

## 51<sup>st</sup> Research, Development and Innovation Committee Meeting

Date: 21 April 2020  
 Time: 08.45 - 15.00  
 Place: Web-conference

### Participants

#### *Chairman*

	Statnett	Norway
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#### *Vice Chairman*

	Eles	Slovenia
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#### *Members*

1.	50Hertz Transmission	Germany
2.	Amprion	Germany
3.	AS Augstsprieguma tīkls	Latvia
4.	APG	Austria
5.	Ceps	Czech Republic
6.	Eirgrid	Ireland
7.	Elering	Estonia
8.	Eles	Slovenia
9.	Energinet.dk	Denmark
10.	Fingrid	Finland
11.	Litgrid	Lithuania
12.	PSE	Poland
13.	REN	Portugal
14.	RTE	France
15.	SONI	United Kingdom
16.	Statnett	Norway
17.	Svenska Kraftnät	Sweden
18.	Swissgrid	Switzerland
19.	TenneT TSO BV	The Netherlands
20.	TenneT TSO GmbH	Germany
21.	Terna	Italy
22.	TransnetBW	Germany

#### *Substitutes*

23.	Eles	Slovenia
24.	Elia System Operator	Belgium
25.	IPTO	Greece
26.	National Grid	United Kingdom

27.	OST	Albania
28.	REE	Spain
29.	Terna	Italy

### *Conveners WGs*

1.	WG Research Development and Innovation Planning (WG RDIP)	Norway
2.	WG 1 Power System Modernisation	Germany
3.	WG 2 Security and System Stability	Germany
4.	WG 3 Power System Flexibility	Greece
5.	WG 4 Future of energy systems	Italy
6.	WG 5 ICT and Digitalisation of Power System	Czech Republic

### *Special Invitee*

1.	Chairman of Digital committee	Italy
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### *Observer*

2.	Mavir	Hungary
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### *Secretariat*

1.	ENTSO-E	Belgium
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## Minutes

### BLOCK 1: RDIC STRATEGICAL TOPICS

#### TOP 1: Attendance, quorum

The Chair opens the meeting, welcomes and introduces the new members and checks the quorum.

#### **Decisions:**

- The RDIC confirms the meeting participants and welcomes to new members from Energinet.dk and REE.
- The RDIC confirms 27 out of 33 TSOs represented in the Research, Development and Innovation Committee attended. The RDIC is quorate.

#### TOP 2: Approval of draft agenda, draft Minutes of 13-02-20 and Dashboard

The ENTSO-E Secretariat gives status of RDIC Dashboard. RDIC Budget forecast for 2020 and 2021 is reviewed and discussed.

#### **Decisions:**

- The RDIC approves the agenda
- The RDIC approves the draft minutes of the RDIC meeting of 13 February 2020

## **TOP 3: Report from Board meeting 11-03 and Assembly meeting 26-03-2020**

The Chairman presents the discussion points and highlights received from the last ENTSO-E Board and Assembly meetings. The approval of the ENTSO-E RDI Strategy Paper and the approval of general messages and comments on ENTSO-E position paper on the reduction of SF6 emissions and introduction of alternative technologies.

### **Decisions:**

- The RDIC welcomes the approval of the ENTSO-E RDI Strategy Paper by the Board and General Assembly and requests to keep the alignment between it and the ENTSO-E RDI Roadmap 2020-2030.

## **TOP 4: RDI Roadmap 2020-2030 - Revised version of European Flagship clusters and validation of topics**

The Chair and the Vice-Chair open the discussion on RDI Flagships and milestones. The WG RDIP Convener with the support of Vice-Chair introduces the next steps planned, status and content of the RDI Roadmap 2020-2030. Each Flagship is presented and discussed in details and the comments from RDIC Members were collected. After the discussion, a questionnaire for TSOs on additional elements in support to related Flagships clusters is introduced and the RDIC members ask to provide their answers till 6 May 2020.

### **Decision:**

- The RDIC validates the 6 proposed flagship clusters and associated R&D&I topics and milestones.

## **TOP 5: Next steps for implementing the Roadmap/Flagship clusters**

The Chair with the support of Vice-Chair and ENTSO-E Secretariat presents the highlights drafted for the Roadmap/Flagship clusters next steps. The TRL levels of the Flagship project tasks, funding gaps and TSOs engagement needs and for the roadmap development and implementation were discussed. The timeline and relation between the RDI Roadmap, Implementation plan and Monitoring reports are underlined and the RDIC role for the implementation of the flagships is discussed. The need to agree on the roles and responsibilities between ENTSO-E Committees on the development and implementation of the Roadmap and Flagships are addressed.

