

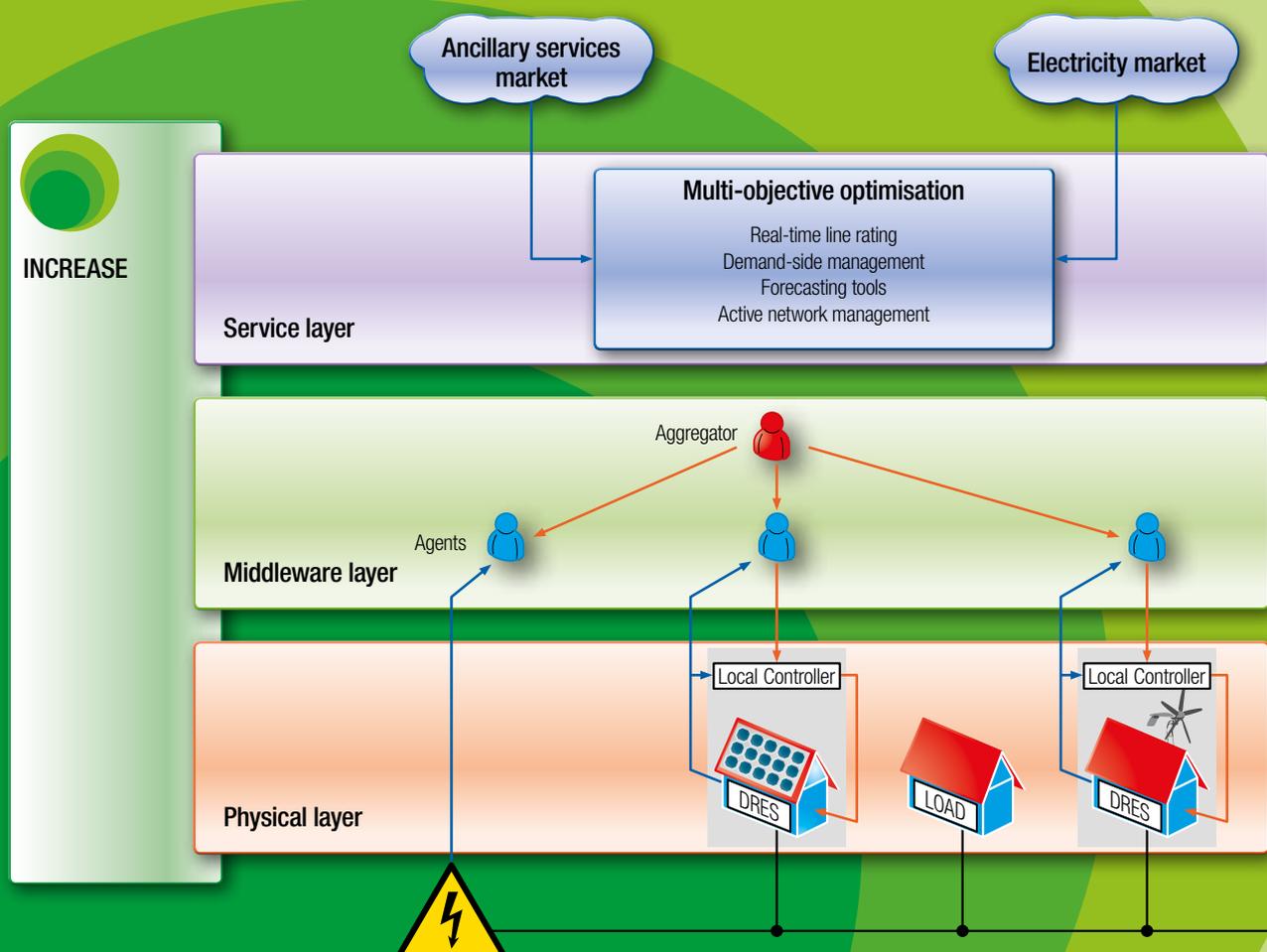
Increasing the penetration of renewable energy sources in the distribution grid by developing control strategies and using ancillary services.

