

64th Research, Development and Innovation Committee Meeting

Date: 30 November 2022

Time: 09.00 – 14.25h

Place: UnaHotels Deco Roma, Via Giovanni Amendola, 57 – IT – 00185 Rome (Italy)

Participants (physical)

Chairman

	Statnett	Norway
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Vice Chairman

	Eles	Slovenia
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Members

1.	Amprion	Germany
2.	APG	Austria
3.	Ceps	Czech Republic
4.	Eles	Slovenia
5.	Elia	Belgium
6.	IPTO	Greece
7.	Litgrid	Lithuania
8.	REE	Spain
9.	REN	Portugal
10.	Svenska Kraftnät	Sweden
11.	TenneT TSO BV	The Netherlands
12.	TenneT TSO GmbH	Germany
13.	Terna	Italy

Substitutes

14.	<i>Amprion</i>	<i>Germany</i>
15.	EirGrid	Ireland
16.	Energinet	Denmark
17.	<i>PSE</i>	<i>Poland</i>
18.	RTE	France
19.	Seps	Slovakia
20.	SONI	Northern Ireland
21.	<i>Svenska Kraftnät</i>	<i>Sweden</i>
22.	<i>Terna</i>	<i>Italy</i>

Conveners WGs

1.	WG Research Development and Innovation Planning (WG RDIP)	Portugal
2.	<i>WG 1 Assets and Technologies</i>	
3.	WG 2 Security and Operations of tomorrow	Germany
4.	<i>WG 3 Flexibility and Markets</i>	
5.	WG 4 Future of energy systems	Italy
6.	WG 5 Digital and Communication	Czech Republic
7.	TF DIC	France

Special invitees

1.	SDC member (Terna)	Italy
2.	Convenor of the Economic Framework WG (TenneT TSO GmbH)	Germany

Observers

1.	Member of WG1	Italy
2.	Member of WG2	Italy
3.	Member of WG3	Italy
4.	Member of WG5	Italy
5.	Member of TF DIC	Italy
6.	Terna expert	Italy

Secretariat

1.	ENTSO-E	
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Participants (*remote*)

Members

23.	50Hertz Transmission	Germany
24.	AS Augstsprieguma tikls	Latvia
25.	Mavir	Hungary
26.	MEPSO	Republic of North Macedonia
27.	PSE	Poland
28.	Statnett	Norway

Substitutes

29.	<i>TenneT TSO GmbH</i>	<i>Germany</i>
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Excused

1.	CGES	Montenegro
2.	Elering	Estonia
3.	EMS	Serbia
4.	Fingrid	Finland
5.	HOPS	Croatia
6.	OST	Albania
7.	Swissgrid	Switzerland
8.	Transelectrica	Romania
9.	TransnetBW	Germany

BLOCK 1: RDIC ADMINISTRATION

TOP 1. Welcome and Attendance quorum

The RDIC Chair welcomes all participants to this RDIC meeting in Rome. He warmly thanks Terna for hosting this Committee meeting in Rome and for organising the decennial Celebration of the RDIC the evening before. The Chair welcomes all participants to this 64th RDIC meeting organised as a hybrid meeting. The RDIC Chair welcomes the SDC member, who will present Terna's views on the Renewables long-term scenarios in Italy. The Chair also welcomes the Convenor of WG Economic Framework (Market Committee) who will present the recent developments and updates on Innovation incentives. Finally, the Chair confirms that participants can formally cast their vote, live and via teleconference on decisions proposed during the meeting.

Decision:

- 24 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 2022

The Secretariat reviews the draft agenda and asks for approval. The Secretariat reviews the RDIC Dashboard activities and highlights the areas of risk. The Secretariat presents also the RDIC budget status.

Decision:

- The RDIC approves the agenda.
- The RDIC takes note of the RDIC Dashboard and the good advancement of the activities.
- The RDIC takes note of the RDIC 2022 budget status.

TOP 3. Special speaker (Terna)

The Chair welcomes the SDC member. The speaker presents the long-term scenarios for renewables development in Italy. The RDIC Members discuss the presentation.

Decision:

- n/a

TOP 4. Special speaker (TenneT TSO GmbH)

The Chair welcomes the Convenor of WG Economic Framework. The speaker presents the recent developments and updates on Innovation incentives. The RDIC Members discuss the presentation.

Decision:

- n/a

TOP 5. Governance RDIC - WGs' Convenorship status quo

The Chair and RDIC members discuss the results of the call for nominations for the WG3 Convenor. The RDIC acknowledges that no nominations have been received within the deadline. The Chair informs RDIC members about resignation of the WG1 Convenor and agrees to launch a call for nomination for this role.

