

Asia Energy Technology

Global Standard by Thai Engineer

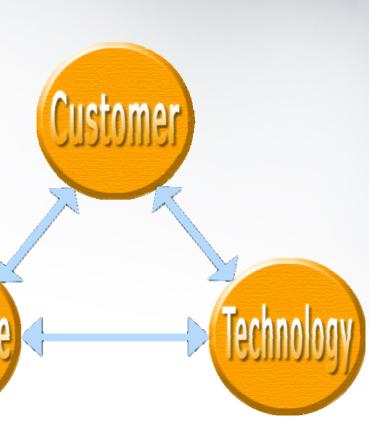




Asia energy Technology Co.,Ltd. (AET) is a Thai application software developer with focus on solution for energy industry and power utilities.

PowerEx Concept Development

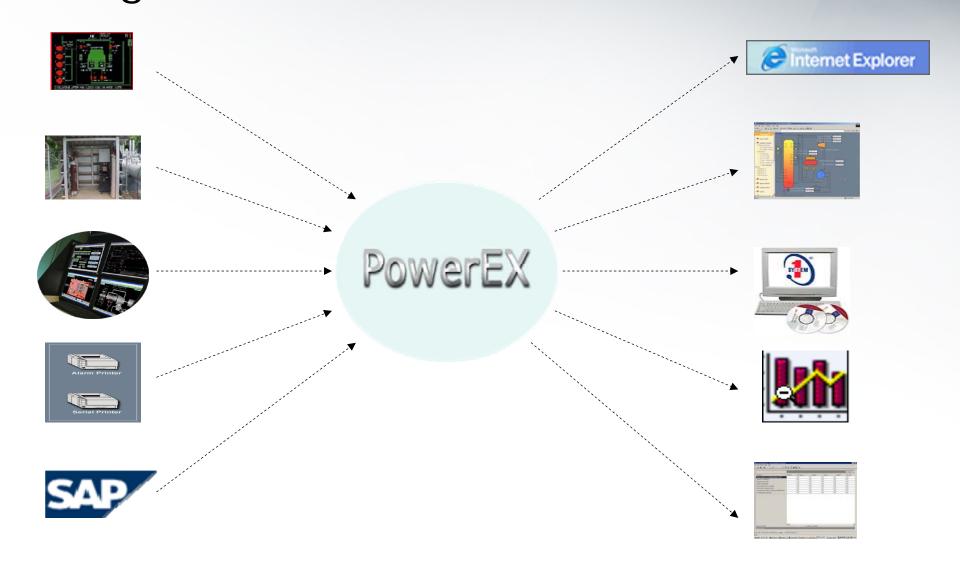
- Customer Requirement
- Automation Experience
- Creditability
- Merging of automation and IT
- Availability of general S/W tools





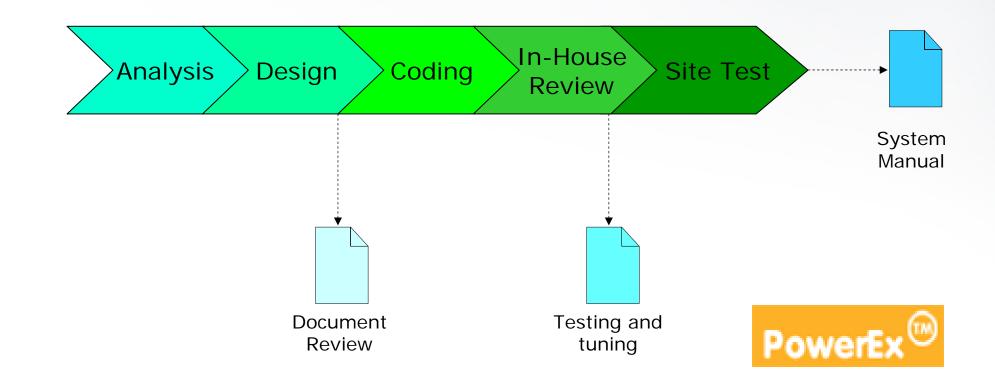
What is PowerEx

Exchange Information for power plant management



Global Standard by Thai Engineers

- IT (Intranet, Web Browser, HTTP, XML)
- Automation (ModBus, OPC, ODBC, @aGlance)
- Methodology



