

## 66<sup>th</sup> Research, Development and Innovation Committee Meeting

**Date:** 26 April 2023

**Time:** 09:00 – 15:00h

**Place:** ENTSO-E Office – Rue de Spa 8, 1000 Brussels  
Meeting room FARADAY – 3<sup>rd</sup> floor  
Web conference on TEAMS

### Participants (*physical*)

#### *Members*

1.	Amprion	Germany
2.	Ceps	Czech Republic
3.	MEPSO	Republic of North Macedonia
4.	PSE	Poland
5.	REN	Portugal
6.	Statnett	Norway
7.	Svenska Kraftnät	Sweden
8.	Terna	Italy
9.	TenneT TSO GmbH	Germany

#### *Substitutes*

10.	EirGrid	Ireland
11.	Energinet	Denmark
12.	<i>Amprion</i>	<i>Germany</i>
13.	SONI	Northern Ireland
14.	<i>Svenska Kraftnät</i>	<i>Sweden</i>

#### *Conveners WGs*

1.	WG 2 Security and Operations of tomorrow	Germany
2.	WG 5 Digital and Communication	Czech Republic
3.	WG 3 Flexibility and Markets	Ireland
4.	WG1 Assets and Technologies	Norway

#### *Special invitees*

1.	EU Commission – Policy Officer Directorate-General for Energy Unit B5 – Innovation, Research, Digitalisation, Competitiveness	Belgium
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**Secretariat**

	ENTSO-E	
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**Excused**

1.	50Hertz Transmission	Germany
2.	CGES	Montenegro
3.	Eles	Slovenia
4.	Seps	Slovakia
5.	OST	Albania

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## Participants (*remote*)

**Chairman**

|  |          |        |
|--|----------|--------|
|  | Statnett | Norway |
|--|----------|--------|

**Vice Chairman**

|  |      |          |
|--|------|----------|
|  | Eles | Slovenia |
|--|------|----------|

**Members**

|     |                         |                 |
|-----|-------------------------|-----------------|
| 15. | APG                     | Austria         |
| 16. | AS Augstsprieguma tikls | Latvia          |
| 17. | Transelectrica          | Romania         |
| 18. | Swissgrid               | Switzerland     |
| 19. | Elering                 | Estonia         |
| 20. | Elia                    | Belgium         |
| 21. | FinGrid                 | Finland         |
| 22. | HOPS                    | Croatia         |
| 23. | IPTO                    | Greece          |
| 24. | REE                     | Spain           |
| 25. | RTE                     | France          |
| 26. | EMS                     | Serbia          |
| 27. | Litgrid                 | Lithuania       |
| 28. | Mavir                   | Hungary         |
| 29. | TenneT TSO BV           | The Netherlands |
| 30. | TransnetBW              | Germany         |

**Substitutes**

|     |              |                |
|-----|--------------|----------------|
| 31. | <i>PSE</i>   | <i>Poland</i>  |
| 32. | <i>Terna</i> | <i>Italy</i>   |
| 33. | Seps         | Slovakia       |
| 34. | <i>Mavir</i> | <i>Hungary</i> |

**Conveners WGs**

|    |                                                           |          |
|----|-----------------------------------------------------------|----------|
| 1. | WG Research Development and Innovation Planning (WG RDIP) | Portugal |
| 2. | WG 4 Future of energy systems                             | Italy    |
| 3. | WG1 Assets and Technologies – Vice-Convener               | Spain    |
| 4. | TF DIC                                                    | France   |

**Special invitees**

|    |     |         |
|----|-----|---------|
| 1. | PCG | Belgium |
|----|-----|---------|

**Secretariat**

|  |         |  |
|--|---------|--|
|  | ENTSO-E |  |
|--|---------|--|

**BLOCK 1: RDIC ADMINISTRATION**

**TOP 1. Welcome and Attendance quorum**

The RDIC Chair connects online as he is not able to participate physically in the meeting, as originally planned.

