

EDITORIAL

BESOS is an EU Research and Development project funded by the EC in the context of the 7th Framework Program that proposes **the development of an advanced, integrated, management system which enables energy efficiency in smart cities from a holistic perspective.**

The project will target two main stakeholders: the owners of the infrastructure – e.g. **municipalities** – and its operators – e.g. **ESCOs and facility managers (FM)**. The former will be provided with a **Business Balanced Score Card** to audit the **Service Level Agreements (SLA)** established with the ESCOs and FM against a number of **Key Performance Indicators (KPI)**. The latter will make use of the same tool to analyse new **business models**, and will be also provided with a **DSS Cockpit** to Monitor and Control (M&C) information from the infrastructure and establish **coordinated energy efficiency strategies.**

Two leading cities in Europe, **Lisbon and Barcelona**, will act as test-beds of the BESOS approach.



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What is BESOS?

The BESOS project's strategic goal is to enhance currently existing neighbourhoods with **decision support systems (DSS)** to provide **coordinated management of public infrastructures in Smart Cities**, and at the same time provide citizens with information to promote **sustainability and energy efficiency.**

To that end, the Energy Management Systems deployed in a typical district that are consuming or producing energy, and which nowadays normally come with an isolated IT management solution, will be able to share data and services through an open trustworthy platform among themselves and to external third party applications.

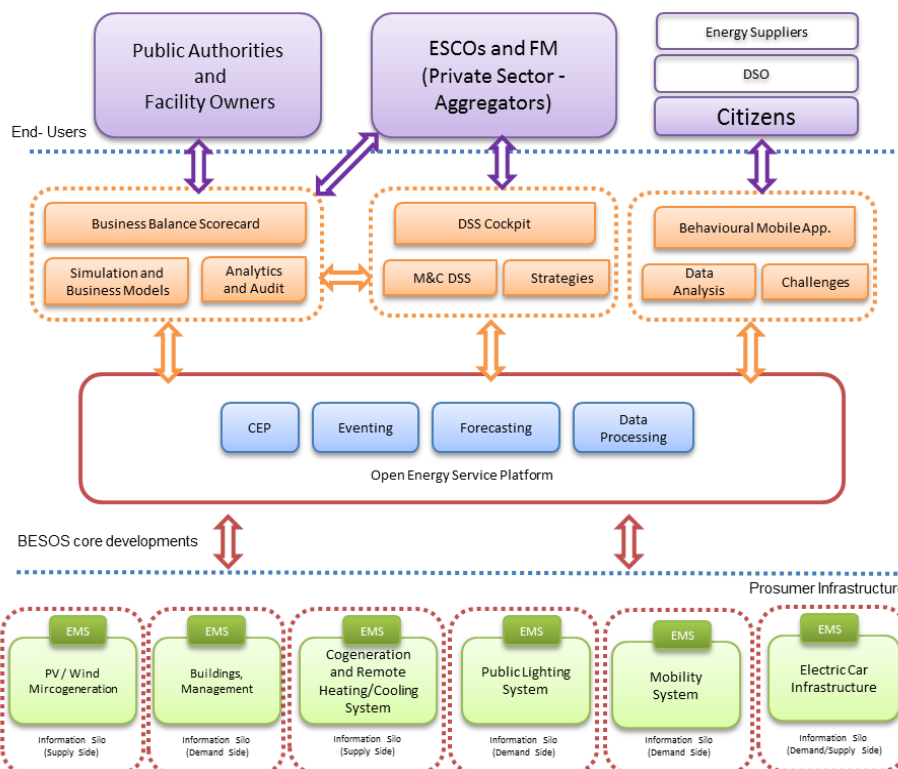


USE CASES, REQUIREMENTS AND KPIs

With the recent conclusion of the first semester of work in BESOS, we are glad to share with the community the outcome of the first phase of the project.

Set as the initial stage of the BESOS project, the work package “Business Models, Use-Cases and Requirement Analysis” determines the scope for the remaining research and development work. As the first step, the stakeholders in the system as well as the high-level architecture have been defined. Based on this, the scenarios and use-cases that will be addressed and that will be part of the demonstration stage, have been analyzed, along with a detailed list of 223 requirements. Finally, 37 particularized KPIs have been described to be used along in the project for evaluation and assessment.

