



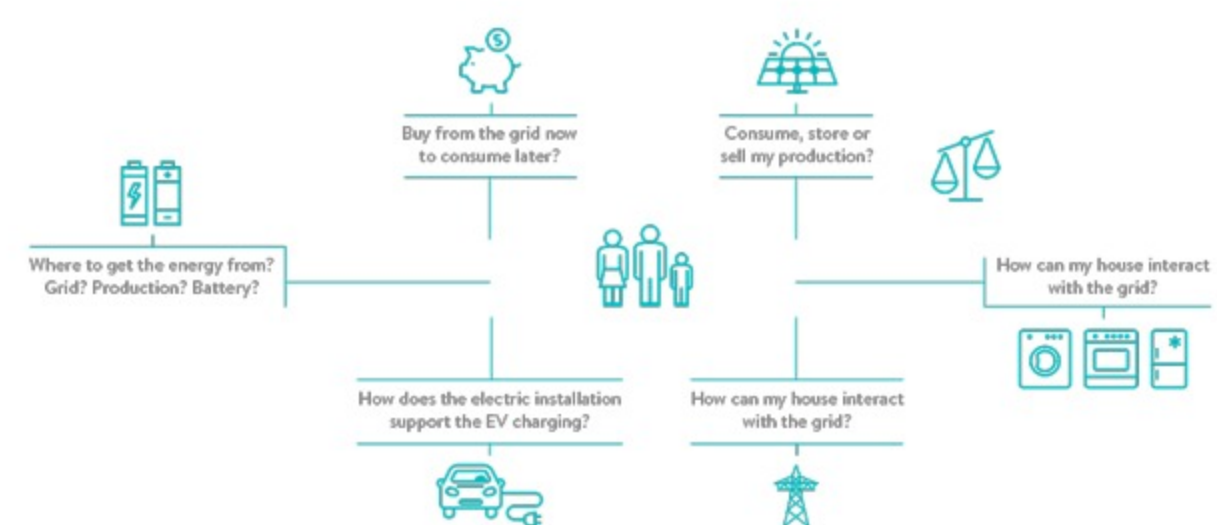
## Welcome note

Pedro Godinho Matos, InteGrid Project Coordinator

"InteGrid project has the ambitious objective of bridging the gap between consumers and utilities, developing and demonstrating solutions for a renewable energy powered World, where Smart Grids, from distribution system operators, play a key role. Interconnecting all the consumers, producers and storages in an increasingly complex decentralized ecosystem is a challenging task, that will require from our future grids the capability to unlock and manage a very high level of flexibility."

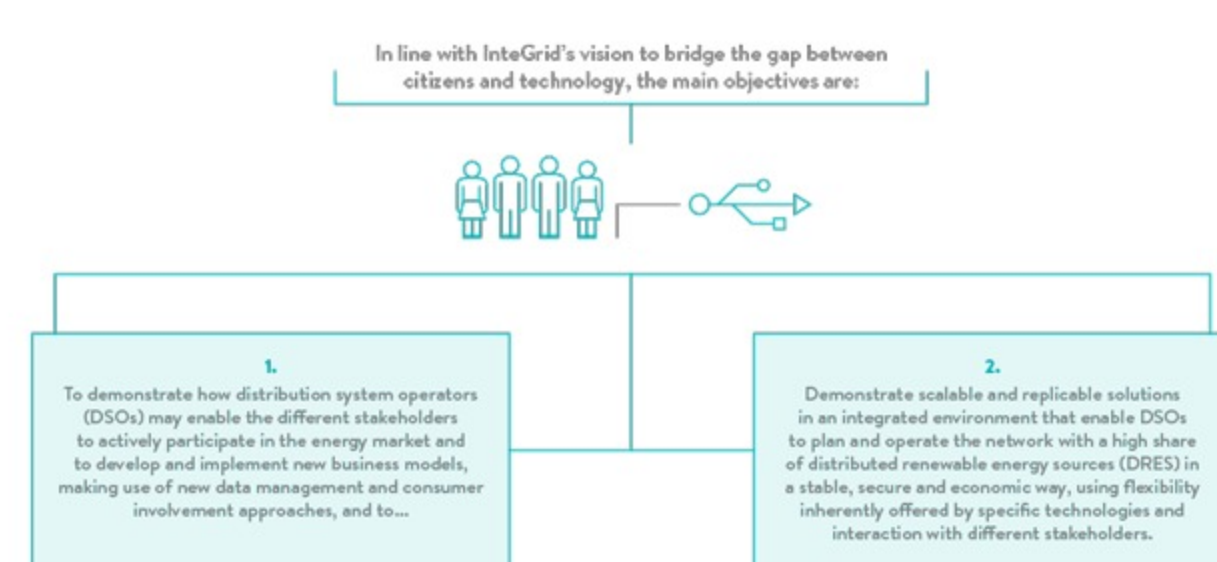
## Project and Consortium Presentation

InteGrid's vision is to bridge the gap between citizens and technology/solution providers such as utilities, aggregators, manufacturers and all other agents providing energy services, hence expanding from DSOs distribution and access services to active market facilitation and system optimisation services while ensuring sustainability, security and quality of supply.



