

E-REGIO

Smart Community Markets

” *The novelty of the E-REGIO project lies in exploiting and combining user-centric local markets with new business potential arising from digitalization of the energy sector.*

E-REGIO combines cross-national knowledge and demonstration projects to further develop the notion of local smart energy. The project will **analyse, test and validate a new way to implement local energy markets to manage storage units and flexible assets** supervised by the Local System Operator (LSO). The real local energy markets will be implemented in Norway and Sweden in order to demonstrate the local market feasibility.

A local market is a trading platform to enable producers, prosumers and consumers to exchange local and renewable electricity in a neighbourhood. Moreover, the LSO customers will have an end-user trading platform to play in the local market and to receive control signals from the LSO. The E-REGIO project will connect the research with the real field studies in order to find the correct business models and the connection with wholesale markets, as well as the regulative framework in Europe.

Project Duration

01.02.2017 - 31.03.2020

Project Budget

Total Budget: € 2,933,326.-

Funding: € 1,978,076.-

Project Coordinator

Smart Innovation Norway (NO)

Project Partners

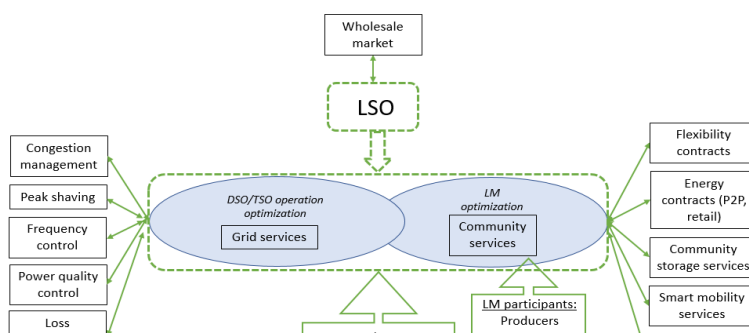
- eSmart Systems (NO)
- Skagerak Nett (NO)
- KIC InnoEnergy Sweden (SE)
- Eindhoven University of Technology (NL)

Project Website

www.eregioproject.com

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Main Objectives

E-REGIOs main objective is to perform new trials in order to increase the level of understanding of local markets, as well as to demonstrate and validate that local energy markets will be part of the solution towards a more sustainable distributed energy supply.

The main objective is divided to

- 1) **Verification of local market design** through combining market insights from existing research, verifying the proposed business models and testing the impact of various market contingencies
- 2) **Flexibility management pilot** through testing the local energy market with a community electricity storage hub model in operational environments
- 3) Updating ICT to a new market design concept through **creating the ICT-tool for local energy markets**;
- 4) European-wide knowledge sharing through a European community for local energy market with **best-practice guidelines** that are truly replicable across different regions by taking into account regional energy regulations and different electricity market models.

Main Results

Implementation guidelines for local markets in Europe with the potential business models detected, regulatory recommendations for European Countries and potential benefits for Local System Operators.

Functional **ICT tools for operating local energy markets** describing the ICT systems capabilities using flexible resources and storage units as a market hub.

From Local Trials towards a
European Knowledge Community

<http://www.eranet-smartgridsplus.eu>

E-REGIO

SMART
INNOVATION
NORWAY

eSmart
SYSTEMS

Skagerak
Energi

eit
InnoEnergy
Knowledge Innovation Community

TU/e
Technische Universiteit
Eindhoven
University of Technology

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