De facto Standard by Microsoft



Window Operation System



Internet Explorer



SQL Database



Web Server





AET Customer - KEGCO Plant

- –Plant-IT System
- -Alarm Management System
- -Preventive & Corrective Maintenance
- Outage Management



AET Customer - KRABI Plant



- Power Plant Monitoring System
- Operator Log Sheet System



AET Customer - GLOW Plant



- -Alarm Management System
- -Control and automation system audit



<u>AET Customer – GULF Plant</u>



- Online Plant Monitoring System



<u>AET TEAM</u>



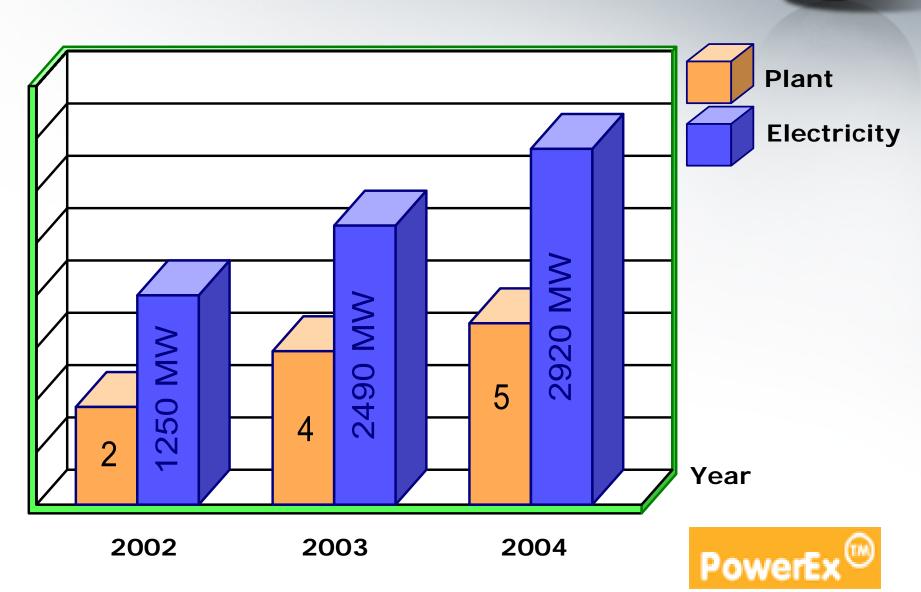


- Management with years of experience in power plant automation / IT
- Young staff from leading universities
- Support by training and Microsoft certification