### **Decisions:**

- The RDIC decides to engage with other ENTSO-E committees in implementing the flagships
- The RDIC decides to engage with EC timely for attracting the EU funds such as Horizon Europe and CEF to influence the calls 2021-2022.

## **TOP 6: ETIP SNET - enhanced view of RDI areas and flagships, incl. question & answers from RDIC**

The Chairman of ETIP SNET presents the role, status and scope of ETIP SNET and its deliverables. The publication of ETIP SNET Vision 2050, R&I Roadmap 2020-2030 are presented and the current developments on the ETIP SNET Implementation Plan 2021-2024 discussed. The ETIP SNET relation with EC and the possible impact on Horizon Europe program is overviewed and the importance for the ENTSO-E to participate in ETIP SNET activities is highlighted. The relation and alignment of ENTSO-E Flagship and ETIP SNET roadmap are briefly discussed.

## BLOCK 2: THEMATIC WORKING GROUPS

### TOP 7: WG2 Security and system operation of tomorrow

WG2 Convener presents the progress on Working Group's activities and how these activities match the current draft of RDI Flagships. The main activities of the WG and plans on the ENTSO-E Position Paper on Grid Forming Control, TSO-DSO Task Force on Smart Grid Indicators and RDIC-SDC cooperation for TYNDP dynamic challenges are presented. In addition, the WG2 Convener discuss with the RDIC members the "ENTSO-E Standardized control interface for HVDC SIL/HIL conformity tests" and the proposal of interoperability workstream for *the development of multi-vendor HVDC systems and other PEIDs*. The RDIC Members agree to present the paper *for the development of multi-vendor HVDC systems and other PEIDs* to the Board as information by the RDIC Chair. As a final point, the RDIC process scheme for RDIC-SOC cooperation on the project calls and results dissemination is presented for approval. The RDIC members suggest to generalise the process, that it would be equally applicable to other Committees and all type of R&D project calls.

#### Decisions:

- The RDIC approves the standard control interface for HVDC control for publication and for use in the next phases of the interoperability workstream.
- The RDIC approves the ENTSO-E workstream for the development of multi-vendor HVDC systems and other Power Electronics Interfaced Devices and asks WG2 to initiate the consultation of the workstream proposal with relevant stakeholders.
- The RDIC agrees that the paper for the development of multi-vendor HVDC systems and other Power Electronics Interfaced Devices will be presented to the Board as information by the RDIC Chair.
- The RDIC takes note of the cooperation scheme for RDIC-SOC on the project calls, results dissemination and request to expand the process to cover other Committees by presenting it in the Cross-committee workshop on 6 May 2020.

### TOP 8: WG 5 Digital & Communication

WG5 Convener presents the progress on Working Group's activities and how these activities match the current draft of RDI Flagships. The proposal to initiate a pilot project – in cooperation with Dc - on the Wide Area Monitoring Systems (WAMS) Data Exchange is introduced. The update on ENTSO-E Hackathon 2020 plan and impact of COVID-19 is discussed and agreed to postpone the event to a yet unknown date.

#### Decisions:

- The RDIC takes note and encourages WG5 to initiate a project on Wide Area Monitoring Systems (WAMS) Data Exchange, to seek cooperation with Dc and align with the new European flagship projects.
- The RDIC acknowledges the postponement of the Hackathon #2 and requests further update of new date as soon as WG5 has a new proposal.

### TOP 9: WG1 Assets and Technologies

The ENTSO-E Secretariat, as substitute of WG1 Convener, presents the progress on Working Group's activities and how these activities match the current draft of RDI Flagships. The amended *ENTSO-E position*

*paper on the reduction of SF6 emissions and introduction of alternative technologies* is presented and the additional changes to reduce the target level to 0.5% is discussed. It is agreed on the changes and WG1 is asked to distribute the final paper after the RDIC meeting. As next topics, the update and next steps on the cooperation with European Space Agency is presented. The WG1 planned workshops are announced. RDIC members are invited to support and join these initiatives via online survey. In addition, the status of Technology Factsheets development is presented and requested to initiate the procurement for the external support to finish the remaining open Technology Factsheets before July 2020 was made.

