Final Minutes

100th System Development Committee Meeting

Date & Time: 14 November 2023 from 13.30-17.30h
Date & Time: 15 November 2023 from 09.00-13.00h
Place: Bled Rose Hotel, Cesta svobode 8, Bled, Slovenia

Participants (physical)

Chairman

	Amprion	Germany

Vice Chairman

	RTE	France

Special invitees

1.	ENTSO-E Chair of the Board	France
2.	Chair of the Research, Development and Innovation Committee	Slovenia

Members

1.	50Hertz Transmission	Germany
2.	AS Augstsprieguma tïkls	Latvia
3.	Ceps	Czech Republic
4.	Creos Luxembourg	Luxembourg
5.	Crnogorski elektroprenosni sistem AD	Montenegro
6.	Elering	Estonia
7.	Eles	Slovenia
8.	Elia System Operator	Belgium
9.	Fingrid	Finland
10.	HOPS	Croatia
11.	REE	Spain
12.	RTE	France
13.	Seps	Slovakia
14.	SONI	Northern Ireland
15.	Statnett	Norway
16.	Svenska Kraftnät	Sweden
17.	Swissgrid	Switzerland
18.	TenneT TSO BV	Netherlands

Substitutes

19.	Amprion	Germany
20.	APG	Austria
21.	Eirgrid	Ireland
22.	*Eles*	*Slovenia*
23.	EMS	Serbia
24.	MEPSO	Republic of North Macedonia
25.	OST-Operatori i Sistemit te Transmetimit	Albania
26.	*PSE*	*Poland*
27.	REN	Portugal
28.	TenneT TSO GmbH	Germany
29.	Terna	Italy
30.	TransnetBW	Germany
31.	VUEN	Austria

Conveners StGs and WGs and RGs

1.	StG WG Scenario Building and WG System Design Strategy	Netherlands
2.	StG TYNDP 2024	Spain
3.	WG Assets, Implementation and Management	Slovakia
4.	RG Continental South-East	Serbia
5.	RG Continental Central East	Czech Republic
6.	RG Baltic Sea	Germany
7.	Former Convenor of the DT CBA	Germany

Secretariat

1.	ENTSO-E	

Participants (remote)

Members

32.	Energinet	Denmark
33.	ESO-EAD	Bulgaria
34.	IPTO	Greece
35.	Litgrid	Lithuania
36.	Mavir	Hungary
37.	PSE	Poland
38.	Transmission System Operator-Cyprus	Cyprus

Substitutes

39.	*Mavir*	*Hungary*
40.	Transelectrica	Romania
41.	*Transmission System Operator-Cyprus*	*Cyprus*

Conveners StGs, WGs and RGs

1.	StG ERAA 2023	Austria
2.	Vice-Convenor of PCG	Italy
3.	Offshore Network Development Plan Core Group	Denmark

Special invitees

1.	50Hertz *(Winner of the innovative idea)*	Germany

Excused

39.	Landsnet	Iceland
40.	NOSBiH	Bosnia&Herzegovina

Tuesday, 14 November 2023

1.   Attendance, quorum and approval of draft Agenda

The Chair of the Committee welcomed all Committee members, as well as the Chairman of the Board and the Chair of the Research, Development & Innovation Committee for their participation. He particularly thanked ELES for organising the 100th SDC meeting.

The meeting was quorate. The agenda was endorsed without further updates.

DECISION
37 out of 39 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.   Welcome by the RDIC Chair

After warmly welcoming the Committee to Slovenia, the Chair of the Research, Development and Innovation presented an overview of work in which Innovation and System Development interact. In particular, he mentioned the preparations for the Flexibility Needs assessment, the Digitalisation of Energy Systems Action Plan, and the INTER-TSO Controllability innovation project. He also highlighted the RDIC's recent position paper on heavy duty electric vehicles which could be useful in developing the TYNDP Scenario Building.

3.   Report from Board Strategy Workshop and Board meeting, 4-5 October 2023, and Assembly meeting 26 October 2023
    3.1.   Outcome

The SDC Chair highlighted some of the topics discussed at recent Board and Assembly meetings, including the 2024 budget approval, Expert Groups on TSO/DSO and Grid Infrastructure, and the new role of the Board members' referents for North-East and South-East issues.

    3.2.   Strategic Roadmap

The Chair of the Board presented the principles, pillars and building blocks of the upcoming renewed ENTSO-E Strategy. Initial developments were discussed with the Committee Chairs and Board members. A full

proposal will shortly be submitted to the Board and Assembly for approval. The strategy focuses on key output areas, and he highlighted the enablers (e.g. expert resources) to achieve them.

