

Full-Service Offerings

Software Support

- ControlST (ToolboxST, Workstation ST)
- Cimplicity
- eTCSS (Toolbox)
- Woodward Micronet+ w/ Valve Drivers
- iFix
- Wonderware
- Proficy Machine Edition
- LMSO
- Versa Pro
- Unity Pro
- Vijeo
- RSLogix 5000
- Studio 5000
- Factory Talk
- acSELeerator Quickset

Field Service

- Install & commission upgrades
- Troubleshoot control system issues

Process System

- GE Aero Gas Turbine
- GE Frame Gas Turbine
- Balance of Plant
- HRSG/Boiler
- SCR
- AVR

Control System Design

- Define system requirements
- IO, network, software, communication protocol detailed design
- HMI Virtualization
- Detailed drawings, functional specifications, controls narrative, maintenance manuals, FAT, SAT, CAT

Control System Troubleshooting

- Communication: EGD, Modbus, OPC, Ethernet, ControlNet, Profibus, HART
- HMI: graphics, communication, Windows, hardware
- Sensors/IO: faulty sensors, wiring
- Network
- IO cards
- Controllers
- AVR: EX2100e

Unit Performance Evaluation

- Review software configuration
- Review performance
- Turbine component level evaluation
- Suggest improvements based on evaluation
- Alarm review
- Control system spares consultation
- Network status
- Control system health

[Expertise]

Mark VIe Training

- I&E
- Engineering
- Operator

IoT Based Monitoring

- Streaming data to dashboards
- Cloud-based historical archive of data
- Remote support: Can mimic customer system at HQ
- Analytics: Performance, R.A.M., Real-Time & Compliance

Control System Upgrades

- Software/logic improvements
- Software/logic version updates
- SW supplier: Mark VIe, EX2100/e
- HMI: Windows PC w/ software licenses
- Installation and Commissioning of above hardware

[Services]

Design & Development

- Control system design, consulting, and upgrade services
- From new software development to upgrading older equipment into modern control systems, we can support development needs

Installation

- On-site support for installation of all new equipment
- Experience with commissioning power generation equipment will help the site meet target completion dates and provide end customer with a fully customized and operational control system

Operations Support

- Provide remote support for network health review and troubleshooting
- Can address and fix potential inefficiencies that affect units before a forced outage
- Reduces troubleshooting time and costs.

Hardware/Software License Supplier

- Can provide control system hardware at great rates (controller, distributed IO, network devices)
- Specialize in GE, Emerson, Rockwell, and Woodward hardware & software licenses

Snapshot (Yearly Subscription)

- Use streaming data to remotely troubleshoot, analyze, and predict issues
- Focuses on following areas:
 - I. Performance
 - II. R.A.M.
 - III. Real-Time
 - IV. Compliance

SmartWash

- All-in-one water wash system that includes hardware, software, and monitoring for worry-free washing
- Works with Snapshot to provide wash recommendations and to track effectiveness

HMI Upgrades

- Standard Offering includes top-of-the-line hardware, newest versions of Windows, control system software, and HMI software
- Fully customizable HMI upgrades to fit site needs