

POSIFIT's objectives

POSIFIT is pioneering an advanced, dynamic approach to achieve Energy Positive Homes (EPH) by developing smart, scalable, and replicable solutions for building construction and renovation. Key strategies include:

01

Developing an innovative **Holistic Design Platform**, accessible to both professionals and end-users.

02

Integration of Active and Passive Strategies with smart management technologies for climate-neutral, high-energy building performance.

03

Minimizing Environmental Impacts through innovative ways to smartly use solid and liquid residues generated during the building life cycle.

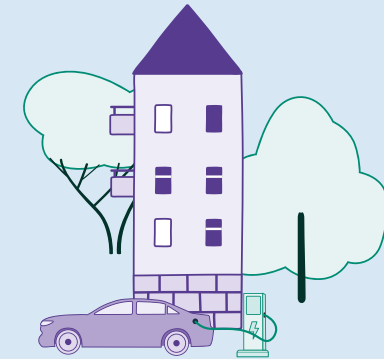
04

Promoting Sustainable Building Stock: Ensuring the fulfilment of sustainable criteria while enhancing the smart readiness of buildings.

Partners



POSIFIT



Adaptable technological solutions based on early design actions for the construction and renovation of Energy Positive Homes



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Co-funded by the European Union

About POSIFIT

POSIFIT is a pioneering project aimed at transforming the EU's residential building sector by transitioning from energy efficiency to energy positivity. It addresses the challenges posed by outdated building stock and environmental concerns through an integrative approach, focusing on renovations and customized solutions for new constructions. POSIFIT combines innovative technologies, smart design, and stakeholder engagement, ensuring the entire lifecycle of buildings is optimized for energy use, environmental impact, and social acceptance. By integrating advanced decision-making algorithms, smart management technologies, and environmentally friendly practices, POSIFIT not only improves building performance but also aligns with sustainable economic, social, and environmental criteria. The project's scalable and replicable model, demonstrated across diverse European regions, positions POSIFIT as a transformative force in achieving energy-positive homes and advancing the EU's ambitious Green Deal targets.

The project, coordinated by Demir Enerji, started in May 2023 and will last 48 months. The POSIFIT consortium represents a multi-disciplinary team composed of 17 partners representing 10 EU countries with a diverse geographic distribution as well as business roles.

Pilot sites

The project will be implemented in 5 pilot sites



Guadalajara, Spain

Multifamily and multi floor residential building

Istanbul, Türkiye

Testing advanced retrofit tech and smart control in a university dormitory to enable scalable positive-energy buildings.



Betzdorf, Luxembourg

Energy-positive neighborhood: PV, salt-water batteries, heat pumps, greywater recovery, monitored via post-occupancy evaluation.

Pécs, Hungary

Retrofit of social housing with PV-battery and thermal control to cut energy poverty.



Watervliet, The Netherlands

Energy-positive homes combining PV, batteries, heat pumps and EMS to reduce grid congestion.