Process plants are dynamic in nature. Continuously changing feedstock, operating conditions, products and environmental factors impact the daily operation of a process plant. It is no longer sufficient to monitor a plant occasionally on a static basis.

With intense industrial competition, companies must track and monitor key performance indicators (KPIs) continuously including profitability, costs, energy and environmental factors.

Personnel on these large assets are focused on maintaining throughput and keeping units online. Plants need to reduce cost and energy consumption while also facing limited resources to manage safety and quality issues. There is increasing demand for efficient graphical solutions and analytics that provide actionable items as opposed to reams of data.

ProRPM is a model based remote performance monitoring (RPM) solution. ProRPM features easy data integration, next generation dashboards, web services and a rigorous calculation engine used to calculate KPIs, greenhouse gas (GHG) emissions and other custom calculations. There is also seamless connectivity with leading modeling and process simulation engines.

Benefits of using ProRPM

- Remote monitoring of manufacturing assets
- Integration with disparate data sources including historians, simulation software and databases
- Workflow management
- Ad-hoc calculations and key performance indicators
- Cloud based deployment
- Easily embed existing PDF, Excel documents and images within the dashboard
- Role based visualisation
- Easily configurable dashboards with pre-built widgets
- Predictive analytics to help detect and address problems before they happen
- Configurable reporting and data exporting capabilities

System integration

- Easily connect to multiple DCS/SCADA systems
- Integration with historians, databases, and ERP systems
- Connect to leading simulation and modelling engines
- Connect to third party specialised software for equipment, energy and emission monitoring
- Connectivity via OPC HDA/DA connectors, XML, web services, etc
Steps to use ProRPM

• Plant data collected through historian/database
• Rigorous simulation model developed to determine optimum operation
• Custom knowledge templates created to predict current and future problems or improvements in the plant
• Dashboards and analytics with KPIs to show performance
• Engineers continuously monitor the plant, making recommendations for improvements

Key features

• Web based monitoring
• Easy integration with leading process simulation and modelling engines
• Easy to build dashboards in the form of widgets or templates
• Energy management systems and unit and equipment monitoring
• Integration to data historians, databases and spreadsheets
• Multi-user environment with role based privileges
• Energy, unit and equipment monitoring templates
• Calculation engine for additional user configured calculations
• GHG emissions monitoring and reporting per Environmental Protection Agency (EPA) requirements
• Embedded geographic information system
• Continuous monitoring of KPIs and performance
• Perform ‘what-if’ analysis and debottlenecking
• Equipment condition monitoring
• Accurate material balance and loss analysis
• Profit and operations analytics through dashboards

For more information visit:
www.woodgroup.com