

# Tesco wants to use energy more efficiently

In Thailand, Schneider Electric implements PowerLogic, a powerful energy management system, for Tesco Lotus. The system will be replicated to other Tesco stores around the world.

Tesco Lotus is the biggest retailer of consumer goods in Thailand, with a network of over 200 convenience stores, 40 supermarkets and 54 hypermarkets throughout the country. Tesco continuously implements new technologies to improve its performance and use energy more efficiently.

In 2004, Tesco Lotus started its energy saving program in cooperation with a government organisation – the Ministry of Energy – in order to reduce energy consumption as much as possible. Many projects were invested in, such as green buildings, changing the type of light bulbs used, reducing losses in the air conditioning system, and so forth.



Tesco's growing network of stores in Thailand requires a powerful EMS to keep energy management under control

## Energy Management System (EMS) for Tesco Lotus

Because of the large number of stores, Tesco needs a reliable energy management system to support its energy saving program. This system has to be centralised so that Tesco can measure and record all related energy information from all kinds of stores in Thailand. This system must be a proven, accurate and reliable Web-based system that can link Tesco's network of facilities.

Our PowerLogic EMS answers all Tesco's requirements. The system provides information on energy consumption and gives precious feedback on power quality problems, which can cause serious damage and losses in the stores. The PowerLogic solution for Tesco consists of enterprise Web-based energy management software (SMSPE), a highly accurate digital meter (PM820) to measure electrical and power quality parameters at every store, and an Ethernet gateway (EGX100) to link the PM820 to Tesco's network.

Managing the energy of 300 stores is a difficult task if there is not a powerful tool with easy interface features. The wizard tool and human-touch design embedded in PowerLogic software helps Tesco's staff to make different kinds of energy reports with ease and manage the large network of stores.

## And the future?

The retail market in Thailand is undergoing strong competition. Although Tesco is the leader in hypermarkets, the challengers are coming close to seizing part of its market share. That is why Tesco has to act fast and must keep extending its stores to cover the entire market. The increased size of the store network makes energy management ever more complicated. PowerLogic will play a great part in helping Tesco to manage this complex task.

Thanks to this success in Thailand, the model is currently being implemented in other Tesco stores around the world. Tesco has asked Schneider Electric to implement the PowerLogic system in all its stores in Malaysia.

[Retail] June 2008