

Grid Monitoring Platform Overview

By Aclara

Grid performance and reliability starts with real-time visibility into the backbone of your grid – the distribution network. With Aclara's Grid Monitoring Platform distribution monitoring solution, electric utilities can rapidly detect faults (e.g. type of fault, magnitude, location, phase, cause and fault waveform), and continuously monitor power flow and power quality conditions throughout the distribution network.

Aclara Grid Monitoring Platform – A Next-Generation Distribution Monitoring Platform

Aclara's Grid Monitoring Platform distribution monitoring solution consists of a range of smart sensors and FCI devices and predictive analytics software that provides real-time visibility into feeders and laterals to detect faults, transient disturbances, monitor power flow and power quality, and detect imbalance conditions across all three phases of your distribution network.

Grid Monitoring Platform sensors are pre-provisioned and easily installed in minutes by a single line crew. Inductively powered line sensors operate down to 3 amps, and battery powered SmartFCIs provide visibility down to 0 amps. The sensors provide real-time data and alarms about grid conditions back to the Grid Monitoring Sensor Management System (SMS) software to classify events and monitor power flow conditions. Predictive grid analytics software reveals the health of your grid and manages big data with insightful and powerful analytics. Visualization tools such as Google Maps deliver the situational awareness you need to respond to issues and changes on your grid. A flexible architecture means utilities can integrate Grid Monitoring over a wide range of communications networks - cellular, private wireless, or fiber.

With the real-time data from Grid Monitoring Platform utilities can

Features

- Detect overload on substation transformers
- Reduce customer and system outage minutes
- Find imbalance on circuits
- Monitor high-value assets
- Determine if circuits are operating properly
- Get visibility into your poor performing circuits
- Find and resolve chronic reliability or power quality issues
- Implement FLISR and Volt-VAR schemes
- Feed high quality real-time data to SCADA and ADMS systems
- Improve planning for and monitoring of renewables and other DERs



Product Assets

- [Case Studies - Transitioning to a Low-Carbon Future Case Study](#)
- [Case Studies - Detecting Transient Faults on Overhead Networks Case Study](#)
- [Case Studies - Grid Distribution Monitoring Case Study](#)
- [Case Studies - Smart Grid Sensors Integration Case Study](#)
- [Case Studies - Substation Monitoring Case Study](#)
- [Literature - Improving Fault Current Accuracy Application Guide](#)
- [Literature - Smart Grid Sensors Wildfire Mitigation Application Guide](#)
- [Literature - Scaling Your SCADA Architecture for Distribution Automation White Paper](#)
- [Literature - Substation Monitoring Application Guide](#)