#### Decisions:

- The RDIC decides to amend ENTSO-E position paper on the reduction of SF6 emissions with “threshold below 0.5%” and introduction of alternative technologies and to send it again to RDIC Members and ask WG1 to go further with the provided communication plan.
- The RDIC approves the WG1 request to initiate the procurement for the external support to finish the remaining open Technology Factsheets before July 2020.

### TOP 10: WG4 Future of energy system

WG4 Convener presents the progress on Working Group’s activities and how these activities match the current draft of RDI Flagships. The WG4 organizational aspects and status are discussed. The WG4 Convener presents the request to the WG4 to support the organization of the EC-ENTSO-E Workshop/Webinar on Electromobility on 27 May 2020. The Chair indicates that additional time is needed to discuss the work scope planned of WG4 during the next RDIC meeting in June 2020.

#### Decisions:

- The RDIC mandates WG4 to organise the content, key messages and identify speakers for EC-ENTSO-E Workshop/Webinar on Electromobility organised on 27 May 2020.

### TOP 11: WG3 Flexibility and Economics

WG3 Convener presents the progress on Working Group’s activities and how these activities match the current draft of RDI Flagships. The ongoing activities on the dissemination of flexibility framework, analysis of R&D&I projects on TSO-DSO and DSF and flexibility needs survey are discussed.

#### Decisions:

- The RDIC approves the planned dissemination of the flexibility framework.
- The RDIC requests WG3 to contribute to the gap analysis on a network code for demand-side flexibility with its ongoing analysis of R&D&I projects.

## BLOCK 3: INTER TSO-PROJECTS & DISSEMINATION

### TOP 12: Dissemination & Communication

ENTSO-E Secretariat informs RDIC about the postpone of InnoGrid 2020 to 2021 due to the COVID-19. As an alternative solution, the ENTSO-E is discussing with E.DSO to arrange 2 digital InnoGrid webinars. As next topics, the planning of BNI webinars plan for 2020 is presented and the link with RDI Strategy and

Roadmap is discussed. The Chair presents the status of the cooperation with PCG regarding the development of RDI Strategy and Roadmap communication plan.

#### Decisions:

- The RDIC acknowledges the postponement of InnoGrid 2020 due to the pandemic of coronavirus and agrees that 2 webinars will be organised around 2 project sessions decided by ENTSO-E and EDSO4Smart Grids.
- The RDIC approves the agenda of Business Network for Innovation webinars, starting in June 2020, and 4 planned webinars throughout the year.

#### TOPIC 13: TSOs projects or consortium forming

The RDIC Member highlight the need for TSOs to cooperate on development of SF6 alternatives and initiate related project. Members are requested to indicate their interest. In addition, the ENTSO-E Secretariat inform the RDIC about an invitation received to join the consortium on Cybersecurity in the Electrical Power and Energy System (EPES) call: an armour against cyber and privacy attacks and data breaches. The RDIC Members are requested to show their interests in participating in the call. It is suggested to organise follow-up meeting to discuss both proposal with interested TSOs members and focus groups. Furthermore, the Secretariat informs about the winning of H2020 call TSO-DSO customer by the OneNet project where 14 TSOs and ENTSO-E participate.

#### Decisions:

- The RDIC requests to have content related discussions on projects in RDIC meetings which should be prepared in dedicated exchanges with interested TSOs in focus groups.
- The RDIC congratulates the partners (TSOs and ENTSO-E) involved in ONENET project proposal for successful application in the H2020 call TSO-DSO -Customer 2020.

### BLOCK 4: AOB AND APPROVAL OF DECISIONS

#### TOPIC 14: Any other business

The ENTSO-E Secretariat introduces the new ENTSO-E guidelines for publication of ENTSO-E Board, Assembly and Committee meeting minutes and decisions. In addition, the Secretariat indicates the need to update the RDIC Terms of Reference (ToR) to align with the ACTIVE 2020+ program of ENTSO-E. It is agreed to provide the right timeline after the meeting.

#### TOPIC 15: Approval of the decisions

The ENTSO-E Secretariat reviews the draft decisions of the 51<sup>th</sup> RDIC meeting. Comments from the RDIC members are collected and amendments were made.

#### Decision:

- The RDIC approves the decisions and request ENTSO-E to review them before making them public.