

MERLON

Development of an integrated modular local energy management framework for the holistic operational optimisation of local energy systems

Grant Agreement no.
824386



Total Budget
EUR 7,600,000



Starting Date
January 2019



Consortium
12 Partners



Type of Action
**Innovation
Action (IA)**



EC contribution
EUR 5,700,000



Duration
36 months



Demonstration
2 Pilots

MERLON

INTEGRATED LOCAL ENERGY SYSTEM

AGGREGATOR / GLOBAL FLEXIBILITY MANAGER

OVERLAY TRANSMISSION/
DISTRIBUTION GRID

ANCILLARY SERVICES > < BALANCING SERVICES

LOCAL ENERGY SYSTEM
OPTIMISATION TOOLS

DEMAND/SUPPLY
FLEXIBILITY FORECASTING

HIGH-LEVEL DISPATCH
SCHEDULING

MONITORING AND FLEXIBILITY
DISPATCH FOR LOCAL ENERGY
SYSTEM OPTIMISATION

DSO

OPTIMISATION & MANAGEMENT

FLEXIBILITY ANALYSIS < > FORECASTING
SEGMENTATION & CLUSTERING < > DYNAMIC VPP CONFIGURATION
& OPTIMISATION

FLEXIBILITY POOLING & SHARING MARKETPLACE



CO-GENERATION



ELECTRIC
VEHICLES



STORAGE

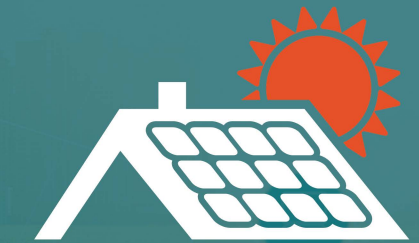


RENEWABLES



COMMERCIAL
INDUSTRIAL
RESIDENTIAL

DISTRIBUTED ENERGY RESOURCES



LOCAL FLEXIBILITY
OPTIMISATION MANAGEMENT

VIRTUAL THERMAL ENERGY STORAGE

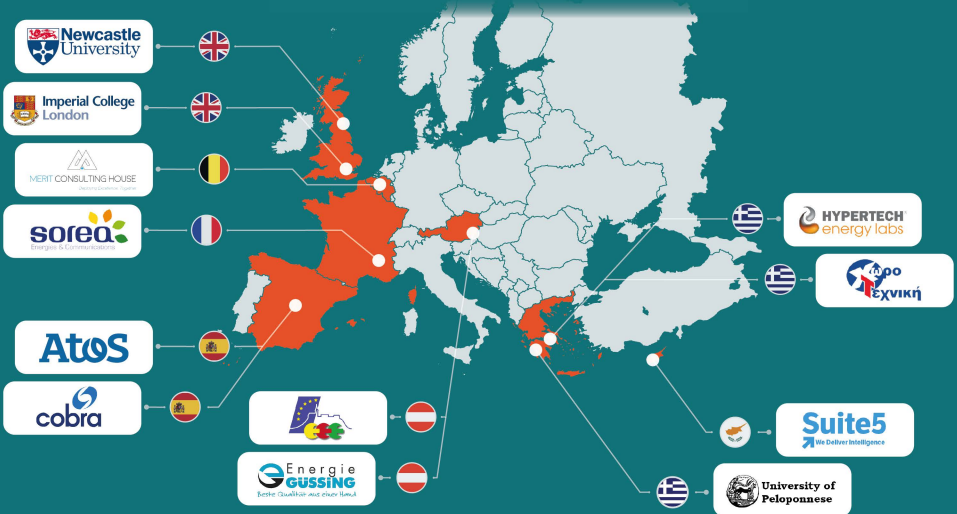
FLEXIBILITY PROFILING,
ANALYSIS AND FORECASTING

MONITORING AND CONTROL DSS

PROSUMER

AUTOMATED DEMAND
RESPONSE OPTIMISATION

PROJECT CONSORTIUM



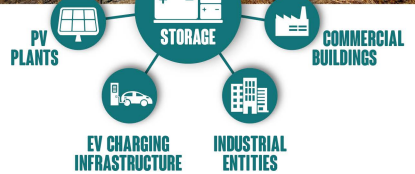
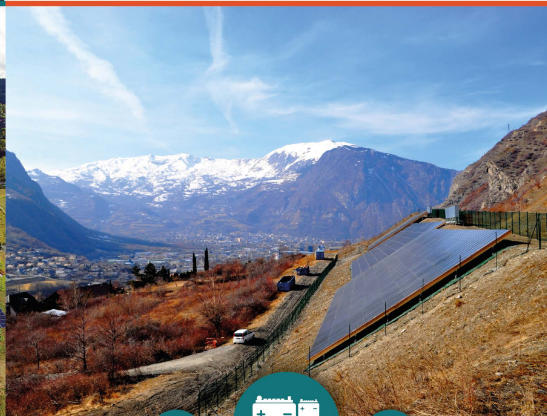
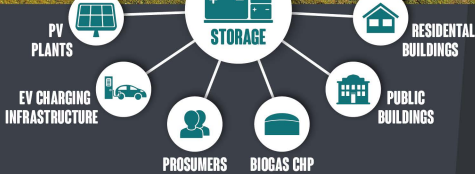
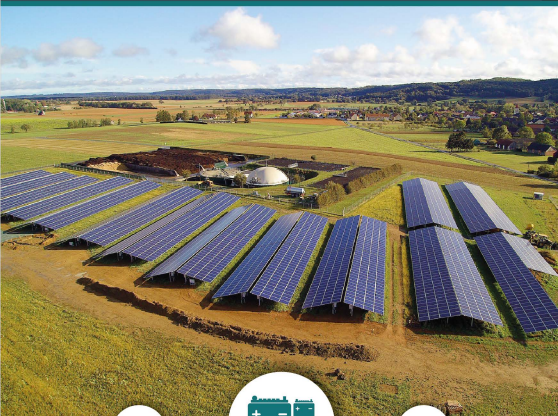
PILOTS



AUSTRIA
GÜSSING / STREM



FRANCE
MAURIENNE VALLEY



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824386.