Decisions:

- The RDIC takes note of the result of the 2nd call for WG3 Convenor.
- The RDIC acknowledges the resignation of the incumbent WG1 Assets and Technologies convenor.
- The RDIC takes note WG1 Assets and Technologies convenor role is now vacant and agrees to launch a call for nomination for this role.

TOP 6. RDIC meetings organization 2023

The Secretariat presents the proposed schedule for the RDIC meeting in 2023. The RDIC members discussed the most suitable dates to arrange the meetings.

Decisions:

- The RDIC agrees to have five meetings per year and one RDIC Strategy Workshop, with a remote participation option.
- The RDIC approves the following meeting dates in 2023:
 - Wednesday, 22 February 2023 – only ONLINE meeting
 - Friday, 28 April 2023
 - Thursday 15 June 2023
 - Wednesday, 20 September 2023
 - Wednesday-Thursday, 15-16 November 2023: Strategy Workshop 2023 and RDIC meeting

BLOCK 2: STRATEGY TOPICS

TOP 7. Report from Board Strategy Workshop & Board meetings 5-6 October 2022, Assembly meeting 27 October 2022 and Board meeting 16 November 2022

The Chair informs RDIC about main discussion points from the recent Board and Assembly meetings.

Decision:

- The RDIC takes note of the discussion at the Board Strategy Workshop and Board meetings on 5-6 October 2022, and Assembly meeting 27 October 2022.

TOP 8. Digitalizing the Energy System - EU action plan

The Chair and vice-Chair provide updates on the recent developments of Digitalizing the Energy System - EU action plan. The Chair highlight the discussion points agreed during the RDIC Strategy Workshop. The vice-Chair stresses the need for the alignment between two Horizon Europe calls and proposals on digital twin. The vice-Chair outlines the coordination needs for planned joint ENTSO-E and EU DSO Entity Task Force are a result of planned Declaration of Intent.

Decisions:

- The RDIC acknowledges the developments of the Digitalisation of Energy System Action Plan.
- The RDIC acknowledges the developments of ENTSO-E and EU DSO Entity Declaration of Intent.
- The RDIC supports ENTSO-E participation in foreseen Horizon Europe Innovation Action Call: “Supporting the development of a digital twin to improve management, operations and resilience of the EU Electricity System in support to REPowerEU”.

TOP 9. RDIC Work Programme 2023

The Chair, with support of Secretariat, summarises the outcome of the RDIC Strategy Workshop 2022. The Chair highlights the need of resource planning and TSOs' engagement to deliver the planned activities for the RDI Roadmap implementation.

Decision:

- The RDIC welcomes the outcomes of the RDIC Strategy Workshop 2022 and the draft of the RDIC Work Programme 2023.

BLOCK 3: WORKING GROUPS

TOP 10. WG5 Digital & Communication

The Convenor of WG5 outlines the WG structure and approach aligned with the WG5 members to tackle Flagship 6 priorities endorsed by RDIC at the 61st Committee meeting. As part of this structure, he stresses covering the Digitalisation Energy Strategy and Action Plan (DESAP). Considering the magnitude of the DESAP, he invites RDIC members to reconsider the nomination of additional experts to WG5.

Decision:

- The RDIC takes note and welcomes the new WG5 structure as it targets key milestones of Flagship 6
- The RDIC takes note of the current TSOs involved in the dedicated task force on digital twin for the development of the Digitalising the energy system -EU Action Plan (DESAP).
- The RDIC endorses the work assumptions by WG5 and supports its preparedness approach concerning the digital twin, part of the DESAP.
- The RDIC supports the WG5 is part of the SOC/ICTC cross-Committee experts' group on cyber security and resilience.

TOP 11. WG4 Future of energy system

The Convenor of WG4 presents the status of the ongoing workstreams, particularly the ongoing work on Heavy-Duty Vehicle Electrification and the follow-up work on the Power-Heat Integration Paper about communicating the results of the study. Furthermore, the Convenor informs about the ENTSO-E's engagement with the Electromobility Platform and the status of relevant cross - committee work on sector coupling.

Decisions:

- The RDIC takes note of the progress and next steps on the Paper on Heavy Duty Vehicles Electrification.
- The RDIC takes note of the approval process and next steps for the "Power and Heat sectors: Interactions and Synergies" study.
- The RDIC takes note of the updates from the Electromobility Platform and on Cross-Committees' activities related to Roadmap Flagship 1 and 2.

TOP 12. WG3 Flexibility and Markets

The Secretariat presents the work status on flexibility need assessment, prepared with System Development Committee experts and discusses the next steps. The Secretariat informs about the organisation of a public workshop in collaboration with relevant stakeholders following the publication of the flexibility from the hydrogen study.

Decisions:

- The RDIC takes note of the current status and progress in the development of the “Flexibility need assessment” work.
- The RDIC takes note of planned public webinar following up the “Flexibility from Hydrogen” study.

