

EEBUS at E-World 2018 in Essen: how smart homes can facilitate the energy transformation.

A smart home communicates its needs.

Content of this press release:

- Energy management with EEBUS provides flexible energy consumption in the home network that compensates for production and load peaks with renewable energy.
 - First practical demonstration of “demand side flexibility” in Germany.
 - Networking with consumers provides tangible advantages of smart metering technology.
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The future stability of the electricity grid has been a continuous subject of discussion since the German energy policy turnaround, and people are wondering what will happen in times of low energy demand, such as New Year’s Day, or on days when there is no wind and little sunshine, or when the e-mobility boom arrives and, with it, new power consumers.

The energy transformation demands new flexibility

These phenomena have one thing in common. To successfully accomplish the transition to renewable sources of energy, which are associated with fluctuations in generation, greater flexibility will be necessary in all areas of energy management. A good example of energy management flexibility is time-delayed charging. It involves the electric cars’ charging units coordinating their power consumption within the home and the grid with other large consumers and scheduling their charging periods over a longer period to avoid peak demand periods and network overload.

EEBUS and its partners have the solution for demand side flexibility

The EEBUS initiative and its member companies will have a joint stand with their European partner organisation ESMIG* and Energy@home at the E-World Water & Energy trade fair in Essen from 6 to 8 February 2017. They will be showcasing their communication solution for the flexible management of electrical consumption there for the first time in Germany.

With their “common language for demand side flexibility” EEBUS, ESMIG and Energy@home allow power suppliers and grid operators to check their customers’ variable loads securely, anonymously and directly, and to control them over time. The communication solution being presented works throughout Europe on the basis of smart meter gateways, such as those that will be gradually introduced throughout Germany as of spring 2018. When customers throughout Europe are connected up to this network, power suppliers and grid operators will be able to offer innovative business models to them.

Demand side flexibility with EEBUS delivers the first tangible benefits of smart metering technology because the home can tell the grid what its power requirements are and the grid can tell the home when the best time to use the power is.

Home energy management as the gateway to the smart grid

To achieve demand side flexibility, a reliable connection to the power grid via a smart meter infrastructure is necessary and all the consumers in the home have to be connected.

The heating system, the E-Mobility charging station and appliances are all connected to a central home energy manager that represents the entire home's energy requirements vis-à-vis the grid. To ensure the interoperability of the numerous proprietary smart home systems, EEBUS Initiative and its more than 70 member companies developed a cross-sector and manufacturer independent communication standard – the global language for energy in the Internet of Things.

The communication solution for demand side flexibility that EEBUS, ESMIG and Energy@home are showcasing at E-World Energy & Water 2018 also makes financial sense. According to a study published in 2017 by Vaasa ETT and Joule Assets¹ investments in home energy management and flexible consumption management would have a payback time of less than two years if this technology were widely available.

All the products and solutions that EEBUS, its member companies and partners are presenting at E-World Energy & Water 2018 are either already on the market or in the final, pre-market launch development stage.

For a personal meeting with demonstration at E-World Energy & Water from 6 to 8 February 2018 please contact the press office below:

Social Media Hashtag: #EEBUS

About EEBUS

The EEBUS Initiative e.V. is a non-profit organisation with over 70 members, most of which are leading stakeholders in all fields of connected home, electrical mobility, energy and smart appliances. Members of the EEBUS Initiative collaborate to establish the EEBUS standard – a common language for energy in the Internet of Things. The EEBUS communication standards are developed in democratic processes by the Smart Appliances, HVAC – Smart Heating, E-Mobility, Energy Storage and Smart Grid Working Groups. All developed specifications are internationally standardised and freely accessible. You can find further information and the member list at www.eebus.org.

Follow EEBUS on Twitter [@EEBUS_ORG](https://twitter.com/EEBUS_ORG) or LinkedIn www.linkedin.com/company/eebus

Information about EEBUS partner organisations can be found here: www.ESMIG.eu , www.energy-home.it

Press office for further information and image material

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¹“Demand Side Flexibility through Smart Homes” study,
https://www.eebus.org/wp-content/uploads/2017/10/dsf_through_smart_homes_18_08_2017.pdf