

61st Research, Development and Innovation Committee Meeting

Date: 4 May 2022

Time: 08:50 – 15:30h

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.	Elia	Belgium
4.	Fingrid	Finland
5.	IPTO	Greece
6.	Mavir	Hungary
7.	MEPSO	Republic of North Macedonia
8.	PSE	Poland
9.	REN	Portugal
10.	Seps	Slovakia
11.	Statnett	Norway
12.	TenneT TSO BV	The Netherlands
13.	TenneT TSO GmbH	Germany
14.	Terna	Italy
15.	Transelectrica	Romania

Substitutes

16.	Ceps	Czech Republic
17.	Eirgrid	Ireland
18.	Energinet	Denmark
19.	Litgrid	Lithuania
20.	REE	Spain
21.	RTE	France
22.	Seps	Slovakia
23.	SONI	Ireland
24.	Svenska Kraftnät	Sweden
25.	Terna	Italy

Conveners WGs

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

Excused

1.	50Hertz Transmission	Germany
2.	AS Augstsprieguma tīkls	Latvia
3.	CGES	Montenegro
4.	Elering	Estonia
5.	Eles	Slovenia
6.	EMS	Serbia
7.	HOPS	Croatia
8.	OST	Albania
9.	Swissgrid	Switzerland
10.	TransnetBW	Germany

Secretariat

1.	ENTSO-E	Belgium
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BLOCK 1: RDIC ADMINISTRATION

TOP 1. Attendance quorum

The Chair welcomes all participants to this 61st RDIC meeting via teleconference. The RDIC Chair welcomes new RDIC members and confirms that participants can formally cast their vote via teleconference on decisions proposed during the meeting.

Decisions proposal:

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

TOP 2. Need for acceleration in implementation/Repower EU

The RDIC Chair underlines the Russian aggression and war against Ukraine, which brings new challenges and drivers for accelerated developments and innovations deployments to the European energy system. The Chair highlights that fossil fuel import reductions from Russia, which calls in addition to diversification of supply sources also for the acceleration of innovation implementation actions, proposed as well by ENTSO-E/RDIC. This will be in line and will facilitate the actions of Repower EU.

Decisions proposal:

- N/A

TOP 3. 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 work plan topics for 2022 and areas at risk. The Secretariat also introduces upcoming events, the RDIC budget plan and status for 2022.

Decisions proposal:

- 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 4. Governance RDIC

The Chair presents the applications for the convenorship of WG1 and WG2. The new Convenors introduce themselves. The Chair announces the call to replace the Convenor of WG3, as the current Convenor requested this change due to the changing of his position inside the company. The current WG3 Convenor plans to continue his mandate and lead the Working Group activities until a new replacement will be appointed.

Decisions proposal:

- The RDIC elects the Convenors of WG1 and WG2 who will assume the function for a two-years mandate.
- The RDIC updates the members on the future change of WG3 Convenorship.

BLOCK 2: STRATEGY TOPICS

TOP 5. Report from Board meeting 10 March 2022 and Assembly 31 March 2022

The Chair presents the highlights and outcomes of the Board meeting on 10 March and 28 April 2022 and Assembly on 31 March 2022.

Decisions proposal:

- The RDIC takes note of the discussion on the Board and Assembly meetings in March/April 2022.

TOP 6. Flexibility Framework

The Convenor of WG3 presents the outcome of RDIC-SDC workshop on flexibility, highlighting the complex challenge of flexibility with its various dimensions such as different timeframes, different needs, diverse generation portfolio and varying development of demand-side flexibility solutions in member's countries. The Convenor of WG3 concludes by presenting the next steps including a collaboration with SDC on a first discussion paper focused on flexibility need identification.

Decisions proposal:

- The RDIC takes note of the positive outcome of the SDC-RDIC workshop and of the progress in the development of the flexibility framework for need assessment.
- The RDIC acknowledges WG3 progress in the development of the new Workstream "Need and value for flexibility" planned for 2022-23.

TOP 7. Digitalisation of Energy Action Plan

The Chair and Secretariat welcome the invited speakers from DG ENER, B5 Unit. The speaker presents the areas of Digitalisation of Energy Action plan and underlines the timeline and high-level aims of each area. The speaker discusses in more detail the areas focused on developing a European data-sharing infrastructure and the promoting investments. The speaker and RDIC members discuss the on Digital Twin concept. It was highlighted, that within this action the Digital Twin term has a wide definition with an overall aim to trigger integrated TSO/DSO planning, adequacy assessment, demand side flexibility access to markets. As such, the energy system is acting as enabler of the energy transition.

The speaker highlights the RePowerEU communication and actions to be issued on 18 May. There is a need that in addition to usual focus on RES production, the network and smart grid initiatives should be underlined. The speaker calls RDIC members to provide input for digital development needs of TSO and DSO, which would be later addressed via HorizonEurope or other programmes for implementation. It is expected, that TSOs could take lead in providing bottom-up and scoping for areas to be addressed.

