

## Storage4Grid VISION

The Storage4Grid vision is to provide utilities and end-users with **new tools for optimal grid planning, use and evaluation of storage technologies**. S4G pre-designs new storage control models and interfaces built upon existing standards and suitable to support scalable and cost-efficient coordination of heterogeneous ESS.

## Plenary meeting in Torino: Storage4Grid Kick-off meeting

On 11 and 12 of January 2017, the 7 partners involved in the Storage4Grid project gathered in Torino (Italy) to have the 1<sup>st</sup> plenary meeting and get acquainted with all project members. In the first day, the initial uses cases per pilot site were discussed in workshops. It was defined the best approach to reach the full potential of Storage4Grid concepts and solutions. In the second day, the work packages objectives and timeline were presented, discussing the necessary steps for a successful Storage4Grid project development.



## Plenary Meeting in Bucharest: Defining Storage4Grid General Architecture

On the 3 and 4 of May 2017, the partners gathered in Bucharest (Romania) to work on the Storage4Grid General Architecture. With the initial use cases and requirements in mind, partners were able to plan the demonstration activities in each pilot site. Since the meeting was in the Universitatea Politehnica din Bucuresti (UPB) facilities, all the partners visited the MicroDERLab pilot site. Here it will be demonstrated the advanced scenario of “Advanced Cooperative Storage Systems”.





## Do you know...?

*Maurizio Spirito, Storage4Grid Project Manager*

Dr. Maurizio A. Spirito is the Head of the EMerging Trends and Opportunities (EMTO) Function at ISMB. He has a degree in Electronics and Telecommunications Engineering from Politecnico di Torino and worked in Nokia Research Centre and he was the Head of the Radio Technologies for Multimedia Lab at ISMB. He has an extensive experience in developing and managing international multicultural research and development projects in the context of European Commission Framework Programs, especially in the area of Internet of Things technologies and Energy Efficiency.



## ENIIG, the Danish pilot site of Storage4Grid

The Island of Fur is placed in the Northern part of Denmark in a fjord. At Fur there are approximately 800 people in 400 houses. Additionally, there are app. 500 holiday houses and app. 200.000 tourists visiting each year. Fur is part of the Municipality of Skive. Skive has a target of being CO<sub>2</sub>-neutral in 2029, which is also the goal of Fur.

During the last years, the island adopted more biomass boilers, heat-pumps and PV. The share of distributed energy resources is now more than 4% (this seems low, but because of the heavy clay industry, it is quite impressive). In the residential sector, more than 15% of all houses have PV-systems.



The Fur test site features 5 residential houses which are already provided with storage units paired with PV installations of various sizes (ranging from 3 to 6 kW sizes). The houses have an energy consumption of 4,5-6,3 MWh/year, their self-supply with PV and batteries installed ranges from 20-50%. The residents are both families and couples.

In this pilot site, it will be implemented the “Storage Coordination” scenario. The vision for this scenario is to use at highest grade the power grid, with minimal or no reinforcement, in order to accommodate the integration of highest renewable energy sources production, to cover up to 100% of local consumption, by using storage coordination of combined energy storage devices at end-user and grid level.



## Facts and figures

**Budget:** 3.617.900 €

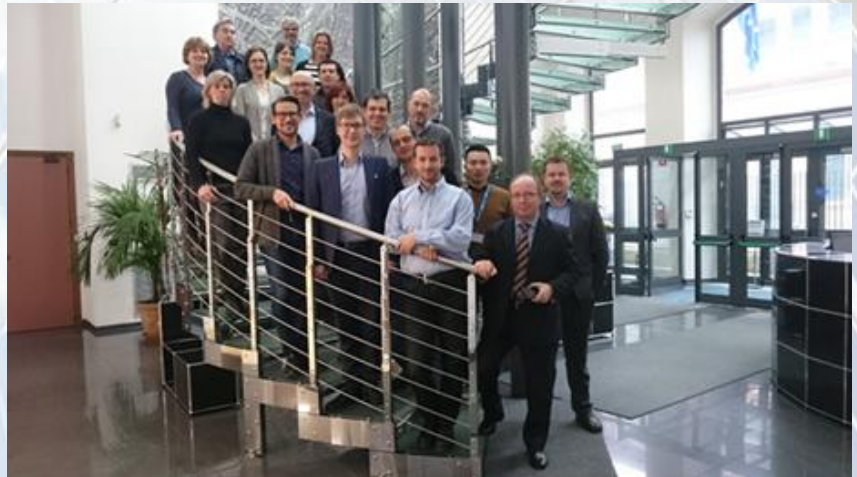
**Duration:** 36 months

**Partners:** 7

**Countries:** 5

**Coordinator:** Maurizio A. Spirito

**Website:** [www.storage4grid.eu](http://www.storage4grid.eu)



## Next events

- Storage4Grid organised a special session named “Trends in Energy Storage for Future Grids” at the 23<sup>rd</sup> ICE/IEEE ITMC Conference (<http://www.ice-conference.org/>)
- The First ESG Meeting will take place in Bonn, Germany in August 3<sup>rd</sup>, 2017

## Disclaimer



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