AET Performance

Performance

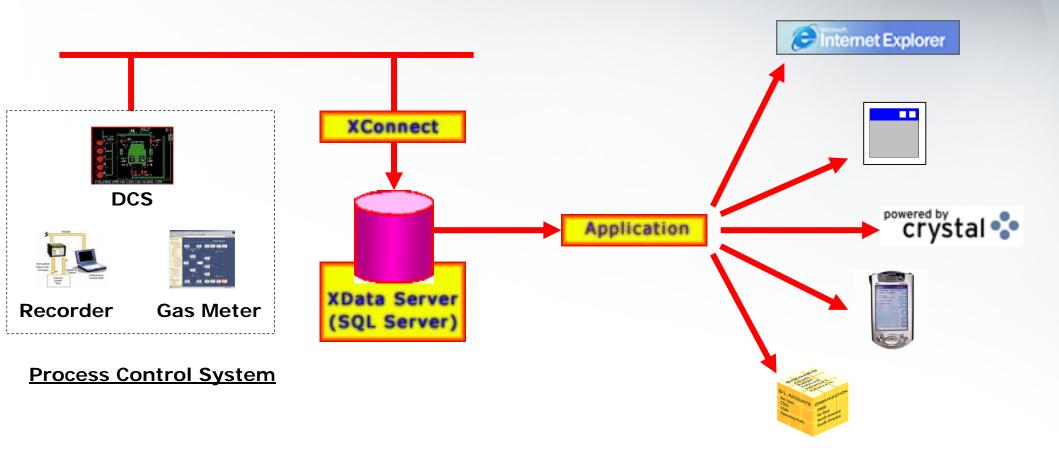


PowerEx & XData



PowerEx Architecture





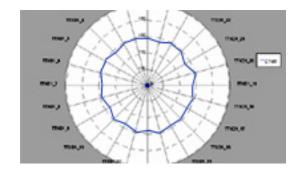


PowerEx Component

<u>XDATA</u>

Based on Microsoft SQL Server

- SQL
- Designed for large volume process data
- Historical, Real-time and Trend Tables
- Support OLAP and XML web services



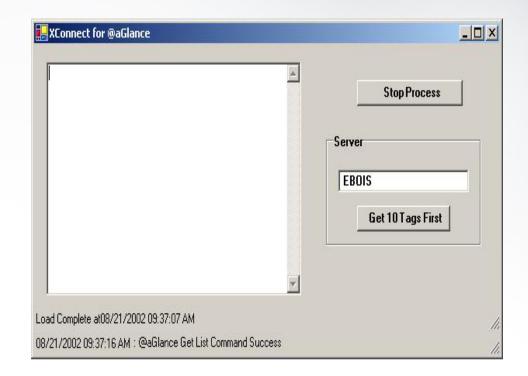


XConnect Interface



Fully compliance to automation system manufacturer standard

- @aGlance interface
- Modbus Interface
- OPC Interface
- TCP/IP Interface
- ODBC Interface
- Serial Interface



