Landis+Gyr
manage energy better

Reliability Analytics

Optimize Investments Using Historical Reliability Data

Reliability Analytics is one of three modular, user-friendly, web-based application packages designed to fully leverage Landis+Gyr's Advanced Grid Analytics (AGA) platform, maximizing the value of available data from the GIS and OMS to improve reliability.

A variety of reliability solutions are evaluated and compared across the system to address specific outage types in order to prioritize projects on a cost-benefit basis and optimize spending on reliability improvement projects. The power distribution system connectivity model, customer density, and historical outage data are required to establish a historical reliability performance baseline from the circuit to the company level. The Reliability Analytics offering contains four modules leveraging GIS and OMS data to estimate reliability improvement, justify budgetary decisions, and improve SAIDI, SAIFI, and CAIDI.

CONNECTIVITY MODEL VALIDATION MODULE

- Identify nodal and phase connectivity islands, and connectivity loops
- Rank substations by health score from worst to best to target model revision efforts

RELIABILITY PERFORMANCE MODULE

- Calculate reliability indices by time period, outage types, and jurisdiction level
- Rank worst-performing circuits based on reliability key performance indicators (KPI)
- Report customers experiencing multiple interruptions (CEMI)
- Report assets experiencing multiple device outages (MDO)

KEY FEATURES

- Report reliability performance by date range, outage type, and at various jurisdiction levels
- Focus on or ignore major event days (MED) to concentrate on resiliency or reliability improvements
- Determine optimal number and location of switch and faulted circuit indicators (FCI) per circuit
- Simulate reliability impact of circuit reconfiguration and sectionalizing
- Evaluate cost-benefit ratio of various reliability improvement projects

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PROJECT PRIORITIZATION MODULE

- Prioritize solutions locally or system-wide to meet KPI targets within budgetary constraints
- Evaluate CAPEX and OPEX of entire projects or individual components
- Estimate outage mitigation impact of reliability projects to justify funding
- Estimate diminishing return of various levels of funding based on reliability KPIs

RELIABILITY PLANNING MODULE

- Analyze reliability impact of sectionalizing and circuit reconfiguration
- Optimize switch placement to meet SAIDI, SAIFI, CAIDI, and outage cost objective
- Optimize FCI placement to reduce SAIDI and meet CAIDI objective

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