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Prediktor PowerView™

Advanced SCADA and Asset Management Platform

Introduction

Prediktor PowerView™ is a SCADA and Asset Management Platform enabling intelligent decisions to drive down costs and optimize performance. With increasing portfolio sizes and complexity, establishing operational insights for data driven actions are key to ensure optimal asset utilization. Prediktor PowerView™, based on 26 years of technology development, addresses this need to optimize plant and portfolio performance. This is accomplished by providing asset managers & owners, O&M teams, and data analysts the appropriate tools for decision support, performance analysis, knowledge sharing and control.

PowerView™ SCADA: Local or remote SCADA for renewable assets. Full capabilities for device and system integration

PowerView™ Asset Manager: Asset Management platform for complete renewable portfolios

Highlights

Extract & share KPIs

Forecast production

Analyze & optimize

Monitor performance

Control

Integrate

Extract and share KPIs

PowerView™ contains an extensive set of standard reports and KPI calculations – out of the box and automatically generated. User-defined reports can readily be generated; operational data is always available with updated data and calculations with the asset-centric system architecture. In addition, reports can be automatically distributed to relevant stakeholders.
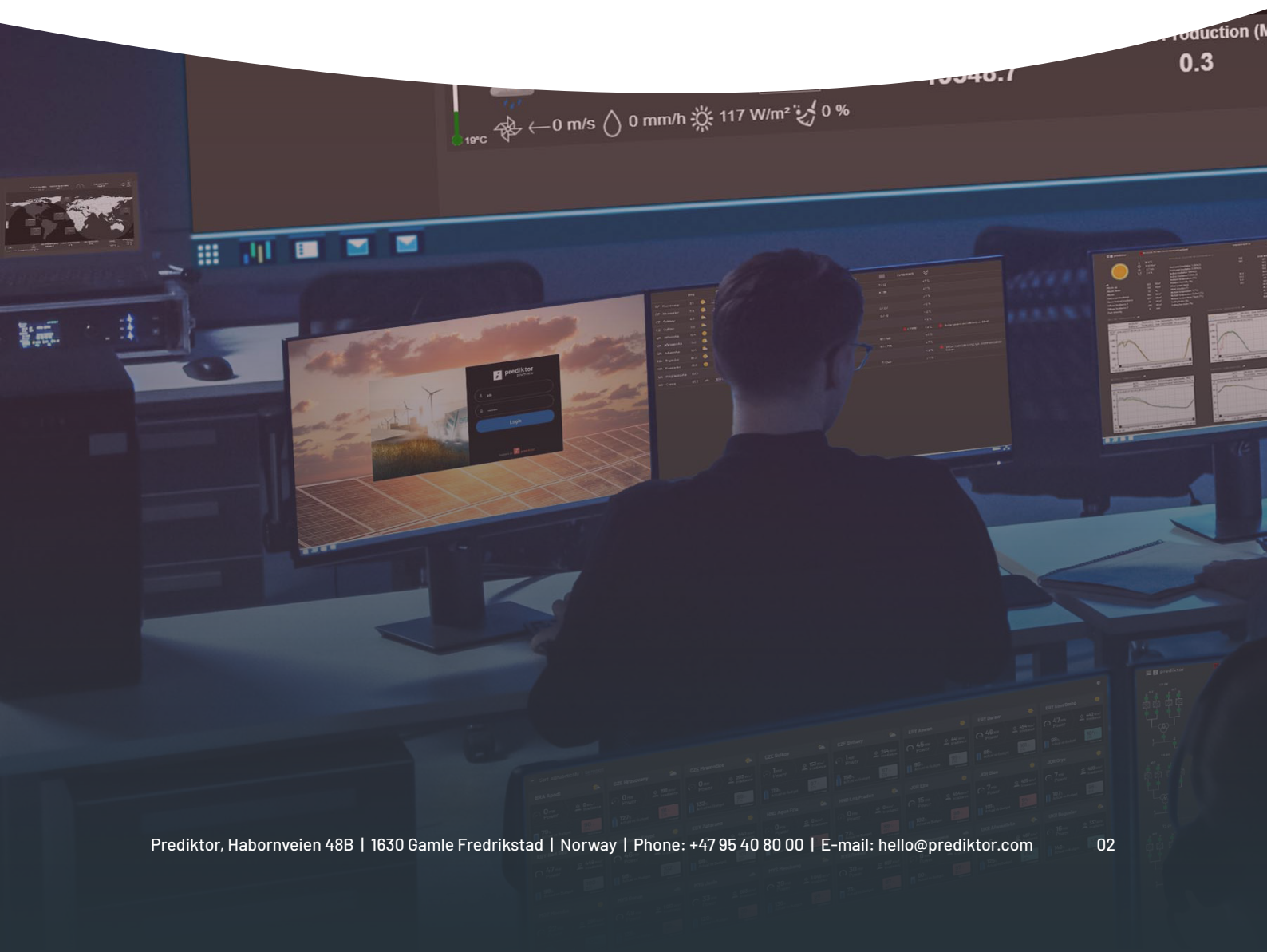
Data quality reporting

Ensuring data quality is of the essence to produce reliable data. PowerView™ performs automatic data reconciliation and provides reports of the quality of collected data sets and communication status.

Loss reporting

Information on the various production loss categories includes soiling, shading, curtailment, equipment failures. Also, production benchmarks are adjusted for weather and non-controllable losses.

Management reporting

Key data to management with production volumes, production rations, performance KPIs, availabilities and losses. Numbers are benchmarked against budget data. Information is based both on energy production and generated revenue.

