



Flexible energy systems  
Leveraging the Optimal  
integration of EVs  
deployment Wave



## About us

### 30 entities:

3 universities and research centres  
A TSO, several DSOs, CPOs and aggregators  
SMEs specialized in ICT, EV charging infrastructure  
and innovation management



### We deliver:

Smart charging and V2X integration  
Interoperable solutions through a wide range of  
applications and Business Models  
User-centric approach to foster EV uptake  
through active participation strategies



## Why FLOW?

While the EU Parliament voted to ban new sales of fossil fuelled cars by 2035, **FLOW** gives a solid basis to **enhance** the upcoming mass **penetration of EV transportation**.

**FLOW** enables and valorises **EV flexibility through V2X solutions**.

Grid congestions are alleviated leading to **decarbonization** and **Renewable Energy System enhancement!**

# Pilot sites



**Menorca**

- High Energy Demand seasonality due to tourism
- More than 65 cars involved (incl. car rental)
- V2G to provide flexibility and increase RES
- penetration by 25%



**Rome**

- The city foresees an upcoming 1.8GW of EV charging installations
- Almost 500M€ in grid updates savings thanks to FLOW solution



**Denmark**

- Heterogenous charging: private, public and semipublic
- Rural and urban transport areas covered
- 1.7 B€ savings forecasted in avoided charging stations



**Dublin**

- 2 shared parkings
- EV users are interviewed, power quality data is collected
- Cooperation with local energy community



**Prague**

- Local benefits and Optimization through V2X
- Comprehensive solution involving PV, storage and LV DV microgrid.

**FLOW tests, validates and enhances energy exchange among Vehicles, Buildings and the Grid.**

## FLOW in numbers

4 years

10M€ budget

600ktCO<sub>2</sub>/year in reduced emissions

1.3B€ in saved costs

Local RES increased by 14%

RES curtailment avoided by 4TWh

## Contact us



FLOW Project



@ FLOW \_ V2X



[www.theflowproject.eu](http://www.theflowproject.eu)



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