



ECO energy management Just cut off energy costs

Problem

A considerable proportion of energy bills for small to medium-sized businesses results from peaks in demand – commercial energy rates are made up of two components: an energy rate (peaks in demand) and a demand rate (consumption). When electric consumers are operated at random, they create high costs from rarely used loads and make the company's power consumption inefficient. Increasing power shortages and rising electricity prices, intelligent energy management is becoming ever more important.

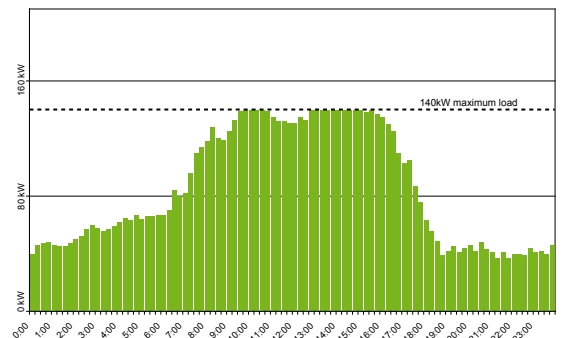
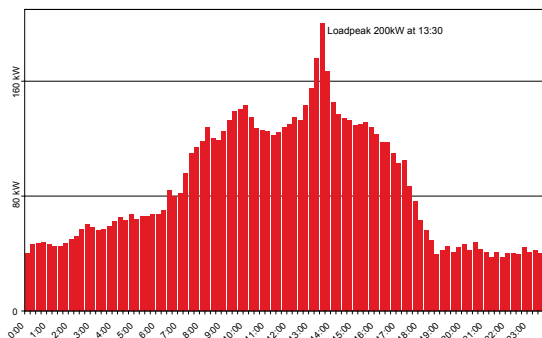
Task

In order to avoid expensive peak demands, consumers need to be deactivated at specific times for short periods or switched off either entirely or in stages without resulting in any noticeable discomfort (e.g. room heaters and hot water boilers). As soon as the business' consumption drops, these systems should then be reactivated progressively for further use. The peak demands by lethargic consumers may then be shifted to times of low consumption.

Solution

The ECO energy management system monitors the power consumption of individual loads and controls how they are activated in relation to their importance. Consumptions throughout the entire consumer system may thus be monitored while performance levels are maintained. Optimum power consumption considerably reduces peak demand and simultaneously decreases the system's connected load. The overall result is a significantly more consistent power uptake by the entire monitored consuming system.

Load profile



Customers

Applications range from hotels and restaurants through all branches of industry to swimming baths and leisure facilities. ECO can help save energy costs where boilers, heaters, air-conditioning systems, towel dryers, pumps (interval mode), catering equipment are used. The power management controls the simultaneous use of consumers and protects energy customers from the random factors that affect consumption and which may result in very high costs.

Scope

ECO8 III SYS Master Device	Maximum monitor, central unit
ECO8 III GATE Output Extension	Switch channel extension for ECO8 III SYS
ECO8 III COM	ECO-PC communications package
ECO8 III COM Ethernet	ECO-PC Ethernet communications package
ECO8 III Soft	Parameterization software for PCs