LEGOFIT Open Day and Stakeholder Roundtable Workshops | Turkish Pilot

Organizer: Özyeğin University, Center for Energy, Environment and Economy (CEEE/EÇEM)

Date: 17 December 2025

Venue: Özyeğin University Faculty of Architecture, Academic Building 4, Room G25

09:00-09:30	**Registration and Coffee**	
09:30-10:00	**Welcome Speeches** Prof. M. Pınar Mengüç, Director of OzU CEEE A. Gökçenur Çelebioğlu, OzU General Secretary	*An introduction to the event's purpose, highlighting OzU's commitment to sustainability, innovation, and the value of stakeholder collaboration.*
10:00-10:20	**LEGOFIT Project Introduction** Beril Alpagut, DEM (Demir Enerji)	*An overview of the LEGOFIT Project, its objectives, key technologies, and the role of pilot sites in demonstrating Positive Energy Homes.*
10:20-10.30	**LEGOFIT Project - Turkish Pilot Presentation** Gökçe Tomrukçu, OzU CEEE	*An overview of the Turkish Pilot, summarizing its scope, implemented technologies, and early insights obtained from the pilot applications.*
10:30-10:45	**Electric Storage System Presentation** Serdar Gülten, Vestel Mobility	*An overview of the battery storage system installed in the Turkish Pilot, highlighting its technical features, operational capabilities, and contribution to positive-energy performance.*
10:45-11:00	**Presentation of the Design-Phase Support Tools used in the LEGOFIT Project Pilots- Model Predictive Control (MPC)** Tuğrul Nizamioğlu, METU	*An introduction to the MPC approach used in LEGOFIT, explaining its role in optimizing building energy performance through predictive algorithms and real-time operational strategies.*
11:00-11:15	**Campus Electrical Infrastructure and Smart Grid Integration for Positive Energy Buildings** Asst. Prof. Göktürk Poyrazoğlu, Department Head Faculty of Engineering, Electrical & Electronics Engineering	*An overview of the electrical infrastructure and smart grid integration strategies implemented at the OzU campus, highlighting their role in enabling efficient, resilient, and Positive Energy Building operations.*
11:15-11:30	**Energy Management System Presentation** Melih Ballıkaya, Florawise	*A presentation of the EMS architecture, key monitoring features, and its function in integrating real-time sensor data with advanced control strategies in the Turkish Pilot.*
11:30-11:45	**PV Systems at the OzU Campus: Impacts on Energy Efficiency and Positive Energy**	*A technical overview of the PV systems installed at the OzU campus, highlighting their contribution to*

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	Building Goals Burhan Erdem, FIBA	*campus-wide energy efficiency and their role in supporting Positive Energy Building objectives.*
11:45-12:00	**Societal Engagement in the LEGOFIT Project** Beril Alpagut, DEM (Demir Enerji)	*An overview of societal engagement activities in LEGOFIT, emphasizing community participation, user feedback, and their contribution to comfort assessment and pilot-scale decision-making.*
12:00-13:30	**Dormitory 6 Demo Room Visit ve On-Site Technology Demonstration** **Lunch Break (Student Center Main Dining Hall)**	
13:30-13:45	**Introduction to PEB/PED Concepts and LEGOFIT Design-phase Support Tools** Beril Alpagut, DEM (Demir Enerji)	*An integrated overview of the PEB/PED concept and the design-phase support tools developed within LEGOFIT, outlining key principles and core functions.*
13:45-14:00	**Presentation of the Design-Phase Support Tools used in the LEGOFIT Project Pilots- BIM** Angela Araldi, R2M Solution	*An overview of the BIM-based design support tool used in the LEGOFIT pilots, highlighting its role in model development, data integration, and early-stage performance assessment.*
14:00-14:15	**Presentation of the Design-Phase Support Tools used in the LEGOFIT Project Pilots- POESY Tool** Sylvain Kubicki, LIST	*An overview of the POESY design-support tool, highlighting its capabilities for modeling user behavior, space-use patterns, and comfort-related scenarios to support early design decision-making in the LEGOFIT pilots.*
14:15-14:45	**Coffee Break**	
14:45-15:30	**Presentation of the Design-Phase Support Tools used in the LEGOFIT Project Pilots- MCDM / Model Based Prediction Tool** Prof. Ipek Gürsel Dino, METU Ataberk Yılmaz, METU	*An overview of the Model-Based Prediction Tool, highlighting its role in evaluating multiple design criteria, generating performance predictions, and supporting decision-making in the LEGOFIT pilots.*
15:30-15:45	**Presentation of the Design-Phase Support Tools used in the LEGOFIT Project Pilots- Visualization of the Financial and Environmental Assessment** Constantino Roldan, R2M Solution	*An overview of the financial and environmental assessment visualization, highlighting its ability to present cost, impact, and performance metrics to support decision-making in the LEGOFIT pilots.*
15:45-16:00	**Workshop Evaluation and Closing** Beril Alpagut, DEM (Demir Enerji) Gökçe Tomrukçu, OzU CEEE	*A short evaluation of the workshop and closing remarks from the organizers.*

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