

77th System Development Committee Meeting

Amprion

Date: 20 January 2021 Time: 09.00 – 13.00h Place: Web-conference:

Participants

Chairman

RTE	France
	Vice Chairman

Germany

Members		
1.	50Hertz Transmission	Germany
2.	Amprion	Germany
3.	Creos Luxembourg	Luxembourg
4.	Eirgrid	Ireland
5.	Elering	Estonia
6.	Eles	Slovenia
7.	Elia System Operator	Belgium
8.	Energinet.dk	Denmark
9.	Fingrid	Finland
10.	HOPS	Croatia
11.	JSC EMS	Serbia
12.	Mavir	Hungary
13.	MEPSO	Republic of North
		Macedonia
14.	RTE	France
15.	Statnett	Norway
16.	Svenska Kraftnät	Sweden
17.	Swissgrid	Switzerland
18.	TenneT TSO BV	The Netherlands
19.	TransnetBW	Germany

Substitutes

20.	APG	Austria
21.	AS Augstsprieguma tïkls	Latvia
22.	Ceps	Czech Republic
23.	Eles	Slovenia
24.	Elia System Operator	Belgium
25.	IPTO	Greece
26.	Litgrid	Lithuania
27.	Mavir	Hungary



28.	National Grid ESO	United Kingdom
29.	PSE	Poland
30.	REE	Spain
31.	REN	Portugal
32.	TenneT TSO GmbH	Germany
33.	SONI	Ireland
34.	Terna	Italy
35.	Transelectrica	Romania
36.	Transmission System Operator-Cyprus	Cyprus
37.	VUEN	Austria

Conveners RGs

1.	RG North Sea	The 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	Slovakia

Conveners WGs and SGs

1.	WG System Design Strategy	Germany
2.	WG Scenario Building	France
3.	StG Connection Network Codes	Germany
4.	WG AIM	Spain
5.	Offshore Development Core Group (ODCG)	Denmark
6.	TF TEN-E	Germany
7.	TF PECD	France
8.	TF CBA	Germany

Excused

1.	CGES	Montenegro
2.	ESO-EAD	Bulgaria
3.	Landsnet	Iceland
4.	NOS BiH	Bosnia&Herzegovina
5.	OST-Operatori i Sistemit te Transmetimit	Albania
6.	Scottish Hydro Electric Transmission	United Kingdom
7.	Seps	Slovakia

Secretariat

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

The SDC Chair welcomes all participants to this first SDC meeting of the year: 77th SDC meeting via teleconference. The SDC Chair confirms that participants can formally cast their vote via teleconference on decisions proposed during the meeting.

Take note

Since 34/41 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 2021

The SDC Project Dashboard 2021 is available on the SDC Site.

In **TYNDP2022 Study Team** ramp up, there is still a significant gap in experienced PLEXOS and ANTARES modellers for expansion optimization modules. Unless this gap can be closed in the near future, the investment modelling methodology provided by TST to Scenario Building will have to be adapted to match capabilities of ANTARES modelling.

Scenario Building is in a critical phase. The Scenario Product Manager will be leaving ENTSO-E Secretariat soon. Hiring process for replacement has started, the position is opened for members for a secondment contract, for internal and external applications. DSOs organisations are lagging behind concerning data deliveries.

3. TEN-E review: Key points of the EC proposal and organisation of ENTSO-E advocacy (incl. feedback from mini-retreat)

The European Commission released its proposal for a review of the TEN-E Regulation on 15 December 2020. ENTSO-E's assessment of the proposal is being conducted under the leadership of the TEN-E Advocacy Coordination Team (TENACT).

An overview of the key points of TEN-E review was presented and discussed.

4. SDC Strategy Seminar 2021

4.1. Preparation and location

Considering the current state-of-play of the COVID pandemic, WG SDS proposes to hold the SDC Strategy Seminar 2021 in two parts. The first part as a one-day virtual seminar on 16 March 2021, the second part as a physical meeting to be held at a date to be determined in September 2021.

