

The **BRIDGE Initiative** was presented at the **14th Energy Efficiency & Renewables Exhibition & Conference for South-East Europe** on 27<sup>th</sup> – 29<sup>th</sup> March in Sofia, Bulgaria, as part of a presentation '**Energy storage projects in Horizon 2020**' delivered by Rémy Denos (European Commission, DG Energy). Further event participation is planned for the coming months:

- Mark your calendar to join the 11 BRIDGE projects at **INNOGRID2020+** in May. Participating projects will have the chance to present their work and achievements at both the conference and during the exhibition session!
- The BRIDGE Initiative will also participate in the **EU Sustainable Energy Week** in June and is currently organizing its sessions! Join the session on "**Batteries' role in energy transition**" where 3 BRIDGE lighthouse projects TILOS, INTERFLEX and NETFFICIENT will share their experiences in the field!



For more information visit [www.h2020-bridge.eu](http://www.h2020-bridge.eu) and follow [@BRIDGE\\_H2020](https://twitter.com/BRIDGE_H2020) on Twitter!

Currently there are **36 Horizon2020 Smart Grid & Energy Storage projects** participating in BRIDGE, representing **453 organisations** from **36 countries**, in receipt of a total of **€413M of EC funding**

**Five new projects** joined BRIDGE and presented their goals during the last Coordination meeting held in November 2017 in Brussels. Find out more about these new projects in the [BRIDGE Brochure](#), and also check out their websites:

- CROSSBOW > [www.crossbowproject.eu](http://www.crossbowproject.eu)
- EU-SysFlex > [www.eu-sysflex.com](http://www.eu-sysflex.com)
- FLEXITRANSTORE > [www.flexitranstore.eu](http://www.flexitranstore.eu)
- OSMOSE > [www.osmose-h2020.eu](http://www.osmose-h2020.eu)
- SMILE > [www.h2020smile.eu](http://www.h2020smile.eu)



**FLEXITRANSTORE** experts developed a questionnaire regarding various aspects related to flexibility, for the purposes of a '**Flexibility Challenges in the SEE region and Worldwide Trends**' analysis. The questionnaire was disseminated to a wide network of stakeholders, covering the whole energy value chain. The replies provided very useful insights into the widely-discussed topic of **grid flexibility**. Respondents considered increased sources of **flexibility** to be essential in a system with high levels of intermittent generation, and they identified **renewable energy integration, cross border interconnections, and grid stability**, as the key priorities.

On 28<sup>th</sup> March, **ELSA** was successfully reviewed by the European Commission for the second time. The consortium members met in Paris to present to their EC Project Officer the progress made since the mid-term review in December 2016. As part of the review, there was a visit to the **Ampere Building**, one of the six trial sites where the ELSA energy storage system is currently being demonstrated. Two undismantled **2<sup>nd</sup>-life EV batteries** have been installed and are being used to store electricity from roof-top solar panels. This is part of a complete renovation and upgrade that the ten-floor office building is undergoing to become **sustainable**.

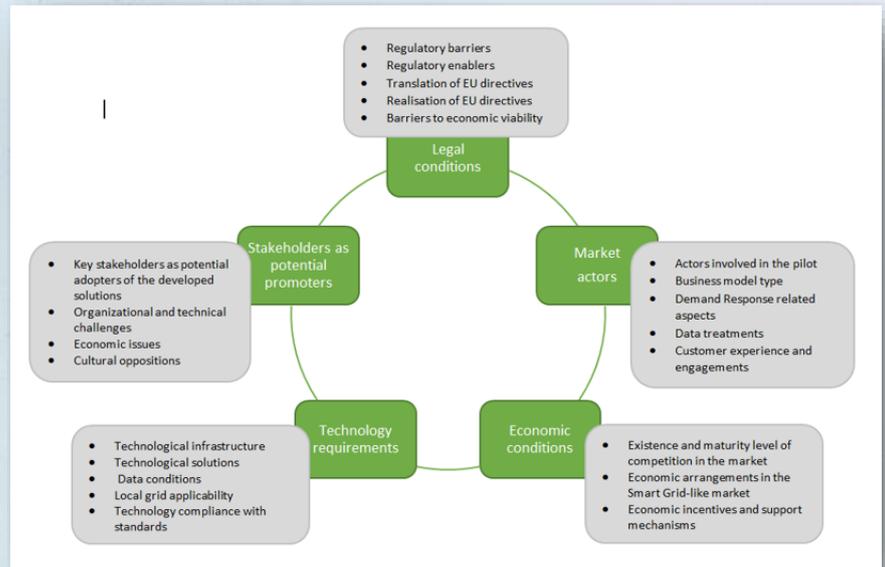
**GOFLEX** has been involved in **encouraging citizens to participate in a new energy system**. **GOFLEX** project trial partner and utility SWW invited 50 citizens in the Wunsiedel district of Germany to develop initial ideas for new **business models** in a decentralised energy system. In a **Design Thinking Process**



