



23/02/2018

Newsletter #3

What happened since the new year's countdown?

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| Newsletter's opening: | Some words from Dr Stephan Tenge, Member of the board of Avacon |
| Lab test of Smart PV: | CEZ Distribuce, the biggest Distribution System Operator (DSO) in the Czech Republic aims on field demonstration of smart PV inverters which are equipped with advanced autonomous volt-var and volt-watt control functions. |
| Simris is appealing: | E-on and its Swedish partners are recording a constant request for site visit. Started in August 2017, the workshops and the visits organized in Simris are encountering a national success. |
| Showroom in Nice: | A beautiful opening event of the Nice Smart Valley showroom, a major asset for the territory of the Alpes-Martimes, but also beyond to make France shine smart grids internationally |

PASLIER Enora



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n°731289

DR. STEPHAN TENGE

The European Union and its member states have committed to change the way we produce and use energy. We are moving away from the centralized fossil fueled configurations towards a distributed energy landscape where almost every customer can be a producer him- or herself. We can find a unique approach to Europe's energy transition in each country, but we are united in our vision of a decarbonized, decentralized and digital energy future.



Power distribution networks will remain at the center of this transition. They will have to evolve to multi-agent networks, to accommodate a large number of players and to truly empower customers to play an active role in our energy supply. They also have to become digital and integrate the power network with data flows so that an ever increasing share of renewable energy can be integrated without jeopardizing the security or quality of supply.

Avacon is honored to bear the responsibility for a demonstration site in Germany. The Smart Grid Hub will show how every customer could become an active element of the distribution networks to accommodate more green power in our network. Together with demonstrators in other countries, InterFlex develops solutions to move closer to Europe's energy future, together and one step at a time.

Dr. Stephan Tenge, member of the board of Avacon

Lab test of smart PV inverters finished:

CEZ Distribuce, the biggest Distribution System Operator (DSO) in the Czech Republic aims at field demonstrations of smart PV inverters which are equipped with advanced autonomous volt-var and volt-watt control functions.

Before the installation of smart PV inverters in field, the implementation of control functions had to be proved in a lab. Lab testing of control functions was led by the Austrian Institute of Technology with support of Fronius International and Schneider Electric. Lab tests proved that the selected PV inverters produced by both manufactures are equipped with advanced functions which can stabilize voltage levels in distribution grids and thus increase the hosting capacity for distributed renewable generation.

The next step will be to install PV systems with smart PV inverters in field and to start the demonstration.



AIT laboratory in Vienna where advanced autonomous volt-var and volt-watt control functions of PV inverters were tested

Simris is appealing!

Simris is a village of about 200 inhabitants in the south of Sweden, during periods solely supplied by 100% renewable energies, produced mainly by the local wind turbine and solar power generator and in the case of no sun and no wind, a backup generator is there to back-up running on biodiesel.

To maintain the grid stability the system is also equipped with a battery and advanced steering equipment connecting it all.
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E.ON and its Swedish partners are recording a constant request for site visits. Launched in August 2017, the workshops and visits organized in Simris are encountering a national success.

Indeed, on average, 6 representations and visits per month are taking place in Simris since the start in mid-2017. A lot of people are coming to have a look around and are curious about what is happening in Simris: Newspapers, internal teams at E.ON, industry researchers, municipality or even governmental representatives.

The 360° showroom of tomorrow has been launched!

The official opening ceremony of NICE SMART VALLEY's innovative showroom was held on December 20, 2017, in the presence of the project's corporate partners and Christian Estrosi, Mayor of Nice, President of the Nice Côte d'Azur Metropolis. There were also the Presidents of the Chamber of Commerce and Industry Nice Côte d'Azur, of the Industry Federation UPE 06 and many representatives of the institutional, political and economic world. A real success!



This inaugural event brought together in Nice : Bernard Castille, Deputy Director and member of the Enedis Executive Board, Edouard Neviaski, General Manager of the ENGIE Global Energy Management Business Unit, Jacques-Thierry Monti, EDF Provence-Alpes-Côte d'Azur Regional Delegate and Regional Director of EDF Mediterranean Commerce, Jean Lemaistre, Deputy General Director of GRDF, Frédéric Wauquiez Distributed Energy Resources Solutions Manager at GE and Ivan Steyert, CEO of Socomec.

Bernard Mouret, regional director of Enedis Côte d'Azur and strategic manager of the project, opened the inauguration ceremony while underlining the context of the project: the French demonstrator aims at exploring the environment in which the future distributor will evolve, driven by a local vision with 50% renewable energies and more and more electric vehicles.



The guided tour of the Showroom provided visitors with a total immersion. The latter were able to understand the operation of smart grids through the latest technologies of virtual and augmented reality. As part of this discovery tour on a space of 135 m², the visitors had the opportunity to visualize in 3 dimensions, using Hololens technology, the new components of the intelligent electrical system of tomorrow.

A beautiful opening event of the NICE SMART VALLEY showroom, a major asset for the territory of the Alpes-Maritimes, but also an opportunity to share the project's smart grid innovations with an international community.

Thank you very much for your interest in our project!

This is the end of our 3rd Newsletter!
Next one in two months!

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