



## Benefits

- Improve economy and competitiveness
- Reach a larger market
- Challenge expertise and flexibility
- Supervise the different automation into a single maintenance

Customer: Keravan Energia Oy  
Country: Finland  
Sector: Energy

## Remote connections of energy plants

The Keravan Energia Oy is a local company situated in Kerava (Southern Finland), with a population of 35,000 people. The Keravan company is responsible for the energy supply of this population in the region. Keravan Energia sells in the district annually approximately 400 GWh of electricity, 400 GWh of heat and process steam, and 25 GWh of gas consumption.

In long term, their aim is to improve their economy and competitiveness in a larger scale. Therefore, the company is continuously developing and automating its production and distribution, using technology and creativity in the service of innovation.

### Talk2M flexible service

They saw in eWON technology an opportunity to challenge their flexibility and expertise. This technology provides a remote maintenance through an eWON industrial router and the Talk2M online services. The operator or engineer can connect to the system remotely and manage and supervise the machines from afar in means of the eWON industrial routers which is directly link to the PLC connection.

The Talk2M service creates a « tunnel » between the system and the operator through a VPN connection without damaging their own firewalls. So this connection is totally secure, offering full integration of IT security standards. As the connection to the router is made by the internet, the operator can reach the system from anywhere in the world as long as he has an internet connection.

The flexibly and reliably link provided by the eWON technology seduced the company as well as the saving of cost that this service enables in the communication and maintenance sectors.

### Central control system point

In this way, the company can combine the different manufacturers' automation devices into a single whole maintenance. It's obviously a save of time and money. Now, in Kerava, there are several unmanned energy plants, even plans with different types of automation that are controlled from one center point. At the end, this was the goal of the Keravan company: to uniform the different types of automation and implement a single and unique control for all of this automation.

“ eWON solutions bring several benefits such as a fully transparence of data transfer for different manufacturers' automation devices ”



In means of eWON technology, the company can now gather the control systems of the multiples machines in one centre point



The Keravan company is responsible for the energy supply of 35,000 people

Various routers solutions had been used previously to reach this point, with a varying success, and this had led to a wide range of devices that were difficult to manage. Finally, Keravan Energia chose the eWON central unit with connected eWON remote units as the interface solution for their heat plants. By using eWON standard products, Keravan Energia developed in short time and tested a low cost pilot project, which led to a rapid decision-making.

### Multiple features

In the selected concept, remote units are connected to the central unit by means of fixed Ethernet and 3G/ GPRS wireless connections. All data transfer connections are based on a public open transfer network where the connections are secured thanks to the VPN solutions, certificates, user IDs, and passwords.

eWON solutions bring several benefits such as a fully transparence of data transfer for different manufacturers' automation devices. The supervising of the materials is uniformed in one central place. With this uniform hardware the system is easy to maintain.

The flexible use of public networks for data transfer allows the best transfer mode for each unit, while transfer costs can be optimized and reduced.

The structure implemented can now easily be replicated and switched to new destinations.

---

#### Head Office

22 Av. Robert Schuman  
1400 Nivelles  
Belgium  
Tel: +32 67 895 800  
info@ewon.biz

#### North American Office

2345 Murray Ave, suite #305  
Pittsburgh, PA 15217  
USA  
Tel: +1-412-586-5901  
info@ewon.us