

NO Tech Case #2 Lekey load controller

The LeKey software can manage and coordinate energy loads to minimize the energy cost for the end user based on price signals. Grid operators and energy providers can use LeKey to optimize the use of network capacity. LeKey measures energy consumption in real time. Internet based software for real time monitoring and measuring of energy consumption, energy management and messaging system to reach personnel needing information regarding shut down and start up of energy loads. The loads are controlled via the LeKeyBox, which is an affordable solution without any installation costs, minimal communication costs and low hardware costs. Standard Internet browsers are used to communicate with LeKeyBox. With the built-in thermostat and timer, LeKeyBox handles energy management based on time and/or temperature. With the push of a button energy providers and grid operators can send a signal to thousands of LeKeyBoxes that are connected to electric devices. No batteries are necessary, and the flash memory ensures that settings are saved in case of power failure. The LeKeyBox is approved by Norwegian and European approval bodies.

The concept is used in the Norwegian DRR demonstrator, described in the SINTEF report "Automatic demand Response referred to electricity spot price. Demo description" (downloadable from the DRR web site).

NO Tech Case # 3 AMR Technology used in Norway ?????? (See comment in email)

Company	Functionality	Time resolution meter readings	Means of communication
Enermet (http://www.enermet.com)	AMR/LC	From 1 min.	PLC/GSM/GPRS/PSTN
Intelli (http://www.intelli.no)	AMR/ Smarthouse	Every 60 min	PLC/ISDN
IT&Process (ITP)	AMR/ Smarthouse	Every 60 min	PLC/Different alternatives
Policom (http://www.policom.no)	AMR/ LC	Configurable, less than 60 min	PLC/Different alternatives
Senea	AMR/LC	From 1 min	Low power radio/Different alternatives
Aidon (http://www.aidon.se/)	AMR/LC	From 1 min	SMS, GSM, GPRS
Telenor Cinclus (http://www.telenorcinclus.com/uk/)	AMR/LC	From 1 min	SMS, GSM, GPRS