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For more information, please visit horizon2020-story.eu/blog





STORY

STORY got the best presentation award at the EUW 2019

At the European Utility week 2019 in Paris, Prof. Andrej Gubina, University of Ljubljana and STORY partner, presented the insights of the STORY demos in the EC Storage session. Among several presentations, the STORY presentation was voted as the most interesting, and Andrej Gubina was awarded by the European Commission with a Belgian chocolate.

Among the STORY whitepapers, the new highlight report "Energy Storage - Our take on business models and regulation", was published in May 2019 and is now ready to download in the RESULTS/DISSEMINATION MATERIAL area of the STORY webpage.





COMPILE

Second solar power plant in Croatia financed by citizens started producing green

On the roof of the <u>Public Library Franjo Marković</u> in the city of Križevci, a 30-kW solar power plant, which was fully financed by the citizens under the micro-loan business model, started to produce green energy on 4th October. A total of 40 citizens have decided to support the solar power plant by giving a micro loan to the Green Energy Cooperative (ZEZ) for a period of 10 years, within which their interest will be repaid at 3

The required amount of HRK 172.000 (cca. € 23.000) for the installation of a solar power plant on the roof of the library was collected in a record time of 48 hours. The stakes in the solar power plant were limited to a minimum of HRK 1.000 (cca. € 135) and a maximum of HRK 7.500 (cca. € 1.000) in order to involve as many citizens as possible.

More about this topic is published on ZEZ's webpage - Citizens role in energy transition - From what is to what if! and COMPILE website.







ETIP SNET

Three new ETIP SNET "Energy Stories" on European energy transition projects

The European Technology and Innovation Platform Smart Networks for Energy Transition is continuing its series of short stories on successful energy transition technologies to inform citizens and facilitate their involvement in the European energy system of the future. The three new stories are on the Elsa, <u>Dynamo</u> and <u>3D Decision Support System</u> projects. These "Energy Stories" serve as practical examples of the ETIP SNET <u>Vision 2050</u>.

ETIP SNET is also currently working on a new Roadmap 2020-2030 to be published during spring 2020.





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INVADE

Launched Europe's first EV Charge Court

A consortium of energy and technology companies, research partners and a municipality are building a revolutionizing charging concept for electric vehicles in Sarpsborg, Norway, based on the INVADE model.

"This is primarily an exploitation case. It shows that what we have done in the INVADE project is appealing to others beyond the project and that the results can be industrialized," says Prof. Bernt A. Bremdal, Senior Advisor R&I at Smart Innovation Norway, the company which coordinates the large-scale EU Horizon 2020 project, INVADE.

In January, the Norwegian Minister of Trade and Industry, Mr. Torbjørn Røe Isaksen, put down the very first building block. By the end of 2019, INSPIRA Charge Court will be opened in 2020.

Read more:

https://h2020invade.eu/news/launched-europes-first-ev-chargecourt/.



al M.



Ships' zero emission in pilot Port of Borg will benefit E-LAND

Ships using electricity from renewable energy instead of burning fossil fuel is a new and important element that will add into E-LAND's pilot Borg Harbour (BIK\$). Though, the financing of the ship-shore connection project is not a part of E-LAND project, the results will have a big impact on E-LAND, because it enables the project to validate the modularity and extension potential of the E-LAND toolbox. At BIKS, ship-shore connections will be available to all vessels. The total CO2 reduction from this effort is stipulated at app. 540 tons. The most impact on CO2-reductions will be gained from ships that frequent the port regularly for long period.

On the picture is the ship Nexans Skagerak. The company Nexans produce large cables for subsea use, both telecommunications and energy. Their facility close to BIKS is used when huge cables are loaded to the vessel Nexans Skagerak in preparation for laying subsea cables all around the globe. During this work, this vessel may stay for several weeks at port, and will be a large consumer of ship-shore electricity in these periods. (Photo: Smart innovation Norway)



EU-SYSFLEX



Addressing the future power system challenges for Europe, EUSysFlex remains determined to present and demonstrate new types
of system and flexibility services. Challenges, long-term needs and
technical scarcities are regularly identified in <u>EU-SysFlex blogs</u>
authored by the project partners. The uniqueness of EU-SysFlex
project is depicted in a <u>video</u> from Joint Horizon2020 workshop which
focused on TSO-DSO cooperation in flexibility market integration. EUSysFlex continues to present its solutions and demonstrations
through <u>technical delivarables</u>. Mini-symposia at <u>WESC 2019</u> and a
<u>workshop at SEST'19</u> also served to further discuss the project
objectives. Read our <u>project brochure</u> to learn more about EU-SysFlex.







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TRINITY

TRINITY

<u>Trinity</u> project was officially launched on 1st October 2019. The kick-off ceremony took place in Brussels (Belgium) on 3rd-4th October. Within this four-year project, the 19 partners will develop a set of solutions to enhance cooperation and coordination among the Transmission System Operators of South Easter Europe in order to support the integration of the electricity markets in the region, whilst promoting higher penetration of clean energies.