Additional information and latest news are available at the project website: <https://integrid-h2020.eu/>

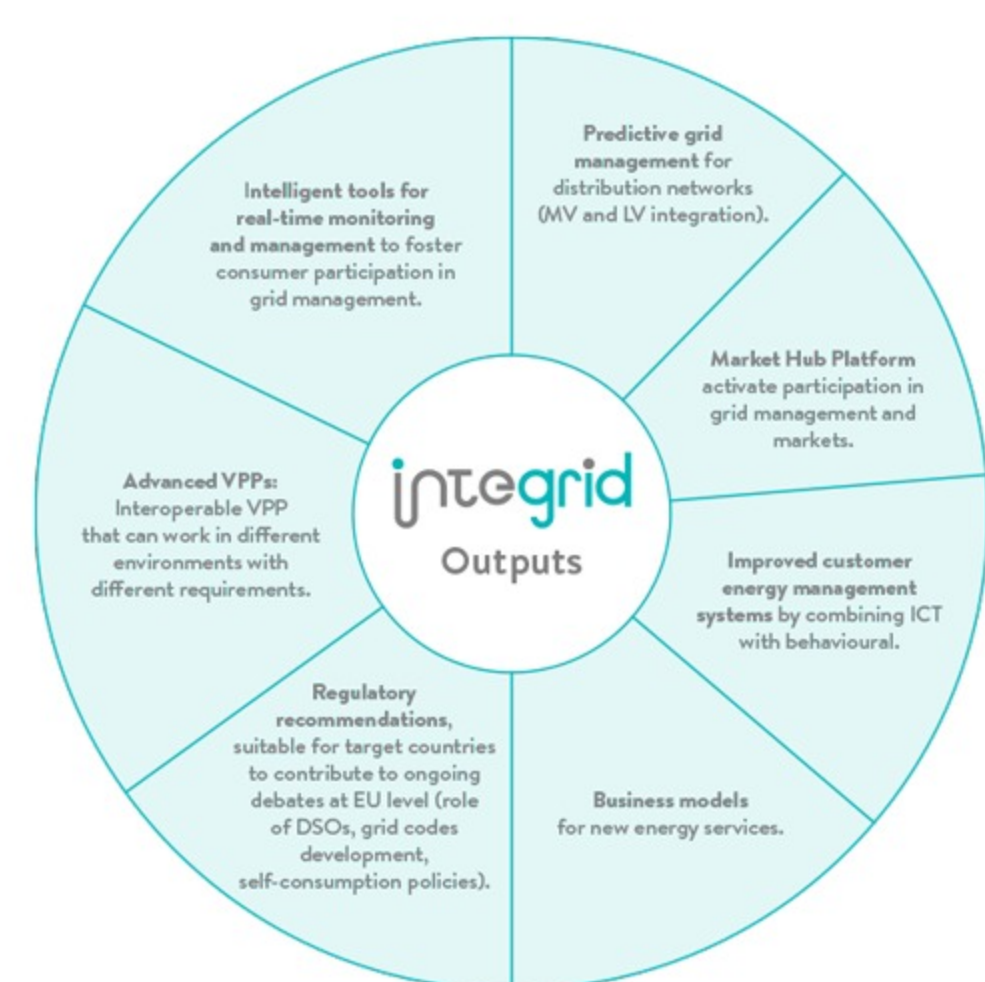
## Objectives



[» read more](#)

## Expected Results

The figure below depicts InteGrid's main outputs and outcomes:



[» read more](#)

## Demos

### Portugal



The Portuguese Demonstrator aims to foster the management of the distribution grid in a new and more complex reality, combining new Distributed Energy Resources(DER), including the development of customer's flexibility, with existing assets, in a predictive and integrated way, over a large-scale environment.

While combining the operation of DER and advanced grid automation, it will be using an Integrated architecture to maximize the aggregated benefit of all the stakeholders involved (Consumer, prosumer, DSO, retailer, aggregator, etc..) One of the most challenging objectives will be the enhancement of Medium Voltage (MV) and Low Voltage (LV) consumer's engagement strategies driven by behavioral science.

[» read more](#)

