



# Data-driven Residential Energy Carrier-agnostic Demand Response Tools and Multi-value Service

Dedalus is a 3-year project that aims at designing, developing, and demonstrating a demand-response ecosystem for residential buildings. This ecosystem optimizes and manages automated demand response and caters to all energy carriers.

## Business level

- 15%** Increase in the energy-efficient of the pilot buildings, and cheaper energy bills for residents thanks to DR
- 15%** Cost reduction of the overall energy system
- >25%** Reduction of demand response transaction costs after 5 years

## Technological level

- 12%** Smart residential asset types ready for demand response after 3 years
- >=7** New aggregation models and data-driven services
- >=2** Digital twins to facilitate consumer activation and market participation

## Social level

- 45%** Increased share of energy consumption data by active consumers after 5 years
- >18-20%** Carbon emission reduction in the areas of the 7 pilots
- 15-20%** Increased share of aggregated flexibility achieved by piloted assets

During the project, the Dedalus framework is applied, implemented, and validated in 7 real-life pilots across Europe.



DISCOVER MORE:  
[www.dedalus-horizon.eu](http://www.dedalus-horizon.eu)

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