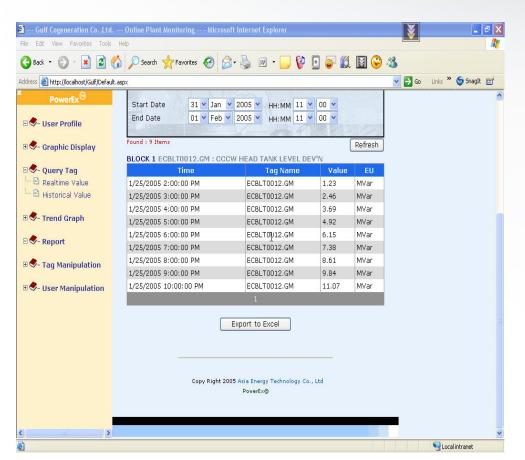


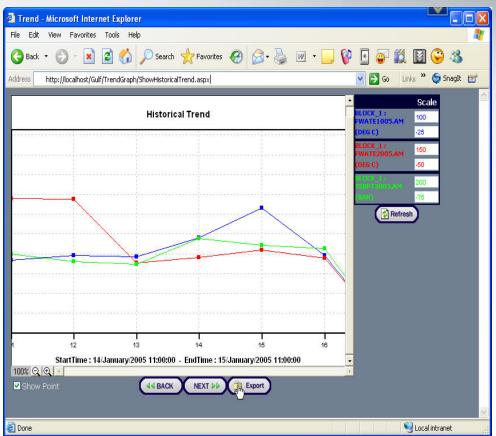
PowerEx Application



<u>Application – Data Historian</u>

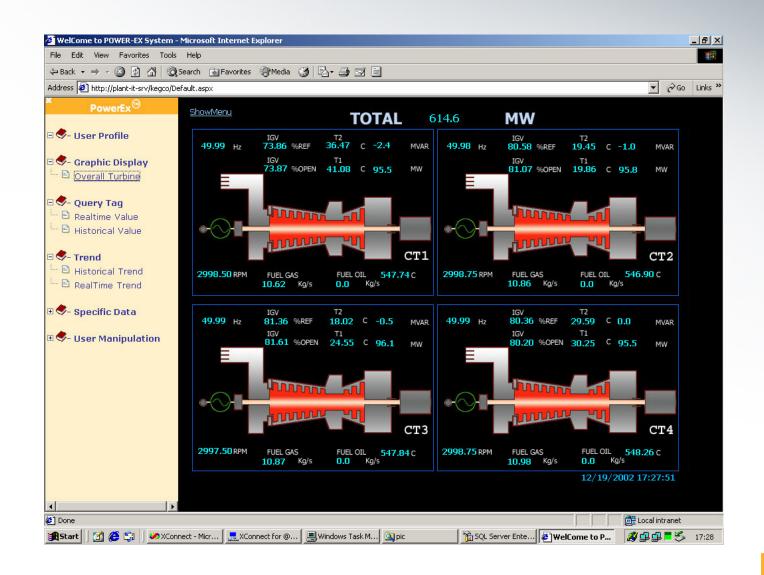






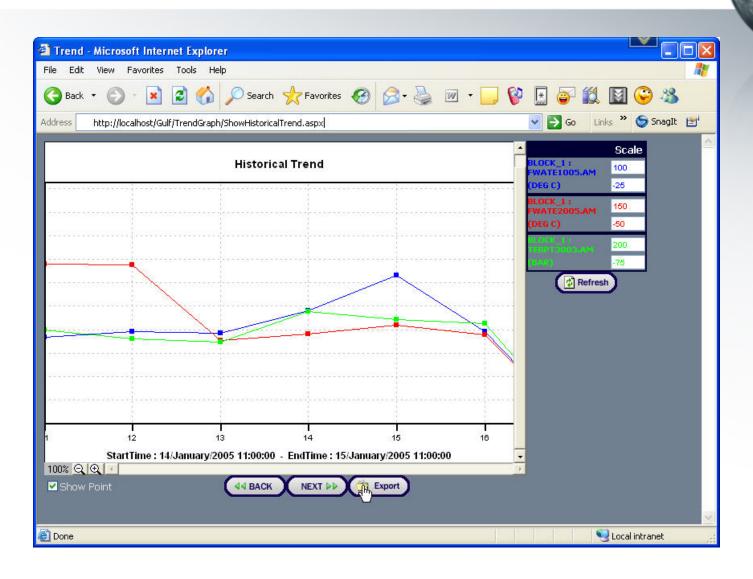


Application - Real Time Analysis