The Chair welcomes all participants to this 66<sup>th</sup> RDIC meeting organised as a hybrid meeting, taking place at ENTSO-E office in Brussels and as web conference.

**Topic point:**

- Confirmation and welcome of participants

**Decisions proposal:**

- 28 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 2023**

The RDIC approves the draft agenda. The Head of Innovation Section presents the RDIC Dashboard 2023 supported by the Secretariat.

**Topic point:**

- RDIC Dashboard and Budget 2023

**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 2023 budget status.

**TOP 3. RDIC Work Programme 2023**

The Head of Innovation Section presents the status of implementation of the RDIC Work Programme 2023 supported by the Secretariat.

**Topic point:**

- RDIC Work Programme 2023 - status

**Decisions proposal:**

- The RDIC takes note of the regular update on the RDIC Work Plan 2023 and its implementation.

**TOP 4. RDIC Budget and Resource Planning for 2024**

The ENTSO-E Secretariat presents the RDIC Budget and Resource Planning for 2024 according to the planned needs for 2024 and with a 5-year ahead planning view.

**Topic point:**

- RDIC Initial Budget Proposal
- RDIC Resource Planning

**Decisions proposal:**

- The RDIC takes note of the preparations for the RDIC Initial Budget Proposal for 2024 and approves the RDIC Initial Budget Proposal for 2024
- The RDIC takes note of the preparations for the RDIC Resource Planning for 2024

**TOP 5. Report from Board Strategy Workshop and Meeting on 1-2 March 2023 and Assembly Meeting on 30 March 2023**

The RDIC Chair reports on the topics discussed during the Board Strategy Workshop and Meeting on 1-2 March 2023 and the Assembly Meeting on 30 March 2023.

**Topic point:**

- Report from Board Strategy Workshop and Meeting on 1-2 March 2023 and Assembly Meeting on 30 March 2023

**Decisions proposal:**

n/a

**TOP 6. Overview Vision Implementation Programme**

The overview of the Vision Implementation Programme is presented by Head of Innovation Section.

**Topic point:**

- Overview Vision Implementation Programme

**Decisions proposal:**

n/a

**TOP 7. Governance RDIC**

The RDIC Chair and the Head of Innovation Section announce and welcome the result of the election of the new RDIC Chair as from July 2023. In the RDIC meeting of 15 June 2023 the election of the new RDIC Vice-Chair will take place.

**Topic point:**

- RDIC Vice-chair elected as new RDIC Chair
- Election of the new RDIC Vice-chair in the RDIC meeting on 15 June

**Decisions proposal:**

- The RDIC takes note of the communication related to the elections

## BLOCK 2: STRATEGY TOPICS

### TOP 8. Net Zero Industrial Act

The RDIC Chair welcomes and introduces the speaker by the EU Commission – DG ENER and the PCG representative speaker. They present different aspects and implications of the Net Zero Industrial Act. The WG1 Convener leads the discussion of the Committee on the net zero grid technologies.

**Topic point:**

- Introduction to the NZIA
- Policy analysis of the NZIA
- Strategy discussion

**Decisions proposal:**

- The RDIC welcomes the Net Zero Industry Act unveiled on 16 March 2023 by the European Commission as part of the Green Deal Industrial Plan Communication on 1 February 2023
- The RDIC acknowledges that Net Zero Industry Act in its Annex defines the strategic net-zero technologies, among which 'grid technologies' have been identified.

### TOP 9. Digitalising the Energy System - EU action plan

The Vice-Chair of RDIC and Secretariat present the developments of Digitalising the Energy System - EU Action Plan. The Vice-Chair debriefs the organisational structure of the Joint Task Force with the EU DSO Entity and outlines the methodology - still under proposal - which will aim at addressing the content-related discussion around the Digital Twin.

The Secretariat initiates the discussion on the related Grant for Identified Beneficiaries and the participation of ENTSO-E.

The Secretariat also outlines the ongoing developments towards the approval of the Terms of Reference document for the Joint Task Force with the EU DSO Entity in the context of the Digitalising the Energy System – EU Action Plan.

