

86th System Development Committee Meeting

Date: 2 December 2021

Time: 09.00 – 13.30h

Place: Web-conference

Participants

Chairman

	Amprion	Germany
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Vice Chairman

	RTE	France
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Members

1.	Amprion	Germany
2.	AS Augstsprieguma tīkls	Latvia
3.	Creos Luxembourg	Luxembourg
4.	Elia System Operator	Belgium
5.	Elering	Estonia
6.	Eles	Slovenia
7.	Energinet	Denmark
8.	Fingrid	Finland
9.	Litgrid	Lithuania
10.	Mavir	Hungary
11.	MEPSO	Republic of North Macedonia
12.	NOSBiH	Bosnia&Herzegovina
13.	PSE	Poland
14.	REN	Portugal
15.	RTE	France
16.	Seps	Slovakia
17.	Statnett	Norway
18.	Svenska Kraftnät	Sweden
19.	Swissgrid	Switzerland
20.	TenneT TSO BV	Netherlands
21.	Transmission System Operator-Cyprus	Cyprus
22.	Transelectrica	Romania
23.	TransnetBW	Germany

Substitutes

24.	50Hertz Transmission	Germany
25.	APG	Austria
26.	Ceps	Czech Republic

Substitutes

27.	EMS	Serbia
28.	HOPS	Croatia
29.	IPTO	Greece
30.	OST-Operatori i Sistemit te Transmetimit	Albania
31.	National Grid ESO	United Kingdom
32.	REE	Spain
33.	TenneT TSO GmbH	Germany
34.	Terna	Italy
35.	<i>Transelectrica</i>	<i>Romania</i>
36.	<i>VUEN</i>	<i>Austria</i>

Conveners RGs

1.	Member of RG North Sea, replacing the Convenor	Netherlands
2.	RG Baltic Sea	Germany
3.	RG Continental South East	Serbia
4.	RG Continental South West	France
5.	RG Continental Central South	Italy
6.	RG Continental Central East	Czech Republic

Conveners WGs and SGs

1.	WG System Design Strategy	Netherlands
2.	WG Scenario Building	France
3.	StG Connection Network Codes	Germany
4.	WG Asset Implementation & Management	Slovakia
5.	Member of WS1 Technologies, WG AIM (<i>Topic 8.2.</i>)	Austria
6.	DT CBA	Germany
7.	Offshore Development Core Group (ODCG)	Denmark
8.	SDC Quality Manager	Czech Republic

Excused

1.	CGES	Montenegro
2.	Eirgrid	Ireland
3.	ESO-EAD	Bulgaria
4.	Landsnet	Iceland
5.	Scottish Hydro Electric Transmission	United Kingdom
6.	SONI	United Kingdom

Secretariat

1.	ENTSO-E	
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1. Attendance, quorum and approval of draft Agenda

The SDC Chair welcomes all participants to the 86th SDC meeting, being the last Committee meeting of 2021. The SDC Chair confirms that participants can formally cast their vote via teleconference on decisions proposed during the meeting.

The SDC Chair welcomes the new Convenor of WG AIM from SEPS and the member of WG AIM's Workstream 1 „Technologies“ from APG for Topic 8.2.

The SDC Chairman expresses, on behalf of the whole Committee, his gratitude and thanks to the Convenor of the StG Connection Network Code who has led the work on the network codes for grid connection over the past 12 years. The change in Convenorship is addressed in more detail in Topic 9.

The SDC Chairman also thanks the members of the UK TSOs who would soon be leaving the Association, and thus also the work of the Committee. The Chair points out that the UK has been a leading region in energy market liberalisation and other developments. Members have also been instrumental in many collaborations. The member from National Grid ESO thanks the other members of the Committee for all the work they had done over the past decade. Working arrangements are being set up to maintain close collaboration on technical exchanges.

The agenda is approved without further changes.

DECISION

34 out of 41 of the TSOs represented in the System Development Committee are attending the meeting, the SDC Chair states that the Committee meeting reaches the necessary quorum of half its members.

