



**NOBEL**  
NEIGHBOURHOOD ORIENTED  
BROKERAGE ELECTRICITY  
AND MONITORING SYSTEM

# Newsletter

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**1**  
VOLUME

## EDITORIAL

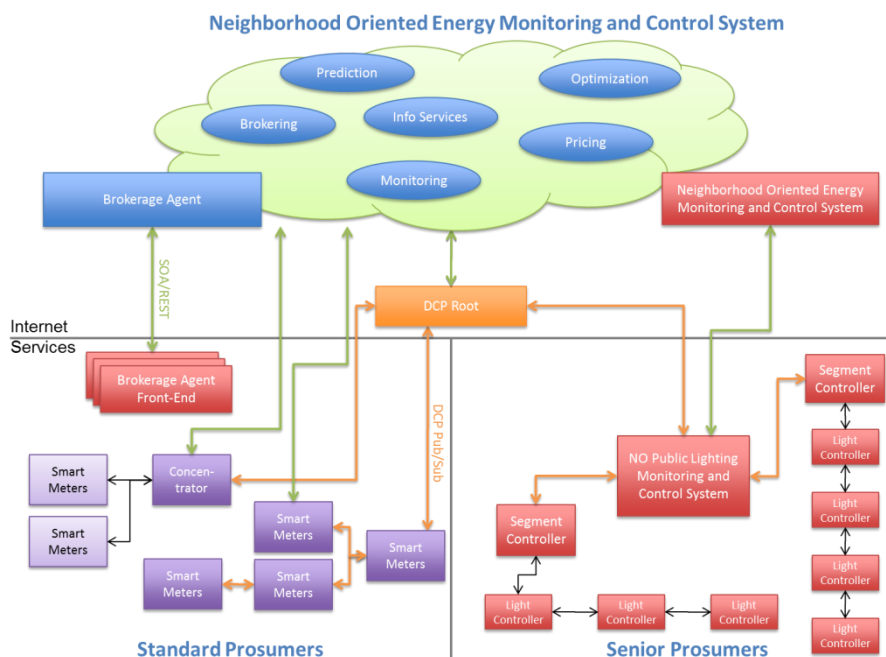
With the recent conclusion of the first year of work in **NOBEL**, we are glad to share with the community the outcome of the first phase of the project.

The main focus during this initial phase of the project has been on the clear identification of the scenarios and applications to be tackled by our research, negotiating the different responsibilities within the group of institution cooperating in the project, and analysing the requirements to achieve the final goals of the project. This effort has led to the publication of a NOBEL architecture where the different components and concepts to be developed in the next months are clearly specified and its relationships described. This common understanding of the project boundaries and expected route map has been critical to build a strong team capable of obtaining breakthrough results in the short lifetime of the project.

Two of the main pillars of the project have released a first version for internal use: the communication software to build an end-to-end IPv6 smart-grid scenario and the middleware enabling the data capturing and processing of energy data. Moreover, the required adaptation of equipment to run our real life trial has started.

All these results have been completed with the specification and design of the service oriented framework giving support to the brokerage engine and monitoring mechanisms that enables the approach adopted by the project.

In summary, the **Specification and Design** phase of the project is now completed, and in the next months we will be publishing the public API and sources to make use of the NOBEL data capturing and processing middleware.



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### NOBEL workshop @ EUSEW2011

NOBEL organises a public workshop on **Energy Efficiency in urban environments** in the context of the European Sustainable Energy Week ([EUSEW](#)) in Brussels, with the support of the Fundación Comunidad Valenciana-Región Europea ([FCVRE](#)).

The objective of the workshop will be to provide, jointly with other EU research projects, an integrated view of a neighbourhood grid, their future needs and the opportunities to increase energy efficiency following a local approach.

**When:** The 12<sup>th</sup> April at 9:30-12:30.

**Where:** Fundación Comunidad Valenciana - Región Europea. Rue Edmond Mesens, 7A.

**How:** Registration is open at the EUSEW web site, or sending an email to:

[info@ict-nobel.eu](mailto:info@ict-nobel.eu)

**What:** **Energy Efficiency in urban environments. Integrated view of a neighbourhood grid.**

The workshop will count with the presence of other EU initiatives as the SmartHouse Smartgrid project, the ENERsip Project or the ICT4E2B forum.

For an updated agenda and details on the venue please visit our [web site](#).



## PARTNER PROFILE - ETRA

ETRA Investigación y Desarrollo, S.A. (ETRA I+D) is the hi-tech unit within ETRA Group, one of the leading industrial groups in Spain. Its mission is putting in the market the most advanced solutions and services either directly or through the 10 companies of the Group. The main market areas of ETRA Group are Spain, South-Central America, South East Asia and the EU.

The activity of the company –with a sustained growth of turnover and employees over the years which has reached 250 M€ and 2200 staff in 2010- started in the 70's and it is centred in the RTD, implementation and commercialisation of advanced real time control and information management systems applied to the sectors of energy, mobility, security and public services. **The business area of Energy Management Systems accounts for a substantial 27% of the company turnover**

ETRA brings into the project its technological competence in the energy management domain, its market presence - very specially public lighting (with more than 25 major cities using ETRA's systems)- and exploitation capability, and a long success track record of managing successful EU RTD projects in the fields of ICT, control systems and energy –among others.

## NETWORKING WITH OTHER EU INITIATIVES

Networking with other research initiatives – especially European – is critical to make NOBEL results available to other researchers. It has been targeted at two different levels.

First, by trying to promote the organization of conferences/workshops involving initiatives working in the same area, and with similar time frameworks.

Second, by holding working sessions with the most relevant projects to NOBEL research. In this context, during the **e-energy conference**, a common working session was organized with the **Smarthouse/Smartgrid** project. The NOBEL consortium had the opportunity to visit its Greek pilot site and identify synergies and future collaboration opportunities.

For the next months, a new common working session is under preparation in Karlsruhe with the **MIRABEL** project, where it is expected to identify a common use of the prediction services developed in both projects.



## UPCOMING AND RECENT EVENTS

The progress and achievements of the first year have been shown to the research community through the publication of three scientific papers and the organisation of the first NOBEL Project workshop in the context of the 1st International **ICST Conference on E-Energy in Athens (15<sup>th</sup> October 2010)**. The workshop brought together several leading EU and national projects active in the domain of Smart Grids. It was possible to exchange best practices especially with focus on the architecture and applications in real test sites.



Looking at the future, the upcoming **EUSEW2011 workshop** is not the only event on preparation to share with the community the results of the project. NOBEL is also working in the co-organization of a workshop within the **16th International Conference on Intelligent Systems Application to Power Systems (ISAP2011)**. The aim of ISAP conferences on power systems operating in competitive environment, renewable energy and distributed generation, but also other subjects of interest in modern power systems. Employment of novel software technologies is in the special scope of the conference, but also intelligent approaches achieved with conventional programming are sought for.

The conference will be held in Crete, an island characterized by high wind power penetration (approx. 20% annually), where a pilot control centre based on intelligent techniques was installed. A call for paper will be issued in the next weeks to participate in this workshop.