enistic

CASE STUDY

ST JOHN AMBULANCE SERVICE REDUCE ENERGY USAGE BY 60%

Background

With International distributors based in Dubai, America, Mexico, Canada, Cyprus, The Netherlands and Ireland, its easy to see why Enistic technology has helped countless companies all over the globe.

Our master distribution partner over in New Zealand has been reselling Enistic products for over two years and back in August 2010, Dean Brown, Director of Enistic New Zealand secured a deal with St John in Christchurch.

Dean was authorised to install a trial of the Enistic Smart Metering System into two buildings in the Wainoni area. The aim of the project was to determine where the power was being used in the St John Ambulance Garage which services all the ambulances and the Waihoni Ambulance Station which runs 24 hours a day 7 days a week.

St John currently spends approximately $3,500,000.00 per year on electricity. By using the Enistic service a minimum of 20% of energy savings can be made by analysing where energy is being expended and then implementing simple energy saving initiatives.

THE AMBULANCE STATION, HELENCA ROAD, WAINONI

How we did it?

Enistic installed two 16 channel meters (SM16B) in each site. These meters monitored 32 circuits measuring lighting, heating, incoming power and all internal power in both buildings. These meters were monitored for an initial two month period, so a baseline reading could be established.

It was discovered that the heating in the service garage was permanently switched on, even when everyone had gone home and the lighting was left on 24/7. The ambulance station was also using a constant power supply in areas that were not always in use.

After two months a few simple changes were made; daylight sensors were installed on all lighting fixtures and a timelock control on the heating – which is set to turn all the heating on or off at certain times of the day. Enistic then continued to monitor both estates for a further 4 months to quantify further savings.

> “The installations were so easy and I am delighted with the savings that were made due to these simple changes.”

DEAN BROWN
DIRECTOR OF ENERGY GUARDIAN NEW ZEALAND

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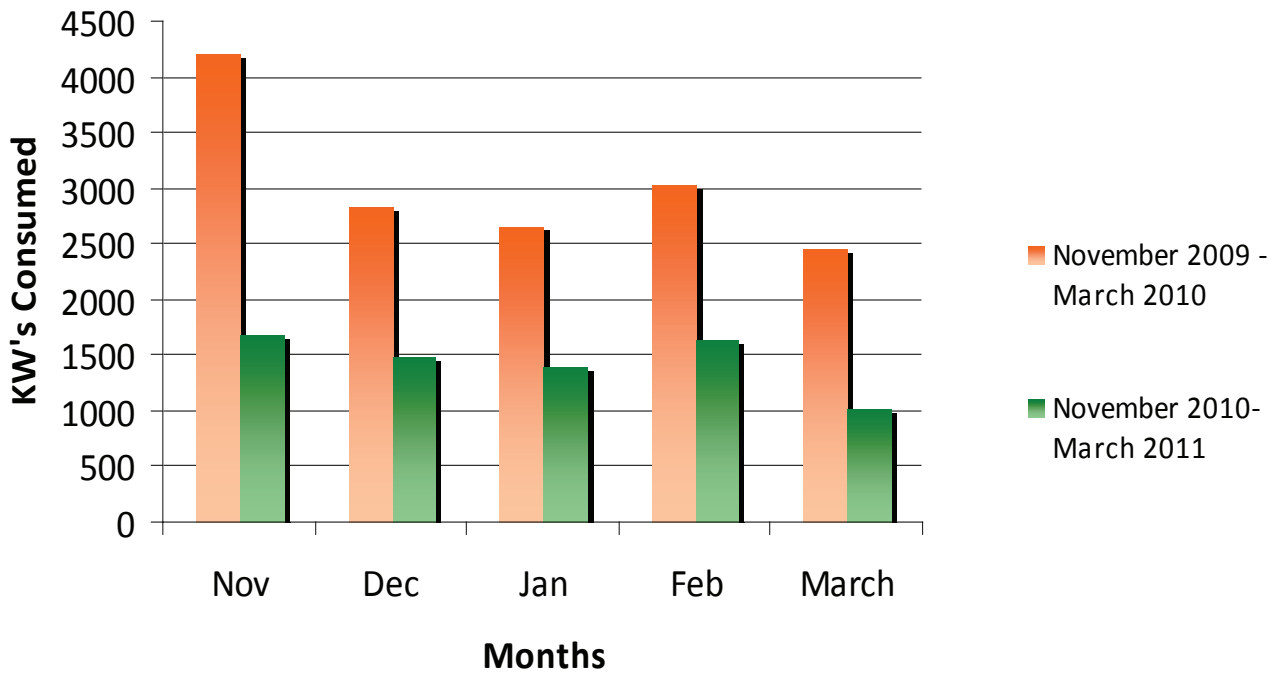
Outcome

After installing the Enistic smart metering solution in August 2010, followed by two months of energy monitoring, a clear conclusion was reached. A report was compiled based on the actual costs and energy usage for the previous twelve months and the analysis showed a 60% savings in one building and 47% savings in the second. Energy saving recommendations made by Dean to St John were then implemented in late October 2010.

Further more, St John was so impressed with the energy savings made in Wainoni that Dean has gone on to work on several other branches; St John Queenstown where one month into data collection has already established that the facility has very inefficient heating, lighting and hot water systems and a report in progress currently estimating savings of around 50%. Dean is also working on St John Christchurch and St John Rangiora, where both buildings are currently being considered as possible Voltage Optimisation test sites.

Graphical Results



The graph shows the amount of energy St John have saved in their Ambulance Station by using Enistic's Energy Saving recommendations and devices within a 5 month period cumulating in a total saving for the 5 months of $1752.30