2. SDC Planning Programme

2.1. SDC Dashboard 2021

The SDC Programme Manager informs the Committee of the critical timeline to update the TYNDP scenarios after public consultation, in time for the next TYNDP phases. This is further covered in agenda Topic 15.

The Head of Section lists the open calls for TSO experts that were recently circulated to SDC members on various projects. He also highlights that all TSO data correspondents recently received a data collection request for the ERAA2022. All Committee members are asked to check with their data correspondents that this request is well received, and response can be given in due time. In case of questions, expected difficulty with timely delivery or other concerns, TSOs are asked to connect with the Secretariat as soon as possible.

3. Corporate project

The Committee Chair informs members on areas for possible changes to the Articles of Association as discussed in the ENTSO-E Corporate project. Apart from procedural aspects for WG Convenor nominations or other mandates, the project also looks into the structure and perimeter of the association. The Vice-Chair notes that implications on EU legal mandates such as TYNDP need to be considered in this respect to ensure they still consider the entire ENTSO-E perimeter.

4. SDC Deliverables 2022

The proposed SDC Deliverables 2022 as presented in the previous Committee meeting by the SDC Quality Manager were further updated by all working bodies and additionally reviewed by the SDC Programme Manager.

All Deliverables provide good information to members on key expectations for 2022. The SDC Programme Manager suggests to further review the approach for 2023 to avoid confusion between the Deliverables and the PIDs of larger projects.

DECISION

The SDC:

- approves the SDC Deliverables 2022, which provide an informative overview of all SDC projects and WG plans for 2022.
- a takes note that for the main SDC projects the PIDs are the binding commitments.

5. European policy update

The Secretariat provides an update on the state of play of legislative discussions, including especially the TEN-E review, and highlights forthcoming legislative proposals on gas and hydrogen market decarbonisation as well as the expected impacts on the TSO community and ENTSO-E.

6. Feedback from Energy Infrastructure Forum, 25 November 2021

On Thursday 25 November 2021, the EC hosted an informal Energy Infrastructure Forum which was set up at short notice. The meeting was a virtual event and intended to make a bridge towards a next real Forum which will probably take place in May 2022. The Forum covered three main technical sessions:

- Session 1: Energy system integration and interlinkages.
- Session 2: Towards joint gas and electricity cooperation and planning at distribution and transmission level (follow-up to 2020 Forum conclusions).
- Session 3: Coordinated onshore and offshore infrastructure planning, including an exploratory discussion on cost and benefits sharing for offshore grids

Contributions were prepared by the WG SDS in SDC with contributions from mainly RDIC and StG T&DI for session 1 and 2. The messages on offshore for session 3 take value from work across all committees via the ODCG. The SDC Chair, Vice-Chair, WG SDS Convenor, ODCG lead and Head of Section report on main EIF discussions.

The SDC Chair takes the opportunity to inform the Committee that ENTSO-E participated also in the Electricity Coordination Group meeting on that same day to present the ERAA2021 and Winter Outlook.

7. RGs activities (beyond TYNDP 2022)

RG NS

The member of CREOS (replacing the RG NS Convenor) informs the Committee on relevant developments including that of the North Sea Energy Cooperation working groups and the Pentilateral Forum's work on adequacy.

RG BALTIC SEA

The RG BS Convenor informs the Committee of ongoing work to support the TYNDP and review ENTSO-E's recent offshore papers. The RG also prepared the "Nordic and Baltic Sea Winter Power Balance 2021-22" which was published on the same day as the ENTSO-E Winter Outlook.

RG CSW

The RG CSW Convenor informs on progress of the RTE-REE study on interconnection, based on TYNDP data, which is to be finished early 2022 and feeding into next TYNDP.

RG CSE

The RG CSE Convenor informs the Committee on progress to prepare a table of content for the next Regional Investment Plan. The first cycle of the SECI project is planned to be included in this Regional Investment Plan as a dedicated chapter. The second SECI cycle also started.

RG CCS

The RG CCS Convenor informs the Committee that work in the RG mainly focuses on TYNDP2022 contributions. Coordinated planning activities for potential corridors are explored.

