

# INCREASE NEWSLETTER

*The INCREASE consortium wishes you a nice summertime and recreating holidays!*

## R&D Monitoring Report 2013 ENTSO-E published

ENTSO-E has published its 2013 R&D Monitoring Report. The annual report assesses the progress of TSO related research and development (R&D) work. It also allows ENTSO-E to monitor progress against the targets of the R&D Roadmap 2013-2022.

The results of this year's report clearly demonstrate that ENTSO-E is on the way to successfully reach the R&D Roadmap destinations and technical objectives. A lot of progress has been made since 2012 and new R&D gaps have been identified which can now be tackled and corrected.

INCREASE was selected to provide input for this report thanks to its relevance for TSOs and its expected contribution to the ENTSO-E R&D Roadmap and to the fulfilment of the EU energy policy goals.

## INCREASE Advisory Board met for the first time



On the 19<sup>th</sup> of March 2014 the members of the INCREASE Advisory Board met for the first time in Eindhoven, the Netherlands. As INCREASE has a major impact for the end-users, i.e. the network operators, the consortium decided to call upon an external Advisory Group to discuss intermediate results and to gain input for ongoing work packages. This also allows timely adjustments of results and work progress.

The members of the Advisory Board belong to DSOs and TSOs from other countries, coordinators of other projects and members of ENTSO-E and EDSO. The Advisory Board follows the way INCREASE will develop the different solutions to ensure that the active market demand is taken into account. During their first meeting in Eindhoven, the Netherlands, the Advisory Board joined the INCREASE Management Meeting. A general presentation was first given to introduce INCREASE. After that the WP leaders explained the objectives and approach of their work packages. This was followed by a very interesting discussion and exchange of know-how and experiences.

The next Advisory Board Meeting will be organized in spring 2015.

## **INCREASE introduced at the “National Electrical and Computer Engineering Student” Conference in Thessaloniki, Greece**

From April 11<sup>th</sup> until 13<sup>th</sup> the 7<sup>th</sup> National Electrical and Computer Engineering Student Conference “Dismantling the problem: the engineers of the modern days” took place in Thessaloniki, Greece. During this conference INCREASE was also presented.

A total of 1.462 participants registered for this 3 day conference. Most of them were students of Electrical and Computer Engineering from Greek and foreign universities, but also professional engineers, stakeholders, company owners, start-ups and spin-offs were present. The 3<sup>rd</sup> day of the conference focussed on youth entrepreneurship while taking into account the modern need for innovation.



Together with workshops, there was an exhibition space for companies, organisations and researchers to present their activities and products. A strong interest has been detected in all the issues tackled by INCREASE, both from students, professional engineers and investors in renewable energy sources. Conference visitors were especially interested in the technical outcomes of the project and their applicability in real installations.

## **INCREASE published the first results on the project homepage**

The use of distributed renewable energy sources (DRES) has been significantly rising the last couple of years and will continue to rise over the next years. New operational and control strategies including protection algorithms are necessary in order to maintain the ability of the system to provide the consumers with a reliable electricity supply at an acceptable power quality level.

During the first six months of the project, all the different aspects of the development of these new strategies, what to include and how to test them has been thoroughly investigated and the first conceptual basis for the work was done. INCREASE will include field trials, laboratory assessments, simulations and economic assessments. Read more about INCREASE’s plans [here](#).

## INCREASE project introduction for various research institutions and local stakeholders in Spain

INCREASE was presented to Spanish research organizations, chambers of commerce and local stakeholders by Mr. Hannes Schwaiger (JOANNEUM RESEARCH Forschungsgesellschaft mbH) participating in an Austrian delegation visiting the regions of Bilbao, Vitoria and Pamplona (May 12<sup>th</sup>-15<sup>th</sup> 2014). The Austrian Trade commissioner & Commercial



Councillor in Madrid – Advantage Austria Madrid, focusing on subjects with the priority program “Urban Technologies” (Smart Grids and Sustainable Mobility) organized a fact finding and market exploration tour with partners from AIT Austrian Institute of Technology GmbH, AVL List GmbH, B.I.M Mobilitätsconsulting und Eneengineering, E-Volution Elektrokonzepte GmbH, KEBA AG, Pro Sustainability Moreno, Rockn.Rolla Bikes & More GmbH and JOANNEUM RESEARCH Forschungsgesellschaft mbH. Especially research organizations like CENER, TECNALIA, ADITech and the Research Alliance IK4 showed interest in the project.

## Presentation of INCREASE at the 23<sup>rd</sup> “Power Engineering” conference, May 13<sup>th</sup> - 15<sup>th</sup> Maribor, Slovenia



This international conference was organized by the University of Maribor, the University of Ljubljana, the Energy Agency of Podravje and the TECES Research and Development Centre of Electrical Machines in Maribor.

The emphasis of this years conference was dedicated to smart buildings, smart grids and smart cities, and the interconnection and interaction between them. The conference was

addressed to experts from the fields of Electrical Engineering, Mechanical Engineering, Civil Engineering, Architecture and Chemical Engineering.

Reinhard Padinger from JOANNEUM RESEARCH participated in the conference and was invited to present the INCREASE project in its current stage. The interest was great, as the INCREASE project

deals with important questions concerning the thematic of the conference and promises important contributions to solve the problems, coming up with an increasing use of decentralized renewable energy sources.

One of the contributions, very interesting for the INCREASE project, was the presentation of Primož SUKIČ, “Efficiency of Inverters in Solar Power Plants with Reactive Power Generation”, in which options of voltage control by reactive power generation using inverters of solar power plants were discussed in terms of their losses in comparison with other technical options.

Further exchange of views in the running project was planned with the organizers of the conference as well as with the competence centre OpComm in Ljubljana, Slovenia.

## INCREASE at the Smart Grids Week, 19<sup>th</sup>-23<sup>rd</sup> of May 2014, in Graz, Austria

To highlight the unique features of the INCREASE project dealing with demonstration of intelligent smart grid

### SMART GRIDS WEEK | GRAZ 2014

solutions in the distribution network, a full-day INCREASE Workshop was organized as a dedicated session on the first day of the premier Smart Grid event of Steiermark, Austria - “the Smart Grids Week” - organized by the Austrian Federal Ministry for Transport, Innovation and Technology, the Austrian Climate and Energy Fund and Energie Steiermark. The INCREASE Workshop was attended by



some 20 participants from universities, administration and business who engaged in the discussion and also gave feedback on the projects contents. The speakers presented the INCREASE project, its goals and

methodology, as well as the field demonstration cases in which the developed technological solutions will be showcased. Other speakers included the industrial experts who presented the national smart grid projects of interest to the audience, extending the applicability scope of the proposed INCREASE solutions.

### Coming events:

- GRID+ event, Brussels, Belgium (24<sup>th</sup> of June 2014)
- European Utility Week, Amsterdam, the Netherlands (4<sup>th</sup>-6<sup>th</sup> of November 2014)
- IEEE SmartGridComm Conference, Venice, Italy (3<sup>rd</sup>-6<sup>th</sup> of November 2014)