

56th Research, Development and Innovation Committee Meeting

Date: 21 April 2021
Time: 09.00 – 14:30h
Place: Web-conference

Participants

Chairman

	Statnett	Norway
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Vice Chairman

	Eles	Slovenia
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Members

1.	Amprion	Germany
2.	APG	Austria
3.	AS Augstsprieguma tikls	Latvia
4.	Ceps	Czech Republic
5.	Eles	Slovenia
6.	Elering	Estonia
7.	Elia Transmission Belgium	Belgium
8.	Fingrid	Finland
9.	JSC EMS	Serbia
10.	Litgrid	Lithuania
11.	MEPSO	Republic of North Macedonia
12.	PSE	Poland
13.	REN	Portugal
14.	Statnett	Norway
15.	Svenska Kraftnät	Sweden
16.	Swissgrid	Switzerland
17.	TenneT TSO BV	The Netherlands
18.	TenneT TSO GmbH	Germany
19.	Transelectrica	Romania

Subsities

20.	50Hertz Transmission	Germany
21.	Eles	Slovenia
22.	Energinet.dk	Denmark
23.	Mavir	Hungary
24.	National Grid ESO	United Kingdom
25.	OST	Albania
26.	REE	Spain
27.	Terna	Italy

Conveners WGs

1.	WG Research Development and Innovation Planning (WG RDIP)	Norway
2.	WG 1 Power System Modernisation	Germany
3.	WG 2 Security and System Stability	Germany
4.	WG 3 Power System Flexibility	Belgium
5.	WG 4 Future of energy systems	Italy
6.	WG 5 ICT and Digitalisation of Power System	Czech Republic

Excused

1.	CGES	Montenegro
2.	Eirgrid	Ireland
3.	HOPS	Croatia
4.	IPTO	Greece
5.	Landsnet	Iceland
6.	RTE	France
7.	Scottish Hydro Electric Transmission	United Kingdom
8.	SONI	Ireland
9.	TransnetBW	Germany

Secretariat

1.	ENTSO-E	Belgium
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BLOCK 1: RDIC ADMINISTRATION

TOP 1. Attendance quorum

The RDIC Chair welcomes all participants to this 56th RDIC meeting via teleconference put in place once again due to the particular circumstances related Covid-19 business trip restrictions. The RDIC Chair confirms that participants can formally cast their vote via teleconference on decisions proposed during the meeting.

Decisions:

- 26 out of 33 TSOs represented in the Research, Development and Innovation Committee attend the meeting. The RDIC is quorate.

TOP 2. Approval of draft agenda and RDIC Dashboard 2021

The RDIC Chair reviews the draft agenda and asks the RDIC for approval. The Secretariat reviews the RDIC Dashboard activities and highlights the areas at risks. The Secretariat also introduces the RDIC budget status for 2021 and update.

Decisions:

- The RDIC approves the agenda.
- The RDIC takes note of the RDIC Dashboard activities and the good advancement of the activities.
- The RDIC takes note of the RDIC 2021 budget status.

TOP 3. Governance RDI and RDIC

The Secretariat announces the results of appointment for the ENTSO-E RDI Head of Section position. The RDIC Chair informs about the opening of WG RDIP and WG3 Flexibility and Markets conveners' positions.

Decisions:

- The RDIC decides to launch the call for convenors for WG RDIP and WG 3 Flexibilities and Markets.

TOP 4. Report from Board 18 March and Assembly meeting 31 March 2021

The RDIC Chair debriefs on the topics discussed and outcomes from the Board meeting of 18 March 2020 and the Assembly meeting of 31 March 2021. The RDIC Chair congratulates the RDIC on successful work and approvals of the ENTSO-E position paper on the Electric Vehicle Integration into Power Grids and ENTSO-E position paper Grid-Forming Capabilities: Towards System Level Integration.

Decisions:

- The RDIC takes note of the discussion points during the Board meeting on 18 March and Assembly meeting on 31 March 2021.