Decision

Approval	Purpose/notes
➤ The SDC approves holding the first part of the SDC Strategy Seminar 2021 on 16-17 March 2021 in a virtual format.	



	Take note SDC takes note of the proposal by the SDC Vice Chair on the Strategy Seminar 2021 organisation.	
>	of the SDC Strategy Seminar 2021 in September 2021 in a physical format, if possible. The SDC approves the topics proposed by WG SDS on the revised TEN-E regulation on 16 March 2021, and the strategic orientations of the SDC Strategy Seminar 2021 in September 2021.	
	The SDC approves to organise the second part	

5. Joint Stakeholder Forum with ENTSOG

The Joint Stakeholder Forum ENTSO-E & ENTSOG is supposed to cover joint activities starting with Scenario Building, Interlinked Modelling and joint CBA. It will evolve continuously over time in light of changing regulatory environment such as upcoming TEN-E revision. It's scope focusses on stakeholder involvement with legally non-binding advice on joint ENTSO-E & ENTSOG regulatory tasks in order to improve stakeholder acceptance of the final deliveries. In order to match the already ongoing Scenario Building process, the 1st meeting of the Forum should take place on the 2nd half of February with preliminary topics:

- Advice on implemented lessons learned and feedback received for Scenario Storyline development
- Advice on priority for improvements received from consultation process for next Scenario Storyline
- Advice on any possible showstoppers for current Scenario Building process

Decision

Approval	Purpose/notes
 The SDC approves the proposal to set up a "Joint Stakeholder Forum" with ENTSOG. The SDC approves the proposed date of a kick-off meeting in February 2021 The SDC acknowledges that the above decisions are conditioned according to the feedback from EC and ACER 	work of ENTSO-E and ENTSOG February 2021
Take	note
The SDC takes note of ongoing debate about review of TEN-E regulation.	

6. CBA 3 methodology (updates)

After SDC approval on 23 January 2020 and after minor amendments due to SDC comments, DT CBA has sent the draft 3rd CBA guideline to ACER starting the official approval process on 11 February 2020.

ENTSO-E has received the official ACER opinion on the draft 3rd CBA guideline on 6 May 2020. DT CBA has received it on 7 May 2020. On 23 December 2020, DT CBA has officially received the EC opinion on the draft 3rd CBA Guideline.



An overview of the main changes suggested by ACER and by EC was provided and discussed. An ad hoc workshop will be organised before the final proposal of CBA 3 package will be provided in the Session File for approval at next SDC on 11 February 2021.

7. Decision Mode A (discussion at request only)

7.1. RG CSE: ToR for 2nd cycle of SECI TSP project

The SDC has approved the updated ToR for a second year of the SECI Transmission System Planning (TSP) project in the meeting of 5 March 2020. In accordance with the given decision, albeit with the slight delay due to the COVID-19 outbreak, the ToRs for the activities enveloped by the 2nd cycle of SECI TSP project have been prepared, internally harmonized and finally adopted by the RG CSE at the online meeting, held on the 18th of December 2020.

The approved ToRs that are presented in the Session file are the following:

- Study on impact of large-scale RES integration on cross-regional power flows in CSE (RES Study)
- Construction / update of network and market models
- Training and Capacity Building Workshops

Decision

	Approval	Purpose/notes
>	The SDC approves the updated ToRs for the	
	tasks in the 2 nd cycle of SECI Transmission	
	System Planning (TSP) project.	

7.2. StG CNC: Implementation Monitoring Report – internal summary for approval

Decision

	Approval		Purpose/notes
>	The SDC approves the Internal Summary of the recent second edition of the Implementation Monitoring Report	1	The Internal Summary gives a concise overview of the CNC monitoring results of 2020 that were published in December 2020.

8. WG Data & Models

8.1. Third-Party ENTSO-E Dataset 2020 publication

As in prior TYNDP cycles, the SDC approves the release of the ENTSO-E CGMES model which has been reviewed, adjusted and approved for release by the TSO System Study Correspondents as part of WG Data & Models Subgroup III. This model will be made available to those third-parties which request the model through the ENTSO-E website and sign the associated Confidential Undertaking.

