



PRESS RELEASE

Advancing PARMENIDES Pilots

Date:
12.02.2025

Innovative Energy Systems for a Sustainable Future: PARMENIDES Pilots Begin Deployment

PARMENIDES is revolutionizing the energy sector with its cutting-edge systems and innovative solutions. The project focuses on enabling flexibility provision in Renewable Energy Communities (RECs) and optimizing energy systems through advanced ontologies and hybrid energy storage solutions (HESS). By prioritizing grid-friendly approaches, PARMENIDES paves the way for sustainable and interoperable energy management across Europe.

The pilot projects in Austria and Sweden exemplify PARMENIDES' impact, addressing real-world challenges in energy communities. These pilots test innovative solutions, including an advanced Energy Management System (EMS4HESS), designed to utilize the PARMENIDES Energy Community Ontology (PECO) as a knowledge base and to optimize the utilization of various storage technologies, aggregated into a Hybrid Energy Storage System (HESS). With tailored use cases, such as enhancing energy flexibility and integrating diverse storage mediums, the pilots demonstrate the scalability and adaptability of PARMENIDES' solutions.

PARMENIDES' innovative technologies showcase its commitment to supporting the energy transition while fostering collaboration between research, industry, policymakers, energy communities, and its members.



Figure 1: Thermal energy storage subsystem of the HESS (Stockholm, Sweden)