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## Portuguese Pilot

### FINANCING



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## Location



## Objectives

The Portuguese pilot will allow two types of consumers – residential and commercial – to access the solutions that will allow connecting the energy of the future. The residential demo will accomplish the following goals:

- Exploit different energy services (P2P, flexibility management, etc.) for households, buildings, and energy communities.
- Exploit interoperable digital platforms for energy and non-energy services based on cloud and hybrid connectivity solutions.
- Validate and flexibility platforms and the data exchange interfaces within the DSO infrastructure and demonstrate the compliance with CIM standards and potential for wide adoption at the EU level.

**The Commercial will take advantage of the interoperable framework developed within the project to:**

- Develop an integrated Energy Management System (iEMS) for retail stores.
- Explore the provision of Energy Management services through the iEMS.
- Demonstrate flexibility aggregation for DSF (Demand Side Flexibility) to DSO (Distributed Systems Operator).
- Demonstrate that convenient Electric Vehicles (EV) charging in private areas can impactfully promote e-mobility.

## Technologies & Infrastructures

The residential demo will be deployed in 250 households in 5 cities, located in the North of Portugal. The commercial demo will be developed and installed in 12 retail stores spread along the Portuguese territory, where: ~75% will have local RES, ~75% will have local e-mobility and ~50% will have both local RES and e-mobility. The following technologies will be part of the Portuguese demo:

### BMS – Building management system

System that integrates subsystems / devices available within a store.



### iEMS

System that integrates the BMS systems of different stores.



### Interoperability layer

Set of semantic adapters that enables different systems to communicate with each other.



### EV chargers

Hardware necessary to charge EV's.



### Technical platforms

Set of technical platforms from various actors (e-mobility manager, retailer, flexibility aggregator, store manager, etc.) that will communicate through the interoperability layer enabling the deployment of new services and solutions.

