



4. COIN-Ausschreibung „Kooperation und Netzwerke“

Projekt:

SESAME-S - **SE**semantic **SmArt** **ME**tering - **S**ervices for Energy Efficient Houses

FörderungsnehmerIn:

FTW - Forschungszentrum Telekommunikation Wien GmbH

Kurzfassung

The goal of the project **SESAME-S** (**SE**semantic **SmArt** **ME**tering - **S**ervices for Energy Efficient Houses) is to **design, develop and set on the market commercial services on the basis of enablers for energy efficiency, developed in the SESAME project.**

The SESAME project resulted in a technical solution that actively assists end-consumers to make well-informed decisions and control regarding their energy consumption. The SESAME solution is a full-fledged prototype covering the whole energy value chain: a sensor and smart metering solution that can be installed in the house, equipped with the semantic software and user interfaces performing reasoning and control of the house on the basis on defined policies, sensor inputs and interactions.

While SESAME has developed the initial concept and demonstrated its technical feasibility as well as the customers' interest to acquire it as a commercial service, the focus of SESAME-S is to extend the resulting system with an extended set of production quality attractive services, and to prepare its roll-out to the market, i.e. achieve a joint commercial service bringing monetary revenues to the main consortium partners. The extensions of the SESAME system will include:

- Optimization of further resources consumption (such as water, heating) within the energy efficiency system, in addition to the implemented solution for the electricity;
- Installation of the SESAME system in trial real-life rooms for collection of real-life data, applying adjusted security and privacy solution, obtaining more advanced usability feedback;
- Definition of the privacy enabled publishing and commercialization principles of fine granular semantic linked data in the energy domain (i.e. using and publishing data in B2C scenarios and provisioning of data as a service both in B2B settings);
- Design and development of energy efficiency services for mobile devices, thus extending the user interaction with the smart home from the developed desktop and touch screen facilities, relying both on internal energy consumption data as well as on external data to support energy efficiency;
- Bringing the usability for the energy efficiency data sales and user interfaces to production quality (tightly incorporating features that are important to market success, such as “coolness” factor of the services).



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Due to their novelty and the growing demand, smart-metering and sensor-enabled energy efficiency concepts are still to be refined and introduced as services massively on the market. Also energy efficiency as a domain is particularly important in societal and ecological terms, and energy efficiency concepts are economically very promising. Innovative emerging technologies, such as commercial licenses and models for semantic data and its mashups, as well of sensor-enabled services and associated privacy aspects, are to be established and adopted.

The project will be realized within an existing network of SESAME partners coordinated by an Austrian research center – Forschungszentrum Telekommunikation Wien GmbH (FTW), four innovative enterprises (SMEs), two of which are from Austria - eSYS Informationssysteme GmbH (eSYS - Attnang-Puchheim), and Semantic Web Company GmbH (SWC - Vienna), one from Serbia – E-Smart Systems d.o.o. Belgrade (e-Sma), and one from Russia – The Experimental Factory of Scientific Engineering (EZAN - Chernogolovka), extended by one new Austrian partner specialized on mobile end development – Fachhochschule Oberösterreich, Campus Hagenberg (FHH - Hagenberg).