Decision

	Approval	Purpose/notes	
۶	The SDC approves the release of the 2020	▶ n/a	
	ENTSO-E CGMES network model to requesting		
	third-parties subject to signature of the		
	standard Confidentiality Undertaking.		
	Take note		



➤ The SDC takes note of the need to balance data confidentiality and data transparency in approving the release of the 2020 ENTSO-E CGMES model.

Decision approved with one abstention.

8.2. Third-Party Data Release to DG Energy / NDA

The SDC is presented with an NDA to be used for the release of data specifically requested by DG ENER for use in its METIS modelling tool. The NDA would be entered into between DG ENER and only those TSOs which agreed to have their data released.

	Decision		
	Approval	Purpose/notes	
A	The SDC approves the use of the NDA developed by the ENTSO-E Legal section to govern the release of data requested by DG ENER.	The data release to DG ENER will be limited to the data of those TSOs which have provided written approvals to release their data and will only occur should DG ENER sign the approved NDA.	
	Take note		
>	The SDC takes note that DG ENER may still take the decision to rescind its data request.		

The decision is approved with an abstention from 2 TSOs.

8.3 Network Model for Bidding Zone Review and Third-Party Data Release to ACER

The SDC approves the proposed decision to use a TYNDP 2020 (NT2025) network transmission model in the Bidding Zone Review studies, as modified to conform with ACER's requirements. The SDC also approves the transmission of this model to ACER on behalf of the TSOs addressed in ACER's Decision with the model marked as confidential and exempt from publication by ACER.

	Decision proposal		
	Approval	Purpose/notes	
\	The SDC approves (1) the modified 2020 TYNDP transmission model (NT2025) for use in the Bidding Zone Review and (2) the delivery of the model to ACER on behalf of the addressed TSOs.	To support the addressed TSO's compliance with ACER's Decision No 29/2020	
	Take note		
>	The SDC takes note of the need to coordinate with the Market Committee, the Bidding Zone Review Steering Committee and its subgroups on this important effort.		

Decision approved with an abstention from 2 TSOs.



8.4. Update on PECD 2021 Project

The Convener of the TF PECD presents for information the status of the PECD TF activities. He highlights ongoing discussions with Copernicus Climate Change Service (C3S) to develop a climate database that would reflect projected climate change for use in ENTSO-E system development studies. A formal decision by the SDC will be necessary to approve the proposed solution and its implementation scheme.

C3S will provide their view and proposition on the feasibility and timeline of implementation. Based on this, the SDC will be asked to approve the proposed solution.

9. StG CNC

9.1. Status report on new implementation monitoring tool

The current project is in an early stage and working on detailing the business requirements for the tool. The development of the tools will be done with an external party. ENTSO-E will voluntarily continue to monitor implementation even though legal obligation to do so is removed through CEP.

9.2. Gap analysis between standard and connection codes

The project has not been started yet since it will follow the conclusions of the current Gap Analysis work which started late 2020 and will finish during Q1 2021.

10. WG AIM

10.1 & 10.2 Workshop on drones in collaboration with RDIC (Q1-Q2) and on Maintenance and Renovation strategy (Q2)

Drones play an important role in asset management to be efficient and reduce costs. An overview of what can be done with drones, not only at present but as well in the future should help to guide producers in the right direction.

Decision

Approval	Purpose/notes
 The SDC approves the organisation of Workshop on drones in collaboration with RI (Q1-Q2): To complete the Drones Report. The SDC approves the organisation of Workshop on Maintenance and Renovat strategy (Q2): finalize the second deliverable the Maintenance and Renovation strate report. 	he on of
Ta	ke note

The SDC takes note of:

- Drones final report already finished but will be completed after the Workshop 2021.
- First deliverable Maintenance and Renovation strategy
- Workshop on public acceptance (already approved, but it was impossible due to COVID-19



11. Offshore Development

11.1 Status update of ODCG topic

Since the last update for SDC on 24 November 2020, the ODCG progressed on several topics.

