

SCADA FOR HEAT CONTROL UNITS

In today's world, optimized energy use and energy conservation have become a pressing challenge. There are many areas within a city that actively consume various kinds of energy.

A specialized organization analyzed energy consumption and concluded that there is over consumption of energy in a city due to improper regulation of thermal energy supply depending on the outside temperature.

So, they arrived at the conclusion that if the functioning of the thermal equipment is optimized, we would be able to save up to 30% energy for heating.

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