

Energy Efficient Buildings & NEB Matchmaking and Study Visit

11-13 MARCH 2026
BRUSSELS

HORIZON
europe

NCBR
National Contact Point
for EU Research Programmes


**Industry
Contact
Point**
Low-emission
Technologies
and Clean Energy

NCBR
National Centre for Research
and Development

HORIZON
europe

1 – My organization

- ❑ AGH University of Krakow, Faculty of Energy and Fuels
- ❑ The Faculty of Energy and Fuels at the AGH University of Krakow is a leading academic unit in Poland, focused on cutting-edge research and education in energy, fuels, and environmental protection. Our programs combine theoretical knowledge with practical applications, preparing students to tackle current and future challenges in both conventional and renewable energy sectors.
- ❑ AGH: numerous EU-funded projects of any kind; Faculty (on-going): I-MAT, ETEIA, UKRENERGY, REFLEX, SELECT, SAPHEA (HORIZON-CL5)

Contact: weip@agh.edu.pl, en.weip.agh.edu.pl

2 – Project Idea

Selected Topic: → HORIZON-CL5-2026-09-D4-01

“Inclusive Smart Daylighting Management (ISDM)” – a research project investigating how advanced daylighting management using heliostat-based systems influences the technical, social and economic performance of Smart Buildings.

The innovative aspect lies in combining adaptive daylight redirection technology with socio-economic analysis to optimise both energy savings and social acceptance across diverse user groups.

Expected results include measurable reductions in artificial lighting demand and cooling loads, improved visual and thermal comfort, and validated models showing how user interaction affects performance outcomes.

Demonstration is planned in at least one multi-family residential building and one public or educational building in the EU, where heliostat-based daylighting systems will be integrated with existing smart building infrastructure

3 – Expression of Interest

The consortium brings interdisciplinary expertise in heliostat engineering, smart daylighting systems, building energy performance modelling, regulatory mapping, socio-economic analysis and policy integration across EU and LAC regions.

AGH will act as technology developer and coordinator, leading heliostat system design, prototyping and smart building integration. TOBB will contribute regulatory analysis and daylight modelling; PUCP and UNIFOR will provide pilot sites in LAC for field validation and socio-environmental assessment; ITBA (Argentina) is expected to support technical validation, engineering optimisation and potential additional pilot deployment in the Southern Cone region.

Partners already involved and having expressed willingness to collaborate include:

AGH University of Krakow (Coordinator)

TOBB University of Economics and Technology

Universidade de Fortaleza (UNIFOR)

Pontificia Universidad Católica del Perú (PUCP)

Instituto Tecnológico de Buenos Aires (ITBA)

The consortium is additionally seeking EU-based partners specialised in smart building data analytics, behavioural energy research, and demonstration sites within residential or public buildings aligned with the Built4People partnership objectives.