on Chapter 3 System Development and the selection of candidate projects for TYNDP 2024, let us clarify that candidate projects are proposed by their promoters. ENTSO-E itself is not proposing infrastructure projects, only project promoters can do that.

If a project promoter, either a Transmission System Operator or a private company, wants to propose a project on Ukrainian-EU borders in TYNDP 2024 it is welcome to do so just like in past TYNDP editions (provided the application meets the TYNDP compliance criteria applicable to all candidate projects). Since its inception in 2010 the TYNDP welcomes transmission projects within ENTSO-E and on ENTSO-E's borders with third countries. These includes the borders of Poland, Slovakia, Hungary and Romania with Ukraine. However, so far, no project on these borders has ever been proposed for assessment in the TYNDP.

Ukrenergo and ENTSO-E have recently signed an Observer Membership Agreement. As first steps, Ukrenergo representatives are involved in a number of high priority activities which are necessary to maintain a safe operation of the Continental Europe synchronous area. These do not include TSO-DSO cooperation. Nonetheless, ENTSO-E will consider any request that Ukrenergo or the EU DSO entity might formulate in this respect.

Ukraine and its main Stakeholders are in the hotspot of the current geopolitical discussions where cybersecurity has its permanent "seat". We have welcomed the collaboration with the Ukrenergo, thus, the work has already began.

Cybersecurity is one of the top priorities for ENTSO-E and more work is foreseen in the upcoming future. Your comment only re-assures us that we are looking in the right direction.

It is possible that projects are proposed in future. However, a study performed in 2021 concluded that "from the perspective of steady-state analyses, the synchronous connection of Ukraine and Moldova to the continental part of ENTSO-E is feasible even without any additional requests for reinforcements or the construction of new infrastructure".

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	Finally, Ukrainian stakeholders could also		
	share their valuable experience in		
	addressing cybersecurity challenges that		
	could be reflected in a sub-chapter on		
	Cybersecurity (p.21).		