

73rd System Development Committee Meeting

Date: 15 September 2020

Time: 09.00 – 13.30h

Place: Web-conference:

Participants

Chairman

	RTE	France
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Vice Chairman

	Amprion	Germany
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Members

1.	50Hertz Transmission	Germany
2.	Amprion	Germany
3.	Ceps	Czech Republic
4.	Creos Luxembourg	Luxembourg
5.	Eirgrid	Ireland
6.	Elering	Estonia
7.	Eles	Slovenia
8.	Elia System Operator	Belgium
9.	Energinet.dk	Denmark
10.	Fingrid	Finland
11.	HOPS	Croatia
12.	Landsnet	Iceland
13.	Mavir	Hungary
14.	MEPSO	Republic of North Macedonia
15.	REN	Portugal
16.	RTE	France
17.	Statnett	Norway
18.	Svenska Kraftnät	Sweden
19.	Swissgrid	Switzerland
20.	TenneT TSO BV	Netherlands
21.	Terna	Italy
22.	Transelectrica	Romania
23.	TransnetBW	Germany

Subsities

24.	APG	Austria
25.	AS Augstsprieguma tīkls	Latvia
26.	IPTO	Greece
27.	Litgrid	Lithuania
28.	National Grid ESO	United Kingdom
29.	PSE	Poland
30.	REE	Spain
31.	Seps	Slovakia
32.	SONI	United Kingdom
33.	TenneT TSO GmbH	Netherlands
34.	Transmission System Operator-Cyprus	Cyprus
35.	VUEN	Austria

Conveners RGs

1.	RG North Sea	Denmark
2.	RG Baltic Sea	Germany
3.	<i>RG Continental South East, excused</i>	<i>Serbia</i>
4.	RG Continental Central East	Slovakia
5.	RG Continental Central South	Italy
6.	RG Continental South West	Portugal

Conveners WGs and SGs

1.	WG System Design Strategy	Germany
2.	WG Data & Models	Italy
3.	StG Connection Network Codes	Belgium
4.	WG Asset & Implementation Management	Spain
5.	TF TEN-E	Germany

Excused

1.	CGES	Montenegro
2.	ESO-EAD	Bulgaria
3.	JSC EMS	Serbia
4.	NOS BiH	Bosnia&Herzegovina
5.	OST-Operatori i Sistemit te Transmetimit	Albania
6.	Scottish Hydro Electric Transmission	United Kingdom

Secretariat

1.	ENTSO-E	
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The SDC Chair welcomes all participants to the 73rd SDC meeting via teleconference. The SDC Chair confirms that participants can formally cast their vote via teleconference on decisions proposed during the meeting.

1. Attendance, quorum and approval of draft Agenda

Take note	
➤	Since 35/41 of the TSOs represented in the System Development Committee are attending, the Chairman states that the Committee meeting reaches the necessary quorum of half its members.

2. SDC Project Dashboard pilot

SDC Dashboard has been streamlined to give better focused and readable overview. Details will be dealt with in the special agenda items.

There is lack of TSO contributions in TYNDP2020, Adequacy, Data and in particular Network Codes. Content and Quality are at risk for Scenario Building and Adequacy. Reason for concern in Adequacy is in particular the role of balancing reserves in resource adequacy. This flag is changed to red now.

3. SDC Strategy Seminar 2020

Because the Covid-19 is still very active in many European countries, and many TSOs and the Secretariat still enforce a travelling ban, WG SDS proposes to cancel the SDC Strategy Seminar initially foreseen on 26 October 2020 and proposes that a physical strategy seminar takes place in spring 2021 provided all necessary measures are planned for this to take place safely. Hybrid meeting set-up will be ensured in case individual country travel ban persist.

In addition, SDC members are asked to keep this date of 26 October and reserve in their calendars that will be used to organize a workshop on TYNDP2022.

Decisions	
Approval	Purpose/Notes
<ul style="list-style-type: none"> ➤ The SDC agrees to cancel the 2nd part of the SDC Strategy Seminar 2020, initially planned to take place on 26 October 2020. ➤ The SDC agrees that a physical SDC Strategy Seminar will be organized in spring 2021 taking into account the COVID 19 situation. ➤ SDC members are asked to reserve this date for an ad-hoc seminar on TYNDP2022. 	<ul style="list-style-type: none"> ➤ Secretariat
Take note	
<ul style="list-style-type: none"> ➤ The SDC takes note of this new proposal presented by the Vice-Chair. 	

4. Data & Models

4.1. Election Convenorship WG Data & Models

The SDC approves Timothy Duffy from the Secretariat as the interim Convenor for the WG Data & Models. Consistent with the interim nature of this appointment, the decision is amended to require that there would

be a renewed call for a TSO Convenor in September 2021. It is noted that active and strong support from the TSO conveners of the WG subgroups and Task Forces would now be even more critical to the WG’s success.

