

The OPENTUNITY innovations are tested and validated in 4 different EU Countries: Greece, Slovenia, Spain, and Switzerland.

Location: Municipality of Santa Eulalia de Ronçana and city of Balenya.

Goal: Improving the operation of the Distribution Grid to favour the installation of Distributed Renewable Sources.

Location: Urban district of Via Motta in Massagno.

Goal: Facilitating the settlement and operation of a Local Energy Community in accordance to Distribution Grid characteristics.

Location: A section of the grids of Elektro Primorska and Elektro Ljubljana.

Goal: Utilising the flexibility potential of domestic assets and Electric Vehicles in order to provide services to the Distribution Grid.

Location: Mesogia area, municipalities of Koropi, Lavrio, N. Makri and the interconnected islands of Kea, Andros and Tinos.

Goal: Increasing the digitalization of both DSO and TSO and establishing synergies between them.

OPENTUNITY provides tools that facilitate the integration of distributed flexibility systems, such as batteries or electric vehicles with new market mechanisms in order to enhance European Smart grids.

OPENTUNITY plans to deploy thirteen innovations that are divided into four categories.



OPENFLEX - Flexibility in Prosumer's environment.



OPENGRID - Technologies for DSOs and TSOs to better manage grid issues.



OPENCHAIN - Energy-specific Blockchain for supporting new grid mechanisms.



OPENABILITY - Procedures for enhancing interoperability.

opentunity

OPENING the electricity ecosystem to multiple actors in order to have a real decarbonization opportunity



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Europe and the world are facing a serious problem: climate emergency. This means that the Earth's temperature is increasing at an alarming rate because of certain gases in the atmosphere that trap heat.

The last eight years have been the warmest on record, and this trend is putting us in danger. 2022 was the second warmest year on record for Europe and the fifth warmest globally.

To tackle this urgent problem, EU authorities are making long-term plans to cut fossil fuel use and reduce temperature increase. EU is updating energy laws via 'Fit for 55' to meet Green Deal goals for 2030 and 2050, by promoting energy efficiency, renewables, and reducing industrial & building energy use.

Digitalizing energy offers added value to decarbonize the EU's economies as established in the Energy Digitalization Roadmap. Besides, the digitalization of the energy integrates multiple energy carriers, infrastructures, and consumption sectors.

To help provide solutions to this challenge, **OPENTUNITY project** was born, creating a digital environment for energy sector actors to boost the energy efficiency of electricity grids and active consumers of any size, resulting in reduced energy costs.

OPENTUNITY supports energy actors, such as grid operators, prosumers, market players, among others by providing innovative methodologies backed by advanced and interoperable software modules to provide them with new features and services. This includes technologies to increase flexibility in prosumer environments and technologies to help grid operators to better manage grid operations.

Start :
January
2023

End :
December
2026

21 partners
4 pilot locations
4 innovation areas
13 innovations
8 Countries

DECARBONIZATION
OF EU SOCIETY

CITIZEN AND STAKEHOLDER
EMPOWERMENT

ENSURE QUALITY OF
RENEWABLE ENERGY SUPPLY

Project coordinator:

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energy web



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