Alarm reporting and management

Ensuring data quality is of the essence to produce reliable data. PowerView™ performs automatic data reconciliation and provides reports of the quality of collected data sets and communication status.

Device reporting

Various reports on the status and performance of the balance of the system.

Performance management

PowerView™ is set up with monitoring features based on real-time data gathered from the various plants and devices. Monitoring dashboards are implemented with drill-down capabilities from a portfolio view down to string level. In case of abnormal behavior, alarms are triggered, informing operators that actions should be taken. These dashboards provide unique insights for the O&M teams responsible for managing several plants and acting as a collaboration arena for integrated operations.

Portfolio performance dashboards
PowerView™ has several built-in portfolio performance dashboards containing KPIs for all assets in a complete or partial portfolio.

Equipment monitoring dashboards
All equipment, systems, and sensors (weather stations, string combiners, inverters, trackers, transformers, switchgear, substation, etc.) are graphically visualized in real-time for immediate operational status and performance.

Attention dashboards
Important events and alarms are displayed for a deeper understanding of plant status.

Trend analysis
All data trends can be efficiently extracted for ad-hock analysis, comparisons, and benchmarking.

Production losses
Understand where energy is lost– in real-time.

Asset availability
Get immediate information on equipment unavailability – from the substation to string sets.

Forecast production
Weather services provide a long- and short-term production forecast and the built-in asset production model.
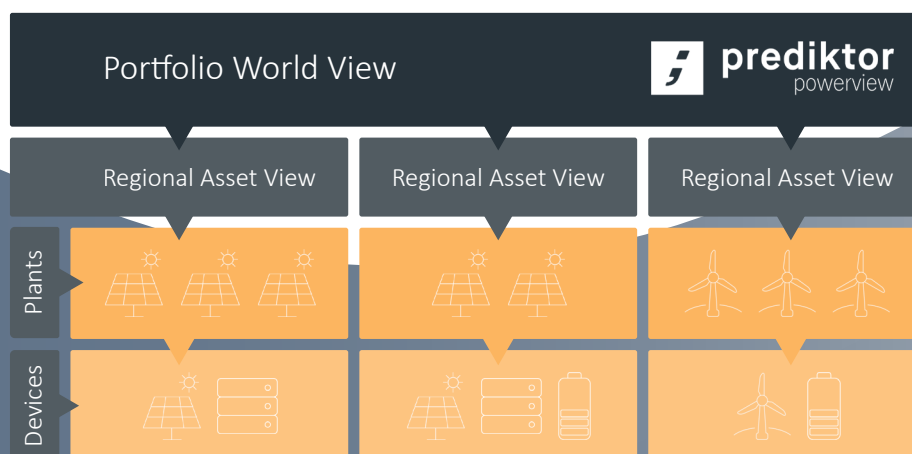
String performance
Obtain immediate information on the status of strings and possible deviation categories.

Shading analysis
Understand the effects of shading on your production

Overview of Prediktor PowerView™

Alarm dashboards

All relevant equipment alarms are displayed and managed according to severity, type, and location.

APIs

All data is easily available through well-defined and documented APIs to the system.

Soiling

Get automated suggestions on cleaning procedures based on soiling losses, cleaning costs and weather forecasts to plan cleaning optimally.

Control

Set-point control to various equipment controls is available. Examples are PPCs and trackers.

Loss analysis

Loss causes are broken down into detailed categories. Examples of loss causes are curtailment, grid unavailability, clipping, plant availability, tracker faults, string faults, soling, shading.

Degradation

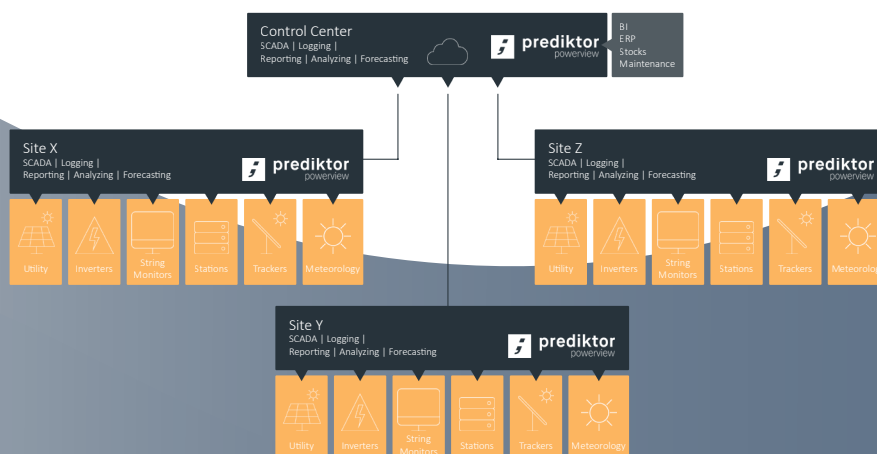Understand the long-term effects of equipment degradation.

Analyze and optimize

PowerView™ contains several built-in AI capabilities that allow historical and real-time problem identification. Further, with the built-in information model and open APIs, data can easily be extracted for your analyst team's further analysis and algorithm development. Spend your time developing and testing algorithms without unnecessary data wrangling. Validated algorithms can then easily be deployed and operationalized portfolio wide.

Integrate

PowerView™ allows for secure and reliable integration with field devices and 3rd party expert systems. For local to central communication, store-and-forward mechanisms are in place to ensure that data integrity is maintained in case of communication failures. Also, data communication can be set up to manage limited bandwidth communication.

A high-level overview of Prediktor PowerView™

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