

Remote connections of energy plants



eWON industrial routers flexibly and reliably link unmanned remote units to Internet using public mobile transfer connections

Kerava is a town in Southern Finland, with the population of 35,000. Keravan Energia Oy is responsible for the energy supply in the region.

Keravan Energia Oy is a full service energy group whose business idea is to improve the economy and competitiveness of the clients in its distribution area by means of economic energy supply. To ensure competitiveness, Keravan Energia is continuously developing and automating its production and distribution.



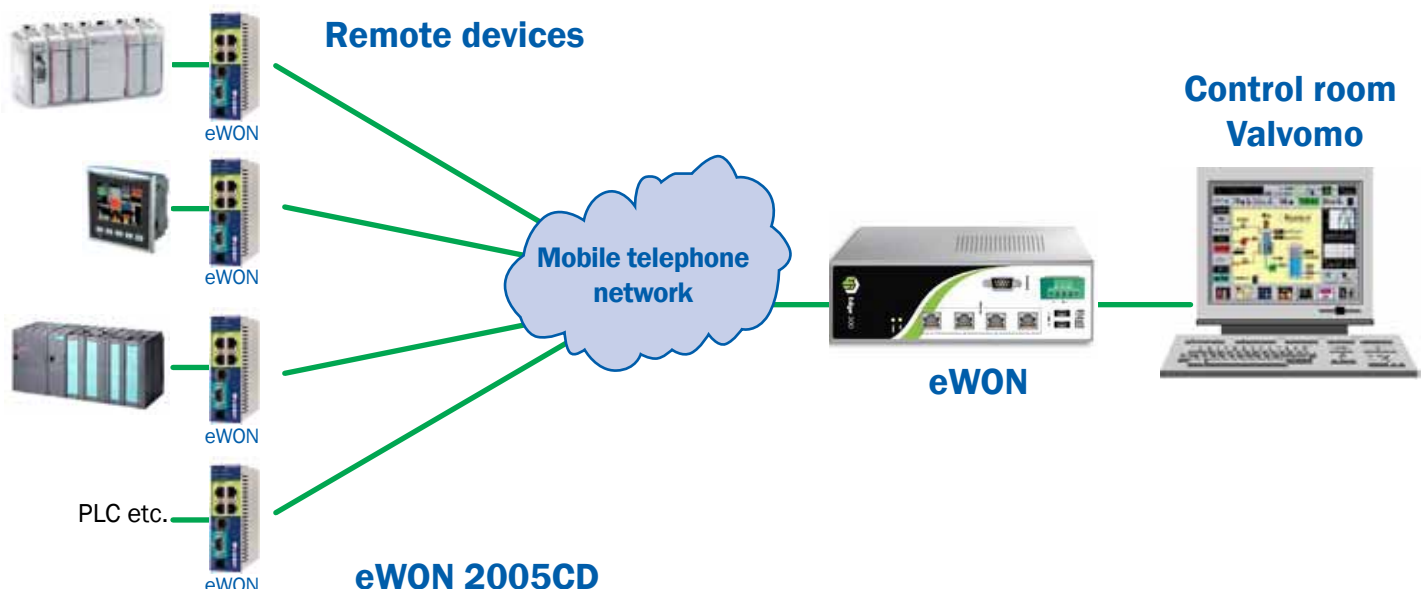
Keravan bio heat plant

Keravan Energia sells in the district annually approx. 400 GWh of electricity, 400 GWh of heat and process steam, and 25 GWh of gas consumption.

The aim is to combine the different manufacturers' automation devices into a single whole

In the Keravan Energia operating area there are several unmanned heat plants which are controlled from one central room. The types of station are different, various automation devices being used for the automation are supplied by different manufacturers. Our goal was to have all plants under uniform control. Various modem solutions had been used previously, with a varying success, and this had led to a wide range of devices that were difficult to manage.

Keravan Energia chose the eWON central unit with connected eWON remote units as the interface solution for their heat plants. Using eWON standard products, Keravan Energia in short time developed and tested a low cost pilot project, which led to a rapid decision-making.



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 by means of Open VPN solutions, certificates, user IDs, and passwords.

eWON solutions bring several benefits

Keravan Energia's eWON data transfer solution brings several benefits:

- fully transparent data transfer for different device manufacturers' automation devices, the same solution for all.
- flexible use of public data transfer networks allows the best transfer mode for each unit, while transfer costs can be optimized.
- the structure can easily be replicated and switched to new destinations.
- with uniform hardware the system is easy to maintain.

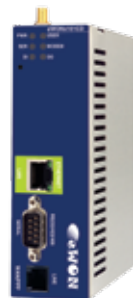


Machines can talk Routers for automation

- secure VPN connection to all units over the world
- easy to configure and reliable in use



- eWON COSY 141**
- router with plug-in installation
 - direct interface
 - serial interfaces for control devices



- eWON 2101 CD**
- VPN tunneling
 - global wireless GSM/3G compatibility
 - remote alarm, etc. device control: SMS, E-mail, FTP and SNMP
 - programmable



- eWON 2005 CD**
- Ethernet (WAN) 10/100mb, 1 or 4 ports
 - DHCP client
 - WAN to LAN router



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