

Monitoring and Managing Key Performance Metrics from Mobile Devices

Challenge

Constellation Energy has a wealth of real-time operations data in their existing IT systems, but wanted to expand “anywhere access” to data, scorecards and trends for all levels of management. The Fortune 500 utility deployed Visual KPI in their central Performance Management and Diagnostics center so that users could monitor and manage key metrics – such as operations, predictive maintenance engineering, vibration analysis, emissions tracking and daily reports – from their PDAs and SmartPhones.

Experience

Visual KPI’s lightweight analytics aggregate data from Constellation’s existing IT systems – including the OSIsoft PI System data historian and SmartSignal – and deliver actionable information in the form of rich scorecards and trends directly to users’ mobile devices, thereby extending the value of Constellation’s existing investments. A decision support tool used on a daily basis, Visual KPI helps all stakeholders to easily access alerts and drill-down information and identify early warnings before problems become critical to increase plant availability and improve operational performance.

Improving Operational Performance

In combination with PI, SmartSignal and Visual KPI, Constellation has:

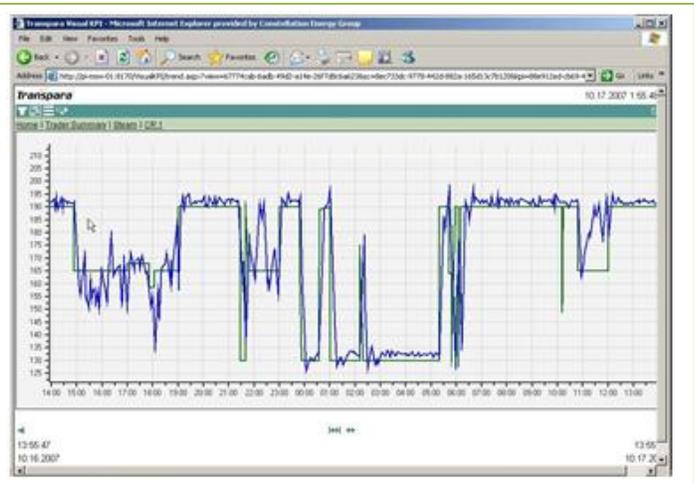
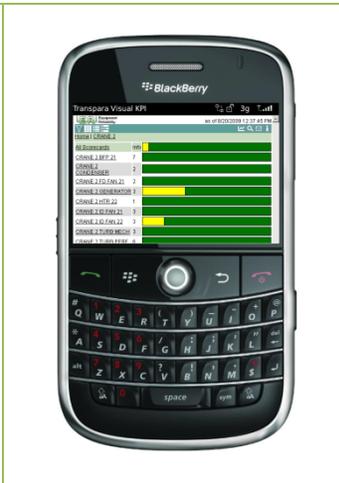
- had 83 total catches, including 47 sensor related and 36 equipment related; and
- reduced the number of outages due to boiler incident from 40 to 11 in the last 12 months.

“The most critical business activities in the utilities industry, like decreasing environmental emissions or reducing outages, depend on having immediate access to pertinent operations data. By allowing us to repurpose existing data across the entire organization, Visual KPI has become a valuable business analytics tool that’s an extension of the control room. When members of the executive staff check Visual KPI before doing anything else in the morning, you know it’s a must-have tool!”

- Steve Noel, director of IT, Constellation Energy

Visual KPI Implementation

Easy to configure and deploy on any mobile device, Visual KPI is a cornerstone of operational performance management. Constellation uses Visual KPI for remote monitoring of generation, predictive maintenance engineering, controllable losses, emissions and vibration analysis, PI server health and back-up aging, and SmartSignal Watchlist alerts.



Constellation Energy (www.constellation.com) is a leading supplier of energy products and services to wholesale and retail electric and natural gas customers. It owns a diversified fleet of generating units located throughout the United States, totaling approximately 9,100 megawatts of generating capacity, and is among the leaders pursuing the development of new nuclear plants in the United States. The company delivers electricity and natural gas through the Baltimore Gas and Electric Company (BGE), its regulated utility in Central Maryland. A Fortune 500 company headquartered in Baltimore, Constellation Energy had revenues of \$19.8 billion in 2008.