

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.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant agreement no. 101023666.

www.smart2b-project.eu



ALBERTSLUND KOMMUNE

- Demonstration host of the Smart2B concept for residential pilot in cold climate.
- Operational experiments and monitoring.



THE SANTA CASA DA MISERICÓRDIA DE LISBOA

- Influence young residents and employee's behavior and sensitivity towards upgrading the smartness of their building.
- Inform them of the benefits of forming citizen energy communities with other buildings in and outside the organization.



CENTRE FOR RESEARCH AND TECHNOLOGY-HELLAS

- Main responsible for the delivery of the Holistic Multi-criteria building load scheduling service.
- Management of the web-presence and the social media pages of the project.



RWTH AACHEN UNIVERSITY

- Definition and integrated into a holistic overall concept of all specifications and requirements of the technical and socio-economic solutions developed within the project
- Development of control strategies, predictive and adaptive control and by integrating the methods into a holistic building energy management system.



GRAZ UNIVERSITY OF TECHNOLOGY

- Actively integrating user feedback and preferences as well as requests from the grid in the holistic building control.
- Implementation of an integrated service toolbox – Smart2B services for holistic building management.



FCIÊNCIAS.ID

- Work on the smart performance assessment framework.
- Core participation in the development of the Smart2B platform and in the development of the Smart2B services.

EDP - COORDINATOR

Project Coordinator of Smart2B, that also focuses on the demonstration and evaluation of the Smart2B concept and gives contributions throughout the project, namely in the development of the business model and the economic evaluation, exploitation and replication.

- Project Management activities.
- Contributes to the dissemination and communication by hosting several events, including the final conference of the project.



DAY ONE

- Marketing activity to create and boost the Smart2B brand identity.
- Securing adequate industrial follow up of the project.
- Business planning.



ENERBRAIN

- Develop new plug & play devices, enabling the flexible implementation of energy and non-energy services in the Smart2B project in commercial pilot sites in cold climate.
- Perform the compliance and certifications for the developed products.



ODIN SOLUTIONS

- Implementation of the Smart2B Platform to enable the seamless integration of building equipment and systems, as well as the knowledge extraction in order to facilitate the services development.
- Development of data models, automatic semantic and filtering.



VITO

- Focus on the development of the Smart2B services.
- Definition of a demonstration framework and KPIs to evaluate Smart2B concept and business models.





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