Drive

Monitor, Manage, and Optimize the Performance of Your Renewable Energy Assets

A UNIFIED, CONNECTED PLATFORM

To make the best business decisions, you need the ability to drill down to view details about individual assets as well as zoom out for a big-picture view of your entire portfolio. Power Factors Drive is a comprehensive platform that gives you access to all the information you need in one platform, so you always have your eye on the things that matter most.

Drive ingests asset data from over 400 interfaces, connecting to site-level PLCs, HMIs or SCADA systems. Drive then cleans and gives context to your data as well as integrating seamlessly with your other business applications: financial systems, field service management systems, market pricing data, market weather data and more.

Detailed asset hierarchies allow you to drill down to view details about your assets based on region, asset type and PPA contract and then roll up to view total generation, dashboards and key performance indicators (KPIs) for your entire portfolio.

DRIVE FEATURES

AUTOMATED WORKFLOWS

Downstream workflow triggers based on event priority improve time-to-resolution and reduce reporting errors. Drive includes standard libraries of event categories, triggers, and thresholds based on asset type. Users can use default values, adjust the thresholds, or define new plant-level triggers to better align event detection with plant design or contractual agreements.

PERFORMANCE ANALYTICS

Drive comes configured with standard metrics such as Availability Factor and Performance Ratio as well as proprietary advanced analytics that provide automated fault detection and performance analysis capabilities. Drive utilizes several data mining techniques to detect changes or abnormal operations in your wind, solar, energy storage or hydro plants.

EVENT MANAGEMENT

Drive's powerful event manager automatically identifies, categorizes and prioritizes commercial and operational issues so you can more efficiently respond to, fix and report on equipment underperformance, downtime and other reliability issues.

ROLE-BASED DASHBOARDS

Power Factors Drive provides a library of hundreds of performance metrics and KPIs together with role-based dashboards and reports purpose-built for renewable energy asset management.

REPORTS AND DATA WAREHOUSE

Power Factors Drive comes with plant and portfolio reports that present performance data, event data, and maintenance data with a comparison to model/ budget at all the specified time intervals.

DRIVE PRO: ADVANCED ANALYTICS FOR SOLAR

Developed in conjunction with the U.S. Department of Energy's SunShot Initiative, Drive Pro's analytics for solar use the identify root causes of operational unavailability and lost energy to optimize performance and maximize production at fleet scale.

- Trust in your data and models with continuous auditing
- End-to-end loss categorization
- Automated identification of degraded assets with automated root cause analysis
- Bank performance model validation

- Module wash optimization
- DC array performance losses
- Snow and clipping losses
- Equipment benchmarking
- Drone and robot integration