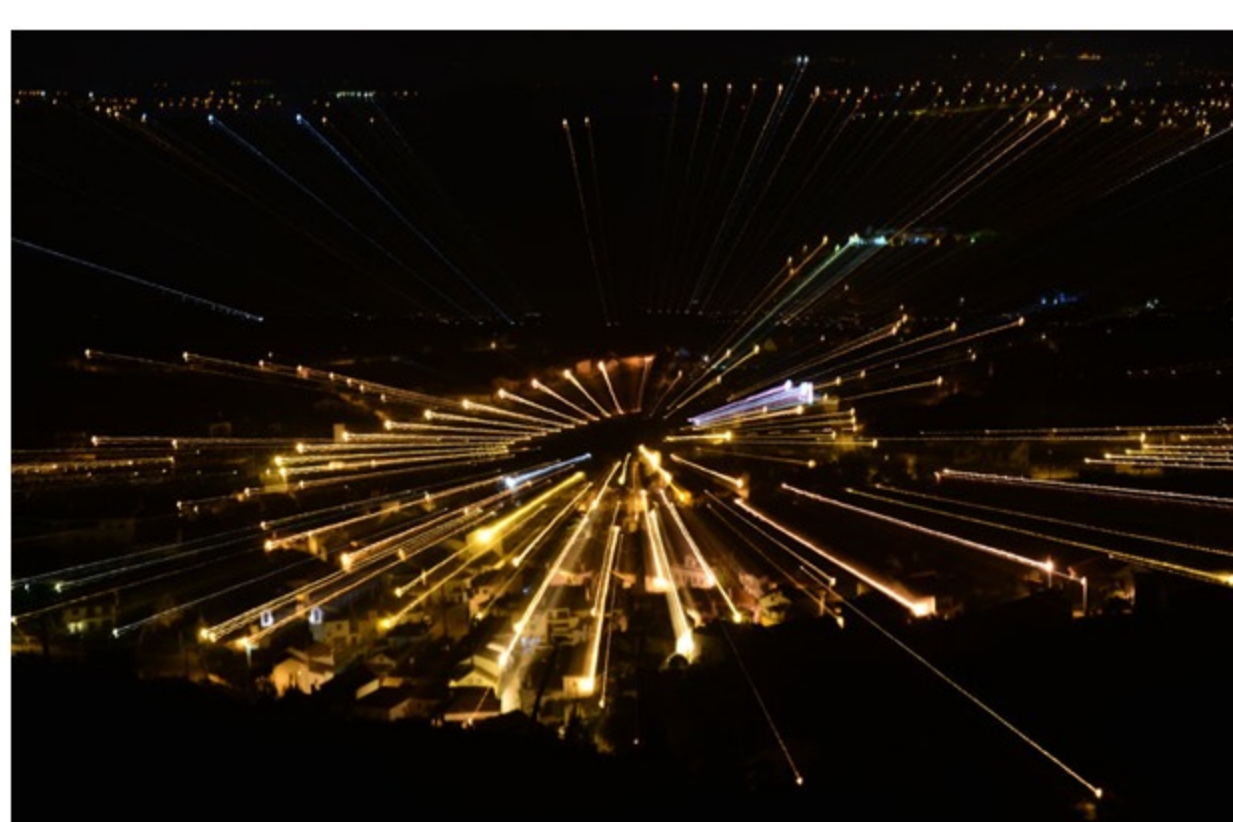
### Slovenia



In this project we will intelligently integrate existing DSO systems like advanced metering infrastructure (AMI), demand response of loads (DR), Virtual Power Plant (VPP), recharging station for Electric Vehicle (EVCS), energy storage and supervisory control and data acquisition (SCADA) into a holistic system. Currently all systems are working independently, but in the project we enable the integration of those elements. Existing VPP demand management tool will be upgraded with existing small scale grid batteries management systems and voltage optimization, control and forecasting algorithms for development of Distribution System Operator (DSO)'s specific ancillary services and active grid management. That means that a signal from SCADA system, comprising all necessary information will trigger technical VPP flexibilities at specific troubled location to restore secure and reliable operation.

[» read more](#)

### Sweden



The Stockholm demonstrator has a particular emphasis on user engagement mechanisms, with novel approaches and evaluation methods to overcome the household engagement barrier associated with demand side management programs. Beyond the demand side management programs, grid-side solutions such as forecasting signals and smart substations will be deployed and evaluated in Stockholm.

[» read more](#)

## Past Events:



InteGrid was presented at InnoGrid 2020+ . InnoGrid2020+ is THE EU event on innovation in electricity networks. The European Network of Transmission System Operators for Electricity (ENTSO-E) and the European Distribution System Operators for Smart Grids (EDSO) focused in this sixth edition on the arising network of networks, where power grids and transport, telecom and IT, digital and physical link up in an unprecedented manner. Special attention was devoted to the rapidly evolving transmission-distribution interface. About the agenda check out for more info at (<http://innogrid2020.eu>)

More about the event presentations displayed at the InnoGrid2020+ conference can be downloaded as follows: [Slides](#) / [Videos](#)

### Data management & Data hubs

Johannes Reinold, Managing Director, Netz Niederösterreich, Austria

Olivier Corradi, Founder, Tomorrow

Olivier Hersent, CEO and CTO, Actility, France

Jan Magne Strand, Senior Advisor, Eihub, Norway

### R&D PROJECTS

Flexiciency - Laura Marretta, Project Management and Exploitation Unit - Global Infrastructure and Network, ENEL, Italy

Estfeed - Kaija Valdmaa, Project Manager, Elering, Estonia

InteGrid - Pedro Godinho Matos, Business Development Manager, EDP Distribuição, Portugal

Discussion moderated by Konstantin Staschus, Chair, ETIP Smart Network for the Energy Transition; Managing Director, StaRGET

**SPEAKERS:** Johannes Reinold; Jan Magne Strand; Kaija Valdmaa; Olivier Corradi; Laura Marretta; Pedro Godinho Matos; Olivier Hersent.

**MODERATOR:** Konstantin Staschus.

