

R&D PROJECT



Title of the project

CREATING cOMmunity enERgy Systems

Acronym

CREATORS

Content of the project

Local community energy systems (CES) initiators lack the capacity for high-quality simulation, business modelling and automated operations. Local CES lack the services that allow them to employ advanced energy system technology. The EU-funded CREATORS project will support technical, financial and social processes that support local initiators to establish and operate advanced CES. The project will be deployed in four sites in Belgium, Spain, Slovenia and Estonia and reproduced in another six sites in Bulgaria, France, the Netherlands and Spain. The delivered services will reduce preparation and operational costs by 60 %, ensure 99.95 % uptime, reduce capital expenditure by up to 35 % and increase additional incomes by 40 %, resulting in local energy price reduction and job growth across CES.

General objectives

The objective of the CREATORS market-entry program is twofold: on one side demonstrating the added value of CREATORS approach to energy community development and management; on the other side creating a strong link with the local community energy initiators to be used as market entry for CREATORS solutions.

Project tasks

- I. Project Management
- II. Simulation and emulation engine (SEE) for community energy systems
- III. CREATORS energy management and trading platform for CES
- IV. Financing procedures and business models for community energy systems
- V. CREATORS CES-as-a-service
- VI. Demonstration and validation of the CREATORS approach on community energy system
- VII. Communication, dissemination and market engagement

Results and conclusions

During the execution of the CREATORS project, Tier 1 pilots were deployed in various Energy Communities across sectors such as tertiary, industrial, and residential. In each case, a customized governance model was implemented, tailored to the specific characteristics and limitations of each environment. From a technological standpoint, advanced systems were integrated for remote monitoring and control of assets via a cloud-based controller. This system optimizes energy flows in real time, considering variables such as demand, available storage capacity, and price signals. The results demonstrated that as the pilot solution scales, its technical and economic viability significantly increases.

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BUSINESS AREAS

Área Infraestructuras
COMSA INDUSTRIAL

DURATION

2020-2024

BUDGET

6.845.000,00 Euros

KEYWORDS

Energy community development and management/Platform for CES

COORDINATOR

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EXTERNAL FINANCING

