

Sim4Blocks

Simulations Supported Real Time Energy Management in Building Blocks



Key Facts



Funding Agency
EU HORIZON 2020



Project call
H2020-EE-2015-2-RIAE-06-201



Duration
04/2016 – 03/2020



Coordinator
Hochschule für Technik
Stuttgart (HTF)



Partners

- Austrian Institute of Technology (AIT)
- Centre International de metodes numerics en enginyeria (CIMNE)
- EDF Energy R&D UK Centre Ltd.
- Elimes AG
- Energea enginyeria en eficiència energètica (ENERGEA) SL
- enisyst GmbH
- Haute école spécialisée Suisse occidentale (HES-SO)
- Insight Publishers Limited
- Restore NV, S.P.M. Promocions Municipals de Sant Cugat Vallés S.A.,
- Stadtwerke Schwäbisch Hall GmbH
- University College Dublin, National University of Ireland, Dublin (NUID UCD)
- Gemeinde Wüstenrot



Website

<https://www.sim4blocks.eu/>

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Project Objectives

The growing share of variable renewable energy necessitates flexibility in the electricity system, which flexible energy generation, demand side participation and energy storage systems can provide. SIM4BLOCKS develops innovative demand response (DR) services for smaller residential and commercial customers, implements and tests these services in three pilot sites and transfers successful DR models to customers of project partners in further European countries. SIM4BLOCKS' main objectives are to specify the technical characteristics of the demand flexibility that will enable dynamic DR; to study the optimal use of the DR capability in the context of market tariffs and RES supply fluctuations; and to develop and implement market access and business models for DR models offered by blocks of buildings with a focus on shifting power to heat applications and optimization of the available energy vectors in buildings.

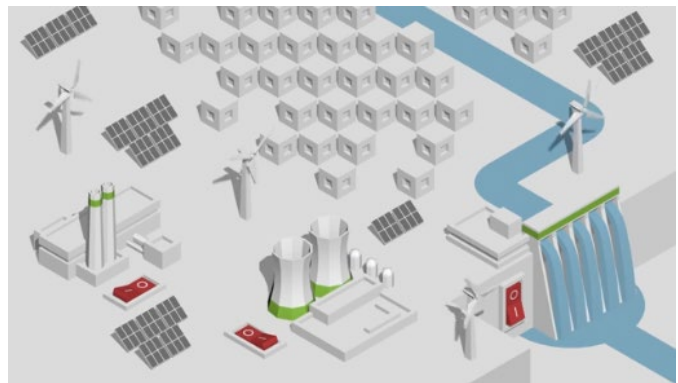


Fig. 1 Sim4Blocks simulation

EIFER's Contribution

EIFER's contribution consists of a simulation-supported exploration and analysis of market access strategies and business models together with their relevance under current and upcoming regulation schemes across the EU. EIFER leads the work package on business models, market access and standardization.

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