



PRESS RELEASE

**PARMENIDES Project
Updates**

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PARMENIDES Concludes Three-Year Project

KTH's pilot demonstrated a new flexibility strategy using deep reinforcement learning to manage intraday flexibility requests. This strategy's early results show that buildings can autonomously provide flexibility with thermal storage while still respecting occupant comfort and balancing multiple objectives. This innovative approach has been accepted for presentation at the 2026 IEEE PES International Meeting in Hong Kong.

The PARMENIDES project has reached a key milestone, with the Gasen and Heimschuh pilots now running in closed-loop operation. Using Grid Capacity Management and an Energy Management System, the pilots ensure safe grid conditions while optimising the Hybrid Energy Storage System to improve self-sufficiency and reduce costs. These advancements are supported by the PARMENIDES Energy Community Ontology (PECO), which provides the unified framework behind all system configurations.

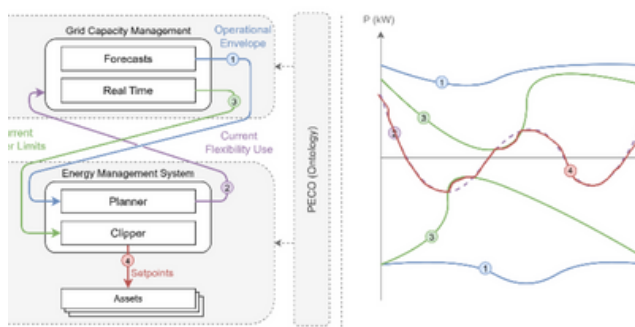


Figure 1 illustrates the overall interaction between the GCM and EMS in Austria's pilot

As PARMENIDES enters its final phase, the consortium is now focusing on a replication plan to bring the project's solutions to new locations beyond the original pilot sites. Using a structured assessment developed by R2M Solution, partners evaluated regulatory, technical, and market conditions to identify where the technologies can be most effectively deployed. This work aims to create a scalable blueprint that supports future rollouts and maximizes the project's impact across Europe.