E-Vision
MONITORING

E-Vision is a user friendly, flexible, low cost monitoring, analysis and reporting system. It provides a integrated hardware and software solution for the collection and analysis of data from an unlimited number of sources including equipment, resource usage and process feedback. Inputs to the system can range from generators, HVAC, rotating equipment and pumps.

The system provides the ability to monitor, manage, optimise and assist in preventative maintenance.

Data can be collected via Modbus industrial communication protocol and a variety of analog and digital sensors. The real time information can be viewed via a web page on a computer or mobile device. Data can also be integrated into your existing analytical monitoring system.

E-Vision provides greater visability with access to both real-time and historical data to improve performance while taking away the guess-work.

Features:

- 24/7 access Remote monitoring of equipment
- Automated SOS alerts (including by mail & text message)
- Communication with central servers
- Remote fault detection
- Diagnosis and rectification
- Easy access to information in real time
- Multiple data display (charts, reports, plant view, panel view)

Benefits

- Flexible/ Modular/Scalable
- Low cost
- Easy to Install, Configure and Use
- Provides visibility to equipment
- Integrates with BMS equipment
- Delivers alerts via email and SMS
- Flexible reporting
- Discover issues before they become a problem

SIMONS
GREEN ENERGY

APPLICATIONS

E-Vision is completely modular and can monitor an unlimited number of parameters. We can provide a solution incorporating the usage of existing sensors and interfaces, as well as designing and installing a custom set of E-Vison to meet your monitoring and reporting requirements. Some examples below:

APPLICATION	EQUIPMENT	SOLUTION
Energy Generation	Cogen, Trigen, Solar PV, Solar THermal, Diesel Generators	Calculating carbon saved through acquired data Monitoring Gas used Calculating efficiency of equipment Predicting faults through acquired data analysis
HVAC	Chillers, air handling equipment, boilers, etc	Calculating efficiency of equipment Monitoring of consumed energy Gathering information to improve peak shaving Predicting faults through acquired data analysis
rotating equipment	fans, compressors, pumps, motors, etc	Monitoring the speed of the pumps and or fans Monitoring vibration near moving parts Predicting faults through acquired data
Environmental, Resource, and Economic Sustainability	fans, compressors, pumps, motors, etc	Performing automatic tasks and reporting results

HOW IT WORKS

The system's distributed architecture, includes a range of devices that collect and process data at different levels. A data network is installed locally to gather information from sensors and existing PLCs. Hubs in the local network forward this data through the Internet to remote servers for analysis, and also to display it through secure websites. Data is displayed in different portals to accommodate to clients needs, including an intuitive front end for general public and a technical backend for detailed analysis.

Modular platform is what makes the system scalable, easy to install, upgrade and troubleshoot.

PROJECTS

Frankston Arts Centre
125kWe Trigeneration System
Micro Cogen Technology Demonstration Site

Mingara Recreational RSL Club
230kW Cogeneration systems x 2

Canterbury Hurstone Park RSL Club
Trigeneration System

CALL Simons on 8338 8660 to discuss your needs... there are packages to suite your needs
PACKAGES: We can design a package specific for your requirements.