Final minutes

71st Research, Development and Innovation Committee Meeting

Date: 24 April 2024
Time: 09.00 – 15.30h
Place: ENTSO-E, rue de Spa 8 – 1000 Brussels

Participants

Chairman

	Eles	Slovenia

Vice Chairman

	Terna	Italy

Members

1.	Amprion	Germany
2.	APG	Austria
3.	CEPS	Czech Republic
4.	Elering	Estonia
5.	Eles	Slovenia
6.	EMS	Serbia
7.	Energinet	Denmark
8.	Fingrid	Finland
9.	IPTO	Greece
10.	Landsnet	Iceland
11.	Litgrid	Lithuania
12.	Mavir	Hungary
13.	PSE	Poland
14.	RTE	France
15.	Statnett	Norway
16.	Svenska Kraftnät	Sweden
17.	TenneT TSO BV	The Netherlands
18.	TenneT TSO GmbH	Germany
19.	Terna	Italy
20.	Transelectrica	Romania
21.	TransnetBW	Germany
22.	Ukrenergo	Ukraine

Final minutes

Substitutes

23.	AS Augstsprieguma tikls	Latvia
24.	EirGrid	Ireland
25.	Elia	Belgium
26.	REE	Spain
27.	REN	Portugal
28.	Seps	Slovak Republic
29.	SONI	Northern Ireland
30.	Swissgrid	Switzerland
31.	Terna	Italy
32.	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.	TF DIC	France

Secretariat

	ENTSO-E	

Special invitees

	European Commission, DG ENER	

Excused

1.	50Hertz Transmission	Germany
2.	CGES	Montenegro
3.	HOPS	Croatia
4.	MEPSO	Republic of North Macedonia
5.	OST	Albania

ରଶଶରଶ

Final minutes

BLOCK 1: RDIC ADMINISTRATION

TOP 1. Welcome and Attendance quorum

The Chair welcomes all participants to this 71st RDIC meeting taking place at ENTSO-E office in Brussels.

Topic point:

- Confirmation and welcome of participants.

Decisions proposal:

- 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 2024 budget and its execution status.

Topic point:

- RDIC Dashboard and Budget 2024.

Decisions proposal:

- The RDIC:
    - approves the agenda;
    - takes note of the RDIC Dashboard activities and their advancement;
    - takes note of the RDIC 2024 budget execution status and Q1 2024 forecast.

TOP 3. Governance RDIC

As per the decision made in the RDIC meeting of 15 June 2023, following the expiration of the first mandate of the WG2 Convenor on 4 May 2024, the Secretariat will launch a call for candidates on 26 April 2024, which will conclude on 20 May 2024.

Topic point:

- Launch call for convenorship WG2 "Security & Operations of Tomorrow".
- Expert RDIC Representative on Sector Coupling topics.

Decisions proposal:

- The RDIC takes note of:
    - the status of the WG2 Convenor mandate and the next steps for election/reappointment process in accordance with Article 4 of Internal ENTSO-E Regulations;
    - the appointment of the expert RDIC representative for sector coupling topics.

Final minutes

BLOCK 2: STRATEGY TOPICS

TOP 4. Report from Board workshop/meeting of 16-17 April 2024, and Assembly meeting of 7 March 2024

The RDIC Chair reports on the relevant outcomes from the ENTSO-E Board workshop/meeting on 16-17 April 2024 and the ENTSO-E Assembly meeting on 7 March 2024.

Topic point:
- Report from Board workshop/meeting of 16-17 April 2024, and Assembly meeting of 7 March 2024.

Decisions proposal:
- The RDIC takes note of the Report from Board workshop/meeting of 16-17 April 2024, and Assembly meeting of 7 March 2024.

TOP 5. Offshore Expert Group (EG)

The RDIC representative to the Offshore EG briefs the RDIC members on the main developments and next steps proposed by the Offshore EG, with special attention given to the primary contributions made by the RDIC to offshore endeavours.

Topic point:
- Update on EG Offshore from the meeting on 16 April:
  - Key challenges: Multi-Terminal & Multi-Vendor;
  - InterOPERA milestones and status;
  - Take stock of previous and ongoing R&D&I projects related to offshore.
- Update on Cross Border Cost Sharing.

Decisions proposal:
- The RDIC takes note of the identified key challenges for offshore.

TOP 6. RDIC Implementation Plan 2024 & Initial Budget Proposal for 2025

The Vice-Chair presents the final updated RDIC Implementation Plan for 2024 after incorporating the priorities of additional TSOs. In addition, the initial budget proposal for 2025 and the 5-year ahead is presented and discussed.

Topic point:
- RDIC Implementation Plan 2024.
- Initial Budget Proposal for 2025.