RG CCE

The RG CCE Convenor asks the Committee to come back to an earlier discussion and reconsider developing a long-term pan-European or regional grid model. Earlier discussion in SDC resulted in questions on need, effort and guaranteed quality. The Vice-Chair notes that the need is evident if long-term grid studies are triggered by the TYNDP IoSN outcomes, and thus necessitate the development of such long-term grid models in ENTSO-E/RG context.

The Chair proposes to set up a cross-RG workshop, coordinated by the Programme Management, to exchange best practices and further explore the option of long-term collection, merging and validation of grid models.

8. WG Asset Implementation Management

8.1 Update of Terms of Reference

The WG AIM Convenor presents the three workstreams of the WG. Especially for the workstream 2 on infrastructure project management, new members are sought. A call for TSO experts will be launched. At the same time also reconfirmation of all members of the WG will be asked. The Terms of Reference have been slightly updated. The Vice-Chair asks to provide more information on the work in the different workstreams when a call for new members is launched.

DECISION

The SDC:

- approves the updated Terms of Reference for WG AIM.
- encourages members to consider a nomination for Workstream 2 lead on environment, public acceptance and infrastructure project management.

8.2 Technologies report on the Use of Drones for Asset Management

The WG AIM Convenor and a member of Workstream1 Technologies present a report on the Use of Drones for Asset Management. The aim of the report is to give ENTSO-E members the information they need to make decisions on the introduction or further development of the use of drones in their grid. The report builds on insights from an internal survey. Committee members are invited to comment on the draft report which will be finalized and disseminated early next year.

9. StG Connection Network Codes

9.1. StG CNC membership: Election of the Convenor of StG, Appointment of a new StG CNC member

The Chair and Committee members warmly thank the outgoing StG CNC Convenor for his tremendous effort in the past decade. The StG Convenor reflects on all joint achievements and fruitful collaborations since 2009.

The Committee is asked to confirm the nomination of an expert from TenneT TSO BV as new Convenor for the StG CNC, who already has valuable experience as StG member.

The StG CNC was also informed recently that the Convenor of the Implementation Monitoring Team (IMT), will not pursue a second mandate. He asks to be able to continue supporting the StG from the position of a regular member nominated by Amprion. The SDC is asked to approve his membership and start of his new role from 1 January 2022.

DECISION

The SDC:

- approves the nomination of the new StG CNC Convenor, from TenneT TSO GmbH, starting the mandate from 1 January 2022 and for a period of two years.
- approves the nomination from Amprion for a new member of the StG CNC.
- takes note the nomination by TenneT TSO GmbH and TenneT TSO BV of a candidate for the position of Convenor of the Steering Group Connection Network Codes (StG CNC). The candidate is a member of the StG CNC and leader of the Technical Guidance Team (TGT).
- takes note that a further position in StG CNC to be nominated by the SDC remains vacant

9.2. Call for nominations (IMT leader and TGT leader)

Following the change in the StG CNC leadership and membership, and in line with the StG CNC Terms of Reference, new leaders for the Implementation Monitoring Team (IMT) and Technical Guidance Team (TGT) are to be appointed. Also, one additional StG member position remains vacant.

DECISION

The SDC:

- takes note of the call for nomination for IMT and TGT Leader within the StG CNC.

9.3. Approval of the 2021 CNC Implementation Monitoring report

The StG CNC submits the third edition of the Monitoring Report on Connection Network Codes Implementation according to Article 59.1 (NC RfG), Article 57.1 (NC DC) and Article 76.1 (NC HVDC). Even with the removal of this legal requirement with the entry into force of the CEP, ENTSO-E committed on own initiative to continue the annual monitoring of the CNC implementation to increase further the level of cooperation and transparency. This report, which is a collection of facts from a NCLP survey, offers an extensive overview of Operational Notification Procedures (ONP) as implemented by Member States for each Connection Network Code. The report reveals divergences in national implementation but refrains from any corresponding assessments as it was case for the former legal mandate as well.

Upon approval, the report will be publicly available and communicated to the next Grid Connection European Stakeholder Committee meeting on 07 December 2021.

One member abstains from the vote. There are no further comments.

