

Reducing Energy Use

Energy Management



WHAT IS ENERGY MANAGEMENT?

The term “Energy Management” has a number of meanings, but we’re mainly concerned with the one that relates to saving energy in businesses and homes.

When it comes to saving energy, energy management is the act of monitoring, controlling and conserving energy in a building, or production process.

This usually involves the following steps:

1. Metering your energy and collecting the data.
2. Find opportunities to save energy - analyse the data to find areas of energy waste.
3. Take action by implementing *energy saving opportunities*
 - Tackling routine waste by educating staff on findings and strategy
 - Identify obvious areas of energy waste produced by poor control strategies and rectify
 - Upgrading in-efficient equipment
4. Tracking your progress by analysing your energy data to see how well the efforts have worked.
(Repeat steps 2-4)

ENERGY SAVING OPPORTUNITIES

Aside from upgrading in-efficient equipment, your energy retailers tariff structure plays a dynamic part in developing energy saving strategies.

For example, a demand tariff can be optimised by collecting energy data to determine peak times of energy use and fitting a simple demand controller to prevent the overlapping of the sites larger energy users during this peak period.

Time-of-use tariffs can present an opportunity to automatically schedule loads during off-peak periods - in a refrigeration scenario, implement an automatic temperature setback while in peak billing periods.

By having insight into your energy profile, there are opportunities to even switch to a more suitable tariff.

This is just a glimpse into the “low hanging fruit” of energy saving opportunities which can reduce a significant amount of the energy retailer charges, often paying off the initial outlay for energy monitoring equipment.

ENERGY MONITORING PACKAGE

Van Eerde Air Conditioning, Refrigeration and Electrical is able to offer the following permanently installed, industrial data collection and visualisation equipment for energy monitoring:

- Simple package to install on existing sites – no major upgrades
- Provides onsite and remote access to friendly graphical user interface – see over
- Allows universal communication with the most varied field equipment – see over
- No lock-in contracts

As a guide, a simple installation begins at \$4291 EX GST which provides monitoring of an entire sites electrical energy usage, onsite and remote access to graphical user interface, connection to site-supplied internet access point, commissioning, automatic reporting/alarming via email and freedom to further upgrade in future.

Example Installation

