

Condition-Based Fault Prevention Program

Condition-Based Fault Prevention (CBFP) is an integrated solution between G&W Electric and Safegrid providing a unique approach to fault detection and prevention. G&W Electric's Viper[®] reclosers, Trident[®] switchgear, and SF6 switchgear—equipped with internal voltage sensors or Accusense[®] high-accuracy sensors—provide direct voltage measurements that can be utilized by Safegrid sensing devices.

This data is then GPS time-synchronized and transmitted to a cloud-hosted analytics platform for precise fault location and predictive fault alerts.

Unlike other systems utilizing passive sensing technologies, the integrated sensing platform can provide high-resolution data that is useful for power quality assessments, system model verification and providing greater grid visibility to monitor impacts of Plug-In Electric Vehicle (PEV) and Distributed Energy Resources (DER) penetration. Ultimately the fault prediction analytics can provide asset health monitoring of your G&W Electric products and surrounding distribution and subtranmission line components.

PROGRAM STRUCTURE

| Sensing Locations | Quantity: twenty (20) sensor modules |
|---------------------------------|---|
| Preferred Installation Location | Retrofit G&W Electric Viper reclosers, Trident solid dielectric switchgear, and SF6 insulated switchgear |
| Distance Between Locations | One (1) to six (6) miles |
| Architecture | Cloud-based monitoring system |
| SaaS Fees | 2-years of SaaS fees included (fault location and fault prediction) |
| Warranty | 2-year sensor warranty (excludes battery) |
| Cellular Fees | 2-years of included cellular fees |
| CBFP Pilot Equipment | Customer purchased and owned |



Features and Benefits:

- Non-intrusive installation to expedite commissioning and mitigate system disruptions during installation
- Asset health monitoring of G&W Electric products, extending the life of your equipment
- Fault location within 100 meters to improve SAIDI and outage restoration times
- Fault prediction notification to prevent equipment failure and improve grid resiliency
- Fault prediction notifications to prevent fire ignition
 events
- Direct measurement sensors for improved fault location accuracy and noise immunity from varying construction practices and installation locations
- Mixing voltage and current transient sensors provides greater grid visibility and changes related to PEV and DER penetration
- High-resolution data sensors provide valuable information for power quality analysis and system model verifications

Applications

- Wildfire mitigation
- Reliability improvements (SAIDI, SAIFI)
- Condition-based monitoring of distribution and sub-transmission systems
- Distribution system planning
- System model verification with increased metering points
- · High-accuracy power quality measurements

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For more information

please, visit our website: www.gwelectric.com



Since 1905, G&W Electric has been a leading provider of innovative power grid solutions including the latest in load and fault interrupting switches; reclosers; sensors; system protection equipment; power grid automation; transmission and distribution cable terminations; and joints and other cable accessories. G&W Electric is headquartered in Bolingbrook, Illinois, U.S.A., with manufacturing facilities and sales support in more than 100 countries, including Canada, Italy, China, Mexico, Brazil, India, and Singapore. We help our customers meet their challenges and gain a competitive edge through a suite of advanced products and technical services.

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