Decisions	
Approval	Purpose/notes
<ul style="list-style-type: none"> ➤ The SDC unanimously nominates Timothy Duffy as Convenor per interim of WG Data & Models (WG D&M) starting from 15 September 2020. 	<ul style="list-style-type: none"> ➤
Take note	
<ul style="list-style-type: none"> ➤ The SDC takes note of the work covered by WG D&M and recognizes the need for the WG to be maintained with a designated Convenor. 	

4.2. Demand Forecasting Methodology PID (*Decision mode A*)

The migration of TRAPUNTA tool to web-application would be postponed and TF would focus its effort on the development of a upgraded version of the tool able to comply with the technical requirements of the ERAA methodology and the general need of ENTSO-E and its members to rely on a common tool for all studies.

This proposal is covered by actual budget proposal under Board and Assembly consideration. Members are invited to send participants into the TF in order to ensure that the tool will satisfy their needs.

The motion passed with limited comment. It was noted that effort is needed to leverage the prior investment in the TRAPUNTA tool but also consider how best to integrate more advanced modeling techniques. It is also stated in the discussion that the objective would be to expand the capabilities of the current tool to address the varied demand forecasting needs of the TSO community within a single tool. The WG Data & Models and the DFM TF are encouraged to consider how best to enhance coordination and communication with all TSOs through the demand forecast development process so as to limit issues being raised following the start of studies.

Decisions	
Approval	Purpose/notes
<ul style="list-style-type: none"> ➤ The SDC approves the Demand Forecasting Methodology PID. ➤ The SDC approves the new name of TF “TRAPUNTA” changed into TF “Demand Forecasting Methodology”. 	
Take note	
<ul style="list-style-type: none"> ➤ The SDC takes note of the proposed amendment for the PID. 	

4.3 PECD Evolution-Climate Change PID (*Decision mode A*)

The Pan European Climate Database (PECD) requires revision to account for climate change. First, to enhance national and pan-European study quality; second boost stakeholders’ trust. This enhancement is covered by current budget 2021 proposal. Focus of PID is on climate data and not subsequent technology-dependent energy data. It is noted that this project would be critical to meet the requirements of ACER to account for climate change in the ERAA studies and to preclude ACER from shortening the time-horizon of historic climate data used for such adequacy studies. The PID is approved with the condition that the PID be amended to

include specifics as to the deliverables in order to ensure proper transfer of these deliverables to the WG Scenario Building and other clients.

Decisions	
Approval	Purpose/notes
➤ The SDC approves the PECD Evolution Climate Change PID.	
Take note	
➤ The SDC takes note of the ongoing activities concerning the short-term interim solution taking into account climate change corresponding to ACER’s request	

4.4 Third-Party Data Release to DG Energy

As per 70th SDC meeting of 5 March 2020, the SDC requested the WG Data & Models to organize a legal assessment of the data request by Artelys for the project METIS and gives delegation to the SDC Chair and Vice-Chair to take decision based on Legal Regulatory Group recommendations and inform the SDC Members appropriately.

The Committee is noticed for informational purposes that there would be a request individually circulated to each TSO for approval to release certain transmission network data to the DG ENER. This action is directed by the LRG, based on its review of the DG ENER’s data request and ENTSOE’s current guidelines on data releases to third-parties. Based on this feedback, SDC will take a decision on the DG ENER’s request at its November 2020 meeting.

4.5 Third- Party ENTSO-E dataset 2020 publication

To satisfy growing stakeholder expectations for transparency on grid and market data, ENTSO-E aims to have a systematized approach towards the availability of fit-for-purpose quality data to third parties.

The ENTSO-E dataset will be published on ENTSO-E site, along with description of the model in the specification document.

The Committee is noticed for informational purposes that the 2020 TYNDP ENTSO-E network model is currently being finalized and will be set for release in early October, pending formal SDC approval. Requestors would be required to submit requests online, and subject to verification and an NDA, the model could be downloaded from the ENTSO-E site.

4.6 WG DM III Interoperability testing post TYNDP results

In the effort of continuous improvement of ENTSO-E modelling activities, an evaluation of the models delivered in 2020 is performed by the WG DM III. Analysis of the methodology for the data collections is performed and issues in the CGMES standard collected in real planning models are recorded. Power system analysis software vendors are invited to participate in order to be aware of the tool level compatibility regarding CGMES in real data models. The IOPs will be held remotely this year due to the Covid-19 situation, a total of 16 hours are scheduled in different sessions.

The Committee is noticed for informational purposes that the I/O testing for network modelling tools is scheduled in October with members and vendors. The testing will be conducted in a series of teleconferences held the 2nd and 4th weeks of October.