ENTSO-E Position paper on offshore development - Interoperability

- SDC & RDIC approved position paper #3 10.12.
- > BD discussed, allowed AS written approval ...and requested an additional comprehensive paper
- > AS commented by 17th December (1 comment received)
- > Currently in proofread & layout phase
- ➤ AS to approve 15th 22nd January
- Publication end January

TYNDP2022 -Innovation Track study (treatment of hybrid projects)

After SDC approval of the scope of the study during SDC meeting 10th December, first discussions with WG SB members took place.

Market & Regulatory Position paper "leftovers" & Follow ups

A new TF has been formed looking at the pp#2 "leftovers". Several meetings in Nov/ Dec on early scoping and organisation of work.

➤ Ideas have been presented at MC meeting 15th December. The committee welcomed the early scoping and cross-committee coordination for joint EE positions on additional regulatory matters in the offshore context.

Another TF has been formed under SOC in November 2020 entering ODCG as well, see 11.2.

11.2. Work on next publication (+ MC & SOC)

The Commission's Offshore Renewable Strategy proposes to adapt the current legislation to provide a least-cost transition of the energy system, with a particular emphasis on offshore hybrid projects. While emphasising several of the same recommendations that were highlighted in existing ENTSO-E positions, the EC Strategy also put forward several proposals, among which that of an offshore ISO model for developing and operating the meshed offshore grid, which may have adverse effects on the development of a coherent internal energy market both on- and offshore.

Preliminary insights on Offshore System Operation, compared to the ISO model proposed by the EC include the following main points:

- The existing regional cooperation between TSOs through RCCs is well-equipped to support the gradual deployment of hybrid offshore projects into the Internal energy market (IEM).
- The EC Offshore Strategy's proposal for an Offshore ISO model does not in fact address any system operations
- Moving towards such an ISO model would jeopardise the stable investment and regulatory framework necessary for the fast-paced deployment of the offshore grid infrastructure and assets.

As requested by the Board, the ODCG plans together with MC and SOC a new External Paper focussing on two main topics:

- Governance and organization structure of Offshore Meshed Networks: TSO+RCC vs. ISO model
- How to adapt and extend the TSO/RCC model to include offshore networks?
- Does the EC's ISO proposal enhance social welfare?
- Are there alternative solutions for (regional) cooperation models?



- Compensating Offshore Wind Farms in the Offshore Bidding Zone model
- What is the scope and nature of the financial support needed?
- For what can Congestion Income be used? What is the economic rationale?
- What are the risks of re-allocating Congestion Income to Offshore Wind Farms?
- What are alternatives to Congestion Income re-allocation?

Decision

	Approval	Purpose/notes	
>	The SDC welcomes the early scoping and cross-committee coordination for joint ENTSO-E positions on additional regulatory and operational matters in the offshore context and approves the general direction of work.	In view of the EC's offshore strategy and the proposed TEN-E regulation, some topics not yet tackled in ENTSO-E's earlier offshore publications should be further elaborated.	
	Take note		
>	The SDC takes note of the need to coordinate wit on this effort.	h the MC (WG EF, MD RES) and the SOC (StG Strategy)	

12. RGs activities (beyond TYNDP 2022)

12.1. Status of Convenorship RGNS, RG CCE and CCS

RG North Sea (RG NS):

The RGNS proposed to have Arno Haverkamp, from TenneT TSO BV, to take over the convenorship for the RGNS from Antje Orths. He starts the convenorship from 1st January 2021.

RG Continental Central East (RG CCE):

No additional information

RG Continental Central South (RG CCS):

The third mandate of RG CCS convener will expire on 7 February 2021. RG CCS started looking for a new convener since last autumn, but unfortunately no member has given/confirmed his availability up to now. The search for candidate is ongoing.