4. Reflection on 100 SDC meetings

As the Committee commemorates its 100th formal meeting, the Chair, several members, external stakeholders (via video recorded message), product Convenors, the RG Convenors, the Head of Section and the Vice-Chair shared their own perspective on past, present and future journeys.

5. SDC Planning Programme
5.1. SDC Dashboard: Progress on products and resources

The SDC Programme Manager presented the situation of various workstreams. Especially commitment in the TYNDP Study Team needs attention; the team will monitor active engagement more closely.

The Head of Section highlighted that outsourcing of selected activities need to be pursued more proactively for the coming years.

5.2 Draft Programme Management ToRs

The SDC Programme Manager and the Secretariat SD Programme Manager presented the main principles of the new Terms of Reference for the group. The Committee members stressed that the sharing of responsibilities on innovations needed to be reworded to clarify that the aim of Programme Management aims to identify the consequences of innovations in one project for other projects, and not to block the implementation of new approaches decided by a given Steering Group.

6. SDC meetings 2024
6.1. Dates and locations

The Chair presented an updated proposal for the 2024 meeting dates, following consultation of an initial proposal with members.

DECISION
The SDC: ➢   approves the Committee meeting dates for 2024.

7. Report from the SDC Conference 2023
7.1. Outcome

The Head of Section highlighted the good momentum of the SDC Conference on 17 October 2023, held back-to-back with the first meeting of the Forum of Correspondents.

7.2. Presentation of the innovative idea "Cloud-Based Collaborative Data Handling and Market Modelling"

The SDC Conference invited several study team experts to bring forward proposals for improving internal processes. **Participants voted for the 50Hertz experts' proposal** as the one to be pursued with the highest priority. The experts from 50Hertz were given the opportunity to present their idea to the Committee including a live demo. Further review of the idea can be carried out through the StG Data & Models. All participants of the SDC Conference are thanked for sharing their ideas.

8. European policy update

The PCG Vice Chair gave an update on among others the Net Zero Industrial Act, Electricity Market Design Reform, gas/hydrogen package.

9. Offshore Network Development Plans 2024
9.1 Provision of draft reports to EC

The Convenor of the ONDP Central Group presented the status of the Offshore Network Development Plans and informs the Committee on early engagement with the the European Commission. The EC review will run in parallel with the SDC's review of the draft ONDP package.

9.2 Outcome of the StG TYNDP review and Visualization tool

The review phase by the TYNDP StG did not reveal any major issues. The Secretariat's Programme Management team is working on a visualization tool to accompany the publication of the ONDP. The Convenor reported on progress of the project team on cost sharing which was communicated to the Market Committee.

DECISION
The SDC: ➤ takes note of the progress report on the ONDPs.

10. Scenario Building 2024
10.1. Progress report, including proposal for internal and external consultation

The TYNDP Scenarios Project Manager informed on the latest timeline and the proposed approach for capturing the stakeholder's views and finalizing the scenarios report for submission to ACER, EC and Member States.

DECISION
The SDC: ➤ approves the approach of a targeted external consultation on the final TYNDP2024 scenarios, recognising the already conducted input data consultation, the challenging timeline and impacts on the rest of the TYNDP process.

10.2. Final Input Parameters, version post-consultation

The TYNDP Scenarios Project Manager informed how the data inputs for the DE and GA scenarios were updated. Stable data sets are needed now to allow for all model runs and timely delivery.

DECISION
The SDC: ➢ approves the final input datasets for the DE and GA scenarios. ➢ acknowledges that further major input data updates are not possible in this scenario cycle as to not jeopardise the timing of the rest of the overall TYNDP timeline.

11. TYNDP 2024

11.1 Progress report

The TYNDP StG Convenor gave an overview of the TYNDP 2024 applicants and the next steps on checks of all promoter files.

11.2. Project Submission overview - dNTC review

The TYNDP Project Manager stressed the importance of the dNTC information to be provided as part of a TYNDP application.

11.3. DT CBA next steps and convenorship

The Chair thanked the former DT CBA Convenor, who joined the Committee meeting, for his commitment and success over the past 7 years. The Secretariat's Long Term Planning Manager informed the Committee that the call for applicants had failed to find a new candidate to take over the role. Options were discussed for the future work of the team itself. One member abstained from the decision.

DECISION
The SDC: ➢ confirms the need for the continuation of the work currently under the responsibility of the DT CBA. ➢ reaffirms the DT CBA as the appropriate body to carry out those tasks. ➢ reaffirms its commitment to provide appropriate resources to the DT CBA.

