

70th Research, Development & Innovation Committee Meeting

Date: 21 February 2024
Time: 09.00 – 15.30h
Place: Web conference

Participants

Chairman

	Eles	Slovenia
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Vice Chairman

	Terna	Italy
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Members

1.	Amprion	Germany
2.	APG	Austria
3.	AST	Latvia
4.	CEPS	Czech Republic
5.	CGES	Montenegro
6.	EirGrid	Ireland
7.	Eles	Slovenia
8.	Elia	Belgium
9.	Energinet	Denmark
10.	EMS	Serbia
11.	Fingrid	Finland
12.	IPTO	Greece
13.	Litgrid	Lithuania
14.	Mavir	Hungary
15.	MEPSO	Republic of North Macedonia
16.	OST	Albania
17.	PSE	Poland
18.	REE	Spain
19.	REN	Portugal
20.	Seps	Slovakia
21.	Statnett	Norway
22.	Svenska Kraftnät	Sweden
23.	Swissgrid	Switzerland
24.	TenneT TSO BV	The Netherlands
25.	TenneT TSO GmbH	Germany
26.	Terna	Italy
27.	Transelectrica	Romania
28.	TransnetBW	Germany

29.	Ukrenergo	Ukraine
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Substitutes

30.	AS Augstsprieguma tikls	Latvia
31.	Elia	Belgium
32.	Energinet	Denmark
33.	OST	Albania
34.	REE	Spain
35.	RTE	France
36.	SONI	Northern Ireland
37.	Statnett	Norway
38.	Terna	Italy
39.	Ukrenergo	Ukraine

Conveners WGs

1.	WG 1 Assets and Technologies – Convenor	Norway
2.	WG 2 Security and Operations of tomorrow	Germany
3.	WG 3 Flexibility and Markets	Ireland
4.	WG 4 Future of energy systems	Italy
5.	WG 5 Digital & Communication	Poland
6.	WG Research Development and Innovation Planning (WG RDIP)	Portugal
7.	TF DIC	France

Secretariat

	ENTSO-E	
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Special invitees

	ENTSO-E	Belgium
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Excused

1.	50Hertz	Germany
2.	CGES	Montenegro
3.	Elering	Estonia
4.	HOPS	Croatia
5.	Landsnet	Iceland



BLOCK 1: RDIC ADMINISTRATION

TOP 1. Welcome and Attendance quorum

The Chair welcomes all participants to this 70th RDIC meeting organised as an online meeting.

Topic point:

- Confirmation and welcome of participants

Decisions:

- 30 of 35 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 2024

The Chair presents the agenda of the day and the Head of Innovation Section presents the dashboard with the ongoing actions and activities as well as the planned budget for 2024.

Topic point:

- RDIC Dashboard and Budget 2024

Decisions:

- The RDIC approves the agenda.
- The RDIC takes note of the RDIC Dashboard activities and their advancement.
- The RDIC takes note of the RDIC 2024 budget execution status.

TOP 3. Governance RDIC: Election Convenor WG4 “Future of Energy Systems”

The Chair presents the results from the call for nominations for the position of the WG4 “Future of Energy Systems” Convenor and asks the applicant to present herself/himself. Last, the members thank the outgoing Convenor.

Topic point:

- Election of Convenor WG 4

Decisions:

- The RDIC acknowledges the one application by RDIC member Statnett.

TOP 4. Ukrenergo membership to ENTSO-E and RDIC

The Chair and RDIC members welcome to the Committee the representatives of the new ENTSO-E member, Ukrenergo, who briefly present themselves and their interest to the RDIC activities.

Topic point:

- Update and Ukrenergo members in RDIC
- Brief introductory presentation from Ukrenergo

Decisions:

- The RDIC takes note of the membership update and welcomes Ukrenergo to RDIC

BLOCK 2: STRATEGY TOPICS

TOP 5. Report from Board meeting, 31 January 2024, and Assembly meeting 14 December 2023

The RDIC Chair reports on the relevant outcomes from the ENTSO-E Board meeting on 31 January 2024 and the ENTSO-E Assembly meeting on 14 December 2023.

Topic point:

- Report from Board meeting, 31 January 2024, and Assembly meeting 14 December 2023

Decisions:

- The RDIC takes note of the Report from Board meeting, 31 January 2024, and Assembly meeting 14 December 2023

TOP 6. RDIC Implementation Plan 2024

The RDIC Vice Chair presents the RDIC Implementation for 2024, how it was prepared and its association with the recently published ENTSO-E Strategic Roadmap and the available Committee budget. The Vice Chair highlighted the key priorities for 2024 and the status of the available resources to meet the priorities.

Topic point:

- RDIC Implementation Plan 2024
- Priorities and additional resources – survey results

Decisions:

- The RDIC approves the RDIC Implementation Plan 2024 as submitted in the session file, taking into consideration the results from the RDIC survey.