12.2. RG's activities

1. RG Baltic Sea

Baltic Synchronisation

After application of PSE to RG CE (SOC) was sent in September 2018, aiming for extension of Synchronous Area Continental Europe for Baltic States power systems, the RG CE (SOC) established a Project Group Baltic (PG Baltic) for preparation of the Agreement on the Conditions of the Future Interconnection of power system of Baltic States and power system of Continental Europe (referred to as CFI Agreement) and Catalogue of Measures (CoM).

On 29 of May 2019 after approval, the RG CE Plenary announced about the signing of the interconnection agreement and technical terms and conditions of interconnection (CFI Agreement) by the TSOs of Poland, three Baltic States and supporting countries, upon implementation of which – Lithuania, Latvia and Estonia will become a part of the European power system.



In order to fulfil the obligations arising from a.m. CFI Agreement, the PG Baltic continued to work towards the development of the 'Urgent Operational Synchronization Procedure UOSP' (art. 5.8). (The UOSP is kind of extraordinary emergency plan, elaborated solely to limit negative effects of unplanned disconnection of Baltic States Power System (BSPS) from IPS/UPS system.) The urgent operational synchronization procedure encompassing main document and two appendixes, i.e. action plan and list of decoupling elements was approved at the RG CE meeting in April 2020.

In order to manage the Baltic synchronization project in due time a synchronization roadmap was developed. The realization is continuously discussed and monitored in the PG Baltic. The RG BS will be informed about the on-going activities at the regular meetings of the RG BS.

The overall goal is maintaining the safe and secure operation of BSPS after sudden or announced disconnection from IPS/UPS system before 2025 (year for planned synchronous connection and operation with CESA).

Preparation of the MoU for the Baltic Offshore Grid Initiative with support of the RG BS TSOs agreed to strengthen the cooperation for the future of offshore grid in the Baltic Sea

The intended purpose of the cooperation titled "Baltic Offshore Grid Initiative" is to develop common planning principles for Baltic Sea offshore energy network, enable the consideration of the Baltic Sea offshore grid in the ENTSO-E Ten-Year Network Development Plan and perform studies that support the common vision for the offshore grid in the Baltic Sea region. The initiative should contribute to the CO2 reduction and to the development of an environmentally friendly energy system for the future.

The above-mentioned MoU was prepared in the RG BS with support of the TSOs legal departments and discussed and finally agreed in the Baltic Sea Leaders meeting beginning of December 2020.

The TSOs signing the Memorandum of Understanding (MoU) for the Baltic Offshore Grid Initiative are Fingrid from Finland, Svenska kraftnät from Sweden, Energinet from Denmark, 50Hertz from Germany, Elering from Estonia, AST from Latvia, Litgrid AB from Lithuania. Statnett from Norway will participate as an observing party.

The signing procedure of the MoU is closed to the finalisation. After signing of the MoU a respective Coordination Group (CoG) will be established to start the activities of the Baltic Offshore Grid Initiative.

Organization of workshop on market modelling

A 1st workshop on market modelling in the Baltic Sea Region with Energy Exemplar (PLEXOS) will be organized in the first half of the year 2021 in Helsinki. The preparation of the workshop is ongoing.

Organization of workshop on Offshore Development in the Baltic Sea Region

A 2nd workshop on Offshore Development in the Baltic Sea Region is proposed to be organized in the second half of the next year 2021 in Berlin (50Hertz).

2. RG Continental Central South

RgIP CCS

The Regional Investment Plan (RegIP) for CCS Region has been entirely finalized and published for consultation together with the other document of the IoSN package.



RG CCS contributed to the IoSN workshop arranged by ENTSOE on 28 September to present the IoSN package to the stakeholders.

PCI process – coordination of activities within CCS Region

Coordination of preparatory activities relative to the identification of needs and priority projects pertaining to PCI corridors NSI East and NSI West is always ensured. RGCCS provided the requested contributions to the relevant PCI corridor Reports.

Since November 2020, RGCCS is promoting regional coordination of the 5th PCI list project candidates submission. Now activities are in place to check and correct the economic evaluation (NPV values) of TYNDP projects to be released to the EC in the PCI platform.

