

SMART ENERGY SYSTEMS IP 4

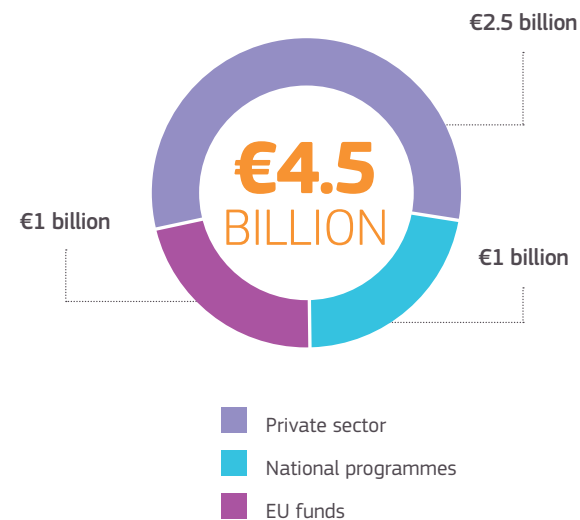
Smart energy systems are essential for managing increasing shares of renewable electricity on the grid. To meet the European Union target of 32% renewables by 2030, renewable electricity is set to make up over 50% of electricity consumption by 2030, with the majority (over 30%) coming from wind and solar. This Implementation Plan identifies R&I activities including storage, flexible power generation, demand response and sector coupling.

Each year Joint Programming Platform of participating countries organises at least one cross-border call on priorities of the Implementation Plan.

EXAMPLES OF SMART ENERGY SYSTEM TARGETS INCLUDE:



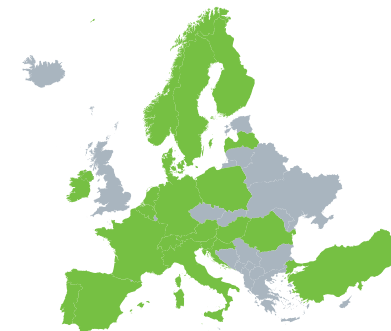
OVERALL INVESTMENT TO BE MOBILISED FOR SMART ENERGY SYSTEMS FOR 2018–2025



Who's involved ?

23 COUNTRIES

Austria, Belgium (Flanders/Wallonia), Croatia, Denmark, France, Finland, Germany, Hungary, Ireland, Israel, Italy (Lombardy), Latvia, Norway, Netherlands, Poland, Portugal, Romania, Slovenia, Spain, Sweden, Switzerland, Turkey and the UK (Scotland)



EXAMPLES OF R&I ACTIVITIES

TILOS

The project is aimed at affordable large-scale renewables integration, combining hybrid renewables energy plants (wind and photovoltaic) with an advanced battery storage system. Demonstration takes place on the island of Tilos, Greece.

Budget: €13.7 million 2015-2019

<https://www.tiloshorizon.eu/>

WISEGRID

This project develops advanced ICT services for smart grids. Four large-scale demonstration projects are underway, involving more than 1700 users, 60 batteries, 50 heat pumps, 180 electric vehicles, 40 charging stations and 70 MWh of renewables capacity.

Budget: €17.6 million 2017-2020

<https://www.wisegrid.eu/>

STAKEHOLDERS

European Technology & Innovation Platforms (ETIP), ETIP Smart Networks for Energy Transition (SNET), ETIP Photovoltaic Solar Energy (PV), ETIP District Heating and Cooling (DHC).