



## Kuopion Energia adopts versatile smart multi-energy metering solution

**Kuopion Energia and Landis+Gyr agree to continue their long-term cooperation, with the energy company receiving an extensive smart metering solution by the end of 2013. The solution offers Kuopion Energia many benefits, and the Landis+Gyr operational and maintenance service allows the network company to utilize data produced by smart metering without worrying about costs or maintenance of the system.**

Kuopion Energia had already 10,000 electricity and 2,000 district heat consumption sites in smart metering. Hence, the Finnish network company wanted to acquire the latest advanced smart metering technology that can be easily integrated into its existing smart metering infrastructure and is compatible with the technology of many different manufacturers. In addition, adaptability was required from the smart metering solution with regard to communication technologies, because Kuopion Energia wanted to utilize its own telecommunication network.

### Versatile and credible system supplier required

For these reasons Landis+Gyr was the natural choice. "We wanted a local partner that commits to long-term cooperation. Selecting a service solution was the easiest and, overall, most economical solution for us. Through service solution, we will always use the latest technology and expertise in the business, and we also know the costs of system usage and maintenance throughout its life cycle," says Kari

Väänänen, Managing Director, Kuopion Energia Liikelaitos.

The total solution to be delivered to Kuopion Energia in 2012-2013 contains about 50,000 smart energy meters, the integration of the smart metering system to data systems of the energy company and the project management and installation of meters. Landis+Gyr will also take care of meter maintenance and new meter installations together with Kuopion Energia. In addition, Kuopion Energia selected a 10-year smart metering service for metering data as part of their total solution.

Landis+Gyr's smart metering solution provides efficient tools and applications for the smart metering implementation; Site Manager installation tool, AIMIA integration application and web-based monitoring application Dashboard.

### Flexible multi-energy solution

The network company already uses Landis+Gyr E120 meters and smart metering system. With the new cooperation contract these 10,000

metering sites that are already within the scope of smart metering and the Gridstream AIM system, are connected as a part of a more extensive smart metering solution respectively a smart metering service. The multi-energy solution also enables connecting the 2,000 metering points for district heat in the future.

The systems can be connected smoothly as a single entity, because the flexible technology of Landis+Gyr enables merging the existing smart metering infrastructure as a part of the new smart

### Kuopion Energia

Kuopion Energia is a consolidated corporation owned by the City of Kuopio, consisting of Kuopion Energia Liikelaitos and Kuopion Energia Oy. In 2010, the revenue of Kuopion Energia Liikelaitos was EUR 54,5 million. It has about 50,000 transfer customers and about 5,000 district heat customers.

metering system. Thanks to the open system architecture, the system is compatible with meters from different manufacturers as well as multiple communications technologies.

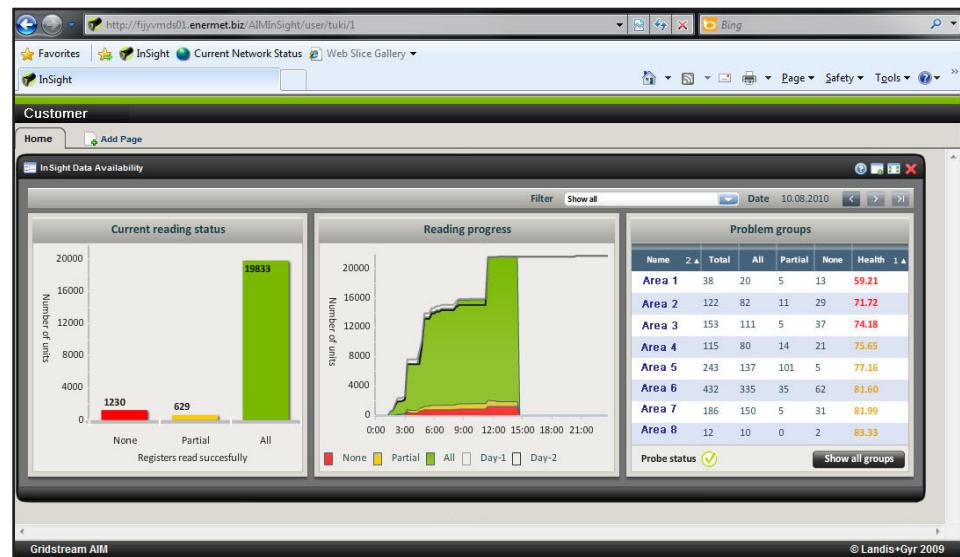
### Cost-efficient smart metering service

With its smart metering service, Landis+Gyr is responsible for the hourly-based collection of consumption data and operations as well as the maintenance of the Gridstream system. Each day the consumption data are delivered to Kuopion Energia's systems where they are utilized by the customer service and billing for instance. Regular reports of power quality data and network status are also delivered to Kuopion Energia, which gives the utility a better control of the network and the production capability. Also, the solution enables online access to personal consumption information for the utility customers.

**"We will always use the latest technology and expertise in the business. We also know the costs of system usage and maintenance throughout its life cycle."**

*Kari Vääränen, Managing Director,  
Kuopion Energia*

With Landis+Gyr's smart metering services the network company can utilize its resources efficiently by focusing on improving its own core business. It does not need to worry about the maintenance or functioning of the system, and the costs of the system can be predicted and managed consistently. Service allows Kuopion Energia to improve the efficiency of the whole operational process, features



The system performance and reading reliability of Kuopion Energia's smart metering system is continuously monitored by Landis+Gyr service experts. InSight monitoring application provides a clear overview of the system status.

real-time data on the status of the network and metering devices and provides better control of the network and the production capability.

### Many possibilities of smart metering

Kuopion Energia benefits from the transfer to smart metering in many different ways. The real-time data on the status of the network and metering devices provides significant cost benefits. It enables, for example, fast response to faults in the network, which assists in network planning and allocating investments and improves the efficiency of managing the condition of metering devices. Kuopion Energia can also develop its business on the basis of real-time data, for example, by providing their customers with diverse tariff solutions and personal energy management tools, which assist in the customer management process.

A significant benefit is also the improved control of the losses in the network and receivables. Real time consumption

information provides tools for identifying losses, and remote controls enable easy disconnection of metering points.

Smart metering also improves customer satisfaction because manual meter reading is no longer necessary and even removal readings can be performed remotely. Customers can receive a well-defined invoice based on actual consumption as well as efficient customer service based on real-time consumption information; for example, the reasons for unexpected peaks can be determined through a simple and fast process.

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## Intelligent multi-energy solution

Our technology:

- + 50 000 E450 and E650 meters
- + DC 450 concentrators
- + Communications:  
PLC, 2G/3G, fibre, WIMAX
- + Gridstream AIM software
- + AIMIA integration application
- + Site Manager deployment application
- + Dashboard application for monitoring of metering data
- + InSight application for system performance monitoring

Smart Metering solution to Kuopion Energia is delivered as a turnkey service. Also the system operation and maintenance service for 10 years is included in the contract.

The system operation service provides the utility with hourly metering data on a daily basis as well as regular network status and power quality information. On-demand services are carried promptly and efficiently out according to service level agreements.

Both the existing and new district heat metering points of Kuopion Energia can be included in the smart metering solution and service, as Gridstream provides a flexible and scalable multi-energy metering solution.

