

GRESBAS



Grid
Responsive
Society
Through
Building
Automation
Systems

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GReSBAS

Grid Responsive Society Through Building Automation Systems

GReSBAS will propose an innovative gamification system to leverage the active participation of building occupants/owners in DR (Demand Response) actions. The project will use advanced gamification techniques together with building automation technologies to achieve significant energy efficiency gains. The project includes national awareness analysis and real world implementation in distinct environments: in Turkey and Portugal. These studies will allow evaluating the performance of the developed gamification techniques at a transnational level for end-user engagement.

Main Objectives

Setup of demonstration sites in Portugal and Turkey, equipped with building automation systems to monitor consumption and to implement DR actions;

Development and implementation of gamification techniques for end-user engagement in order to educate and motivate building occupants/owners to actively participate in DR schemes;

Development and implementation of game mechanisms and graphical user interfaces to enable the participation of building occupants/owners in DR actions, providing them access to their performance and individual ranking;

Development and implementation of DR algorithms to improve the performance of the distribution grid and to promote optimal economic management of the building's energy consumption levels;

Design, development and improvement of building automation hardware and software to help supporting the participation of end-users in DR schemes.

PARTNERS



ITU - Istanbul Technical University
[Coordinator] / Turkey



Makel - Makel Companies
Group / Turkey



INESC TEC - Institute for Systems
and Computer Engineering,
Technology and Science / Portugal

FINANCING



FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR



PROJECT DURATION

01.04.2016 / 31.03.2019

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