BLOCK 2: STRATEGY TOPICS

TOP 5. RDI Strategy – implementation of the RDI 2.0 strategy including new DIC Task Force

The RDIC Vice Chair and Secretariat present the further progress on the ENTSO-E RDI Strategy 2.0 and introduce next steps for the set-up of the Demonstration and Innovation Coordination Task Force once the RDI 2.0 strategy is approved by the Board. The RDIC members discuss the most efficient approach on the development of Terms of Reference for the new Task Force.

Decisions:

- The RDIC takes note of the RDI 2.0 strategy approval process by the Board and the proposal for next steps implementation progress.
- The RDIC requests WGs to start developing the RDI programmes to support the implementation of the RDI Roadmap 2020-2030.

TOP 6. RDIC Work Plan 2021

The RDIC Chair and Secretariat present the RDIC Work Plan 2021 with detailed overview of all planned deliverables.

Decisions:

- The RDIC takes note of the status of the RDIC Work Plan 2021.

TOP 7. Innovation Uptake Through Regulation

The Secretariat presents the further progress and results of TSOs' response to ACER questionnaire on Innovation Uptake Through Regulation. The RDIC discusses the information to be presented to ensure clarity of key messages and representativeness of the TSOs' position

Decisions:

- The RDIC approves the proposed way forward and asks the Secretariat, together with WG Economic Framework within Market Committee, to finalize the draft report on innovation uptake and send it for a joint RDIC-MC review and subsequent approval in May 2021.

TOP 8. ENTSO-E Annual Work Programme 2022 including RDI

The Secretariat presents the development, structural changes and timeline of the ENTSO-E Annual Work Programme (AWP) 2022. The Secretariat highlights the legally mandated tasks related to RDI activities and dedicated chapter of the Annual Work Programme on the RDI Roadmap, RDI Implementation Plan, RDI Strategy 2.0 and RDI Monitoring Report and the deployment of innovation programmes. The RDIC Chair asks the RDIC members to actively participate in providing feedback for the ENTSO-E Annual Work Programme 2022 development.

Decisions:

- The RDIC acknowledges the draft Annual Work Programme 2022.

TOP 9. ENTSO-E 2050 Vision Project

The RDIC Chair announces the kick-off of ENTSO-E 2050 Vision Project. The Secretariat presents the background, scope, aims and major development steps of the ENTSO-E 2050 Vision Project. The Secretariat presents also the project organisational structure and discusses with the RDIC members the need to take into account available external 2050 visions (ex. ETIP SNET 2050 vision) and how to deal with different 2050 scenarios. The Chair highlights the importance of this project and its links with the current and future RDI Roadmap.

Decisions:

- The RDIC takes note of the ENTSO-E 2050 Vision Project and of the 2 RDIC representatives in the Project Team.

BLOCK 3: WORKING GROUPS

TOP 10. WG3 Flexibility and Markets

The WG3 Convenor presents the draft outcomes and next steps of the ENTSO-E Position Paper on Flexibility needs assessment and notifies the Committee members of the upcoming Flexibility Workshop which is scheduled for Monday 26 April 2021. The WG3 Convenor also provides an update of relevant Strategy Group T&D Interface workstreams and the latest developments in H2020 OneNet project.

Decisions:

- The RDIC takes note of WG3 progress on its current activities.

TOP 11. WG5 Digital & Communication

The WG5 Convenor presents the progress of WAMS workstream. The Convenor informs the RDIC members about the cooperation on new European Awareness System (EAS) pre-study in which the WAMS report will be used as input and next steps to finalize the WAMS report in cooperation with Task Force WAMS within SOC. The Convenor presents the progress of new Workstream for Vendor Independent Solutions for Control Centres and informs about potential Workstream for Cyber Security.

Decisions:

- The RDIC welcomes the fact that the WAMS report is used as an input to the new EAS pre-study and acknowledges the planned next steps towards the finalization of the report.

TOP 12. WG1 Assets and Technologies

The WG1 Convenor presents the progress on ENTSO-E Position Paper on lead in cables and the setup of a common manufacturer (T&D Europe) and users position on the transition times to the SF6 free technology. A response to the survey on Building Information Modelling (BIM) and a response to the survey on CO2 footprint is requested to assess the interest in the subject and identify future steps. The Convenor announces the inter-TSOs Workshop on “How to increase maintenance efficiency using drones”, which is organised in cooperation with SDC WG AIM.