DECISION

The SDC:

- approves the third edition of the „Monitoring Report on Connection Network Codes Implementation“.

9.4. Approval of the remaining cluster 1 CNC amendment proposals

The StG CNC Convenor informs the Committee that the last additions to the first cluster of CNC amendment proposals are submitted for SDC approval in line with the established ENTSO-E process, after the earlier SDC approval of the main part that took place in October 2021. This submission, as foreseen in October 2021, includes the lately concluded amendment proposals for each CNC Regulation together with their justification. Among the proposals, the topics addressed are storage, considering the work of the GC ESC Expert Group Storage, LFSM-O and power quality requirements. New/additional proposals will be considered for end of Q2 2022 (2nd cluster). The amendment proposals are split in two clusters to facilitate the internal approval process and give the opportunity to open early discussions with ACER and EC, while also providing needed time for further discussions and improvements in certain topics. NCCIP remains informed for all developments in line with internal processes. One comment is made during the meeting which will be further looked into when preparing the remaining amendment proposals in 2022.

DECISION

The SDC:

- approves the last additions to be included in the 1st cluster of CNC amendment proposals:
 - RfG NC amendment proposals – December additions to 1st cluster
 - DC NC amendment proposals – December additions to 1st cluster
 - HVDC NC amendment proposals – December additions to 1st cluster.

- takes note that not all comments from the SDC review have yet been fully assessed by the StG CNC. The still outstanding assessments of the comments on the amendment proposals, which were submitted to the SDC for review in June 2021, will be covered by the 2nd cluster of amendments which will be submitted for approval in Q2/2022.

10. WG Data & Models

10.1. TYNDP grid model data collection status

The WG D&M III supports the TYNDP 2022 activities related to the collection and preparation of the grid model. The Secretariat informs the Committee of the timeline for data collection for the TYNDP 2022 NT2030 Reference Grid proxy model in November 2021. A significant number of TSOs had not yet responded to the collection at the time of sending the Session File. On the day of the Committee meeting, some contributions from TSOs were still missing as was shown during the meeting. The WG D&M III requests the support of its SDC members to prioritise this task internally within their TSO and encourages the System Study Correspondents (SSC) to contact the Secretariat in case support is needed to resolve the situation as soon as possible.

11. ERAA 2021

11.1. ACER request for ERAA2021 data inputs

In a letter by the ACER Director sent to ENTSO-E on 23 November 2021, ACER requested ENTSO-E to provide all input data for the ERAA 2021 pursuant to Article 10 of ACER's Rules of Procedure in conjunction with the first subparagraph of Article 3(2) of Regulation (EU) 2019/942. The requested information is considered necessary by ACER to adopt a decision on ERAA 2021, expected in February 2022. The Committee takes note of this request and the subsequent data provision to ACER in line with constructive cooperation, legal requirements and confidentiality obligations.

DECISION

The SDC:

- acknowledges the letter of the ACER Director and proceeds with submitting the full input data for ERAA2021, including unit-based information, to ACER for the purpose of allowing the Agency to review the ERAA in line with legal requirements

12. TYNDP 2022

12.1. Additional member of SG TYNDP

The Committee is asked to validate a nomination by Amprion for a new member of the TYNDP 2022 Steering Group.

DECISION

The SDC:

- approves the nomination received from Amprion as member of the TYNDP 2022 Steering Group.

12.2. TYNDP 2022: Draft project portfolio

The Secretariat's Long-Term Planning Manager informs the Committee that 143 transmission projects and 23 storage projects submitted to ENTSO-E were found to comply with the TYNDP 2022 Guidance and can be accepted in the draft TYNDP 2022 project portfolio. The promoters of the 7 transmission projects and 3 storage projects that were found not to comply will be notified and will have the possibility to request a review of the SDC decision.

DECISION

The SDC:

- approves the TYNDP 2022 draft project portfolio.
- takes notes that projects found non-compliant at this stage, and are thus not included in TYNDP 2022, have the right to ask for a review of the SDC decision.

