

Barcelona Energy Community

ENERGY DATA EXCHANGE FOR REAL PEOPLE



PROSUME

decentralizing power



In Q4 2018, Mangrovia (through its subsidiary branch Prosume Solutions SL) won a grant from the city council of Barcelona to develop a pilot project for its community. The project, "[Barcelona Energy Community](#)", focuses on the blockchain registration of data related to consumption, production and energy storage of the town buildings.

Due to the latest regulation permitting actual peer-to-peer energy exchange amongst communities (Real Decreto 15/2018), the pilot's main aim is to simulate energy exchange between city buildings.

MAIN FEATURES

The main features of the service platform are:

- Deployment and validation of blockchain based tools that support smart communities of energy prosumers.
- Integration of power plant, storage systems and consumption sites.
- Peer-to-peer exchange of electricity between prosumers on a distributed micro-grid.
- Micro-grid management tools.
- Integration of the tools developed by the city council through the EU-funded DECODE project (development of the blockchain framework for energy will be based also on the specific requirements provided by the DECODE steering Committee).

KEY POINTS

The project will install around 20 blockchain light nodes in these buildings, adding to the nodes that will be cloud-hosted by June 2019. The project's validation will begin in September 2019 and conclude in December 2019.

- company: Prosume Solutions sl
- counterpart: Ajuntament de Barcelona
- type: Grant
- date: November 15 th , 2018