Power Generation Solutions from GE Digital

Enabling reliable, efficient and profitable operations driven by an empowered workforce.

Energy Transition – Market Dynamics & Challenges

The energy market continues to evolve at a rapid pace with major implications, especially to fossil fuel generators. Renewables have permanently changed the operating landscape and performance pressures. Global events are accelerating the transition to location-independent controls and staffing. And at the heart of it all is the workforce, increasingly younger, less experienced, but digital-savvy. They are at once the targets of change and the enablers of change.

With GE Digital You Can

**ASSETS**
- Improve plant availability
- Extend asset lifetimes
- Reduce O&M costs

**OPERATIONS**
- Optimize plant utilization
- Seize market opportunities
- Minimize fuel spend

**PEOPLE**
- Boost staff efficiency
- Increase staffing flexibility
- Automate processes

GE Digital Power Generation Solutions

GE Digital understands the need to take a holistic and integrated approach to power generation success – covering assets, operations and people. Our solutions are designed help you to maximize asset reliability and O&M efficiency, optimize operations flexibility and profitability, and boost work effectiveness and safety – addressing all of your critical business needs.

With core applications for APM, OPM, Remote Operations, Outage Planning and more, our goal is to be your partner in achieving the best in reliable, efficient and profitable operations driven by an empowered workforce.
GE Digital provides a rich array of generation applications powered by unique Digital Twin analytics and built-in intelligence. These applications are supported by foundational GE products and services to create a complete end-to-end solution.

### Asset Performance

**Asset Performance Management:** Helps optimize equipment reliability and O&M efficiency across the plant and fleet. Featuring built-in GE industry expertise, advanced analytics and work process automation, APM is the backbone of power generation operations.

**Industrial Managed Services:** A range of expert services to guide and facilitate your APM success and digital initiatives. From turnkey outsourcing to product and best-practices guidance, GE experts augment your team and help drive desired results.

**Asset Answers:** Enables APM customers to benchmark their asset reliability and O&M metrics against those of industry peers. Monthly reports and real-time data access help calibrate goals and make profitable decisions.

### Operations Performance

**Operations Performance Management:** Provides analytics-driven insights to drive profitable operations and planning decisions. From operating at maximum efficiency to data-driven dispatch decisions, OPM helps optimize plant financial performance.

**Remote Operations:** Provides remote and mobile access to on-site plant control systems – all in a safe, secure and NERC-CIP complaint package. Generators can now adopt a flexible staffing model that reduces risk and controls costs.

**Outage Planning & Analytics:** A unified application to optimally schedule and plan plant outages. Developed in conjunction with a leading generation company, OPA helps simplify planning and reduce outage periods and lost revenues.

### Workforce Empowerment

**Operator Rounds:** A component of APM, it provides route configuration management and a mobile app to enable efficient manual data collection and integration into APM predictive analytics and asset health tracking features.

**Digital Inspections:** Employs cameras, sensors and more to continuously collect equipment data readings. Data is automatically uploaded to APM to be used for predictive analytics and asset health tracking features.

**Advanced Communications:** A secure and highly available platform for multi-media communications between workers and across teams. Features include 1:1 sessions, target broadcasts, ad-hoc groups, and location tracking.

**Mobile HMI:** Remote Operations offers a purpose-built mobile interface for HMI access and control. Features include custom mobile views and safety functions that validate user intent and minimize risk.

### Digital Twin Analytics

**Digital Twin & Analytics:** Many GE Digital products feature unique Digital Twins and other advanced analytics. The growing Digital Twin catalog offers predictive analytics, strategies and best-practices content for 100’s of common assets, embodying deep GE experience and expertise.

### GE Solution Enablers

**GE Solution Enablers:** GE Digital offers many additional products and services that may be part of a total customer solution. Our cloud products are based on the Predix Platform for core IIoT functions, security and scalability. And with products such as Historian and HMI/SCADA, and services for Cyber Security and Customer Success, you can be sure of a successful end-to-end solution.