5. Connection Network Code (CNC)

5.1. CNC amendments updates

- Amendment priorities after feedback from SDC

StG CNC collected the feedback that has been shared by SDC members. Overall, the priority list has been supported and no major changes were proposed. Amended versions should tackle as much as possible the challenges that have emerged during the national implementation, enhance the harmonization and ensure coordination with other NC/GLs. It is particularly stressed during the meeting that prior endorsement by the NCCIP and approval by the ENTSO-E Board should precede any action implying ENTSO-E being formally engaged into the amendment process of the Codes.

- Cross-committee coordination with SOC

Discussions with the dedicated groups under SOC have been ongoing. Five dedicated ad-hoc groups have been composed by both SDC and SOC experts assessing the CNC proposals with cross-code impact. Results are expected to be assessed during Q4 2020.

5.2. Preparation of CNC Implementation Monitoring Report 2020

The development of the second edition of the Implementation Monitoring Report is proceeding as scheduled, with no major risks threatening its publication in due time (end of 2020). Small data shortcoming that could impact its final quality have been identified and there is still time till the end of September to collect them. Final draft is expected to be approved by StG CNC in October and submitted to SDC meeting in November.

5.3. New GC ESC Expert Groups

In June 2020, three new Expert Groups has been officially launched:

- Expert Group on Baseline for type-A power generating module (EG BftA) – chaired by DSOs
- Expert Group on Criteria for significant modernisation (EG CSM) – chaired by DSOs
- Expert Group on Interaction Studies and Simulation Models for PGM/HVDC (EG ISSM) – chaired by ENTSO-E

The work of these EGs is expected to be completed by Q1 2021, concluding to amendment proposals and/or recommendations for Implementation guidance documents.

6. Asset Implementation and Management

6.1. Election Convenorship WG AIM

Decision	
Approval	Purpose/notes
➤ The SDC unanimously elects Jorge Valero as Convenor of WG Asset & Implementation Management (WG AIM) for a second mandate till 15 September 2022.	➤
Take note	

- The SDC takes note of the application from Jorge Valero, current Convenor of WG Asset & Implementation Management (WG AIM).

6.2. Maintenance and Renovation Strategy - First progress report WG AIM WS 3

The document presented in the Session File is a first progress report of WG AIM (Asset and Implementation Management) WS3 (Maintenance and Renovation Strategy). This Work Stream aims to support the TSOs in ENTSO-E in developing their maintenance and renovation strategies. The need for such support and cooperation was identified during the work and reports about Strategic Asset Management Tools of WG AIM in the past years.

6.3 Internal workshop on “Public acceptance of OHL”, end September, October 2020

Many approaches are done by TSO to raise acceptance of (new) overhead lines all over Europe. Besides adaptations in the planning phase by choosing tailored solutions with conventional technologies, several TSO install OHL with a new tower design.

An exchange within ENTSO-E is therefore useful to have a knowledge sharing to improve and accelerate the project realization by approaches for raising public acceptance. The focus is on European projects in the 220/400 kV transmission grid. The title of this workshop will include „for knowledge sharing“.

6.4 Common points between SDC WG AIM & RDIC WG1/WG5

WG AIM is working on asset implementation and management issues, identifying risks associated with new technologies while RDIC WG1/WG5 are working on the R&D concepts, methods and technologies for the future asset and technologies.

Whereas all three WGs are working on similar activities related with asset and technologies, cooperation and exchange of information along with alignment of positions is necessary. Finding the common points to cooperate will also let to mobilize human resources and focus more deeply on particular topics, as the lack of human resources is relevant for all WGs.

7. Offshore development

7.1. ODCG Roadmap 2020

New mandate is needed after having delivered the position papers #1 (published), #2 (to be published in October 2020) and #3 being on its way (to be published early 2021). Response to EC’s consultation is to be submitted by September 24th to the EC, see also 7.2b).

The following new topics are proposed:

- Top 2: Evolutions of TYNDP methodology and governance
- Top 3: Ownership models regarding hybrid systems
- Top 5: Design of on- and offshore system
- Top 6: Evolution of revenues for wind park developers
- Top 7: Role of UK and impact of BREXIT

Top 2 & Top 5 aim at improving internal methods and processes around the TYNDP, also direct linking to the Multi-Sectorial Planning Support (MSPS) Roadmap. Top 3 & Top 6 are more externally oriented topics derived from position paper #2 and are to be investigated together with the market committee.

SDC members require that a better definition of the role of ENTSO-E in the offshore debate is achieved as well as more public visibility to be pursued. Top 2 seems to have priority. Also, the internal organization should observe the convergence between sector coupling and offshore for more efficiency. The SDC Chair and Vice Chair will consult the relevant conveners to propose – if necessary – adjustments.