TOP 13. WG2 Security and Operations of tomorrow

The Convenor of WG2 introduces the successful main outcomes and figures of 23 November on stability management in PE-dominated systems. Also, he informs the RDIC members about the ongoing work regarding relevant internal cooperation with the Steering Group on Connection Network Codes and the preparedness towards the upcoming funding opportunities covering stability management. Lastly, he updates the RDIC members on the good progress achieved by project team modelling and simulation tools for analysing current and new stability phenomena in power electronic-dominated systems, including the programmed next steps.

Decision:

- The RDIC takes note of the WG2 activities, including the recent successful external and internal stakeholder interactions related to the Stability Management in the PEIDS Workstream.

TOP 14. WG1 Assets and Technologies

The Secretariat informs RDIC members about the ongoing work covering the CO₂ footprint on TSOs business, underlying the importance of participating in the online survey launched on 10 November. Moreover, the Secretariat updates the RDIC members on the two main activities around the SF₆ workstream: recast F-gas regulation and preparedness on the upcoming funding opportunity related to SF₆-free equipment, for which the preliminary deadline for submitting proposals is the end of Q1 2023. Furthermore, the Secretariat updates the RDIC members on the authorisation process’s last developments for Lead (Pb) in high-voltage cables and the publication of the joint report with Europacable. Lastly, the Secretariat stresses the upcoming funding opportunity covering high-power cable systems.

Decisions:

- The RDIC acknowledges the proposed next steps on the CO₂ footprint in the TSO business and encourage all TSOs to submit their responses to the online survey sent on 2 December.
- The RDIC takes note of the status of the approval process of the recast F-gas Regulation in European Parliament.
- The RDIC takes note of the developments, under WG1, for the upcoming Horizon Europe call on SF₆-free technology (incl. DC breaker, GIS in VSC) and requires alignment through TF DIC.
- The RDIC takes note of the developments, under WG1, for the upcoming Horizon Europe call on HVAC, HVDC and High-Power cable systems.

TOP 15. TF Demonstration and Innovation Coordination

The Convenor of TF DIC presents the main outcomes of Multilateral Funding Program study. He also presents the last updates on Horizon Europe Calls and on Inter-TSOs project.

Decisions:

- The RDIC acknowledges the finalization of European Multilateral Funding Programme and approves the distribution of deliverables to all TSOs.
- The RDIC takes note of the progress with Horizon Europe calls coordination by RDIC group: TF DIC, workstreams within Thematic WGs.
- The RDIC takes note of the progress of Inter-TSO project proposal and initiation of the framework by TF DIC and interested TSOs.

TOP 16. WG RDIP

The Convenor of WG RDI Planning provides a status of the RDI Monitoring Report 2022 and the next steps before the publication of the Report – expected in early 2023. The Convenor introduces a new workstreams to the RDIC which aims to develop the next update of the RDI Roadmap. The importance of involving all thematic WGs of RDIC is highlighted, likewise the need for cooperation with other Committees and main external stakeholders of ENTSO-E in order to be able to provide a document, that adapts to the new trends, EU ambitions and TSO needs, thus identifying the RDI milestones for the period of 2024-2034.

Decisions:

- The RDIC acknowledges the final steps for RDI Monitoring Report 2022.
- The RDIC approves the workplan of WG RDIP for 2023 in relation with the update of the RDI Roadmap 2020-2030.

BLOCK 4: INTER TSO-PROJECTS & DISSEMINATION

Top 17. Dissemination & Communication

The Secretariat provides an update on the upcoming communication opportunities related to RDI topics for Q4 2022, including a recap of the internal webinars throughout the year, and a highlight of potential RDI topics provided earlier by the TSOs for dissemination.

Decision:

- The RDIC acknowledges the upcoming events related to the activities of the Committee.

BLOCK 5: AoB & APPROVAL OF DECISIONS

TOP 18. Any other business

The Secretariat presents the update of the TEIAS Observer Membership Agreement. The Secretariat suggests enabling TEIAS to follow activities of TF DIC and WG RDIP as default option. The RDIC members discuss that TEIAS can also follow other working groups if specifically requested.

Decision:

- The RDIC agrees to update the list of groups included in Annex I of the Observer Membership Agreement with TEIAS - consisting of the List of Entities to which TEIAS is entitled to appoint a representative (with no voting rights) - as follows:
 - Under Table B:
 - add the Task Force Demonstration, Innovation, Coordination (TF DIC)
 - include the WG Research Development & Innovation Plan
 - delete the WG on Standardisation

TOPIC 19. Approval of the decisions

The Secretariat reviews and presents to RDIC members the draft of decisions and minutes.

Decision:

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