



Powering the METAmorphosis of BUILDings towards a decarbonized and sustainable energy system

META BUILD develops and demonstrates innovative solutions for the electrification of thermal energy demand in the EU building stock. The project brings together 38 partners from 13 European countries, coordinated by ICCS, and runs from January 2024 to December 2027.

Our Pillars



Project Facts

Duration 48 Months	Coordinator ICCS	Partners 38
Countries 13	Pilots & Multipliers 6 & 7	TRL 5-7

Scope

META BUILD integrates:

- Hybrid Heat Pumps & District Heating
- Renewables (Biomass, PVs, PVT s, Solar Thermal)
- Thermal & Electrical Storage (BESS, Second-Life Batteries, Geothermal)
- Digital Technologies (Digital twins, predictive control, demand response, proactive maintenance)

Training & Capacity

META BUILD invests in skills and replication by developing manuals and documentation for smart installation, training material for electrification technologies, and workshops (both online and on-site) to train installers and replicators.

Pilots

Austria

R290 brine-to-water HP + Second-Life Batteries + MPC

France

MW-size reversible HP + PVTs + Digital Twin

Spain

Dual-source/sink HP + Air-based PVT s + Proactive Maintenance & Digital Twin

Croatia

District-heating connected HP + Proactive Maintenance

Greece

Inverter-driven HP + PVTs + Comfort & Demand Response services

Italy

R290 mono-bloc HP + MPC for multi-family housing

Expected Impact

Accelerated decarbonisation of EU buildings
Enhanced energy efficiency, flexibility, and cost-effectiveness
Replication and market uptake of electrification technologies
Contribution to the Green Deal and REPowerEU objectives

Find Us On



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META BUILD Horizon Europe Project



The META BUILD project has received funding from the European Union's HORIZON EUROPE Research and Innovation Programme under grant agreement No 101138373.