

Powerful Insights from Your Meter Data

Metering 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 grid-edge devices such as meters and sensors.

The vast amount of data made available by smart meter deployments offers valuable information essential to core utility business functions. These range from premise-level revenue protection and delivery voltage analyses to system-wide voltage performance visibility and capacity contribution studies. The Metering Analytics offering contains five modules that turn AMI data into actionable insights so utilities gain benefits from the time the first meter is installed in the field.

METER-TRANSFORMER MAPPING VALIDATION MODULE

- Identify meters not correctly mapped to their transformers
- Recommend transformer to which incorrectly mapped meters should be moved
- Correct meter voltage rating based on measurements reported
- Rank substations by health score from worst to best to target model revision efforts

VOLTAGE PERFORMANCE MODULE

- Identify over and under voltage exceptions
- Optimize voltage and VAR control settings to avoid inadequate voltage levels
- Support normal operations and conservation voltage reduction (CVR) strategies
- Predict equipment failure based on voltage levels and fluctuations

KEY FEATURES

- Visualize delivery voltage performance across meter population
- Monitor bellwether meter voltage in near real-time
- Detect abnormal meter consumption patterns and event sequences
- Detect discrepancies between aggregated meter consumption and upstream monitors
- Calculate demand contribution for individual customers and demographic groups
- Validate and correct meter-transformer mapping

Metering Analytics

METER MONITORING MODULE

- Monitor bellwether meter voltage in near real-time
- Trigger and visualize on-demand read (ODR)
- Ping and visualize meter status
- Identify meters reporting inadequate voltage measurements
- Receive automated notifications of specific meters and jurisdictions with inadequate voltage

REVENUE PROTECTION MODULE

Pattern Detection

- Process system-wide measurements and event data daily, weekly, or monthly
- Detect theft or malfunctioning meters and focus field inspections to reduce non-technical loss
- Investigate suspicious accounts and areas to determine root cause and avoid false positives

Energy Diversion

- Compare sensors and aggregated meter consumption measurements
- Identify areas where energy theft may be occurring
- Identify areas where high copper loss may be occurring

CAPACITY CONTRIBUTION MODULE

- Identify customer contribution to demand during peak demand and over time
- Gauge impact of demand response (DR) and energy efficiency (EE) programs
- Determine demand-charge component to design tariffs by revenue class

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