moderated by B.A.U.M. Consult, the participants interviewed each other to articulate their needs and wishes; formulated initial ideas; and as teams developed them into prototypes made of LEGO blocks and craft materials. The teams presented **innovative solutions** such as charging E-cars on lampposts, energy communities with shared use of storage, and prosumer concepts that include waste management and decentralised gas production. The next step will be for SWW to use these ideas to **develop the business models that will be tested in their trial site**.



**inteGRIDy** has achieved all of its year one milestones; the project has agreed the basis of the innovations which will be deployed in the pilot sites. inteGRIDy partners are aligned around a common understanding of the **regulatory and market needs** for stakeholders, a **reference architecture** is in place to be used for its energy tool adaptation and integration, and promising **business cases** have been identified. inteGRIDy has gained momentum and the next phase is now underway, with special focus on developments for energy tools toward unified interaction and validation. The inteGRIDy project's **second newsletter** provides progress updates, and this **video** provides the information in animated form! Also check out [@integridy\\_H2020](#) on Twitter.



Energy Market Analysis of Key Areas

The **InterFlex** demonstrators started off their second year by reaching new milestones including:

- The launch of the **Renewable Energy self-sufficient village** in Simris (Sweden) by E.ON
- The Inauguration of the **Nice Smart Valley Showroom** by Enedis,
- **A field trial of smart PV inverters** by CEZ Distribuce,
- Testing of control boxes at customers' premises within the **Avacon Smart Grid Hub**

Recently the Enexis teams started to build their **flexibility market system**; EV customers will have the opportunity to receive the **latest information** generated from their participation in the project. A portal for **flexibility** will be provided for **aggregators** involved in the project. A website has been also launched for public information: [www.interflexstrijp.nl](http://www.interflexstrijp.nl).

Interflex have created an animated video to explain the project. To watch the video, click [here](#).



The **INVADÉ Exploitation Workshop** in March served as an excellent opportunity to **influence the outcome** of this EU project. The organisers were delighted to receive positive feedback:

*"I have been to many other workshops, but this one was really efficient. We witnessed how interested and engaged people actually were in the **flexibility market topic**". (Dr. Iliana Ilieva, Senior Researcher at Smart Innovation Norway)*

Following the workshop, the project's **exploitation user group** will be expanded:

*"We will include more stakeholders from this workshop, and we will harvest inputs from them on different parts of the project". (Sanket Puranik, Researcher at Smart Innovation Norway)*

Click [here](#) to watch the video from the workshop.

The **MIGRATE** consortium was pleased to invite the **power system community** to the ENTSO-E premises to discuss the project's results after two years of intensive work. On the 28<sup>th</sup> March about 50 participants from companies and institutions across Europe exchanged views on topics related to the **evolution of grid codes** and **power quality issues**. The Work Package Leaders also provided updates on their initial insights and challenges in terms of the secure transition towards an upcoming network operation with a **high penetration of power electronic devices**. This 2<sup>nd</sup> Stakeholder Workshop was **very successful** thanks to intensive discussions between consumers, manufactures, universities and transmission system operators. The MIGRATE team is already looking forward to the next Stakeholder Workshop in 2019.



**NETfficient** is now in its final year, and a number of events are being planned in order to **disseminate** what project partners have developed and learned in terms of the integration of networked storage into homes, larger buildings, street lighting systems and an aquarium in the medium voltage grid.

- NETfficient is holding a **Study Visit** on 14<sup>th</sup> - 15<sup>th</sup> June 2018, offering the opportunity to visit the **pilot sites** on the Island of Borkum and learn more from the experts involved.
- NETfficient will also be exhibiting and presenting at the **European Utility Week** in Vienna on 6<sup>th</sup>-8<sup>th</sup> November.
- A number of webinars are also being planned.

Keep an eye on the NETfficient website [www.netfficient-project.eu](http://www.netfficient-project.eu) for further information!



