



Wide Area Management Systems (WAMS)

Core Capabilities

- Supervise grid vulnerabilities with real-time stability analytics
- Identify sources of dynamics issues introduced by renewables, distributed generation and power electronics
- Provide real-time disturbance detection, location and characterization
- Perform post-mortem analysis and dynamic model validation

Differentiating Features

- The most complete WAMS offering from any vendor
- Grid assessment using offline engineering tools
- Combined EMS-WAMS applications for enhanced operator guidance and grid optimization
- Wide range of effective core and advanced applications for specialized grid analysis

Optimized Outcomes

- Enhanced operator awareness and proactive grid management
- Improved dynamic monitoring based on synchrophasor PMU data
- Mitigate risks of major disturbance or blackout
- Decrease downtime with accelerated resynchronization

Integrated Solution Suite for Proactive Grid Stability Management

The power industry is experiencing a fundamental change in the way it is managed and controlled. Increasing energy demand, restricted transmission grid expansion, and increasing volatility due to more renewable and distributed generation all add complexity across the electricity network. At the same time, transmission owners and ISOs have a constant responsibility to balance the costs incurred by operational constraints against grid reliability and the risks of major blackouts.

New technologies such as WAMS and Phasor Measurement Units (PMUs), along with advanced visualization platforms are all part of the emerging transmission information system. GE's WAMS solution improves traditional SCADA-based energy management with a faster, more dynamic and proactive grid stability management approach.

The result? Monitor and improve performance of transmission and distribution networks. Reveal information about stability, system security and efficiency to enable Operators, Analysts and Planners to respond rapidly, accurately and appropriately to system conditions.

