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EUPVSEC 2026, Rotterdam, NL

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Maximising Solar PV Deployment in European Buildings: understanding potential and addressing barriers in the implementation of the EPBD

Project Overview

BREEZE aims to speed up the uptake of PV systems in building renovations and new constructions across the EU. The project supports the **Energy Performance of Buildings Directive (EPBD)** and its **Solar Mandate** by addressing technical, regulatory, and financial barriers.

Relevance

The revised EPBD introduces a Solar Mandate requiring the deployment of solar energy installations on certain categories of buildings. To support effective implementation, BREEZE assesses the rooftop PV potential of European buildings and identifies key barriers that may affect uptake.

Methods

Building on SolarPower Europe's rooftop PV modelling framework, BREEZE WP4 combines building stock datasets, partner expertise, and regulatory information to assess the solar potential enabled by the EPBD Solar Mandate. Harmonised data are used to estimate both theoretical and realistic deployment scenarios and to identify barriers affecting implementation across Member States.

DATA Collection



DATA Harmonisation

EPBD Building Screening

PV Potential Assessment

Barrier Analysis & Recommendations



Expected Outcomes

Quantification of rooftop PV potential under the EPBD Solar Mandate

Comparison of theoretical and realistic deployment pathways

Identification of implementation barriers and enabling factors

Evidence-based recommendations for Member State implementation

Policy Recommendations

- ☀ Harmonise national implementation frameworks
- 🏠 Integrate solar requirements early in planning and renovation
- ⚡ Streamline permitting procedures
- 🏡 Promote solar-ready and future-proof buildings
- 🤝 Strengthen collaboration and support for building owners



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