11.4. ENTSO-E StG TF Interlinked Model membership

The Secretariat's Long Term Planning Manager informed the Committee that no candidates had come forward to reinforce the ILM Steering Group. Options were discussed for how to place the work activities in the SDC.

DECISION
The SDC: ➢ SDC takes note of the relevance of the ILM workstream and the implications of having no ENTSO-E involvement.

11.5. Call for TST sub-team Leader

The Chair and the Long-Term Planning Manager stressed the need for a dedicated person to take on the role of lead of the TST operational sub-team, given that the TYNDP work is entering a critical period. The Committee discussed alternative options, ranging from outsourcing to insourcing more roles within the Secretariat.

DECISION
The SDC: ➢ acknowledges the risk for the TYNDP 2024 process due to lacking TST commitments from TSOs.

12. View from other Committees
12.1. SOC activities

The topic is rescheduled to the next Committee meeting in January 2024.

13. EG Grid Infrastructure
13.1. Initiation and first actions

The Chair of the Board presented the expected timeline of the upcoming EU Grid Action Plan, and the ENTSO-E recommendations shared recently with the EC.

A dedicated ENTSO-E Expert Group reporting to the Board is set-up to develop own actions and ensure cross-Committee coordination on the relevant work areas.

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Wednesday, 15 November 2023

1.   Review attendance, quorum

The Committee Chair thanked again ELES for the organisation of this meeting and for an excellent evening event the day before.

The meeting is quorate.

DECISION
37 out of 39 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.   ERAA 2023
    2.1.   Initial results and next steps

The Adequacy Manager gave the main updates from the recent EVA and ED runs. Complications had been experienced in recent days with the model, preventing a full set of results from being ready for discussion with the Committee. The StG Convenor thanked all the TSO and Secretariat modeling experts involved.

The Committee members discussed the options and acknowledged the need for a pragmatic and acceptable solution. The StG Convenor informed that the StG would analyse the progress of the simulation in the coming days and propose an approach for the report. The study teams are currently processing two simulation streams with different climatic year weights. The Chair also reiterated that it is essential that the ERAA report needs to be delivered on time (i.e. before the end of the year) to ACER.
One member abstained from the decision.

DECISION
The SDC: ➢ takes note of the provisional ERAA 2023 results.

3.   ERAA 2024
    3.1.   Project Initiation Document

The Adequacy Manager presented the PID, defining ERAA 2024 scope and priorities. The PID follows the StG recommendations and builds on numerous expert level iterations with EC and ACER in the recent months.

ENTSO-E considers the ERAA 2023 as a strong basis for future editions, and the ERAA 2024 would consolidate its predecessor, with targeted improvements for increased robustness. ERAA 2024 will focus on 4 target years (2026, 2028, 2030, 2035).

Beyond the scenario as performed in ERAA 2023 (no CM, except existing and contracted CMs), a possible additional scenario sensitivity ("what-if scenario") is investigated. In a recent TSO survey, several possible scenario sensitivities were suggested (e.g. focusing on demand, cross border capacity, approved but not yet

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contracted CM). Those outcomes will be used as input for further discussions with ACER, EC and the Electricity Coordination Group.

Regarding EVA, the PID puts forward a parallel stream on an EVA revenue maximization iterative analysis, while securing the EVA approach of ERAA 2023 to be replicated with targeted improvements. The Adequacy Manager reported on the TSOs expert commitment for next year. He stressed a remaining gap between the PID and commitment, even if this gap has been reduced compared to last edition.

DECISION
The SDC: ➢ The SDC approves the Project Initiation Document of ERAA 2024.   ➢ takes note of the remaining gap between the present TSO commitment in the MST and the PID needs, considering the committed multiple tools.

4. Seasonal Outlook 2023
4.1. Winter Outlook publication

The StG Seasonal Outlook Convenor presented the Winter Outlook outcome. The adequacy situation has improved considerably compared with the previous winter. Publication of the report is scheduled for 16 November 2023, together with a webinar for stakeholders. The SDC Chair thanked the Seasonal Outlook team for the intense work and for publishing the report before the official deadline of 1 December 2023.

5. Data & Models
5.1. Dashboard

The System Modelling Manager highlighted the success of the recent Forum of Correspondents and thanked all members and Data Correspondents for their support. High-level conclusions will be shared in the coming days.

Another important development is that the TYNDP reference grid model is almost ready. It converges in PowerFactory. Confirmation of the Convergence and PSSE tools is expected in the next few days. The end of December is currently the target for INTEGRAL.

