Development of methodologies and tools for new and evolving DSO roles for efficient DRES integration in distribution networks

Fact Sheet

Project information

EVOLVDSO

Grant agreement ID: 608732

Status
Closed project

Start date
1 September 2013

End date
31 December 2016

Funded under:

FP7-ENERGY

Overall budget:
€ 7 844 431

EU contribution
€ 5 245 503

Coordinated by:
E-DISTRIBUZIONE SPA
Italy

Objective

With the growing relevance of distributed renewable energy sources (DRES) in the generation mix and the increasingly pro-active demand for electricity, power systems and their mode of operation need to evolve. evolvDSO will define future roles of distribution system operators (DSOs) on the basis of scenarios which will be driven by different DRES penetration levels, various degrees of technological progress, and differing customer acceptance patterns.

The evolvDSO consortium addresses the main research and technology gaps that need to be solved for DSOs to efficiently fulfil their emerging and future roles in the European electricity system. The new tools and methods will encompass a wide array of DSO activities related to planning, operational scheduling, real-time operations and maintenance. Selected methods and tools developed during the project will be validated in computer simulations and real-life testbeds to maximise their deployability, scalability and replicability. Beyond this holistic, top-down approach, evolvDSO is unique in that it brings together the key actors of the electricity value chain that are at the forefront of smart grid development, and with a clear common view on what is needed for further DRES integration in Europe. The consortium consists of 16 partners including DSOs, TSOs, renowned research institutions and new market players that provide unique expertise to achieve the stated objectives.
evolvDSO will contribute to the transition to a more sustainable European energy system by maintaining and increasing the security and reliability of distribution grids facilitating the increased feed-in of DRES. The results of evolvDSO will drive the implementation of the EEGI roadmap and ultimately provide a significant impetus for reaching EU climate targets. The project will establish strong links to the realization of smart cities, thus contributing to the EC initiative “Smart Cities and Communities”

**Field of Science**

/social sciences/economics and business/business and management/commerce

/engineering and technology/civil engineering/architecture engineering/smart city

/engineering and technology/environmental engineering/energy and fuels/renewable energy

**Programme(s)**

*FP7-ENERGY - Specific Programme "Cooperation": Energy*

**Topic(s)**

*ENERGY.2013.7.1.1 - Development and validation of methods and tools for network integration of distributed renewable resources*

**Call for proposal**

*FP7-SMARTCITIES-2013*

*See other projects for this call*

**Funding Scheme**

*CP - Collaborative project (generic)*

**Coordinator**
E-DISTRIBUZIONE SPA
Address
Via Ombrone 2
00198 Roma
Italy
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
EU Contribution
€ 817 600

Contact the organisation
Administrative Contact
Natale Caridi (Mr.)

Participants (15)

CYBERGRID GMBH

Austria
Address
Weimarer Strasse 119/1
1190 Wien
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
EU Contribution
€ 159 371

Website
Contact the organisation
Administrative Contact
Reinhard Korsitzke (Mr.)

EDP DISTRIBUICAO ENERGIA SA

Portugal
Address
Rua Camilo Castelo Branco
43
1050 044 Lisboa
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
EU Contribution
€ 311 550

Contact the organisation
Administrative Contact
Pedro Godinho Matos (Mr.)
<table>
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<th>Organisation</th>
<th>Country</th>
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<td>EUROPEAN DISTRIBUTION SYSTEM OPERATORS FOR SMART GRIDS</td>
<td>Belgium</td>
<td>€ 78 150</td>
<td>Rue De La Loi 82 1040 Bruxelles</td>
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<td>Avenue Du Lac Du Bourget 25 73370 Le Bourget Du Lac</td>
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<td>UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN</td>
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<td>€ 666 622</td>
<td>Boeretang 200, 2400 Mol</td>
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</table>
DENMARK

Address
Tonne Kjaersvej 65
7000 Fredericia

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Website
Contact the organisation
Administrative Contact
Inger Byriel

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