

1000 Megawatt California Power Company Standardized on ProSmart

Power plants understand the importance of continuous monitoring of critical equipment. An unplanned outage will result in lost revenues that are non recoverable and the timing of an outage could impact the supply of power to customers. It is widely agreed that the avoidance of one unplanned outage will more than pay for a continuous monitoring system.

A California power plant had an initiative to implement such a system and they expressed an interest in ProSmart based on its wireless range, analytical capabilities and economic cost. A 10 unit trial was started in early 2008. Based on the success of the trial, a full plant build out was initiated in the 3rd quarter of 2008 which included an additional 42 units. GE Bentley Nevada was also trialed and ProSmart proved to offer better wireless range and a more economical price.

The system covers a wide range of equipment including screw gas compressors, boiler feed pumps, condensate hot well pumps, liquid ring vacuum pumps, vertical turbines and vertical vent fans. The dashboard for the fuel gas compressor is shown below. This customer is currently monitoring bearing vibration and temperature and rotational speed but has recently decided to also utilize ProSmart to perform performance measurement. This will involve inputting 4-20mA signals to continuously monitor flow, pressure and power. The ability to monitor these process signals in conjunction with bearing point data will also provide our customer with "Best in Class" diagnostic capabilities.

No. 1 Fuel Gas Compressor