EC's Offshore strategy is expected by 14 October, thus papers #1 and #2 are timely deliveries contributing to the public debate.

- 7.2. Outcome of the mini-retreat on Effects of Offshore development on ENTSO-E work - first bites
 - a) TYNDP22+ innovations triggered by offshore development
 - b) ENTSO-E response to EC's offshore RES consultation

Ad a)

Offshore development with huge new RES volumes needs to be reflected in future TYNDP processes. Recent IoSN publications state that e.g. hybrid projects (linking interconnectors and wind farms' connection to shore) need to be integrated in TYNDP planning including scenarios, IoSN and CBA. In current IoSN2020 hybrid projects are not well represented yet, as not part being of the TYNDP task. Implications on the IoSN process and CBA methodology were discussed. The PROMOTION project investigated several general concepts and could serve as a reference. Future TYNDPs will continue with a holistic approach across time and space (on- and offshore) in one consistent report. As the expected amounts of offshore RES will also serve and feed other sectors, the Multi-Sectorial Planning Support (MSPS) concept provides a strong link to proceed.

Ad b)

The ENTSO-E response was elaborated with the contributions of three Committees. Responses were as much as possible based and made consistent with other ENTSO-E publications, including the offshore position papers, the TEN-E position paper and the MSPS. Most important messages include 1/ one system view and 2/ consistent planning for the offshore.

During the cross-committee review period, 4 TSOs proposed changes to the response. The response will be up for cross-committee written approval procedure from 17 September. The EC consultation on offshore strategy closes on 24 September 2020.

- 7.3. ENTSO-E 3rd Position Paper on Offshore Development focusing on interoperability'

The work on the third position paper has started in August in a cross-committee team consisting of SDS and RDIC members. First focus areas have already been identified and will further be elaborated. Additionally, the StG CNC has been consulted and is expected to further contribute to standardization related topics. Approval of the main messages is targeted to end of October and of the draft paper by middle of December.

8. TEN-E Position Paper – state of play

TF TEN-E has developed an Advocacy Paper on TEN-E, currently undergoing Assembly approval and expected to be published by end September. In parallel, the TF is developing an Annex to the paper going more into details on 5 focus areas. The Annex will be submitted to SDC for written approval by end of September.

A strategic workshop - internal to ENTSO-E - will be organised end of October to identify potential issues not covered by the position paper and the annex but which might be addressed by EC proposal for draft regulations.

9. Madrid Forum 14-15 October 2020 and Infrastructure Forum Q4 2020 - state of play

The 34th Madrid Forum is confirmed in a virtual format on 14 and 15 October and the Copenhagen Energy Infrastructure Forum 2020 is expected to take place in Q4 2020 also in a virtual format on a date still to be communicated by the European Commission. The following topics are likely to be on the agenda: First results of the interlinked model screening methodology (jointly with ENTSOG), ENTSO-E's Interlinked model dual assessment methodology, Smart sector integration, TSO-DSO cooperation in scenario building, Offshore Grid Infrastructure, Revision of the TEN-E Regulation.

9.1. Statements from ILM to the Madrid Forum

Potential key messages are presented. The link between ILM and offshore could stronger be stressed and developed. The workshop on TYNDP2022 should pick this topic up.

For 23 September 2020, a written voting of SDC is planned in parallel with ENTSOG Board approval.

10. EC Strategies on Hydrogen and on Energy System Integration

A first analysis of EC's hydrogen strategy published on 8 July is presented.

Some aspects conflict with ENTSO-E's positioning, in particular:

- No locational signal for h2 up to 2025. Later on, it seems to be more linked to system planning
- No comments on operational pattern addressed. This might open the door for greenwashing of "renewable hydrogen" if hydrogen is produced in electrolyzers using electricity stemming from e.g. coal or gas fired power stations

Further development of ENTSO-E's hydrogen strategy will be included in the ToRs of TF Sector Coupling (to be proposed at the next SDC).

11. RGs activities (beyond TYNDP 2020 and 2022)

11.1. Convenorship RG NS, RG CEE and RG BS

RG NS

- Search for new Convenor of RG NS is ongoing since April 2020, without success so far

RG BS

- Michael Heitz, 50Hz is re-elected for another 2-year mandate

RG CCE

- Mandate of Convenor ends on 22 September 2020. CCE members are kindly asked to propose a new Convenor

Options of how to deal with Regional Groups with difficulties to find conveners should be evaluated based on ENTSO-E's AoA.

12. Topics for next mini-retreats in September 2020

Given that the next SDC meeting will be preceded by the TYNDP 2022 strategic seminar, it is suggested that no mini-retreats are scheduled.

13. Any Other Business