Decisions:

- The RDIC takes note of WG1 progress on its current activities and the contribution to the RDI Roadmap 2020-20230 Flagship 3.
- The RDIC takes note of the planned next steps on Building Information Modelling (BIM) and CO2 footprint.

Top 13. WG2 Security and system operation of tomorrow

The WG2 Convenor presents the ENTSO-E, T&D Europe and WindEurope final report “Workstream for the development of multi-vendor HVDC systems and other power electronics interfaced devices” and the next steps. The WG2 Convenor presents also the status of HVDC Reliability and the Stability management in power electronics dominated systems and Assessment of a wide-spread hybrid AC/DC system programmes development. The WG2 Convenor informs the RDIC about the SOC Project “innovative System Operation Concepts (PT-iSOC)” and the RDIC involvement.

Decisions:

- The RDIC takes note of WG2 progress on its current activities.

- The RDIC takes note of the RDI Roadmap 2020-2030 Flagship 5 activities and HVDC reliability status performed by Working Group 2.
- The RDIC approves the ENTSO-E, T&D Europe and WindEurope Workstream for the development of multi-vendor HVDC systems and other power electronics interfaced devices.
- The RDIC is requested to inform the ENTSO-E Board about results and planned publication of the Interoperability Workstream and organise a common ENTSO-E, WindEurope and T&D Europe webinar after the Board meeting (29 April 2021) to announce and publish the Workstream. In parallel to the webinar, the RDIC is requested to inform the Assembly about the Workstream results during the meeting in June 2021.

Top 14. WG4 Future of energy system

The WG4 Convenor provides the status update and next potential steps for dissemination activities in relation to the approved ENTSO-E position paper on the Electric Vehicle Integration into Power Grids. The Convenor presents and discuss the development of new workstream for the quantification of deep electrification potential and grid impact aspects, including TSOs' role in power-to-heat and power-to-gas integration.

Decisions:

- The RDIC takes note of the planned next steps regarding the Electromobility paper dissemination activities.

BLOCK 4: INTER TSO-PROJECTS & DISSEMINATION

Top 15. Dissemination & Communication

The Secretariat presents the RDIC communication plan for 2021 Q2 including the Innovation Fridays and other dedicated webinars to disseminate the papers and report delivered by the thematic WGs and the draft agenda of InnoGrid 2021. The RDIC members discuss the dissemination opportunities and asks the Secretariat to ensure the RDIC members are well informed about upcoming events to promote RDI activities.

Decisions:

- The RDIC takes note of the upcoming communication and dissemination opportunities to promote RDI activities.

TOP 16. ETIP SNET

The Secretariat presents the changes of ENTSO-E and TSOs representation in ETIP SNET. The Secretariat provides an update of the ETIP SNET working groups activities.

Decisions:

- The RDIC takes note of the representation of ENTSO-E in ETIP SNET structures.

TOP 17. EU Projects and Horizon Europe calls relevant as for Implementation Report - TSOs initiative

The Secretariat presents the upcoming Horizon Europe calls, which are in line with the Project Concepts ideas identified in the ENTSO-E RDI Implementation Report 2021-2025. The Secretariat informs the RDIC about the received invitations for ENTSO-E to join the developments of projects proposals as a project partner and

discuss with RDIC members the ENTSO-E's participation. The RDIC Chair asks the RDIC members to share and discuss upcoming TSOs initiative on EU/regional projects.

Decisions:

- The RDIC takes note of all the upcoming Horizon Europe calls 2021-2022 identified as in line with the Project Concepts ideas in the ENTSO-E RDI Implementation Report 2021-2025.

BLOCK 5: AoB & APPROVAL OF DECISIONS

TOP 18. Any other business

Topic point:

N/A

TOPIC 19. Approval of the decisions

Decision:

- The RDIC approves the decisions and draft minutes of the meeting.