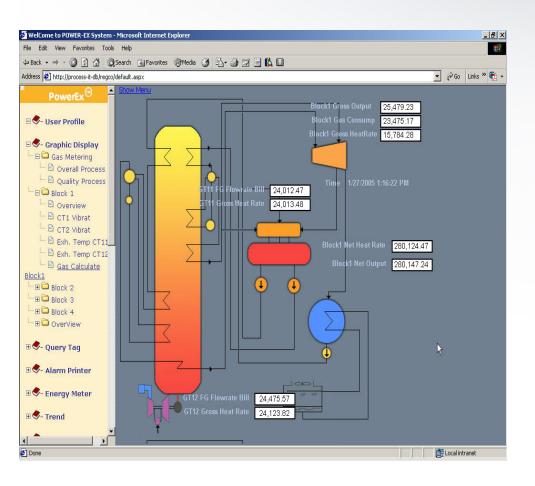
Application - Trend

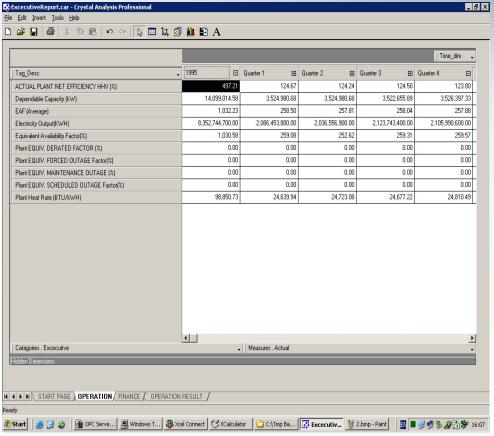




<u>Application – Gas Composition /</u> <u>Efficiency Calculation</u>

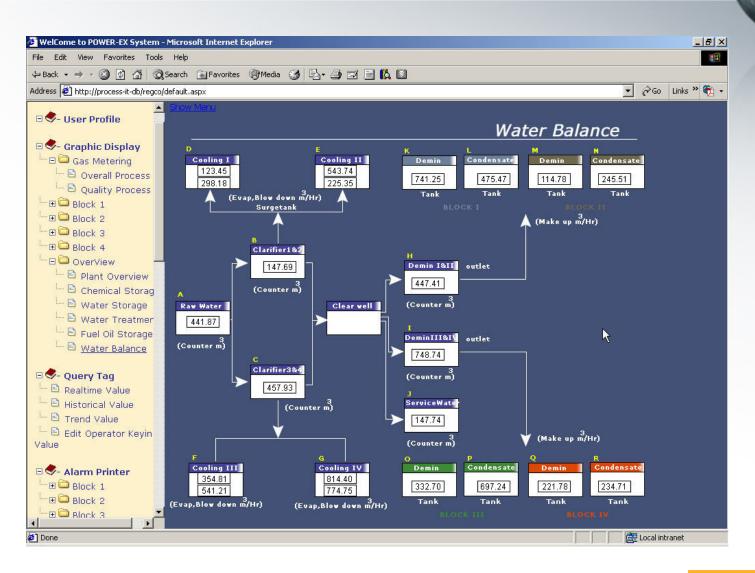






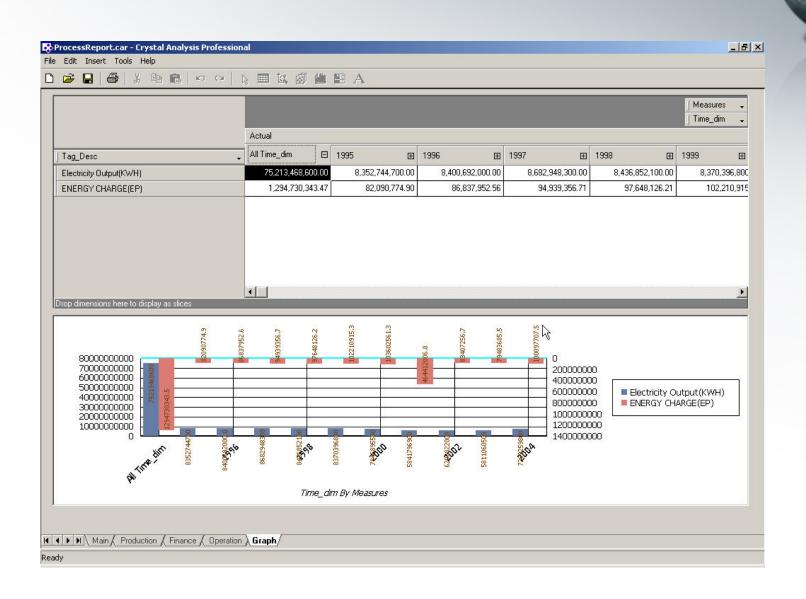


<u>Application – Water Balance</u>