Decisions proposal:
- The RDIC takes note of:
  - the updated results of the RDIC survey on RDIC Implementation Plan 2024;
  - the initial budget proposal for 2025 and the 5-year outlook.

TOP 7. RDI Roadmap 2024-2034

The substitute of the WG Convener presents the new structure and the first draft of the RDI Roadmap 2024-2034 and requests the members to review the milestones of the 6 Flagships and provide their comments. The substitute Convener takes note of the comments and gives an overview as to how these will be taken into account in the next version of the RDI Roadmap.

Topic point:
- Revision of the RDI Roadmap 2024-2034 before the public consultation and next steps in view of the public event (June 2024).
- Review of the draft Roadmap 2024-2034.

Decisions proposal:
- The RDIC takes note of the first draft of the RDI Roadmap 2024-2034.

Final minutes

TOP 8. Current/future supply chain bottlenecks and visibility of volumes on pan-EU level (EU Action Plan for Grids – Action 13)

The Convener provides a briefing to the RDIC members on the ongoing cross-committee work concerning Action 13 of the EU Action Plan for Grids covering visibility and current/future supply chain bottlenecks of EHV and HV equipment.

Topic point:

- Action 13.

Decisions proposal:

- The RDIC acknowledges the ongoing collaborative efforts across committees regarding Action 13 of the EU Grid Action Plan.
- The RDIC supports the compiled list of current and anticipated technology, assets, and equipment experiencing supply chain bottlenecks, in response to Action 13 of the EU Grid Action Plan.

TOP 9. Digitalising the Energy System – EU Actions plan / Smart Grid Indicators

The RDIC Chair provides briefing to the RDIC members on the ongoing development of Smart Grid Indicators ahead of the Infrastructure Forum in Copenhagen in June. The Secretariat provides an update on the development of Digitalisation of Energy Action (DESAP), especially the ongoing work on common TSO-DSO challenges and resulting prioritisation. The RDIC takes note of the planned advisory board and Joint Task Force meeting in early June 2024.

Topic point:

- Development on Smart Grid Indicators ahead of the Infrastructure Forum in June.
- Updates from the DESAP project.

Decisions proposal:

- The RDIC takes note of:
  - the prepared proposal on Smart Grid Indicators ahead of the Infrastructure Forum in June;
  - the status of ongoing work and developments in the Digitalisation of Energy Action (DESAP) project.

TOP 10. Flexibility Needs Assessment

The relevant WG Convener together with the Secretariat present the status of Flexibility Needs Assessment work and give an overview of next steps for the open relevant workstreams.

Topic point:

- Draft results from the pan-EU methodology (Vision work).
- Flexibility Needs assessment methodology according to the EMDR.
- Call for technical manager.

Decisions proposal:

- 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.

Final minutes

BLOCK 3: WORKING GROUPS

TOP 11. WG3 Flexibility and Markets

The WG3 Convener delivers an update on the progress of the hydrogen study's development and procurement process. Then, the Convener outlines the study's content and provides an overview of the project timeline. Additionally, the RDIC expert representative presents the Gas cooperation strategy and its implications for the RDIC.

Topic point:
- Hydrogen study.
- Gas cooperation Strategy – RDIC contribution.

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

Top 12. NZI Act: implementation

The EC representative introduces the Net-Zero Industry Act, with implementation slated to commence in July 2024, that will be preceded by an implementation act, and full effect anticipated by April 2026. The initial version, to be voted on first by the European Parliament in April and later by the European Council, encompasses electricity grid technologies, including electric charging technologies for transportation and technologies to digitalise the grid.

Topic point:
- Approval status and implementation.

Decisions proposal:
- The RDIC welcomes the update on the Net Zero Industry Act implementation.
- The RDIC acknowledges the importance of the Net Zero Industry Act.

TOP 13. WG1 Assets and Technologies

The WG1 Convener introduces the RDIC members to a novel workstream initiative that is meant to be followed up by an online workshop with WG1 members. The Convener extends the invitation to any other interested TSOs to participate in this online workshop during mid-May. Lastly, the Convener highlights the upcoming funding needs to be addressed collaboratively with TF DIC.

Topic point:
Flagship 3:
- Framework for Recyclability-Circular Economy-LCA.
- List and identify the needs for funding schemes towards Horizon Europe Work Programme 2025 and later ones.

Decisions proposal:
- The RDIC acknowledges the proposed framework by WG1 - Assets and Technologies regarding recyclability, circular economy, and Life Cycle Assessment (LCA).
- The RDIC takes note of the priorities outlined by WG1 - Assets and Technologies for funding schemes within the Horizon Europe Work Programme.