Decisions proposal:

- The RDIC acknowledges the update on the Digitalisation of the Energy Action Plan.
- The RDIC acknowledges the meeting on 25 May 2022 called by EC involving CEER, ENTSO-E, EU DSO entity.

TOP 8. Innovation Uptake Through Regulation

The Convenor of the WG Economic Framework presents the updated draft position paper on Innovation Uptake through Regulation. He particularly highlights the changes made to the draft since it was first shared with Committees in January-February 2022. These changes, which include an improved document structure and additions to the recommended regulatory toolbox to support innovations in a holistic manner, bring additional clarity to both the scope and aim of the paper.

Once approved by Committee members via Written Voting Procedure, the paper will support ENTSO-E in upcoming discussions with policymakers and stakeholders on the deployment of digital and innovative solutions including for the next planned interactions in 2022 Infrastructure Forum and Innogrid.

The RDIC Chair and the Secretariat thank all members for reviewing the draft paper and submitting comments, which will be duly considered before the paper is sent for joint Written Voting Procedure.

Decisions proposal:

- The RDIC takes note of the advancement and updates regarding the Innovation Uptake Through Regulation Position Paper.
- The Drafting Team Innovation (composed of WG EF and RDIC members) is to launch the draft position paper on Innovation Uptake through Regulation for cross-committee approval.

TOP 9. Coordination of project H2020/HE calls

The Convenor of TF DIC presents the survey results and feedback received from TSOs on Horizon Europe programme (2023-2024) and indicates the most interested calls voted by TSOs and the Thematic Working Groups. The RDIC requests Thematic Working Groups to initiate the respective workstreams with all RDIC members invited to ensure coordination of TSOs in the implementation of RDI Roadmap via targeted calls.

Decisions proposal:

- The RDIC takes note of the upcoming Horizon Europe programme (2023-2024) and invites TSOs' to ensure coordination and delivery of RDI Roadmap in answering these calls.

TOP 10. Vision 2050 Project

The Secretariat representative updates the RDIC members on the status of the work of the 2050 Vision Project. The Internal Position Paper "ENTSO-E Vision: a power system for a carbon-neutral Europe" has been circulated for Committees comments. The RDIC representative in the 2050 Vision Project Team reminds the RDIC input. The RDIC Chair invites the Project Team to better highlight in the paper the most urgent actions necessary in the coming 5-10 years to speed-up the energy transition.

Decisions proposal:

- The RDIC welcomes the Draft Internal Position Paper "ENTSO-E VISION: A Power System for a Carbon Neutral Europe" and acknowledges the upcoming process steps.

TOP 11. ICT Committee implementation

The Secretariat representative from the ICT Committee implementation team updates the RDIC members on the accomplished and upcoming milestones from today until the first ICT Committee meeting. The representative presents updated timeline and inputs collected from all the Thematic Working Groups. She discusses with RDIC members an initial analysis and guidelines on how the RDIC is expected to liaise with the new ICT Committee in future.

Decisions proposal:

- The RDIC takes notes on the ICT Committee timeline for Q2/Q3 2022 and status.

BLOCK 3: WORKING GROUPS

TOP 12. TF Demonstration and Innovation Coordination

The Convenor of TF DIC informs the RDIC members about the three inter-TSO projects proposed and asks for the feedback and expression of interest. There are also three projects proposed as part of the HE program 2024-2025. The Convenor of TF DIC informs that new proposals for the Horizon Europe calls should be submitted to TF DIC before 31 May 2022.

Decisions proposal:

- The RDIC congratulates successful TSOs' participation in Horizon Europe calls in 2022.
- The RDIC takes note of the TF Demonstration and Innovation Coordination work progress.

TOP 13. WG5 Digital & Communication

The Convenor of WG5 presents the highlights from the survey on the Vendor-Independent Solutions for Control Centres results. Furthermore, the 6 milestones prioritised by the WG5 members, and the expertise needed to work on them are emphasised.

Decisions proposal:

- The RDIC takes note of the survey results from the Vendor-Independent Solutions for Control Centres and proposed next steps.
- The RDIC agrees to prioritise the work of WG5 on the proposed six milestones of Flagship 6.
- The RDIC tasks the ENTSO-E Secretariat to launch the call for nominations for WG5.

TOP 14. WG3 Flexibility and Markets

The Secretariat updates the RDIC members on the status of the Power-to-Hydrogen study including the positive outcome of written voting procedure. The RDIC Chair and the Secretariat thank all members for submitting remarks and comments, which have been duly considered. The Secretariat highlights that the alignment of key messages coming out of Flexibility from Power-to-Hydrogen study was completed. The RDIC representative requests the Project Team to highlight in the study the inherent capability of electrolyser to provide Inertia service and to follow up with the proposed approval process.