**Topic point:**

- Organisation - SPOCs
- Common methodology for the Digital Twin
- Grant to Identified Beneficiaries' participation of ENTSO-E
- Joint TF ENTSO-E EU DSO Terms of References – Review Outcome and Approval

**Decisions proposal:**

- The RDIC acknowledges the progress of the Joint Task Force ENTSO-E EU DSO Entity and ongoing developments

- The RDIC supports the proposed internal matrix structure for ENTSO-E representation towards Joint Task Force and requests ensuring representation from other Committees
- The RDIC supports the proposed methodology to frame the scoping of work of the Joint Task Force
- The RDIC takes note of the progress and development of the Joint Task Force Terms of Reference
- The RDIC takes note of the developments regarding the Grant for Identified Beneficiaries

#### **TOP 10. Electricity Market Design Reform – updates and RDIC work impact**

The Secretariat presents its updates on the Electricity Market Design Reform, especially illustrating the assessment and priorities, and indicating the positive elements and the elements of concern.

**Topic point:**

- Updates and RDIC work impact

**Decisions proposal:**

n/a

#### **TOP 11. ENTSO-E Technopedia**

The Convener presents the progress on ENTSO-E Technopedia.

**Topic point:**

- Requirements
- Draft Components

**Decisions proposal:**

- The RDIC takes note of the progress with ENTSO-E Technopedia requirements and drafts for updates.

### **BLOCK 3: WORKING GROUPS**

#### **TOP 12. Dissemination & Communication**

The Secretariat presents the full agenda of the InnoGrid 2023 policy session that takes place on 14 June 2023 in Brussels. The event will focus on the main topics of Electrification, Digitalisation and Cooperation with high-level representatives from the European Commission and other key stakeholders. Furthermore, the Secretariat provides a list of events and webinars related to the RDIC for the rest of 2023.

**Topic point:**

- InnoGrid 2023
- Plan of RDI events 2023

**Decisions proposal:**

- The RDIC takes note of the draft agenda of InnoGrid 2023
- The RDIC acknowledges the plan of RDI-related events for 2023

## BLOCK 4: INTER TSO-PROJECTS & DISSEMINATION

### TOP 13. WG1 Assets and Technologies

The Convener updates RDIC members on the initial technical and risks assessments on SF6-free solutions for HV and EHV identified, as well as the ongoing work covering Flagship 4 milestones on HVDC technology and materials.

#### Topic point:

##### Flagship 3:

- SF6-free: Follow up on 65th RDIC meeting discussions and assess the new technical developments

##### Flagship 4:

- Approach for the HORIZON-CL5-2024-D3-01-15 call on HVAC, HVDC and High-Power cable systems

#### Decisions proposal:

- The RDIC acknowledges the technical and risks assessments on SF6-free solutions for HV and EHV identified by WG1 Assets and Technologies
- The RDIC takes note of the WG1 activities on Flagship 4

### TOP 14. WG2 Security and Operations of Tomorrow

The Convener updates RDIC members on Flagship 4 activities (outcomes of READY4DC deliverable D3.1) and Flagship 5 developments including planned next steps with external stakeholder interactions, progress on two identified Horizon Europe calls covering the Stability Management workstream and status of the Project modelling and simulations.

#### Topic point:

##### Flagship 4

- READY4DC early findings (status update) and deliverables

##### Flagship 5

- Stability Management Workstream status:
  - Outcome of the external stakeholder interaction: meeting with G-PST
  - Horizon call progress update
  - Project Modelling and Simulation tools, summary of Task 3 review and status update
- WG2 workshop on 16 May in Brussels: “Future workstreams and current status of the ongoing ones”

#### Decisions proposal:

- The RDIC acknowledges the progress of activities in WG2
- The RDIC takes note of the outcomes of READY4DC deliverable D3.1 and supports it
- The RDIC takes note of the outcomes and next steps on external stakeholder interaction with G-PST
- The RDIC takes note of the ongoing activities related to the two identified Horizon Europe calls related to the Stability Management workstream
- The RDIC takes note of the progress of the Project modelling and simulations and the upcoming approval of the Task 3 Interim Report as well as the recent initiation of the last project task, Task 4
- The RDIC takes note of the upcoming physical internal (ENTSO-E only) WG2 workshop on 16 May

### **TOP 15. WG3 Flexibility and Markets**

The Convener updates RDIC members on Flagship 1 activities and developments on Flexibility Need Assessment.