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## INCREASE: a short introduction

The significant rise in distributed renewable energy sources (DRES) puts an enormous burden on the secure operation of the electrical grid, impacting both the transmission system and the distribution system operators. The massive increase of the intermittent DRES in low (LV) and medium voltage (MV) networks leads to a bidirectional power flow which raises the urgent need for new operational

and control strategies. These need to assure the system's ability to provide consumers with a reliable supply of electricity at an acceptable power quality level. INCREASE focusses on how to manage renewable energy sources in LV and MV networks, and how to provide ancillary services (towards DSOs but also TSOs), in particular voltage control (see figure below). ...



The project is financed within the 7th Framework Programme of the European Commission, has a budget of 4.3 M€ and runs from September 2013 until December 2016

More information about the project:  
[www.project-increase.eu](http://www.project-increase.eu)

... **INCREASE** also looks for solutions to connect renewable energy sources in a smarter way to the distribution grid. Not only control strategies will be developed and the ancillary services will be studied, but also the results from this research will be validated by means of a simulation

platform, then laboratory environments and even the real distribution grids in Austria, Slovenia and the Netherlands. More information is available on our website: [www.project-increase.eu](http://www.project-increase.eu).

## INCREASE officially started

On the **1st of September 2013** the European FP7 project INCREASE officially started. Ghent University is the project coordinator leading 13 partners from 5 different countries: Austria (JOANNEUM RESEARCH and Stromnetz Steiermark), Belgium (Alenco, Eandis, Elia and Ghent University), Greece

(Aristotle University of Thessaloniki), Slovenia (Elektro Gorenjska, Korona and University of Ljubljana) and the Netherlands (Liander, Mastervolt and Technical University of Eindhoven).

## INCREASE Kick off meeting and conference

During the **kick-off meeting** of the project on the **23rd and the 24th of September 2013** in Ostend, Belgium (Ghent University) all project partners met and agreed on important issues in order to guarantee a successful outcome for the INCREASE project. A date was set for the 1st INCREASE conference, where not only project partners were invited, but also other organisations and companies that could provide a surplus to the project.

The conference was organized in cooperation with Smart Grid Flanders, a Flemish organisation which hosted an international conference about smart grids.

Following this decision, the **kick-off conference** of the INCREASE project was organised and hosted by Ghent University on the **2nd and 3rd of December 2013**. As foreseen, not only INCREASE partners, but also other stakeholders participated, which led to very interesting discussions.

On the **2nd of December** this **International Smart Grids Conference** was organized which the INCREASE partners attended. The **3rd of December** was completely dedicated to the **exchange of know-how, experiences and ideas** between the different European projects part of the 2013 FP7 – smartcities call. These projects are **INCREASE, EvolvDSO, IDE4L and DREAM**.

While INCREASE focusses mainly on increasing the penetration of renewable energy sources into the grid, the other projects have different objectives. **EvolvDSO** is targeted



*The INCREASE consortium*



*INCREASE kick-off conference*

to define a new role for the DSOs, also encompassing planning, operational scheduling, real-time operations and maintenance. The development of an ideal grid for all, enabling clean and reliable energy for the future, is the main aim of **IDE4L**. Within the project **DREAM** the participating partners want to build and demonstrate an industry-quality reference solution for DER aggregation level control and coordination based on available ICT components.

The conference was a success and many ideas and thoughts were shared. Furthermore solutions were suggested and decisions for the future were taken. The first contact between the different projects is now established and will be continued in the future.

## INCREASE awarded with the EEGI support label

On the 4th of December INCREASE received the prestigious EEGI Support Label (see picture). The European Electricity Grid Initiative (EEGI) is one of the European Industrial Initiatives under the Strategic Energy Technologies Plan (SET-PLAN) and proposes a 9-year European research, development and demonstration programme to accelerate innovation and the development of the electricity networks of the future in Europe. The EEGI Label acknowledges that a specific project is in line with the spirit of the EEGI: knowledge sharing of results, system level innovation, etc. EEGI Labelling can form the basis for setting up future projects, tackle issues of special interest and provide additional visibility to Smart Grid projects.



