

PROJECT

BEFLEXIBLE

Boosting Engagement to Increase Flexibility

The main objective of BEFLEXIBLE is to increase the flexibility of the energy system, improve cooperation between Distribution System Operators (DSOs) and Transmission System Operators (TSOs) and facilitate the participation of all energy-related stakeholders.

zabala
INNOVATION



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21

PARTNERS

7

COUNTRIES

€10 M

TOTAL BUDGET

4

YEARS

B
FLEXIBLE

IN ONE CLICK

Coordinator

i-DE

Programme

Horizon Europe

Period

2022-2026

Sector

Energy

Web

www.beflexible.eu

01

Challenge

Energy is considered a key driver in terms of growth, competitiveness and development for modern economies. In this regard, new challenges arise in the European Union (EU) to adequate the energy system to new energy paradigms. The EU updated the ambitious targets established in 2030 Framework for Climate and Energy. Nowadays, the production and use of energy account for around 72% of the EU's greenhouse gas emissions. The strong commitment to cut the emissions requires a rapid and drastic decarbonisation of the European energy system, carried out in compliance with the main drivers of the clean energy development programmes.

02

Solution

BeFlexible aims to increase the flexibility of the energy system, improve cooperation between distribution system operators (DSOs) and transmission system operators (TSOs) and facilitate the participation of all energy-related actors. This will be done through (1) the large-scale validation and demonstration of adapted and proven cross-sector services (2) interoperable platforms for smart grid operation that further develop already proven solutions (3) the creation of the necessary system architecture framework to enable the creation of new business models that provide additional value to meet consumers' needs in accordance with a stable regulatory framework.

03

Impacts

BeFlexible will especially contribute to more efficient approaches to managing smart energy grids and cyber-secure energy networks and optimising the interaction between producers, consumers, networks, infrastructures and carriers. In particular, BeFlexible will contribute to increased system capacity to integrate renewable energy sources and less constraint at the transmission and distribution level, whereby the (OP) defined below will have long-term impacts (IP) aligned with the Expected Destination Impacts (DEI).