TOP 14. TF Demonstration and Innovation Coordination

The Task Force DIC Convener presents the main elements of the ENERSPACE Digital Europe Programme call and illustrates the work done within the Task Force and among Members to create one Consortium. Afterwards, few updates about Horizon Europe Work Programmes and Feeback survey are shared among Members. Lastly, timeline and initial draft of the Innovation Deployment Methodology are presented.

ENTSO-E | Rue de Spa, 8 | 1000 Brussels | info@entsoe.eu | www.entsoe.eu | @entso_e

6

Topic point:
- Digital Europe Programme – DIGITAL-2024-CLOUD-AI-06-ENERSPACE.
- Innovation deployment methodology and timeline proposal.

Decisions proposal:
- The RDIC acknowledges the significant interest generated by the DIGITAL-2024-CLOUD-AI-O6-ENERSPACE call.
- The RDIC takes note of the publication of the amended 2023-2024 Work Programmes and of the launch of the Feedback survey for Horizon Europe Work Programme 2025.
- The RDIC acknowledges and endorses the initial draft of the Innovation Deployment Methodology along with the proposed timeline.

TOP 15. WG5 Digital & Communication
The Working Group Convener briefly presents the outcome of ICTC IT council meeting on tools and applications stemming from WG5 work for ICTC business roadmap consideration. Furthermore, Convener presents updates from the three task forces: Combined TF DT & AI, Vendor Independent Solutions (VIS) and Wide Area Monitoring Systems (WAMS). The RDIC takes note of planned cross-committee review of Whitepaper on PMU implementation guidelines document in May/June.

Topic point:
Flagship 6:
- ICTC council meeting: Proposal on Tools/applications stemming from WG5 work for ICTC business roadmap consideration.
- TF WAMS: Update on PMU implementation guidelines.
- TF VIS: summary of crucial VIS ecosystem aspects and a summary of vendor dialogue approach.
- TF DT&AI: Updates on AI survey.

Decisions proposal:
- The RDIC takes note of the overall progress of the individual task forces within WG5 – Digital & Communication.

TOP 16. WG2 Security and Operations of Tomorrow
The WG2 Convener briefs RDIC members regarding the outcomes and conclusions of the workshop held on 20 March 2024. Additionally, the Convener updates the RDIC members on ongoing discussions and reiterates the importance of the Project Manager role in the ongoing PT on 'Instability Detection Technologies for System Operators of PE Dominated Systems,' encouraging RDIC members to consider its key role.

Topic point:
- Outcomes of the WG2 20 March 2024 workshop.
- First outcomes of 'Instability Detection Technologies for System Operators of PE Dominated Systems'.
  - Recall - Project manager role.

Decisions proposal:
- The RDIC takes note of the main outcomes results of the WG2 workshop held on 20 March 2024.
- The RDIC takes note of the first outcomes of 'Instability Detection Technologies for System Operators of PE Dominated Systems'.

TOP 17. WG4 Future of Energy Systems
The RDIC expert representative presents the key findings of the "Impact of Smart Charging and Vehicle-to-Grid on BEV Battery Degradation" report, along with details on its external dissemination. Additionally, the Working Group Convener gives updates on the formation of new Task Forces and the selection of new topics for future work.

Final minutes

Topic point:
- Impact of Smart Charging and Vehicle-to-Grid on BEV Battery Degradation – finalisation and RDIC approval.
- Launch of new topics.

Decisions proposal:
- The RDIC approves the final report on Impact of Smart Charging and Vehicle-to-Grid on BEV Battery Degradation.
- The RDIC takes note of the proposed new Task Forces and workstreams definition process.

BLOCK 4: INTER TSO-PROJECTS & DISSEMINATION

TOP 18. Dissemination & Communication

The Secretariat provides an update on the upcoming public and TSO-only events linked to the activities of RDIC, including a webinar on the RDI Roadmap 2024-2034 and webinar on the Technopedia.

Topic point:
- Update on upcoming webinars and external RDIC events

Decisions proposal:
- The RDIC takes note of the plan of RDI-related events for 2024

BLOCK 5: AoB & APPROVAL OF DECISIONS

TOP 19. Any other business (TBC)

The Secretariat presents the candidates for the ETIP SNET Governing Board membership, and all three of them are endorsed by the RDIC members. Furthermore, the RDIC expresses its gratitude towards the previous vice-chair of ETIP SNET representing ENTSO-E, and elects the new delegate for this role.

Topic point:
- ENTSO-E appointments in ETIP SNET.

Decisions proposal:
- The RDIC endorses the new ENTSO-E delegates to the ETIP SNET Governing Board, Working Groups, and Vice-Chair roles.

TOP 20. Approval of the Decisions

Topic point:
- Approval of the Decisions.

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