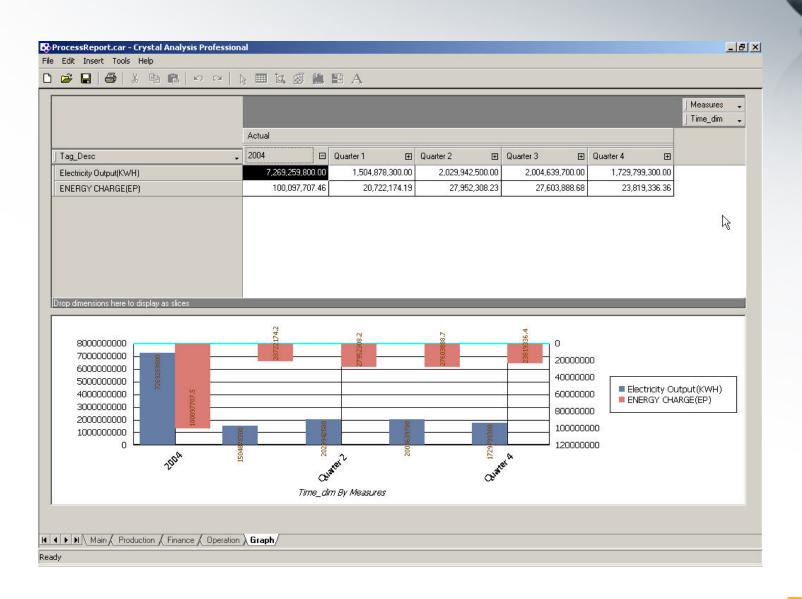


Application – OLAP



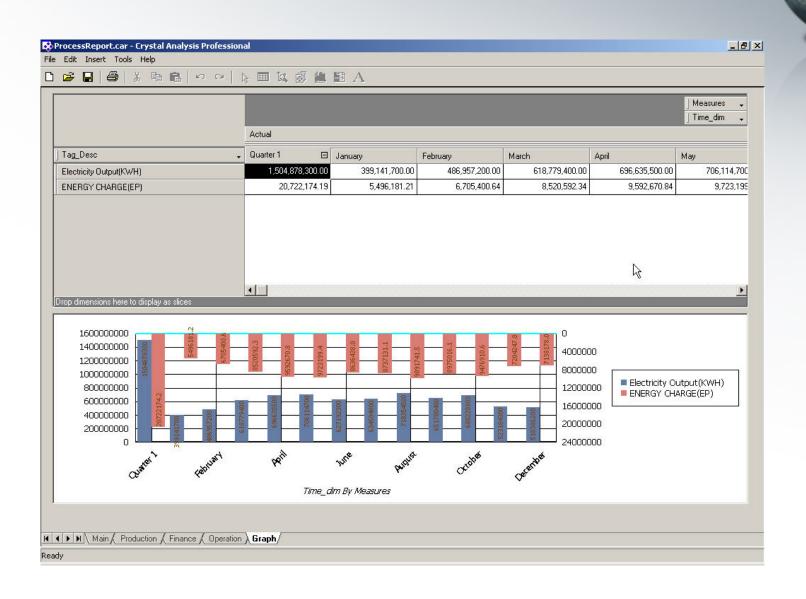


Application - OLAP





Application - OLAP





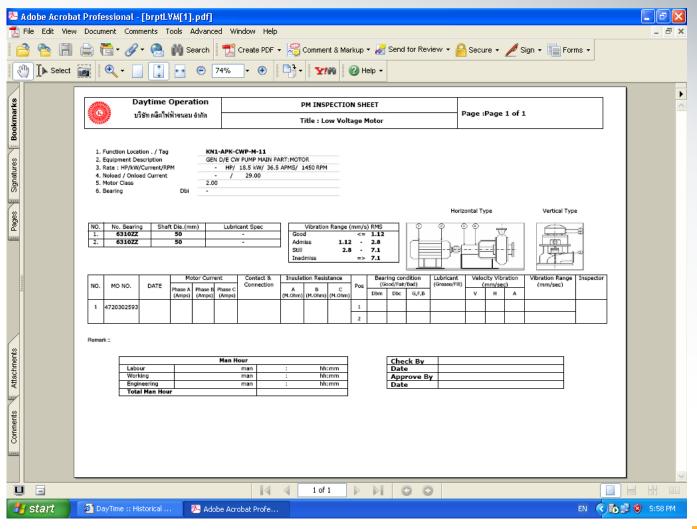
<u>Application – Operator Log Sheet</u>





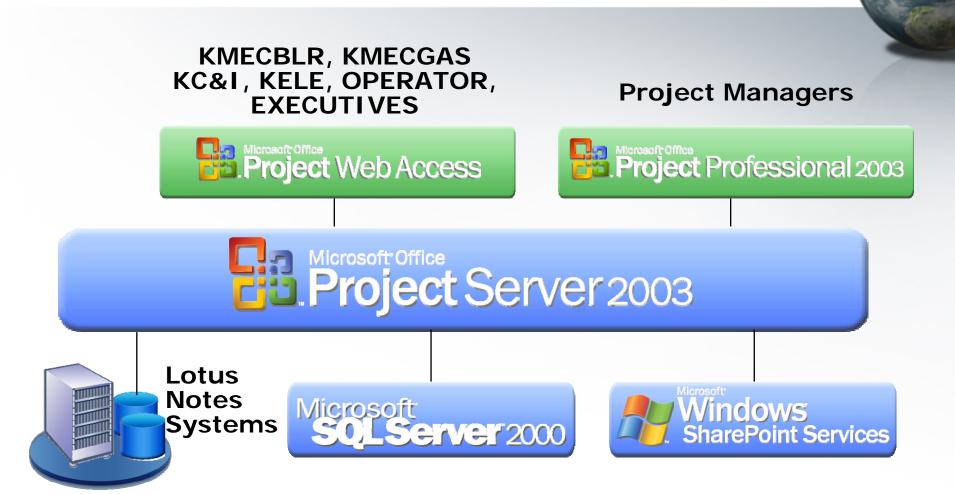


