

**Dynamic billing to raise energy efficiency***Orga Systems and Vattenfall co-operate in Connected Energy project*

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**Paderborn (Germany) 21 September 2010: A key topic of the project “Connected Energy - SHAPE” is the efficient utilization of energy in multi-family houses. Orga Systems and Vattenfall are co-operating with other leading companies and research institutes in this project co-funded by the German Ministry of Economy and Technology. The project’s objective is to demonstrate a decrease of consumption and CO<sub>2</sub> emissions in the range of 10 % for electrical power and 30 % for heat in a first pilot with 20 apartments. At the conference “Metering, Billing & CRM Europe” in Vienna, on September 22<sup>nd</sup> Orga Systems and Vattenfall Europe Innovation will present how business ideas in a changing energy system are addressed by dynamic energy billing.**

**Grid congestion as a challenge**

The rising fraction of renewable energy from volatile sources poses special requirements. To avoid congestion in the grid, demand side management has to be introduced. Thus in phases of high throughput, demand could be stimulated by lowering the current selling price, which would trigger the storage of energy or temporarily activate variable loads in the household. This requires real-time processing of load and price signals between multiple providers, users and devices.

**Dynamic energy billing to enable the business case**

Based on 15 years of expertise on real-time charging and billing as well as dynamic policy management, Orga Systems has set up a billing system to cope with grid congestion requirements. Within SHAPE, this dynamic energy billing system will be integrated in a delivery platform for home automation service, enabling the following features:

- Dynamic pricing for volatile renewable energy, configurable by a centralized rating engine
- Support for value added services like visualization of consumption, cost and prices with forecast values and monthly billing
- Support of standard interfaces for easy integration in meter data management and utility CIS systems.

With its real time expertise, Orga Systems will help to enable the decrease of consumption and CO<sub>2</sub> emissions in the range of 10 % for electrical power and 30 % for heat.

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**Contact**

**Orga Systems GmbH**  
Am Hoppenhof 33  
D-33104 Paderborn

**Eva Heumann – Head of Corporate Communication**

Phone: +49 (0)52 51 8749 3067    E-Mail: [eheumann@orga-systems.com](mailto:eheumann@orga-systems.com)  
Fax: +49 (0)52 51 8749 493067    Internet: [orga-systems.com](http://orga-systems.com)