SUDOKET
Mapping, consolidation and dissemination of Key Enabling Technologies (KETs) for the building sector un the SUDOE region

Laboratório Nacional de Energia e Geologia

Research Area

Energy in the Built Environment

Contacts

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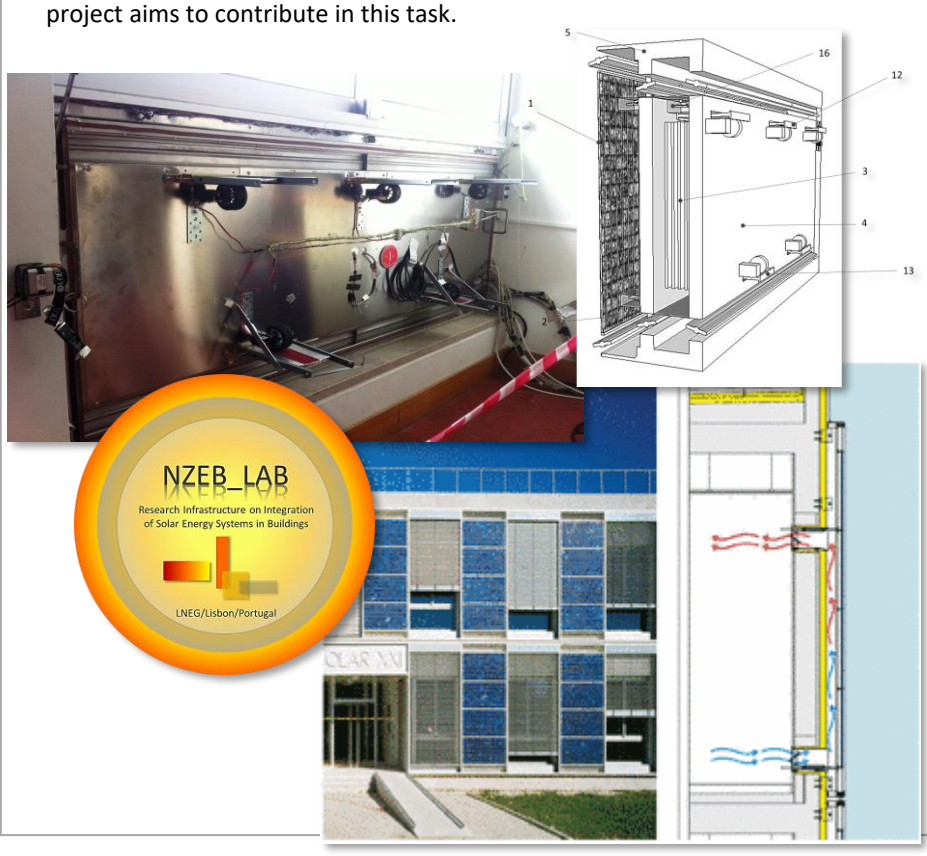
Project Co-Funded by:

Interreg Sudoe

REPÚBLICA PORTUGUESA
AMBIENTE E TRANSIÇÃO ENERGÉTICA

Motivation

The European Commission has quite recently (2011) identified Europe's Key Enabling Technologies thanks to the pioneering work of an ad-hoc High-Level Expert Group. KETs are a group of six technologies: micro and nanoelectronics, nanotechnology, industrial biotechnology, advanced materials, photonics, and advanced manufacturing technologies. KETs provide the basis for innovation in a range of products across all industrial sectors. They underpin the shift to a greener economy, are instrumental in modernising Europe's industrial base, and drive the development of entirely new industries. Their importance makes them a key element of European industrial policy and notably the re-industrialisation of Europe. But KETs in their industrial form come generally as multi-technology, integrated cases and each industry sector needs to assess their multiple forms, market expectations, localised critical mass, industrial scalability, etc. And as they are knowledge intensive, industry strongly relies on RTOs and academia to lead and perform those several necessary steps in order to leverage the full potential of KETs in the European space. Furthermore inside the SUDOE area, where the Programme intends to help area actors to strengthen their potential and achieve critical mass, putting altogether the R&D resources of the SUDOE countries, where some of the leaders RTOs in Europe are established. This project aims to contribute in this task.



Partnership

Universidad Loyola Andalucía (Coordinator)

Nobatek

Université de Bordeaux

Universitat Politècnica de Catalunya

LNEG

U.Nova

Centro Habitat

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Project Duration

2018 - 2021

Objectives

Specific objectives

- Analysing the state of the KETs, the related construction industry status and their market evolution
- Identifying R&D challenges and other barriers (regulations, socials economics…)
- Mapping principal actors at the R&D, industry and market levels in the SUDOE space
- Clustering Academy and RTO sector with relevant industrial actors following the mapping of expertise and relevant use cases detected.
- Strengthening technical capabilities through highly specialized seminars
- Achieving collaborative critical mass in this scientific and technical field within the SUDOE space as to boost R&D collaboration in multilateral collaborative projects private or public funded (e.g. H2020 programme).
- Building and monitoring complementary pilot facilities to demonstrate performance of cutting-edge KETs and
- Disseminate them to the industry, notably SMEs and to students and young professionals