*Support label of the EEGI*

More information about EEGI is available on this website:  
[www.gridplus.eu/eegi/eegi-project-labelling-started](http://www.gridplus.eu/eegi/eegi-project-labelling-started)

## INCREASE poster and flyer now available

### Flyer:

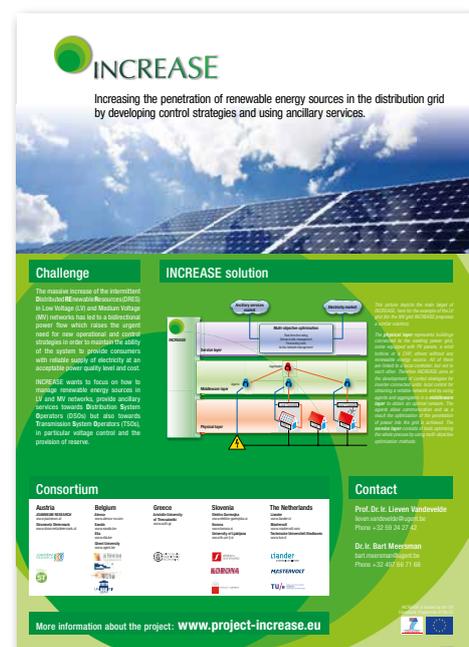
The project flyer is now available electronically on the project website and in hard copy at meetings and conferences. It provides a short project description and is prepared for dissemination among stakeholders. The flyer describes the project's aims, objectives, contents, expected results and participants.

### Link:

[www.project-increase.eu/index.php/news/37-increase-folder-online](http://www.project-increase.eu/index.php/news/37-increase-folder-online)

### Poster:

The INCREASE poster is also available via webpage to download or in hard copy with a size of DIN A0, A1, A2 or A3. It should create awareness and interest in order to motivate the target groups to seek for more information.



## Coming INCREASE Events

- **INCREASE Advisory Board**  
Eindhoven, the Netherlands, March 19th 2014
- **Smart Grids Week**  
Graz, Austria, May 19th–24th 2014
- **INCREASE Summer School**  
Slovenia, June 2014

## INCREASE needs your input!

INCREASE set up a questionnaire for stakeholders in order to gather background information for their approach and possible solutions. It would be great if DSO and TSO stakeholders could answer these questions and send it to [bart.meersman@ugent.be](mailto:bart.meersman@ugent.be). The questionnaire is available on the INCREASE website as well: [www.project-increase.eu/index.php/news/44-increase-questionnaire-for-stakeholders](http://www.project-increase.eu/index.php/news/44-increase-questionnaire-for-stakeholders).

## Our second newsletter is expected in June 2014!

For more information, comments or if you no longer wish to receive this [www.newsletter](http://www.newsletter), please contact us: [www.project-increase.eu](http://www.project-increase.eu)



## Consortium

INCREASE is oriented at delivering tools and solutions to DSOs. To ensure that these tools and solutions are well accepted and fit the needs of this target group as much as possible, 4 DSOs from different regions in Europe are partner in the project, apart from several research institutes and industrial partners.

### Austria

- **JOANNEUM RESEARCH**  
[www.joanneum.at](http://www.joanneum.at)
- **Stromnetz Steiermark**  
[www.stromnetzsteiermark.at](http://www.stromnetzsteiermark.at)



### Belgium

- **Alenco**  
[www.alenco-nv.com](http://www.alenco-nv.com)
- **Eandis**  
[www.eandis.be](http://www.eandis.be)
- **Elia**  
[www.elia.be](http://www.elia.be)
- **Ghent University**  
[www.ugent.be](http://www.ugent.be)



### Greece

- **Aristotle University of Thessaloniki**  
[www.auth.gr](http://www.auth.gr)



### Netherlands

- **Liander**  
[www.liander.nl](http://www.liander.nl)
- **MASTERVOLT**  
[www.mastervolt.com](http://www.mastervolt.com)
- **Technische Universiteit Eindhoven**  
[www.tue.nl](http://www.tue.nl)



### Slovenia

- **Elektro Gorenjska**  
[www.elektro-gorenjska.si](http://www.elektro-gorenjska.si)
- **KORONA**  
[www.korona.si](http://www.korona.si)
- **University of Ljubljana**  
[www.fe.uni-lj.si](http://www.fe.uni-lj.si)



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