Fact Sheet

Measurement and Verification of Smart Proactive Buildings : The PRELUDE project

About

Objectives

The project is aiming to increase the smartness of buildings and facilitate the transition towards clean energy by improving indoor conditions in an energy-efficient and sustainable way.

Solution

PRELUDE offers an optimisation service that combines innovative, smart, low-cost solutions to assess the right level of smartness necessary for any residential and office buildings and provide the optimal tools that respond to every user's needs.

What we do

Contribution

LIBRA AI develops a Measurement & Verification (M&V) module to perform ML-based M&V activities to model buildings' energy footprints and assess the effectiveness of the project's interventions. The M&V methodology enables planning, measuring, collecting and analysing data to verify and report energy savings within an individual facility resulting from implementing any energy conservation measures (ECMs).

Impact

M&V activities are essential, since savings cannot be directly measured as they represent the absence of energy consumption. Savings are determined by comparing the energy consumption after deploying ECMs with the predictive energy consumption if those measures were not adopted. LIBRA AI Energy Consumption Prediction model also makes it easy for stakeholders to perform the M&V methodology in the future when and if an ECM occurs.

Facts

Duration: 1 Dec 2020 – 31 May 2024
Funding: 7.8 M
Call Identifier: LC-EEB-07-2020
Partners: 22 partner from 8 countries
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