**Topic point:**

**Flagship 1:**

- Flexibility Need Assessment – Status update on
  - Project Scope - ENTSO-E's Flexibility Need Assessment including key highlights from the EC legislative proposal on market design specifically the role of ENTSO-E on flexibility needs assessment
  - Key takeaways from Penta Flex study (linked to flexibility needs assessment)

**Decisions proposal:**

- The RDIC takes note of the progress of the ENTSO-E's project development on Flexibility Needs Assessment

### **TOP 16. WG5 Digital & Communication**

The Convener presents the so-far use cases identified covering the Declaration of Intent. Besides, the Convener provides a comprehensive view of how Task Forces distinguish between applications/solutions from backbone systems.

**Topic point:**

**Flagship 6:**

- Contribution to DESAP: Initial identified relevant use cases focused on Flagship 6 milestones
- WG5 domains: distinguishing applications/solutions from backbone systems

**Decisions proposal:**

- The RDIC takes note of the WG5 developments

### **Top 17. TF Demonstration and Innovation Coordination**

The Convener presents the Horizon Europe Calls – Projects submitted in March 2023 under the RDIC coordination by TF-DIC & WGs. The Convener also presents topics for 2025-2027 HE work programme (deadlines and next steps).

**Topic point:**

- HE Calls Coordination/Status
- Inter-TSO projects – Status

**Decisions proposal:**

- The RDIC takes note of the progress and finalization of the Horizon Europe calls coordinated by TF DIC and Thematic WGs
- The RDIC acknowledges the need for coordination between TF DIC and WGs to propose new fundings to EU for the 2025-2027 HE work programme
- The RDIC takes note of the progress of Inter-TSO project proposal and framework developed by TF DIC and interested TSOs



#### **Top 18. WG RDIP**

The WG Convener presents the timeline and framework of the RDI Roadmap update. The Convener highlights the next steps and the importance of involving the thematic working groups of RDIC in order to develop the RDI Roadmap 2024-2034. The Convener reminds the RDIC that the RDI Monitoring Report was approved by the ENTSO-E General Assembly and will be published soon.

##### **Topic point:**

- RDI Roadmap 2024-2034 – work with thematic WGs, next steps & resources
- RDI Monitoring Report: Assembly approval & upcoming webinar

##### **Decisions proposal:**

- The RDIC acknowledges the publication RDI Monitoring Report 2022
- The RDIC welcomes the workplan related to the RDI Roadmap update and takes note of the ongoing work

#### **Top 19. WG4 Future of Energy Systems**

The Secretariat debriefs on the development of priority topics and ongoing activities from WG4 members. The Convener presents the main outcomes and take-aways from the study on Electrification of Heavy-Duty Vehicles, timeline, and further steps in the interest of the members on this topic.

##### **Topic point:**

##### **Flagships 1&2:**

- HDEV Study – Position Paper

##### **Decisions proposal:**

- The RDIC takes note of the progress of WG4 - Future of Energy System topic related to the Electrification of Heavy-Duty Vehicles and position paper

### **BLOCK 5: AoB & APPROVAL OF DECISIONSS**

#### **TOP 20. Any other business**

No further topics beyond the approved agenda were raised.

##### **Topic point:**

- AOB

##### **Decisions proposal:**

n\a

#### **TOPIC 21. Approval of the Decisions**

##### **Topic point:**

- Approval of the Decisions.

##### **Decisions proposal:**

- The RDIC approves the Decisions and draft minutes of the meeting. The RDIC Vice-Chair declares the meeting closed at 15.00