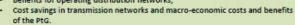
STORE&G3

STORE&GO

STORE&GO concentrated their findings from the four-year project in a roadmap on power-to-gas. They presented the document at a political dinner on 3 December in the European Parliament, inspiring a lively exchange of ideas about sector coupling and large-scale energy storage with the participants.

The partners will present details from their investigations at their concluding conference in Karlsruhe, Germany, on 17–18 February 2019. Covered topics:

- Experiences from demo site operation,
- Environmental impact,
- Discovering legal and regulatory obstacles,
- Outlook on cost and technology development, Benefits for operating distribution networks,









MERLON introduces an Integrated Modular Local Energy Management Framework for the Holistic Operational Optimization of Local Energy Systems in presence of high shares of variable renewable energy sources.

MERLON framework includes pilot testing and validation in real-life conditions through a prosumer-centric approach in an attempt to demonstrate its techno-economic feasibility. Prosumers are the core of MERLON Living Labs that is actually the testbed for MERLON

In October 2019 the Living Lab stakeholders of the Austrian pilot have been introduced to MERLON Demand Response Framework through a locally organised Living Lab workshop in the area of Strem.







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MUSE GRIDS

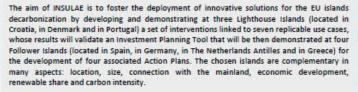


MUSE GRIDS aims to demonstrate a set of technological and non-technological solutions targeting the interaction of local energy grids (electricity grids, district heating and cooling networks, water networks, gas grids, electromobility etc.). The goal is to maximise local energy independency through optimised management of the energy production via end user-driven control strategies, smart grid functionality, storage, combined heat and power (CHP) and renewable energy sources (RES) integration.

Two large-scale pilots will take place in two different EU regions, in urban (Osimo, Italy) and rural (Oud-Heverlee, Belgium) contexts with weak connections to national grids. These pilots will test and promote the main project concepts - the smart energy system and local energy community.

MUSE GRIDS will promote these two concepts not only in pilot projects but also in virtual demo-sites in India, Israel and Spain. Social and environmental aspects of smart multi-energy system transition will be investigated Osimo and Oud Heverlee where citizens will be directly involved.

INSULAE







Read more: http://insulae-h2020.eu/



PROMOTION

Within PROMOTION a unique multi-terminal HVDC demonstrator – the MMC Test Bench – has been built at RWTH Aachen University. At the core of the demonstrator are eight laboratory-scaled Modular Multilevel Converters (MMCs) used to replicate monopolar and bipolar DC networks. To investigate the interactions between HVDC grids, offshore wind farms and Europe's transmission grids, the MMCs are coupled with real-time grid simulations via four-quadrant linear power amplifiers. At the picture is MMC Test Bench Demonstrator at the RWTH Aachen University.

The highly flexible demonstrator is currently used for a wide range of investigations, from the demonstration of operational strategies for HVDC grids to the analysis of harmonic interaction of HVDC and wind turbine converters.

On the picture on the left, you see the MMC Test Bench Demonstrator at the RWTH Aachen University. (c)Martin Braun





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"Innovation for the customers - innovation for the grid" is the vision of the recently started project Platone - Platform for Operation of distribution Networks. The objective: Defining new approaches to improve observability and exploitation of flexibility regarding volatile renewable energy sources in combination with less predictable consumption patterns. The twelve project partners will develop advanced management platforms to unlock grid flexibility and to realize an open and non-discriminatory market, linking users, aggregators and operators. The solutions will be tested in three European field trials. Visit www.platone-h2020.eu, subscribe to the mailing list or join the Platone group on <u>Linkedin!</u>





GOFLEX



GOFLEX discussed local flexibilities with DSO associations
At this year's European Utility Week, GOFLEX managed to bring
together the four big European DSO associations E.DSO, CEDEC,
Eurelectric and GEODE as well as representatives of the European
Commission and ENTSO-E to discuss the role of local flexibilities for
stabilising the grid. The workshop was organised in collaboration with
InterFlex. The debate revealed a general agreement of all involved

stabilising the grid. The workshop was organised in collaboration with InterFlex. The debate revealed a general agreement of all involved actors on the need of innovative platforms to organise local flexibilities, either to be used by grid operators to keep their networks stable or to trade them on the reserve market.

GOFLEX will end in February 2020. Its innovative work will be continued in the H2020 project FEVER.

SOGNO



SOGNO Innovation Event in Berlin

How can the energy sector benefit from 5G? Which new applications are possible combining the upcoming mobile standard and other cutting-edge enablers? SOGNO brought together practitioners in the energy field, 5G experts and solution providers in Berlin to have them join their expertise and answer these questions. In a co-creation process at EIT Digital Berlin, new & innovative use cases for 5G technology in the energy sector were brought up and discussed. Two "wheels of fortune" were used to find novel and sometimes surprising combinations of enabling technologies and areas of application.

A second workshop is planned for 2020 to develop solutions for the challenges & opportunities identified in the first event.







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