Project Profile

South-Eastern & West of Norway Regional Health

Authority

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Information

The Regional Health Authorities in the West of Norway and The South-Eastern Norway have chosen Cebyc's energy management system Energinet. These two Regional Health Authorities serve more than 75% of the Norwegian population with their about 87,000 employees. Currently, there are about 1200 meters connected to Energinet from the hospitals. This figure is increasing.

The meters consist mainly of meters for heat, oil, gas, water and temperature. The data are collected automatically and submitted to Energinet by means of Cebyc's own loggers via GPRS.

"Active use of the energy management system Energinet, which is based on automatic collection of data, is important in order to achieve energy optimal operation of the technical systems in the hospitals. The training of the operative staff and earmarking of personnel for energy management are areas of priority within our project."

The South-Eastern Norway Regional Health Authority aims at reducing the energy consumption by 30 mill kWh per year by means of Energinet.

Case study:

The Oslo University Hospital, Ullevål, started using the energy management programme Energinet.no in 2006, in connection with an ENØK (energy economizing) project. The hospital has 63 buildings scattered all over Oslo which cover 420,000 m^2. The University Hospital forms a part of The South-Eastern Norway Regional Health Authority.

ULLEVÅL universitetssykehus

http://www.helse-sorost.no/

Before they put Energinet into use, the hospital had little or no control of its consumption of electricity and water. There were faults in several installations without them being detected, a fact that brought about an energy consumption far in excess of what was necessary.

By employing Energinet they have total overview of where the energy is consumed and control of the energy flow. They have installed energy meters in all buildings and receive daily reports about every building's energy consumption. In this way, they also detect faults and deviations in the installations and are able to initiate measures quickly.

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"An example of this is the following: A company had carried out maintenance work on the ventilation system in a building. They had forgotten to activate the heat recovery unit and they had disconnected the time control system. In a very short time, Energinet notified us that the energy consumption was enormous. We would never have managed to detect this situation without the aid of Energinet", says Robert Fjellstad, unit manager at Ullevål University Hospital.

Energinet also provides the hospital with an overview the specific areas in which they may introduce alterations in order to save energy. Many areas have now received more focus so that the goals are met. Examples of this are the consumption of steam in the laundry, the kitchen and for autoclaving inside the hospital, the ventilation system and cooling. When it comes to cooling, they have now installed meters in the cooling pipes and in this manner obtained better control and optimal cooling operations. The ventilation system is now controlled and user adapted, also with time control systems.

The Oslo University Hospital alone has **reduced the energy costs by nearly NOK 10 million per year, a sum that equals 13%.** Still, the hospital believes that there is a potential for saving even more and has a goal of saving another 10%. In total, the regional health authorities in **Health South-East have a goal of saving 30 mill kWh with the aid of among other things, the energy management system Energinet.**

"We have invested about 820,000€ in total to reach the goal of 13% reduction in energy consumption, and we expect one man-labour year for follow-up of our 400,000 m2. This gives us a pay-back time of less than a year", says Robert Fjellstad.

Energinet.no is the first energy management system which is in accordance with the DIN EN16001energy management standard.

Erfüllt die Hauptanforderungen der DIN EN 16001

DNV

Geprüfte Software

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