<u>Application – Maintenance Data</u> <u>Management</u>



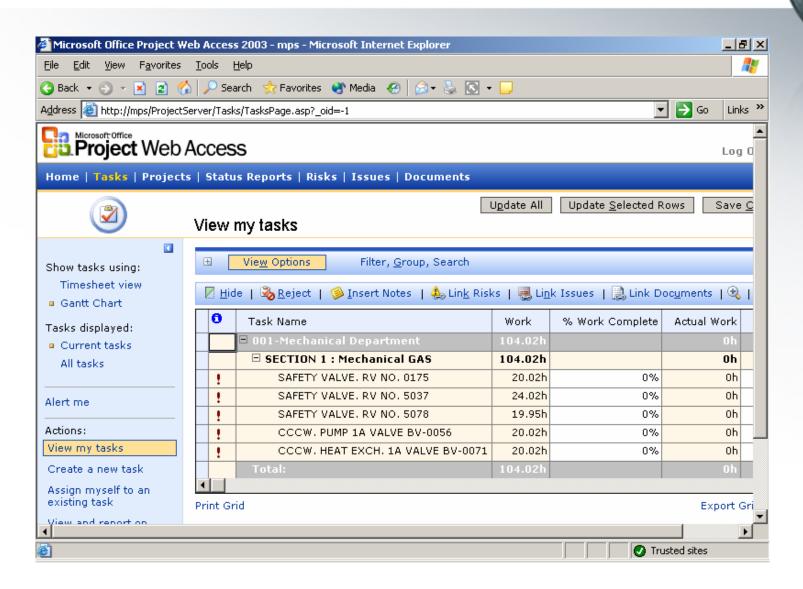


<u>Application – Outage Management</u>



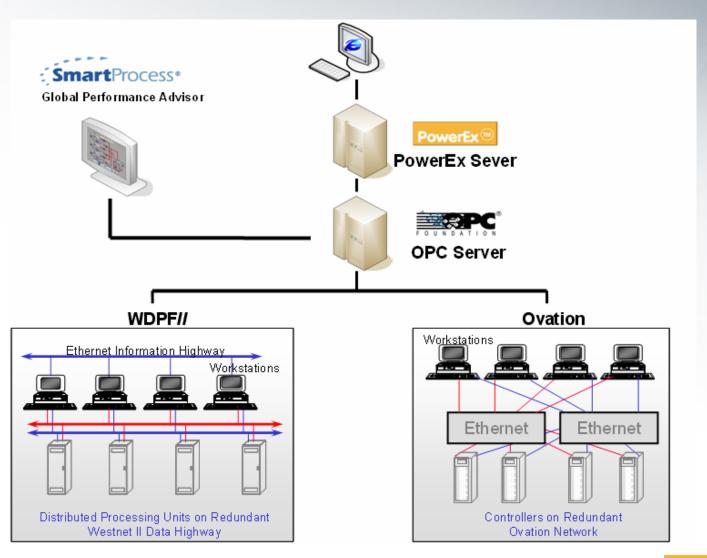


<u> Application – Outage Management</u>





PowerEx and Emerson Solution





Future of PowerEx

