

## 1st International European Demand Response Center (EDRC) Workshop 2012

**Title:** “Feedback on Demand Response from selected industries”

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### **Abstract:**

Focus of the EDRC research project is the investigation of a European Demand Response Centre (EDRC). The goal of the EDRC is to generate a large amount of distributed, aggregated and controllable capacity that allows a flexible and cost efficient balancing of the electricity network. An economical and ecological optimisation of balancing energy, such as network stability/overcharge and peak power management, can be achieved through the aggregation of and intelligent networking between many consumers/producers. This results in increased energy efficiency and cost savings.

Within the EDRC project, relevant user and stakeholder groups as well as their needs and requirements with regards to such a demand response management system were identified by Brimatech. The most energy-intensive industries with high potential for demand side management<sup>1</sup> were selected (pulp and paper, mining and quarrying, the manufacture of cement, lime and plaster, the manufacture of basic iron and steel and of ferro-alloys, chemical industry and the rubber and plastic products manufacturing industry) and analysed. Methods employed were desk research and in-depth interviews with relevant experts, such as energy and utility managers and energy procurement managers.

Results of this research will be presented, with a special emphasis on the market potential of demand response technologies in Austria from industry players' points of view. This research gave insight into their perceptions of demand response solutions. Experiences that have already been made with demand response systems as well as drivers and barriers perceived by the industry were identified. Furthermore, reaction times - which can vary considerably between industries due to the variety in production processes - and the amount of energy that can be supplied were collected.

Results of the survey will be presented and questions prepared which shall be discussed with the workshop participants in order to exchange views of international experts with differing expertise and organisational background.

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<sup>1</sup> Gutschi, Ch.: Interdisziplinäre Beiträge zur Effizienzsteigerung im Energiesystem durch Energiespeicherung und Kraft-Wärme-Kopplung, Graz 2007