TOP 7. Digitalising the Energy System - EU Actions plan

The Chair and Secretariat present the DESAP project final work package (WP) structure as well as updates from the recently concluded Joint Task Force (JTF) meeting with the EU DSO Entity, highlighting the ongoing work on TSO-DSO challenges. The planned setup of DESAP advisory board was noted as well as the updated JTF representation in WP2 and WP3 upon conclusion of launch for call of experts.

Topic point:

- Updates from last JTF meeting and content development
- Updates on call for experts
- AOB

Decisions:

- The RDIC takes note of the status of ongoing work and developments in the Digitalization of Energy Action (DESAP) project.

TOP 8. Flexibility Needs Assessment

The RDIC Chair, WG 3 Convener and Secretariat present the latest updates on Flexibility Needs Assessment and the guidance received by the Board regarding the two ongoing activity streams – one related to the follow up on ENTSO-E Vision for Carbon Neutral Europe report and the other one on obligations stemming from the Electricity

Market Design Reform (EMDR). They also present the latest cross-committee discussions, exploring links with existing relevant ENTSO-E products.

Topic point:

- Updates from the project developments – strengthening RDIC involvement/leadership.
- Flexibility Needs assessment methodology according to the EMDR.

Decisions:

- The RDIC takes note of:
 - the progress and next steps of the ENTSO-E's project on Flexibility Needs Assessment
 - the status with regard to the Flexibility Needs Assessment Methodology according to the upcoming Electricity Market Design Regulation

TOP 9. EU Action Plan for Grids / EG Grid Infrastructure

The Chair and Secretariat present the decisions and actions proposed for Action 7 (links with Technopedia) and Action 13 (Standardisation), emphasising alignment with the EU Grid Action Plan and endorsing collaboration with the EU DSO Entity and European Standardisation Organisations.

Topic point:

- Action 7 (links with Technopedia)
- Action 13 (Standardisation)

Decisions:

- The RDIC takes note of the next steps for ENTSO-E Technopedia as mandated by the EU Grid Action Plan
- The RDIC takes note of the requirements of Action 13 of the EU Grid Action Plan

TOP 10. EG Offshore Grid

The RDIC Chair presents an update on offshore governance, highlighting the status and recent developments. Due to the importance of this topic and the high priority within ENTSO-E, an RDIC representative for the ENTSO-E EG Offshore will be nominated.

Topic point:

- Update on offshore governance

Decisions:

- The RDIC takes note of the status and update governance of offshore topics.

BLOCK 3: WORKING GROUPS

TOP 11. TF Demonstration and Innovation Coordination

The Task Force Convener presents an overview of the status of Horizon Europe calls within Cluster 5 of the 2023–2024 work program, highlighting coordination efforts by the TF DIC and the thematic WGs. The Convener also addresses the delay in the publication of the new Horizon Europe work program 2025 and updates on the inter-TSO large-scale EU controllability investment project.

Topic point:

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- HE Calls Coordination/Status and coming 2025-2027 HE programme + call for participation & contact updates.
- Inter TSO project – Status.

Decisions:

- The RDIC takes note of the status of Horizon Europe calls within Cluster 5 of the 2023–2024 work program, coordinated by the TF DIC and the RDIC thematic WGs.
- The RDIC takes note of the delay in the publication of the new Horizon Europe work program 2025.
- The RDIC takes note of the status of the inter-TSO large-scale EU controllability investment project.

TOP 12. WG RDIP

The Working Group Convener presents the restructured Clusters and Flagship topics proposed for the new RDI Roadmap 2024-2034. The Convener describes how the Flagships are proposed to be updated, highlighting the new milestones, storylines and rationale, giving an update also on the timeline and next steps. Furthermore, the Convener presents the status of the Technopedia update, including the already revised Factsheets and the remaining that are still in progress. Updates on timeline and next steps of this workstream are also presented.

Topic point:

- RDI Roadmap update – Proposed new structure and Flagships
- Technopedia updates and coherence with RDI Roadmap

Decisions:

- The RDIC takes note of the proposed new structure of the RDI Roadmap 2024-2034 and the planning of activities.
- The RDIC acknowledges the progress made in Technopedia’s review process and the planning of activities.

TOP 13. WG1 Assets and Technologies

The Working Group Convener presents the outcomes of the inter-TSO workshop focusing on SF6-free technology for the European high-voltage grid and the exchange of best practices. Additionally, the Convener presents the CO2 footprint in the TSO business paper's scope, target stakeholders and main messages.

