FISMEP

FIWARE for Smart Energy Platform

> *Interoperability is a key element to unlock future Smart Grids: for this reason FISMEP will develop and test new open APIs for energy services.*

Not only due to the arrival of the mainly automated "digital age", but also due to the integration of renewable and decentralized energy as well as the merging of electric and thermal domains, the energy sector has an increasing need for flexibility. **FISMEP** targets this need by implementing a cloud-based, service-oriented, open source software platform to operate an efficient, automated and sustainable energy supply for single buildings as well as municipalities.

The platform concept, which is known as **Smart Energy Platform**, has already been developed in the previous EU project FINESCE (Future INtErnet Smart Utility Services) and is compatible with the more generic **FIWARE** Platform. FISMEP draws on the results of FINESCE and will further advance the platform by designing and adding new services to increase the flexibility of energy systems.

To show and exploit the platform's impact on the energy system, three **field tests** will be carried out on locations in **Germany**, **Sweden** and **Romania**. Here, innovative **use cases** involving DC grids, smart buildings, and advanced grid monitoring will be demonstrated with a particular focus on **performance, user-centered adaptation**, and **energy efficiency**.

The overall aim is to reach stakeholders at an international level and to simultaneously trigger a **widespread exploitation of the results**, particularly by SMEs that will benefit from the open source solutions.

ERA-Net Smart Grids Plus | From local trials towards a European Knowledge Community

This project has received funding in the framework of the joint programming initiative ERA-Net Smart Grids Plus. The initiative has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 646039.

Project Duration

01.12.2017 - 30.11.2020

Project Budget

Total Budget: € 2,872 ,000.-
Funding: € 2,120,190.-

Project Coordinator

RWTH Aachen University (Germany)

Project Partners

- FEN Research Campus (Germany)
- University Politehnica of Bucharest (Romania)
- EnergoBit (Romania)
- Chalmers University of Technology (Sweden)
- E.ON Sverige AB (Sweden)
- Malmö stad (Sweden)

Project Website

www.fismep.de

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From Local Trials towards a European Knowledge Community

http://www.eranet-smartgridsplus.eu

Main Objectives

- Demonstrate the implementation of open source/open architecture software platform for smart energy systems
- Demonstration of innovative use cases to show the proposed platform has a real impact on the energy system
- Create a large base of users for the platform with intensive dissemination activities associated with the development process.
- Lay the foundation to keep the platform alive beyond the project's lifetime and move in the direction of European standardization.

Main Results

The project started on December 1st, 2017. Results will be added soon.

This project is part of the 2nd Joint Call for transnational RDD projects of the ERA-Net Smart Grids Plus initiative. EUR 13 million of funding have been made available to 9 projects from 8 regions/countries.

ERA-Net Smart Grids Plus