



Plant Wide Controls

WHY HPI?

Our team has extensive experience with over 70 turbine models from more than 23 manufacturers in multiple markets: Power (Peak and Prime), Oil & Gas Processing and Transmission, Power Plant EPC. We provide open control systems based on commercially available, off-the-shelf technology, reducing life-cycle costs.

ABOUT HPI

HPI remains a technological leader in providing full service turbine solutions. HPI's range of products and services include turbine and plant control packages, mechanical inspection/overhaul services, as well as full turnkey Engineering, Procurement, and Construction (EPC) of power plants. HPI provides custom solutions to meet each specific project requirement by utilizing in-house talent experienced in project management, engineering, and design which improves overall plant reliability and safety.

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Plant Wide Control & Instrumentation

HPI designs and manufactures plant wide and Balance of Plant (BOP) control systems. Our Supervisory Control Systems have been installed worldwide and attained a record of high-reliability. The BOP systems provided by HPI range from simple water injection to complex automated process control for several key industrial segments.

Plant Management

- Full Plant control and optimization
- SCADA
- Production scheduling
- Utilities trading
- Data connectivity

Automation & Control

HPI designs distributed and PLC-based control systems based on the latest technologies, which reduce life-cycle costs, ease maintenance, and increase safety and efficiency.

Monitoring & Diagnosis

Digital instrumentation and transducers provide internal self diagnostic capability. The modular monitoring and diagnostics system provided by HPI will reduce maintenance costs and increase overall plant availability and profitability.

Excitation

For power generation systems, HPI can supply digital excitation control. A reliable system based on digital control technologies offers greater operational flexibility for a wide range of plant operation requirements.

Pump Control

HPI supplies controls for Main Oil Line and Water Injection pumps, integral with or separate from the Gas Turbine control system.



Additional Plant Control

Additional plant control can be undertaken either within the turbine governor PLC or within a separate PLC. Both can be connected to a single color graphics monitoring system over an Ethernet communications based local area network. This in turn may be integrated into a site-wide network for SCADA or remote control and monitoring.

Synchronization

HPI supplies special generator synchronization equipment for generation systems. The digital synchronization system enables secure and precise 'switch on' through specialized hardware and software systems.

Generator Protection

The HPI digital self-controlling protection equipment offers safe solutions for generators, transformers, and complete generating sets.

Compressor Control

HPI supplies control for the driven compressor and its control valves, integral with or separate from the Gas Turbine control system. Control algorithms are available for single, series or parallel connected compressors.

Compressor Protection

Anti-surge control software is supplied within the Compressor Controls offering safe and efficient operation.