Topic point:

Flagship 3:

- Outcomes of the 9 Feb workshop on ‘The acceleration of technology transition towards SF6-free components in European high-voltage grid’
- Submission for feedback on the draft paper on CO2 footprint in the TSO business

Decisions:

- The RDIC acknowledges the outcome of the 9 February workshop focus on SF6-free technology for the European high-voltage grid and the exchange of best practices
- The RDIC takes note of the paper on eco-design and lifecycle management and circular economy milestones under Flagship 3 of the 2020-2030 RDI Roadmap

TOP 14. WG3 Flexibility and Markets

The Working Group Convener presents the initial scope for a possible future RDI & Market hydrogen study and invites interested members to support the work. He highlights the plans to address both systemic and market

aspects. At last, the Convener presents the Working Group contributions to the RDIC and more broadly to ENTSO-E activities.

Topic point:

- Hydrogen study
- Contributions to other RDIC / ENTSO-E Cross committee activities

Decisions:

- The RDIC takes note of the scoping activities between WG3 Flexibility and Markets and WG Market Design & Renewables under the Market Committee in preparation of a paper related to hydrogen.

TOP 15. WG5 Digital & Communication

The Working Group Convener briefly presents the rationale behind merger of the TF Digital Twin (DT) and Fully Automated AI decision support. Furthermore, the Convener outlines the 2024 roadmap for all of the three task forces under the WG: Combined TF DT & AI, Vendor Independent Solutions (VIS) and Wide Area Monitoring Systems (WAMS). Finally, the Convener underscores the need for members (especially the TSOs that have high level of WAMS implementation) to bring input and support finalisation of the PMU implementation guidelines document.

Topic point:

Flagship 6:

Updates from WG5/TFs activities:

- Merger of TF Digital Twin (DT) and Fully Automated AI decision support and envisioned roadmap 2024 for Combined TF DT & AI
- Aspirational roadmap for TF Vendor Independent Solutions (VIS), progress report on VIS Fiche
- Envisioned roadmap 2024 for Wide Area Measurement Systems (WAMS)

Decisions:

- The RDIC takes note of:
 - the individual roadmaps and next steps of the WG5 – Digital & Communication workstreams
 - the support provided by WG5 on digital factsheets for Technopedia and cooperation with JTF DESAP

TOP 16. WG2 Security and Operations of Tomorrow

The Working Group Convener presents updates and next steps regarding Flagship 5 (Stability Management Work Stream), including the acknowledgement of the Project Initiation Document (PID) progress and the upcoming WG2 physical workshop where RDIC members are urged to participate and support WG2's 2024 work program.

Topic point:

Flagship 5 (Stability Management WS)

- Updates and next steps on PID 'Instability Detection Technologies for System Operators of PE Dominated Systems' at the cross-committee level:
 - approval of the PID
 - launching a call for experts

Decisions:

- The RDIC acknowledges the next steps on the PID «Instability Detection Technologies for System Operators of PE Dominated Systems» as part of the middle action outlined within «ENTSO-E Position Paper on Stability Management in Power Electronics Dominated Systems» published in June 2022

- The RDIC takes note of the upcoming WG2 physical workshop.

TOP 17. WG4 Future of Energy Systems

The Working Group Convener presents the outcomes and key messages of the study pertaining to battery degradation and their provision to systems services and describes possible follow-up work and dissemination activities. The Convener also presents the scope and status of the upcoming study on energy-water nexus and finishes by presenting the Working Group contributions to the RDIC and more broadly to ENTSO-E activities.

Topic point:

Flagships 1&2

- Impact of smart charging and Vehicle-to-Grid on EV battery degradation – outcome
 - Report [Link](#)
- Water-Energy nexus: organisation of work
- Contributions to other RDIC / ENTSO-E Cross committee activities

Decisions:

- The RDIC takes note of the draft results of Impact of smart charging and Vehicle-to-Grid on EV battery degradation study.

BLOCK 4: INTER TSO-PROJECTS & DISSEMINATION

TOP 18. Dissemination & Communication

The Secretariat presents the upcoming internal communication activities and their relevance to the RDIC, including ENTSO-E's internal knowledge sharing webinars and the next session of the Innovation Fridays series.

Topic point:

- Update on upcoming webinars

Decisions:

- The RDIC takes note of the upcoming RDI-related communication opportunities.

BLOCK 5: AoB & APPROVAL OF DECISIONS

TOP 19. Any other business (TBC)

The General Counsel of ENTSO-E presents the outcomes of the ENTSO-E Corporate Project, in particular the changes in the Articles of Association most relevant to the RDIC and its decision-making processes.

The Secretariat presents the new leadership structure of ETIP SNET and calls for new members to join the ETIP SNET Governing Board and take part in their workstreams.

Topic point:

- ENTSO-E Corporate Project: Presentation of the updated Articles of Association and Internal Regulations
- ETIP SNET: Renewed membership

Decisions:

- The RDIC takes note of the results from the ENTSO-E Corporate Project about the updated Articles of Association and Internal Regulations
- The RDIC takes note of the 2 missing representatives of TSOs community in ETIP SNET Governing Board and decides to follow-up

TOP 20. Approval of the Decisions

Topic point:

- Approval of the Decisions.

Decisions:

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