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Power Monitor Configuration and Reporting

Power Control Engineers have expertise in designing and installing Allen-Bradley based power monitoring solutions. PCE can advise on optimal metering, networking and software installation to realize effective management of electrical power consumption and to identify potential energy savings.

Services include the management of new installations or expansion and improvement of existing monitoring base. Some features of an Allen-Bradley Power and Energy Monitoring installation, which may be implemented are shown below.

Transient Capture and Harmonic Analysis

High speed transient capture and harmonic analysis are features of certain Allen-Bradley power monitor models. Using such information PCE is able to diagnose faults and advise on solutions to system faults or disturbances. This information is also helpful in proving supply quality.

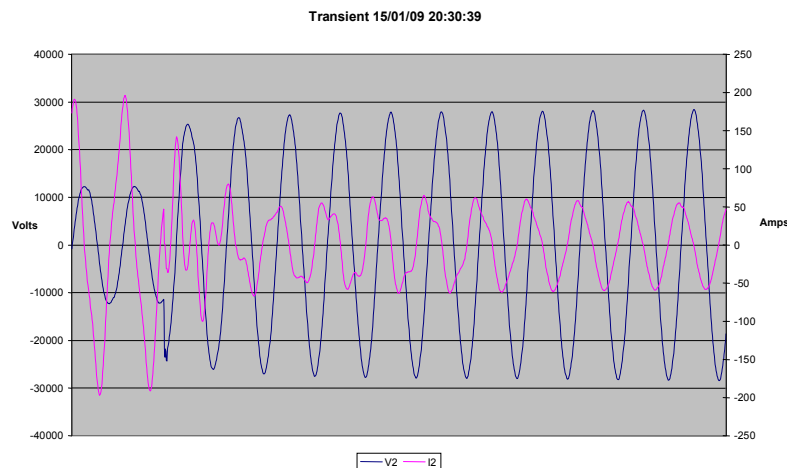


Fig 1: Transient capture download from Allen-Bradley Powermonitor 3000 M8 using RSEnergyMatrix RT option.

RSEnergyMatrix Multi-Purpose Report Scripting Service

RSEnergyMatrix is Allen Bradley's standard reporting software. Should the default report templates in RSEnergyMatrix not provide the specific data required, or data from many reports needs to be combined into a single report, PCE is able to customise consumption or billing reports using the ReportsPlus Visual Basic.NET scripting language. The reports may be configured to automatically run to a schedule and optionally sent to one or more email addresses. ReportsPlus is an add-on package for RSEnergyMatrix.



Power Monitor Upgrade Service

PCE offer a service to upgrade software of existing Allen-Bradley power monitors. Functional or version upgrades may be performed.

Improving Energy Efficiency (Output/kWh)

Power and energy data may be used to determine important production efficiency figures by determining how much energy is expended in producing a unit output from a plant.

Check Supply Authority Tariffs

Power monitors positioned at supply authority metering points provide for checking of supply authority tariffs and provide data to optimize the selection of best tariff scheme to reduce energy costs.

Optimise Equipment Utilization

A power monitor installed at plant equipment or plant support areas will provide data to optimise equipment usage and reduce running costs.

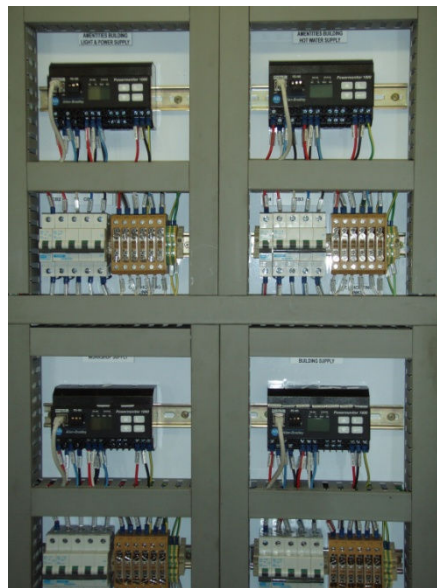


Fig 2: Ethernet connected Allen-Bradley power monitor Installation by PCE to monitor power, lighting and air conditioning consumption. Data is collected and analysed using RSEnergyMetrix software.

Load Shedding

Reduce peak demand by actively shedding load and rescheduling some production to a different time slot. Reducing peak demand may help in negotiating cheaper energy with your supply authority