



Digital Energy

PhasorAnalytics

Engineering analysis package for post-operation and planning

DETECTING GRID VULNERABILITY AND EXTRACTING VALUABLE INSIGHT

State-of-the-art offline engineering analysis package, seamlessly integrating high-speed synchrophasor measurements with other data sources (SCADA/EMS data and Fault Recorder Data), and power system simulation capabilities for assessing grid operations and improving planning

KEY OUTCOMES

- Post-event analysis and reporting on grid disturbances
- More efficient power system stabilizer tuning
- Calibrated dynamic models without expensive downtime
- NERC compliance monitoring
- Improved calibration of CT/PTs and other data acquisition units
- Quantified long-term dynamic performance of the grid

KEY FEATURES

- Identify, assess and address potential reliability concerns
- Unified platform for standardizing data from multiple sources
- Advanced analytics with various types of rich analytics
- Fast post-mortem analysis
- Support for many types of power systems that include fault recorders
- Statistical baselining of power system behaviour
- Ability to develop custom analytics and generate on-demand reports

OVERVIEW

Simple, straightforward and productive engineering investigation

Today's transmission operators are dealing with new challenges. In addition to the main mandates of running the system smoothly and reliably, and increasing the system's asset utilization, they also have to manage the challenge of integrating a constantly changing portfolio of generation resources. The introduction of Phasor Measurement Units (PMU's) have provided a wealth of new, real-time, data that can help both the operators and their team of control room operation, planning, protection and support engineers.

GE's PhasorAnalytics, provides an advanced diagnostic and data mining framework for utilizing historical synchrophasor measurement data from PMU's, alongside other data sources such as SCADA/EMS, within an interactive unified user interface, allowing engineers to perform off-line analysis and forensics. This results in quicker post-event analysis, improved dynamic models, and established baseline knowledge of the dynamic performance characteristics.



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