

## The MAGNITUDE Consortium

**MAGNITUDE** brings together 16 partners from 9 different countries forming a multidisciplinary and complementary consortium consisting of:

- Energy related experts from industry, consulting and academia, capable of coping with technologies and tools among the whole spectrum of multi energy systems
- Experts for energy market simulation and analysis, and industrial market actors from the trading and retail markets
- SMEs that develop IT based solutions for system operation optimisation and aggregator companies
- Local multi utility companies operating energy networks and facilities
- Experts in the definition and implementation of dissemination strategies and in engaging dialogue with a broad community of stakeholders



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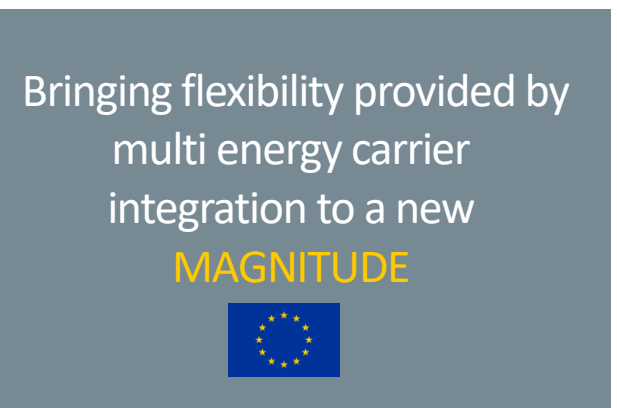
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 774309



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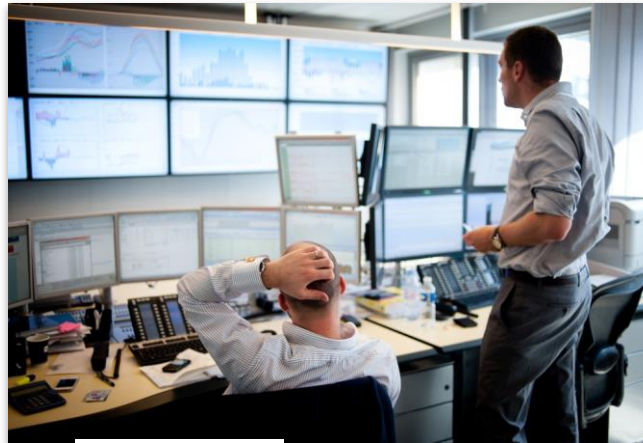
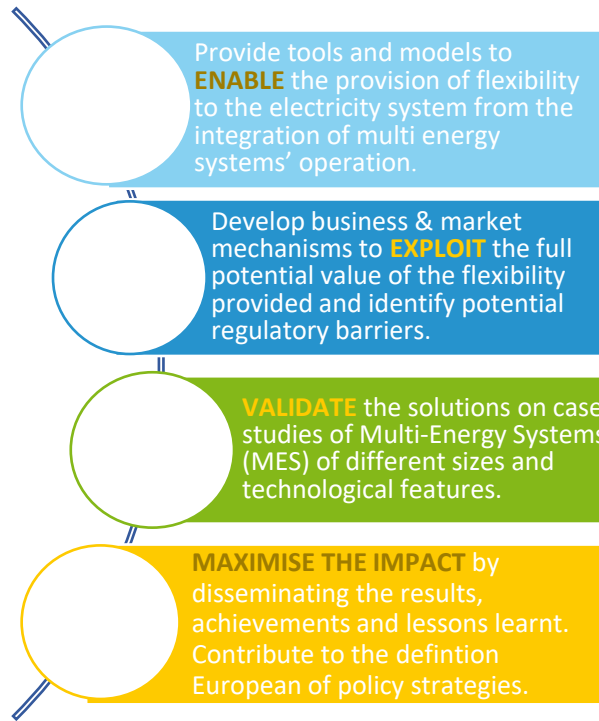
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The **MAGNITUDE project** aims to develop business & market mechanisms as well as supporting coordination tools to provide flexibility to the European electricity system, by increasing & optimising synergies between electricity, gas and heat systems. Ultimately, MAGNITUDE will:

- Provide flexibility options to support the cost-effective integration of variable renewable energy sources and the decarbonisation of the energy system while enhancing the security of supply.
- Bring under a common framework, technical solutions, market design and business models.
- Contribute to the ongoing policy discussion in the energy field.

**MAGNITUDE** ensures the validity of developed results relying on 7 real life case studies of multi-energy systems in different European countries.

## MAGNITUDE's objectives



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The **approach** is based on the following main activities:



- Select the most relevant flexibility services to be provided by MES.
- Study the actual flexibility options offered by identified cross-sector technologies and MES.
- Simulate and optimise control strategies to maximise MES flexibility provision.
- Propose innovative market designs to maximise synergies, implemented on a market simulation platform.
- Quantify the benefits of pooling flexibilities from decentralised MESs through an aggregation platform.
- Develop recommendations and policy strategies in a pan-European perspective.

## Project workplan