12.3. Progress report

The Secretariat's Long-Term Planning Manager presents a status update of the TYNDP 2022 work and its alignment with the project roadmap. The TYNDP Steering Group is looking into various options to ensure the submission of the draft TYNDP 2022 package to ACER for opinion by October 2022, based on a public consultation during July and August.

13. WG System Design Strategy

13.1. Optimal Energy System Planning – new timeline

The Secretariat presents an updated timeline and available resources for the Optimal Energy System Planning work. The activity is now set to start in January 2022.

14. TF Sector Coupling

14.1. Discussion paper: Flexibility from Sector coupling (*incl. feedback from mini-retreat*)

The Convenor for TF SC presents the main findings from the discussion paper Flexibility from Sector Coupling and the proposed next steps. Feedback from the mini-retreat the day before will be assessed and implemented before submission to SDC for approval of the paper next year. The TF asks the SDC for further feedback on the paper until 10 December 2021. Members note that the timing of the product has to be coordinated with other legal mandates (TYNDP mainly) to ensure it conveys the same message on future needs.

14.2. Discussion paper: The Role of Hydrogen in System Integration"

The Convenor for TF SC updates the SDC on the progress of the key messages from the discussion paper *The role of hydrogen in sector integration* (approved by Assembly and published on 26 November). The TF will assess some comments from the Board for the full paper and continue working on it. The TF asks the SDC for further feedback on the draft full paper until 10 December 2021.

15. WG Scenarios Building

15.1 Feedback from consultation

The WBSB Convenor reports on the main feedback of the public consultation on the draft scenario report. The Committee sets a clear and urgent expectation that the final version of the Distributed Energy scenario takes duly into account stakeholder comments that reasonably and with correct motivation asked for a higher electrification rate compared to the draft scenarios. The Committee asks that work on this update progresses without delays to not jeopardise the TYNDP CBA timeline.

16. Offshore Development

16.1. General state of play

The ODCG Convenor informs the Committee of the many activities ongoing on offshore energy system developments, both within ENTSO-E studies, as in external interactions.

16.2. Position Paper #6

Over the last months, the DT6 discussed the key messages and agreed on a high-level set of slides highlighting the critical points with regards to the allocation of roles for the various stages of grid development (Design, Construction, Ownership and Maintenance, Operations). The key messages were approved by the Committees on 16 November 2021 and by the Board on 18 November 2021. The paper to be developed starting from the approved key messages addresses options for the allocation of roles and responsibilities for the stages as mentioned above and assess several options against a set of criteria.

16.3 Debrief from external events (FSR event, EC-WS)

The ODCG Convenor informs on recent events where ENTSO-E and others presented views on offshore development. ODCG, through its Convenor or members, presented ENTSO-E positions, in particular those related to position papers #2, #3, #4 and #5.

17. MED-TSO MoU: Data exchange principles

The Head of Section informs the Committee about the renewal of the Cooperation Agreement between ENTSO-E and Med-TSO which was recently approved by the Assembly. Although the new agreement covers new areas of work beyond SDC, cooperation on TYNDP under the new Cooperation Agreement continues as in recent years. An overview is given of the type of data shared with Med-TSO in recent years under the old agreement. Similar exchanges will still take place on the basis of new data. If new types of requests appear, they will be processed in the first instance by the TYNDP or ERAA Steering Groups. If these new types of requests are considered to involve data with a higher level of confidentiality, the decision will be taken by the Committee. The Cooperation Agreement is supplemented by an NDA. The Committee also takes note of the fact that Med-TSO shares with ENTSO-E data on non-ENTSO-E countries, which makes the cooperation mutually beneficial.

DECISION

The SDC:

- takes note of the new Cooperation Agreement being set up between ENTSO-E and Med-TSO.

- approves the types of data which can be shared with Med-TSO to ensure mutual constructive working relations.
- mandates the ERAA and TYNDP Steering Groups to take decisions on other requests for data sharing within their respective work areas.

18. Any other business

No other topics are discussed.

19. Approval of the Decisions

The SDC Chairman states that all decisions taken during the meeting were either those proposed in the Session File or, if updated, those that were clearly shown and checked on the screen during the meeting.