Decisions proposal:

- The RDIC takes note of the Executive summary and the results presented from the Power-to-Hydrogen study.
- The RDIC acknowledges the next steps proposed by WG3 towards the publication of the Power-to-Hydrogen study and its approval by the Board and by the Assembly.

TOP 15. WG2 Security and system operation of tomorrow

The Convenor of WG2 updates the RDIC members on the latest developments covering Flagships 4 and 5. A specific focus was made on the recent and future actions on the high-level communication paper. Lastly, the 'Models and simulation tools to handle new stability phenomena' described in the PID endorsed by all relevant ENTSO-E Committees is proposed to launch the call for nomination for experts.

Decisions proposal:

- The RDIC takes note of the WG2 Flagship 4 activities.
- The RDIC takes note of the WG2 Flagship 5 activities.
- The RDIC approves the short version of the High-Level communication paper “Stability Management in Power Electronics Dominated Systems (PEDS)”.

Top 16. WG1 Assets and Technologies

The TF leader on space-based services for smart-grid and electricity grid maintenance & operations presents the first results from the SatNetMonitor pilot project. Moreover, after submitting the Socio-Economic Analysis, an overview of the upcoming steps in the Authorisation Process is explained. In parallel, an update on the cooperation with Europacable and the current status of the 19 May workshop is provided by the TF HV cables leader. Finally, the WG1 Convenor, TF SF6 and AGAS leader raise awareness of the initial concerns on the recast F-Gas Regulation released by the EC on 5 April and the steps to be taken to convey them to the appropriate authorities and stakeholders properly.

Decisions proposal:

- The RDIC takes note of the projects progress for space-based services for smart-grid and electricity grid maintenance & operations.
- The RDIC takes note of the updates on the public consultation, part of the Authorisation Process, for listing lead (Pb) in cables in the Authorisation List of Annex XIV of the REACH Regulation and the current status of the cooperation with the cable manufacturers.
- The RDIC approves contacting the remaining stakeholders involved in the Authorisation List and presenting the ENTSO-E Position Paper for the use of internal lead sheathing in power cables.
- The RDIC approves the preparation of an ENTSO-E position on F-Gas Regulation and the participation to the ongoing feedback to the European Commission.

TOP 17. WG RDIP

The WG RDIP Convener presents the current status of the RDI Monitoring Report 2022, including the fact that the first draft of the document is ready. Furthermore, the Convenor thanks all members of RDIC for their contribution to the survey launched to gather all current TSO RDI projects, based on which the coverage assessment of the RDI planning and the actual TSO implementation activities is underway and will serve as the main feature of the report.

Decisions proposal:

- The RDIC acknowledges the status of the RDI Monitoring Report 2022 and welcomes the fact that the projects gathered through a survey provide a comprehensive overview of the RDI activities of the TSOs.

TOP 18. WG4 Future of energy system

The Convenor of WG4 presents the finding of the Power to Heat position paper. The Convenor discusses with RDIC Members the next steps for stakeholders' engagement and paper approval timeline. The Convenor presents the outlines and development timeline of the planned Study on technical and economic conditions of the electrification of Heavy-Duty Vehicles and its impact on the Power System.

Decisions proposal:

- The RDIC approves the key findings, the key recommendations, and the planned next steps towards the publication of the P2Heat paper and its approval by the Board.

- The RDIC takes note of the new workstream on the “study of technical and economic conditions of the electrification of Heavy-Duty Vehicles and its impact on the Power System”, planned for 2022-2023.

BLOCK 4: INTER TSO-PROJECTS & DISSEMINATION

Top 19. Dissemination & Communication

The Secretariat presents the upcoming RDI-related communication opportunities, highlighting mostly the InnoGrid 2022 event, which is going to take place on 14 June (online session for projects) and 29 June (hybrid policy session). The Secretariat also presents the next Grid Forum workshop of the Horizon2020 project OneNet, putting the topic of TSO-DSO-Customer interoperability into the spotlight.

Decisions proposal:

- The RDIC acknowledges the agenda of the InnoGrid event 2022: 14 June (online) dedicated to RDI projects and 29 June (hybrid) organised as policy session.

BLOCK 5: AoB & APPROVAL OF DECISIONS

TOP 20. Any other business

The Chair and RDIC Members discuss the arrangement of the RDIC Convenors online meeting on 1 June 2022. The RDIC discusses the arrangement of next RDIC meetings which are intended to be physical or hybrid.

Decision proposal:

- The Chair informs RDIC of the organisation of a meeting on 1 June 2022 with RDIC Convenors to discuss priorities and organisation of the RDIC.

TOPIC 21. Approval of the decisions

Decision proposal:

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