



Smart2B

Smartness to existing Buildings

Smart2B is a project funded by the European Commission in the Horizon 2020 framework, under the Call H2020-LC-SC3-2018-2019-2020

(BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY).

Starting in September 2021 and for the following 36 months of activities, 11 partners will collaborate to develop new software and hardware solutions for automated management and control of legacy equipment and appliances in order to upgrade smartness levels of existing buildings.

OBJECTIVES

Smart2B's aim is to make existing building smarter by developing software and hardware solutions for automated management and control of legacy equipment and appliances.

Besides, since we are aware that the transition towards more sustainable buildings is impossible without the active engagement of people who live them, we will implement community-based gamification mechanisms to stimulate users to improve buildings' energy performance, creating a user-centric ecosystem that empowers citizens by simplifying equipment and device control and providing information about overall energy performance.

Smart2B is designed to innovate the three main layers of buildings' energy infrastructure:



DEVICE LAYER

Legacy and smart devices, appliances, IoT sensors and actuators will all be seamlessly inter-connected through Smart2B devices, which allow them to exchange data with the platform.



PLATFORM LAYER

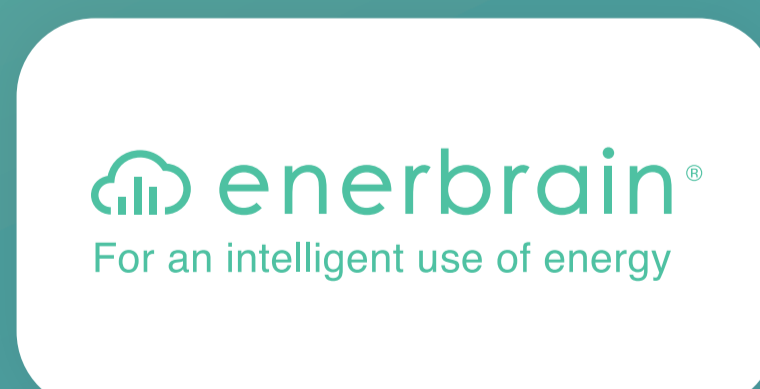
The core "operating system" of the building, featuring machine learning based big-data analytics, predictive analysis, and overall management of the entire infrastructure.



SERVICE LAYER

The Smart2B services toolbox will include multi-criteria management services, namely load scheduling, local energy efficiency, energy flexibility and indoor comfort assessment as well as transversal services, such as energy profiling and energy forecasting, user-in-the-loop actuation, predictive degradation assessment, air quality assessment and smart performance assessment & advisor.

Partners



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