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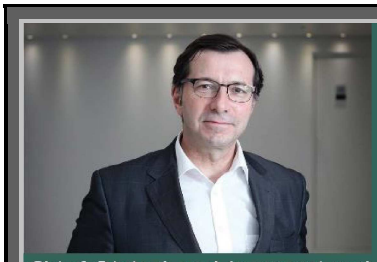
Interactions between automated energy systems and Flexibilities brought by energy market players

October 1st, 2017 Newsletter #1



Chief Digital and International Officer of Enedis,and Chairman of EDSO for Smart Grids

Christian Buchel :

In a fast-paced and competitive world, modernization and digitization are two intertwined priorities that require energy actors to continuously innovate and explore new concepts.
Finding that balance is exactly what InterFlex is about. - Read more

Innogrid

InnoGrid has become in only some years the not-to-be-missed EU event on innovation in electricity networks. During its 6th edition in Brussels in June, we have been exposing the InterFlex project and its innovative approaches to use various forms of flexibilities to optimize the electric power system on a local scale.

European Utility Week

From the 3rd to the 5th of October, InterFlex will be at the EUW in Amsterdam, where the main focus this year will be on strategic themes causing shifts in the utility business. You'll find InterFlex in the H2020 project showcase area of the European Commission, Hall 5, Stand # 5P54.
Come and meet us!

Demonstration of voltage regulation has started :

CEZ Distribuce, the biggest Distribution System Operator (DSO) in the Czech Republic launched the demonstration phase with the implementation of voltage regulation systems on a photovoltaic and a wind park. The setup aims at increasing the Renewable Energy hosting capacity on the medium voltage distribution network. Read more

Read the common statement of ENTSO-E, ENTSOG, SolarPower Europe, WindEurope, EDSO, SEDC, T&D Europe

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Newsletters #1

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CHRISTIAN BUCHEL

In a fast-paced and competitive world, modernization and digitization are two intertwined priorities that require energy actors to continuously innovate and explore new concepts. In particular, DSOs must find agile ways to optimize electric power systems while integrating increasing shares of renewables (more than 50% by 2030!) in a stable, secure and efficient way.

Finding that balance is exactly what InterFlex is about.

On behalf of Enedis I am thrilled to see 20 partners, from DSOs to manufacturers and Research Institutes, collaborating across the European Union to explore the flexibility solutions that will foster the Energy Transition.

Innovations in Demand response, cross-energy synergies, energy storage and new smart technologies will design tomorrow's electricity network.

As coordinator of the project, Enedis is very committed to the success of InterFlex, which rests on three pillars: customer empowerment, credible speed for innovation and sustainability.

Please enjoy this first newsletter, as we recount our progress since the launch of this project in the beginning of this year!

Christian Buchel, Chief Digital and International Officer of Enedis, and Chairman of EDSO for Smart Grids

CEZ Distribuce has started the demonstration of voltage regulation of Distributed Energy Resources (DER)

CEZ Distribuce is the biggest Distribution System Operator (DSO) in the Czech Republic and the leader of one of the 5 demonstrators of the InterFlex project.

In cooperation with DER owners (Distributed Energy Resources – such as photovoltaic or wind energy units) and their service partners, CEZ Distribuce has launched the demonstration phase with the implementation and commissioning of voltage regulation systems on the Zamberk 1.1 MWp photovoltaic park and the Koprivna 4.6 MW wind park.

Photovoltaic park Zamberk with 1.1 MWp of installed capacity

Wind park Koprivna with 4.6 MW of installed capacity

Both DER installations, located in different areas in Czech Republic, are connected to the medium voltage distribution network. The solution aims to reduce voltage fluctuations caused by DERs in medium voltage networks in selected areas by targeted regulation of their reactive power ("volt-var control") thus allowing a significant increase of the DER hosting capacity.

Required voltage set points are sent by the Distribution Management System (DMS) through an existing GPRS/LTE communication path to the Remote Terminal Units (RTU), which are standard components of the DER installations. The targeted regulation of reactive power on DER side is based on the difference between the required voltage set point and the instantaneously measured voltage at the point of grid connection. The voltage regulation systems are in regular operation on both DER installations today and their performance will be evaluated in detail in the upcoming months.

Based on the results, CEZ Distribuce aims at proposing an update of the actual DER hosting capacity evaluation process in order to allow connection of more DERs to the medium voltage distribution networks.

Co-funded by the European Union