Web Solution For Real-time Optimization of Thermal Energy Consumption

How developing a remote data acquisition system for physical heating control devices empowered one of Norwegian municipalities to monitor and optimize thermal energy consumption across the city in real time and save up to **30%** of energy for heating public spaces.

Challenges

We needed to develop a remote data acquisition system with heat metering and regulation devices. Based on the data acquired and energy consumption analysis of its consumption indicators in certain houses, was to be adjusted the work of the regulation equipment.

Solutions

- We built a **data acquisition system** using interface Ethernet converters. Metering and regulation devices are connected to the converters. We made this decision because heat metering and regulation devices are located in the same houses where, in most cases, data communication networks are installed.

- We developed a **software package** that consists of a data acquisition and long storage system, with a user interface accessible via web.

Features
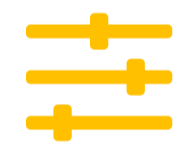
Constant control of heat metering and regulation equipment

Access to user interface via the web

Possibility to adjust the work of equipment

Possibility to acquire data remotely and provide long-term storage

Technology used

Danfoss ECL	Landis+Gyr Ultraheat 2WR	Web-based SCADA	Advantech 4000

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