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## Wide scale demonstration of Integrated Solutions and business models for European smartGRID

WiseGRID will provide a set of solutions and technologies to increase the smartness, stability and security of an open, consumer-centric European energy grid. The project will combine an enhanced use of storage technologies, a highly increased share of RES and the integration of charging infrastructure to favour the large-scale deployment of electric vehicles.

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## EXPECTED RESULTS

WiseGRID results will be packaged in the form of nine different technological results/products:

- 1. WG IOP (WiseGRID InterOperable Platform):** ICT platform for real time monitoring capable of **processing the heterogeneous and massive data stream** coming from the distributed energy infrastructure.
- 2. WG Cockpit: application for DSOs or microgrids Operators** in order to control, manage and monitor their own grid in order to improve flexibility, stability and security of their network.
- 3. WiseCORP:** corporate application **for businesses, industries, ESCOs and public facilities consumers and prosumers** to become smarter energy players.
- 4. WiseCOOP:** application **for energy retailers, aggregators, local communities and cooperatives of consumers and prosumers** (and other intermediaries) to assist them in achieving better energy deals.



- 5. WiseHOME:** application **for individual domestic consumers and prosumers** to become active energy players.
- 6. WiseEVP (WiseGRID Electric Vehicle Platform):** tool for **vehicle-sharing companies and e-vehicles fleet managers** to optimize the smart charging and discharging of the EVs and reduce energy billing.
- 7. WG FastV2G: EV charging station** that will make possible **to use EV as dynamic distributed storage devices**, feeding electricity stored in their batteries back into the system.
- 8. WG STaaS/VPP (WiseGRID energy Storage as a Service/Virtual Power Plants):** service by which consumers/prosumers can easily **offer to the market their unused storage or generation capacity**.
- 9. WG RESCO (WiseGRID Renewable Energy Service Company):** tool for enabling the provision of energy to the consumers from RES making possible that the household/businesses serviced do not own and maintain the generation equipment.

### PROJECT DATA

Starting date: 01/11/2016  
Duration: 42 Months  
Budget: 17,6 M€

## DEMONSTRATION SITES

WiseGRID integrated solution will be demonstrated and evaluated under real-life conditions in **four large-scale demonstrators**:

- The Electric cooperative of Crevillent in **Spain**.
- The renewable energy cooperative Ecopower in Flanders, **Belgium**
- The public Distribution System Operator (DSO) of Terni in **Italy**.
- The national Distribution System Operator (DSO) HEDNO in **Greece**.

Demonstration sites will involve more than **1700 users, 60 batteries** – totalling more than 300kWh of installed capacity-, **50 heat pumps** – totalling more than 160kWh of installed capacity-, **180 EV, 40 charging stations and more than 70MWh of RES** -PV, Wind Turbines and Hydro-.