Moreover, new business models for the different smart city stakeholders have been proposed in order to support the implementation and replication of the BESOS Solution.



Relevant events and publications – Meet BESOS!

The BESOS project’s objectives have been already present in some European media:

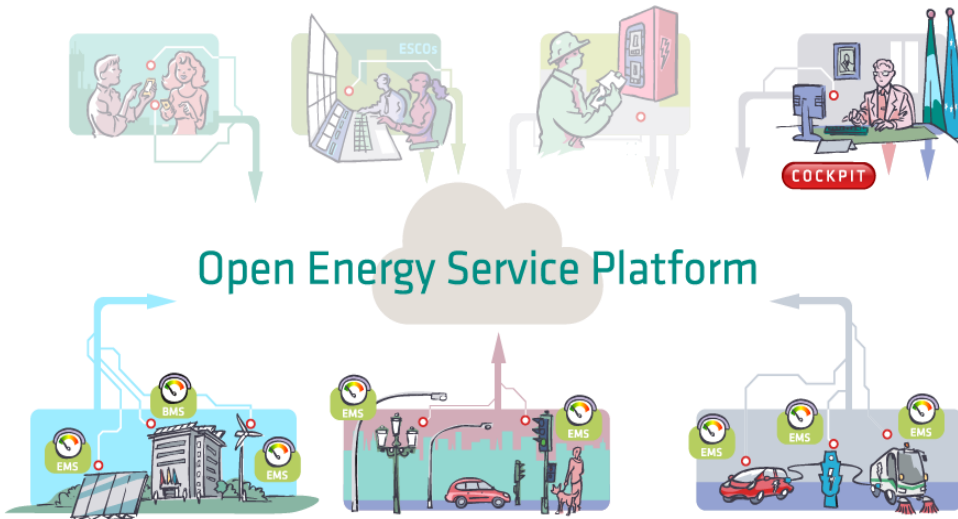
- Greencities & Sustainability, Malaga, Spain, October 2013
- Smart City Expo 2013, Barcelona, November
- Launch conference of the European Innovation Partnership on Smart Cities and Communities, Brussels, November 2013
- Blog of the Vice-President of the European Commission Neelie Kroes as a project that contributed to the Barcelona smart city iCapital award ([Neelie Kroes blog](#))



The BESOS consortium is organizing a workshop in the context of the **EU Sustainable Energy Week (EUSEW 2014)**, on the 26th of June. More information will be available soon at <http://besos-project.eu>

NETWORKING WITH OTHER EU INITIATIVES

The BESOS complementary project SmartKYE (Smart Grid Key Neighborhood Indicator Cockpit) started on the 1st of November 2012. SmartKYE runs for 30 months and is coordinated by **ETRA I+D**. The consortium is formed by *UDE (Germany)*, *SAP (Germany)*, *Bdigital (Spain)*, *ICCS (Greece)*, *Technoflex (Spain)* and *HEDNO (Greece)*.



The strategic goal of the EU FP7 SmartKYE project is to develop a system for the future smart grid city that will enable better business and technical decisions to be made, based on real-time fine-grained data acquired by the infrastructure. Key end-users targeted are the public authorities who can monitor and manage smart city key indicators with the goal of better energy efficiency and CO₂ reduction.

The project pilot sites will be located in Barcelona city and Lasithi in Crete. URL: www.smartkye.eu.

BESOS at a glance

Building Support **Energy systems** **decision for Smart cities**

Project Coordinator

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Partners: ETRA I+D, Universität Duisburg-Essen, Sodexo, Enercast, Portugal Telecom, LISBOA E-NOVA, HYPERTECH, Barcelona Municipality, Cobra Group and Technoflex.

Duration: 36 months

Start: 01.10.2013

Total Cost: 4,610,538 €

EC Contribution: 2,925,813 €

Contract Number 608723 - ICT

Strategic Goal: BESOS strategic goal is to develop an advanced, integrated, management system which enables energy efficiency in smart cities from a holistic perspective.

Project website:

<http://besos-project.eu>

Smart Grid Key
Neighborhood Indicator Cockpit



SmartKYE