ITEG

RG convener participates in the task force supporting ENTSO-E on the activities regarding the Interconnection Target Expert Group (latest discussions mainly focused on Smart Sector Integration).

Permanent topics of Regional interest

Internal discussions have been started about coordinated planning activities relative to corridors of regional interest. Potential corridors are mainly North-South corridors through the Alps Region.

3. RG Northern Seas

Northern Seas Offshore Grid Infrastructure

ENTSO-E's Regional Group North Seas is observing / participating in activities of projects / groups concerning the Northern Seas Offshore Grid Infrastructure. Below some activities are listed.

Northern Seas Countries' Energy cooperation (NSEC) (activity of 9 MS around NS)

- The 4 support groups have started working in January 2020:
 - SG1: hybrid/ joint projects (incl. TSOs)
 - o SG2: Maritime and spatial planning (&common EIA Framework)
 - SG3: support framework and Finance
 - o SG4: Coast to consumer (from March incl. TSOs)
- SG1 (DE/DK/EC), meeting 26th November. Topics:
 - EC presented their 'EC offshore strategi.' & some Q&A. They mentioned that some topics have been pushed to the TEN-E regulation proposal (i.e. i) cost allocation for hybrid projects, ii) the anticipatory investment...)
- o SG4 (BE/NL/EC), November meeting has been postponed to January
- MS&EC started a study on offshore developments together with the TSOs and with consultant DNV-GL

4. RG Continental South West

No reporting

5. RG Continental South East

Regional Investment Plan 2020 for CSE Region



Following the engagement of a professional editor to check and provide feedback on the previously delivered draft versions of RegIPs 2020, there was a certain number of comments that were related to the RegIP 2020 of the CSE Region. Most of them were implying to the needs for rephrasing or clarifying some of the sentences or paragraphs in the document. After taking time and dedicating effort to every potential improvement that could have stemmed from these comments, the updated version was delivered on 30th of December 2020.

Regional voltage profile improvement study

Even though the initial schedule suggested that the Study should have been completed by November 2019, it was delayed due to the obstacles posed by the COVID-19 outbreak. Therefore, the Study was completed in December 2020. Albeit the delivered results are of high-quality, it is still possible that they could have been enhanced with some supplementary activities in order to give the project a smart grid component. This will be a subject of the next Study, the Scope of Work of which is under preparation at the moment.

2nd Cycle of SECI TSP Project

SDC has approved the updated ToR for a second cycle of the SECI Transmission System Planning (TSP) project on the 5th of March 2020, when the RG CSE was assigned with drafting the ToRs for the individual tasks that should be included in this cycle. With the slight delay due to the COVID-19 outbreak, the ToRs for the activities have been prepared, internally harmonized and finally adopted by the RG CSE at the online meeting, held on the 18th of December 2020. They are to be presented to the SDC at the 77th meeting, in January 2021.

RG CSE meetings

As the conditions for organizing the proper physical meeting of the RG CSE were not yet met due to the COVID-19 pandemic, the meeting of RG CSE was held on the 18th of December 2020, with most of the members taking part in the meeting. The next meeting is expected to happen in the same fashion and is currently scheduled for the end of January or start of February 2021.

6. RG Continental Central East

No convenor

13. Topics for next mini-retreat in January 2021

Approval Purpose/notes The SDC approves the following topics in the SDC mini-retreat session on 10 February 2021: Organization of the SDC Strategy Seminar 2021



14. Any Other Business

14.1. ENTSO-E Data Policy and the approval process

The LRG has drafted a new ENTSO-E Policy on Data Confidentiality and Classification that will replace the existing Data Classification Policy. There will be a cross-committee vote scheduled from January 19th - 29th. LRG members have been instructed to liaise with the other Committee members (including SDC) within their organizations in their deliberations. Following the LRG cross-committee vote, subsequent votes are scheduled to occur at the Board (February 2nd – 9th) and Assembly (February 11th – 25th).