![Univers | Bazefield]

Solution Brief

Turn data into value with AI-driven Solar Advanced Analytics

Get the most out of your solar energy system

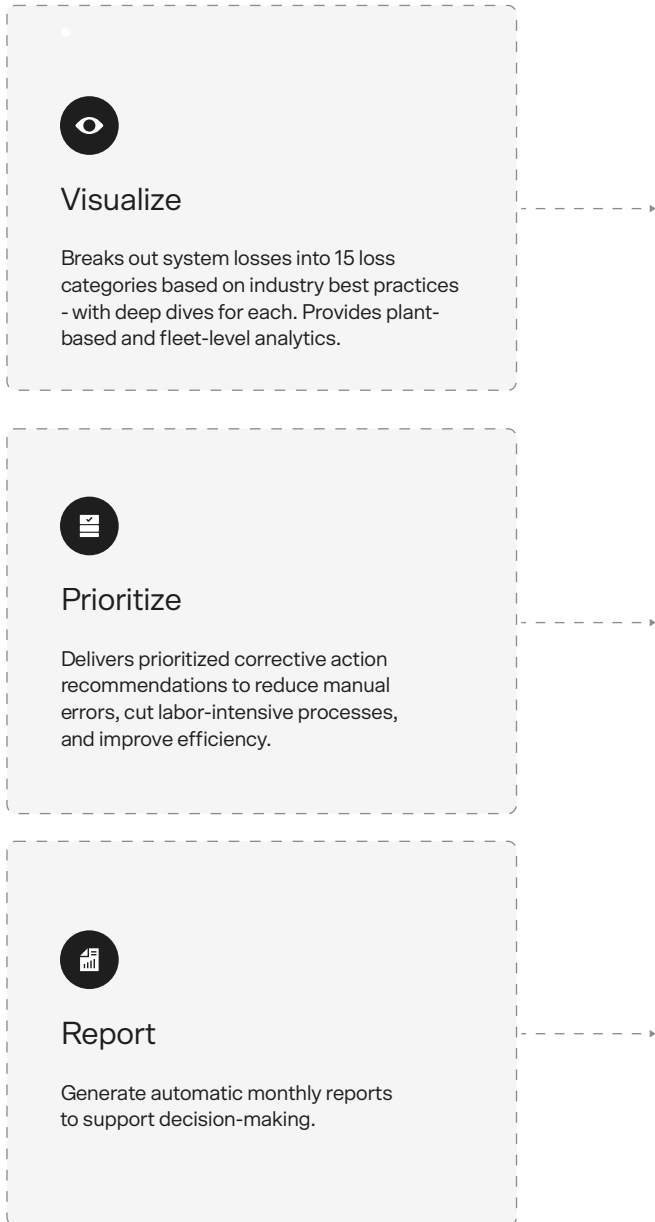Turn Data Into Value

AI-driven Solar Advanced Analytics

Leading renewable energy operators and power plant owners understand the need to exploit data. With AI-driven Solar Advanced Analytics, energy businesses gain an edge by eliminating unpredictability with incisive insights from vast data sets; directly boosting production capacity, operational effectiveness, and maintenance efficiency, and improving the bottom line.

AI-driven Solar Advanced Analytics transforms data into real time actionable insights. With advanced data techniques, artificial intelligence (AI), machine learning, and sophisticated statistical methods, users can analyze past and present situations, while simulating future scenarios. From descriptive to predictive: move from descriptive and diagnostic assessments of equipment performance and failures, to predictive and prescriptive recommendations on what should be done to improve and optimize the lifecycle value of devices and assets.
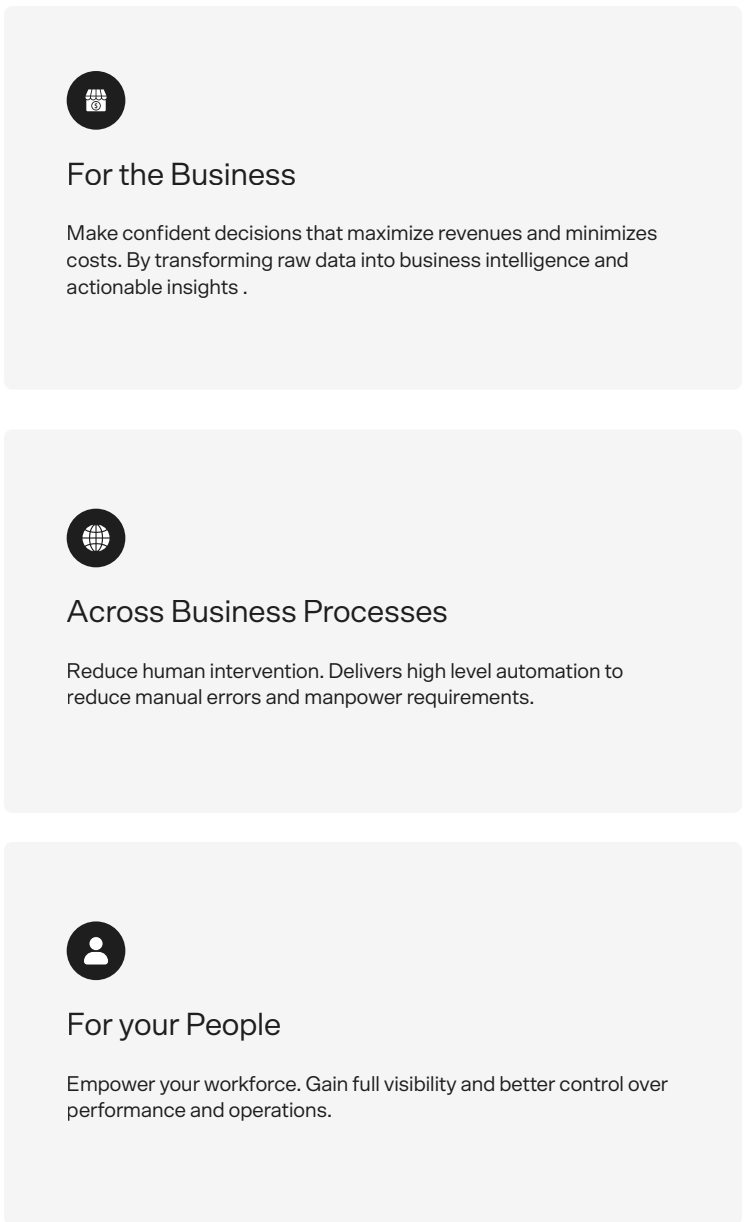
AI-driven Solar Advanced Analytics

