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**FEDERated - "system of systems" - approach for flexible and interoperable energy COMMunities**

FEDECOM is a 48 months EU Horizon Europe funded project started on October 1st, 2022. FEDECOM is developing the technical and business ecosystem to demonstrate the advantages of energy sector coupling across European energy communities. Integrating the local energy systems across the federation of communities will bring economic benefits, improve grid stability and reliability, as well as reduce the overall carbon footprint.



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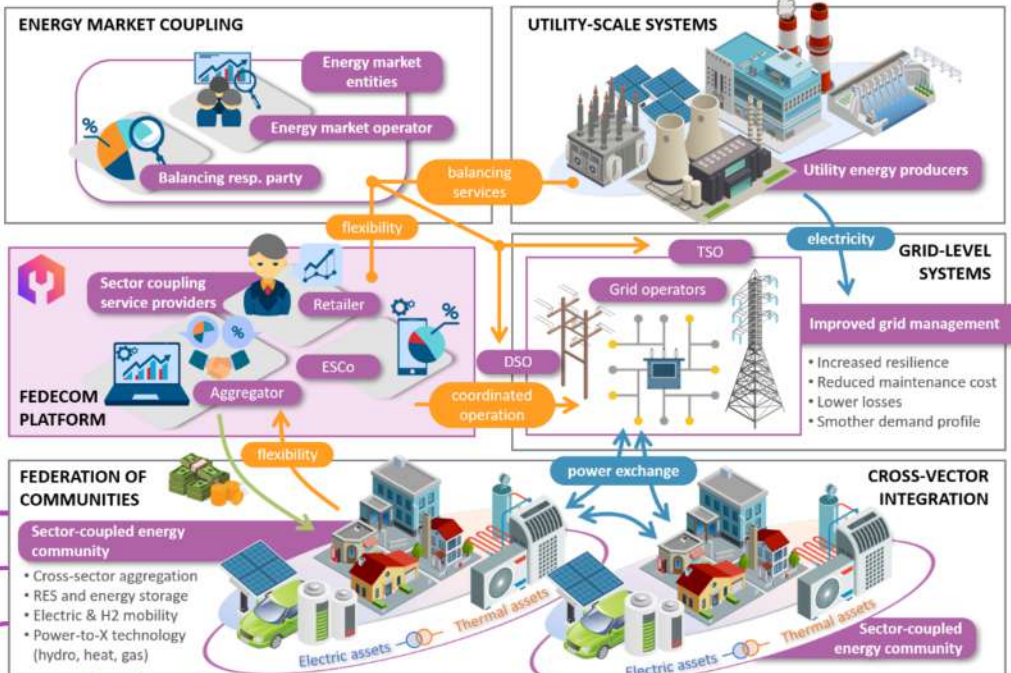


# OBJECTIVES

FEDECOM is developing ecosystem to demonstrate the advantages of energy sector coupling across European energy communities by:

- Deploying a cloud-based solution for sector coupling, distributed generation and storage, high flexibility management and improvement of RES hosting up to 40%.
- Validating the solution in three pilots across diverse technical, market and climate contexts to demonstrate grid resilience, optimised local operations and unlocking at least 30% of demand side flexibility.
- Developing plans for the large-scale replication of the solution in three follower communities with a focus on impact assessment.
- Evaluating impacts on OPEX, CAPEX and overall value creation.

## FEDECOM platform positioning & service offer



# THE CONSORTIUM

FEDECOM brings together 17 partners from different types of structures (private companies of various sizes, non-governmental organisations, universities) spread across 7 European countries (Belgium, France, Germany, Serbia, Spain, Switzerland and the United Kingdom).



## 3 large-scale pilots

each represented by a federation of energy communities.

### Virtual Green H2 Federation Spain



### Residential Hydropower Federation Swiss



### Cross-country e-Mobility Federation Benelux / Netherlands

