



**Research and Innovation activities
about energy storage integration in the electricity networks:
ongoing activities at national level and future needs**

Regional workshop (Belgium, France, The Netherlands)

EURATECHNOLOGIES, 165 Avenue de Bretagne, Lille (France)

25 and 26 November 2015

Background

This two-day workshop relates to the SET Plan activities within the Energy Union Framework.

The [Grid+Storage](#) service contract aims at providing the European Commission and the Member States with an upgraded version of the [Research and Innovation Roadmap for the electricity grids](#) as approved in 2013.

The novel features of this upgraded roadmap are three folds:

1. The roadmap will take into account an explicit description of Research and Innovation (R&I) activities recommended **about energy storage integration in the future electricity networks** (operations, maintenance, planning and market mechanisms) since energy storage is a way to increase the flexibility of the electricity system;
2. The roadmap upgrading process involves **the active participation of Member States**, by giving them the opportunity to show where and how public national funding addresses energy storage integration into grid activities: this contribution will reinforce the monitoring of national or regional Research and Innovation activities, thus helping to minimise the future risks of funding overlaps in EU28. And it will underline the role of the [ERA-Net Smart Grid Plus initiative](#) in catalysing more cooperative R&I activities between Member States.
3. The debates which are organised during nine “regional” workshops will favour the **involvement of national players in identifying needs for further research and innovation activities** at national and European level in order to accelerate the deployment of energy storage solutions throughout the electricity system.

This first workshop covers R&I activities in Belgium, France and The Netherlands: it is therefore a **unique opportunity to interact with network operators and energy storage stakeholders about the R&I results obtained so far, and the scope and contents of the future Research and Innovation roadmap**.

All stakeholders involved in R&I activities dealing with smart grids and energy storage integration in the power system are invited to attend this workshop. National R&I projects representatives are welcome to join a labelling process where the European added value of their activities will be identified jointly by the [ERA-Net Smart Grid Plus](#) and [Grid+Storage](#) teams.

Eight other regional workshops are scheduled throughout Europe until March 2016, in order to share knowledge and agree about the future Research and Innovation activities needed for the next ten years.



Program

25 November 2015

8:30 REGISTRATION and WELCOME COFFEE

9:30 Energy Policy framework and the new SET Plan organisation

Henrik Dam, Policy Officer New energy technologies and clean coal, DG ENER, European Commission

10:00 Introduction to the future integrated R&I activities on Grid + Storage, overall objective and background context

Eric Peirano, Grid+Storage Project Manager, TECHNOFI

10:30 The LINEAR project: energy flexibility by consumers (Belgium)

Pieter Vingerhoets, Project coordinator smart grids and ICT applications, KU Leuven

11h15 COFFEE BREAK

11:45 Second life battery application at the Pampus Island (The Netherlands)

Haike van de Vegte, Senior Consultant New Energy Technologies, DNV GL Energy

12:30 First round table (moderated by Serge Galant, Chairman of Grid+Storage Steering Board, TECHNOFI)

Interactions with the audience about

- lessons learnt by the projects presented during this session
- new knowledge needs to better integrate energy storage into the electricity system

13:00 LUNCH BREAK

14:30 The Grid+Storage road-mapping process

Eric Peirano, Grid+Storage Project Manager, TECHNOFI

14:45 The Smart Grid Knowledge Sharing Platform

Sophie Dourlens-Quaranta, Grid+Storage Stakeholder Consultation Coordinator, TECHNOFI

15:00 Preparing the deployment of innovative solutions: ERA-Net Smart Grids Plus

Iva Gianinoni, ERA-Net Smart Grids Plus Support Team, Italian Expert of ISGAN Annex 1&2, RSE

15:30 The smart substation project: ways and means to improve system flexibility and enhance storage integration into the power system (France)

Thierry Buhagiar, Project coordinator, RTE

16:15 COFFEE BREAK

16:45 The GREDOR project: Redesigning the decision chain for managing distribution networks (Belgium)

Damien Ernst, Professor, Holder of the EDF-Luminus Chair on Smart Grids, Université de Liège



17:30 **Second round table** (*moderated by Serge Galant, Chairman of Grid+Storage Steering Board, TECHNOFI*)

Interactions with the audience about

- lessons learnt by the projects presented during this session
- new knowledge needs to better integrate energy storage into the electricity system

18:00 **END OF FIRST DAY**

18:30 **NETWORKING COCKTAIL**

26 November 2015

9:00 **Introduction to the program of the day**

Eric Peirano, Grid+Storage Project Manager, TECHNOFI

9:15 **The VENTEEA project testing Li-ion battery integration (France)**

Didier Colin, VENTEEA Project Manager, ErDF

10:00 **AES Advancion Energy Storage Array (The Netherlands)**

Steve Corwell, AES Europe Vice President, The AES Corporation

10:45 **COFFEE BREAK**

11:15 **Third round table** (*moderated by Serge Galant, Chairman of Grid+Storage Steering Board, TECHNOFI*)

Interactions with the audience about the lessons learnt by the projects presented during this session and proposals about the new knowledge needs to better integrate energy storage into the electricity system

11:45 **Final round table** (*moderated by Serge Galant, Chairman of Grid+Storage Steering Board, TECHNOFI, with participation of projects representatives and members of EASE, EDSO and ENTSO-E*)

- Impacts of the new knowledge presented by the six projects onto the Grid and Storage roadmap
- Recommendations for future R&I activities and regional investments about grid and energy storage solutions
- Options for the tentative deployment plans of the described solutions and barriers to be overcome according to the ERA-Net Smart Grids Plus approach

12:45 **NETWORKING LUNCH**

15:00 **Optional activities:**

- Visit to the RTE smart substation's showroom
or
- Representatives of National Research and Innovation projects application for the labelling "European Added Value Inside" in direct with ERA-Net Smart Grids Plus Support Team and TECHNOFI

17:00 **END OF SECOND DAY**



About Grid+Storage

[Grid+Storage](#) is a service contract for the European Commission (DG ENER), aiming at defining the European Research and Innovation roadmap integrating energy storage into grid activities.

[Grid+Storage](#) partners are:



About ERA-Net Smart Grids Plus

[ERA-Net Smart Grids Plus](#) is an initiative of 21 European countries and regions, aiming at enabling the right technologies, market designs and customer adoption in order to achieve the Smart Grids vision in Europe. It has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 646039.

[ERA-Net Smart Grids Plus](#) funding partners are:

