



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

Regional workshop (Italy, Croatia, Malta, Slovenia and Switzerland)

Gestore dei Servizi Energetici (GSE S.p.A.), *Viale Maresciallo Pilsudski, 92, 00197 Rome, Italy.*

29 February and 1 March 2016

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 seventh workshop covers R&I activities in Italy, Croatia, Malta, Slovenia and Switzerland: 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.

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



Program

29 February 2016

- 13:30 REGISTRATION and WELCOME COFFEE**
- 13:55 Welcome speech and presentation of GSE**
Cristina Vajani, Unità Impianti Fotovoltaici, Direzione Ingegneria, GSE
- 14:00 Introduction to the activities of the Grid + Storage project**
Eric Peirano, Grid+Storage Project Manager, TECHNOFI
- 14:15 The SINCRO.GRID project (Slovenia, Croatia)**
Uroš Salobir, General Coordinator for System Development, ELES
- 14:45 Experiences and initial results from Terna's Energy Storage Projects (Italy)**
Anna Carolina Tortora, Head of Innovation and development, TERNA
- 15:30 The SIREN project (Croatia)**
Hrvoje Pandžić, Assistant Professor, University of Zagreb
- 16:00 COFFEE BREAK**
- 16:15 First round table (moderated by Eric Peirano, Project Manager of Grid+Storage, TECHNOFI)**
Interactions with the audience about the lessons learnt by the projects presented during this session and the new knowledge needs to better integrate energy storage into the electricity system
- 16:45 The ACEA Distribuzione smart-grid pilot project (Italy)**
Stefano Liotta, Responsabile Ingegneria, Pianificazione e Sviluppo Smart Grid, ACEA
- 17:15 The Role of Energy Storage for TSOs (Switzerland)**
Jonas Mühlethaler, Specialist Technology Development, Swissgrid
- 17:45 Second round table (moderated by Eric Peirano, Project Manager of Grid+Storage, TECHNOFI)**
Interactions with the audience about the lessons learnt by the projects presented during this session and the new knowledge needs to better integrate energy storage into the electricity system
- 18:15 END OF FIRST DAY**
- 19:00 NETWORKING DINNER**

1 March 2016

- 8:55 Introduction to the program of the day**
Luigi Mazzocchi, director RSE generation and materials department – in charge of storage in RSE
- 9:00 The Smart Grid Knowledge Sharing Platform**
Sophie Dourlens, Grid+Storage Stakeholder Consultation Coordinator, TECHNOFI
- 9:15 From local trials towards a European Knowledge Community: ERA-Net Smart Grids Plus**



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

9:30 The 'Smart Polygeneration Microgrid of the Genoa University' (Italy)

Stefano Bracco, Department of Naval, Electrical, Electronic and Telecommunication Engineering, University of Genoa

10:00 A Smart battery assisted by a CHP to meet the power and energy demand in a PV powered house (Malta)

Neville Azzopardi, Senior electrical engineer, Albertax Technologies Ltd

10:30 Electrical Storage Systems in ENEL Distribuzione network (Italy)

Laura Pimpinella, Control Systems and Automation Eng., ENEL Distribuzione

11:00 COFFEE BREAK

11:30 Third round table (moderated by Luigi Mazzocchi, director RSE generation and materials department – in charge of storage in RSE)

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

12:00 Final round table (moderated by Luigi Mazzocchi, director RSE generation and materials department – in charge of storage in RSE, 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

12:30 END OF WORKSHOP/AOB

12:30 LUNCH BREAK



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:



About ETP SmartGrids

The [European Technology Platform for Electricity Networks of the Future](#), also called ETP SmartGrids, is European forum to shape technology research and innovation pathways which will make electricity networks smarter