The ET Data Quality needs a Convener and members to be up to the ambition of increasing dataset quality, especially for the upcoming ERAA data collection.

DECISION
The SDC: ➢ takes note of the StG Data & Models Dashboard updates.

5.2. PECDv4.1 methodology

The Secretariat presented the main features and recent discussions on the new PECD. The Committee discussed the permission to re-run DFT using PECD3.1 data as possible fallback solution without bilateral

consultations. Such action -if necessary- is considered the responsibility of the relevant Steering Group (TYNDP, ERAA, Seasonal Outlook), with the assumption that appropriate action can be taken without delay.

DECISION
The SDC: ➢ approves the PECD4 methodology, acknowledges the data delivery and supports the adoption in future studies.

5.3. ERAA 2024 Data Collection update (incl. PEMMDB app demo)

The System Modelling Manager presented progress on the PEMMDB App development, which is planned for use in next ERAA 2024 data collections. The Committee acknowledged the need for Data Correspondents (LACs) to have the necessary time to participate in training sessions organized by the StG D&M.

The RG CSE Convenor highlighted that also regional experts can be of value to train regional colleagues. The Secretariat gave a live demo on the features and ease-of-use of the new App.

DECISION
The SDC: ➢ takes note of the PEMMDB App launch preparations.

5.4. Grid Model requests

The decision was approved without discussion.

DECISION
The SDC: ➢ approves the disclosure of the requested grid model dataset (STUM) to the requesting party.

6. WG Asset Implementation & Management
6.1. Progress report and next steps

The WG AIM Convenor presented the recent internal webinar regarding asset management techniques.

7. Updated ENTSO-E Articles of Association and Internal Regulation
7.1. Main updates related to Committee work

The Secretariat's Legal Counsel briefed the Committee on the updated Articles of Association approved by the Assembly on 27 September 2023, emphasizing the role of the Committees in technical position papers and cross-Committee work.

8. StG Connection Network Codes
8.1. StG CNC Convenor next mandate

The Secretariat informed that the first term of the current Convenor of the StG CNC will terminate on 1 January 2024. A call for candidates for a new Convenor will be launched by the Secretariat. The election process will take place in the next meeting in January 2024. He mentioned that TenneT TSO GmbH and the current Convenor have expressed the commitment and interest for another term.

9. WG System Design and Strategy
9.1 Election of WG SDS Convenor for a 2nd term

The Chair noted that only one application was received for the next term of the WG SDS Convenor, from the current Convenor of TenneT NL. He thanked the Convenor for his continued commitment. The Committee endorsed the nomination.

DECISION
The SDC: ➢ confirms the present Convenor of the Working Group System Design Strategy (WG SDS) for another two-year term starting on 16 November 2023.

10. Expert Group TSO-DSO
10.1. Cooperation and appointment of SDC representative

The Chair introduced the new Expert Group TSO-DSO. The group seeks a representative from each Committee. A member of the TYNDP StG is endorsed for this role.

DECISION
The SDC: ➢ appoints the designated member of the TYNDP 2024 StG as the main representative of the SDC in the Expert Group TSO-DSO and mandates her to fulfil, on behalf of the SDC, all duties of the TSO-DSO Expert Group member as defined in the ToR of the Expert Group TSO-DSO.

11. SECI Transmission System Planning
11.1 Terms of Reference for the next cycle of SECI TSP initiative

The member of MEPSO who SECI project manager presented the new Terms of Reference. The Committee noted that it should be investigated if the project could make use of the new PEMMDB App. An important benefit of this work for the region is that the output could be used as basis for dynamic studies. The project is self-sustaining budget-wise, financed by the involved TSOs via an MLA. The supplier is expected to provide the completed network model but not the scripts.

DECISION

The SDC:
- ➢ approves the updated Terms of Reference (ToR) for the second cycle of SECI TSP project (for year 2024).
- ➢ approves the updated Terms of Reference (ToR) for Task 3 of the second cycle of the SECI TSP project.
- ➢ approves the updated Terms of Reference (ToR) for Task 4 of the second cycle of the SECI TSP project.

12.   National updates
12.1   EirGrid and SONI Strategy Report for 2030 "Shaping our Electricity Future v1.1"

The Committee members from Eirgrid and Soni presented their recent study on how to meet 2030 sectorial targets for electricity.

13.   Any Other Business

No other topics were raised.

14.   Approval of the Decisions

The decisions as shown during the meeting were considered approved.