Since 2015, **NOBEL GRID** has been developing, integrating and demonstrating **new smart energy services** which can be used by all actors in the electricity distribution grid and market. As NOBELGRID comes to an end in June, the project has been involved in several events including:

- **Buurzame Stroom Kick-Off Event** in Ghent, Belgium on 11<sup>th</sup> March where it was announced that the NOBEL GRID solutions will be tested in several houses in the region. Click [here](#) for more information.
- **Global Smart Energy Summit 2018**, in Dubai on 17<sup>th</sup> March.

In the coming months, Nobel Grid will continue to be active involved in **disseminating** the project's results including at the following events:

- **'Citizens Meet Energy'**, Terni, 2<sup>nd</sup> May,
- **EU Sustainable Energy Week**, Brussels, 5<sup>th</sup> - 7<sup>th</sup> June,
- **NOBEL GRID Project Final Event**, Alginet, 25<sup>th</sup>-26<sup>th</sup> July

The RealValue Project Coordinator **Glen Dimplex** was delighted to welcome 32 partners from Ireland, Germany, Latvia, Finland and the UK to Belfast for the **final Consortium Meeting** of the project on 11<sup>th</sup>-12<sup>th</sup> April. All participants actively engaged in two-days of presentations and discussions, however, the hosts also managed to find time in the agenda to show off some of the best of Belfast!

All efforts are now focused on preparing for the **RealValue Final Event** which will take place in Brussels on 17<sup>th</sup> May. A number of high-profile **guest speakers** have been secured for this event, which will be used to share the **main results and findings** with all key stakeholders.

The RealValue project invites all key stakeholders to attend this event. For more information and to sign up visit: [www.reavalueproject.com/finalevent](http://www.reavalueproject.com/finalevent).



The **SENSIBLE** project has entered its final year and demonstration phase.

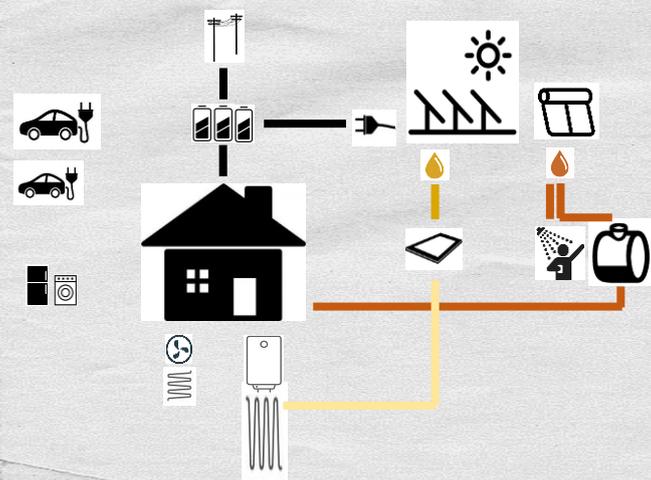
Partners are now seeking to *integrate energy management and distributed energy storage technologies* to examine the benefits that this can bring to households, communities and commercial buildings - read more at [www.projectsensible.eu/demonstrators](http://www.projectsensible.eu/demonstrators).

On 6<sup>th</sup> March, the project was visited by members of the European Commission at its **Évora-Valverde demonstrator** to observe how energy storage has been applied to a real network to provide new techniques and technologies that *create value* in a way that complements the electricity distribution network, but also provides the end-users with new energy services. For more information, click [here](#) to watch the video.



The **SmartNet** project has recently entered its third and final year. The **three pilot projects** are up and running, the simulation platform is ready, and simulations are being carried out.

- SmartNet was involved in **European Utility Week** in Amsterdam in October 2017, where it organised a full-morning session.
- A **project meeting** was held at the end of January in Glasgow, providing an opportunity to exchange experiences and ideas with other initiatives, such as ENA Open Networks Project and USEF Foundation's Aggregator workstream. Podcasts are available [here](#).
- SmartNet is in the process of organizing a **full-day Dissemination Workshop** in Brussels on 20<sup>th</sup> June. Click [here](#) to find out more information.



**STORY** has one residential building (a 1931 farm) which has been turned into a **full electrical Living Lab**. It was renovated prior to STORY into a passive building using advanced materials such as vacuum insulation, different types of triple glazing, and advanced controls.

As part of STORY, the 'smartification' process was initiated with the integration of short term and seasonal thermal storage and static batteries. To make it even more interesting, the owners decided to co-invest to include electrical vehicles, hybrid PV and an extended vacuum boiler set up. VTT's **Model Predictive Control** is currently being integrated to extend the full off-grid period to the maximum and prepare for grid supporting operation, relevant for further developing this site into a **Local Energy Community**.