

SENERGY NETS - Increase the Synergy among different ENERGY NETWORKS

- Program: HORIZON EUROPE
- Type of action: HORIZON-IA
- Call: HORIZON-CL5-2021-D3-02
- DG/Agency: CINEA
- GA number: 101075731
- Acronym: SENERGY NETS
- Start date: 01 Sept 2022
- End date: 31 Aug 2026
- Duration: 48 Months
- Estimated project costs: 9 938 450,75 €
- Requested EU Contribution: 8 223 108,66 €
- Coordinator: Guillaume BARDEAU (EIFER)

- **Abstract:** *SENERGY NETS aims at demonstrating the technical and economic capability of multi-energy systems to decarbonize the heating and cooling, power and gas sectors through renewable energy sources produced locally as well as sector integration, by primarily focusing on promising infrastructure and business models. To do so, SENERGY-NETS will develop a set of tools and platforms (up to TRL7/8) aimed to optimize the planning of District Heating and Cooling as well as distribution grids with sector coupling consideration and allow the provision of flexibility services to Distribution and Transmission System Operators. These solutions will be implemented on three pilot sites located in Milan (IT), Ljubljana (SI) and Paris (FR) and their replicability will be tested in two additional real case studies presenting alternative climatic, economic and geographic conditions in Västerås (SW) and Cordoba (ES). The SENERGY NETS solutions will be adapted to the main stakeholders at the different phases of the projects development involving sector coupling: long term planning, design and simulation, operational planning, valorization, evaluation and replication. The project will evaluate the benefits through a consolidated methodology developed to estimate the overall value created by sector integration, relying on the current economic, regulation and market rules and assess the impacts on the European power system. SENERGY NETS relies on a strong trans-disciplinary consortium involving 19 organizations located in 8 European countries, involving renowned experts from public authorities, infrastructure providers, research institutions, entrepreneurs and consumers associations. Altogether, they will provide the necessary knowledge, expertise and capacities to develop, demonstrate and evaluate developed tools and services enabling the integration of multi-energy systems to provide flexibility to the power system, and ultimately enable the decarbonization of the energy system.*

Consortium

19 partners from 8 EU countries

6 - Research and Academia

(EIFER, RSE, TECNALIA, MDU, UNIKASSEL, UNILJ)

6 - Energy supply and services

(EDF, DALKIA, VEOLIA, A2A, ACS, ENERGETIKA)

3 - DSO / TSO

(ELEKTRO, OPERATO, UNR)

1 - Software provider

(CYBER)

3 - Association and networks

(AIRU, FEDER, EHP)