Accelerate Value Creation

Capabilities at a Glance

Visualize

Breaks out system losses into 15 loss categories based on industry best practices - with deep dives for each. Provides plant-based and fleet-level analytics.

Prioritize

Delivers prioritized corrective action recommendations to reduce manual errors, cut labor-intensive processes, and improve efficiency.

Report

Generate automatic monthly reports to support decision-making.

Key Benefits

For the Business

Make confident decisions that maximize revenues and minimizes costs. By transforming raw data into business intelligence and actionable insights .

Across Business Processes

Reduce human intervention. Delivers high level automation to reduce manual errors and manpower requirements.

For your People

Empower your workforce. Gain full visibility and better control over performance and operations.

AI-driven Solar Advanced Analytics

Key Capabilities. How It Works.

Maintain an eagle eye on your KPIs

Analyze detailed breakdowns of system losses against KP Is.

Never miss critical information

Proactively inform key stakeholders (e.g., asset managers, operations and maintenance (O&M) teams, and insurance underwriters) on the as-built performance of photovoltaic (PV) plants.

Prioritize actions for optimal performance

Translate system under performance and component health issues into prioritized corrective actions. Optimizing asset performance. Reducing operational risks.

Optimize O&M schedules efficiently

Helps organize and schedule O&M more efficiently and cost effectively to reduce costs.

Improve asset performance and health

Support the long term performance and health of PV assets.

Uncover revenue potential

Discover new revenue potential from assets.

AI-driven Solar Advanced Analytics For Solar

Key Features

Delivering Technical Superiority

Comprehensive Downtime Event Analysis

Gain rapid insight into the underlying causes of system and component downtimes.

Our product offers granular insights into causes of downtime, so you can better mitigate risk factors.

Provides inverter by inverter analysis by compiling contiguous inverter downtimes as individual Downtime events.
Aggregates individual inverter Downtimes into a single event when the start time and initial cause are similar.
Gain visibility with Downtime events dissected by IEC categories, e.g. snow, grid curtailment, etc.
Flexible by allowing the end user to split events and reallocate inverter statuses to different causes.
Dissect downtime events by categories, e.g. snow fall, grid curtailment, or other causes, to get better understanding of causes.
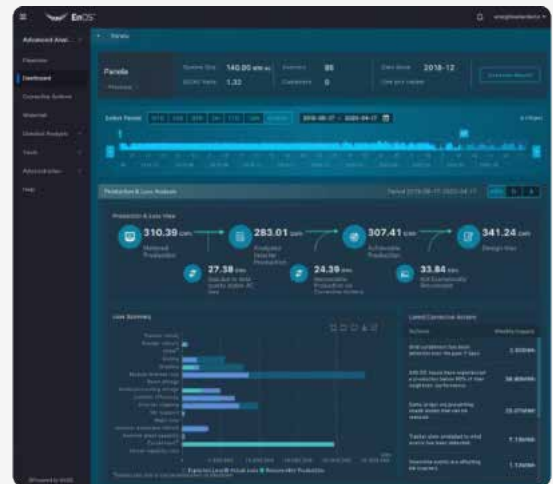
Detailed System Loss Breakdown

Gain unprecedented level of insight into losses.

Develop better mitigation strategies with unparalleled insight into losses.
Evaluate losses across 15 categories, including losses caused by tracker errors, soiling, shading, inverter downtime, string underperformance, curtailment etc .

Customizable KPIs

Calculate contractual KPIs automatically on an ongoing basis.

Several out-of-the-box KPIs based on industry standards
Set IEC exclusions, minimum irradiance thresholds, temperature corrections, degradation, expected power models and much more.
Results update automatically for the full historical dataset

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Turn data into value.
Scale Innovation with Bazefield.

Bazefield - All your data in one place

To learn more about AI-driven Solar Advanced Analytics, **please contact sales@bazefield.com.**

Univers AS is a software product company headquartered in Norway.

The Bazefield Operations Management System is a comprehensive, state-of-the-art renewables monitoring & analytics platform, designed to help asset owners, operators, and investors understand the technical, financial, and logistical performance issues occurring across their fleet. By logging into the web-based portal, any user can view all key asset data, alarms, events, allocations, tasks, and work orders in real time, regardless of the type, make, or model of the asset.

The generic nature of Bazefield allows it to be seamlessly deployed across all renewable asset classes, including solar, battery storage, wind, thermal, and hydro-powered plants. As a result, the Bazefield web portal serves as a one-stop-shop of all critical renewable key performance indicators (KPIs), and enables visibility into the exact problems on site, and how to correct them. Bazefield has been deployed on over 1,800 sites across 5 continents, encompassing over 120 GW of renewable assets monitored daily.

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