

Power through Data

Know your Asset

The Captiva Group, with nearly 50 employees, works every day to develop and improve digital monitoring solutions for various renewable energy technologies – solar, hydro and wind. We combine our know-how with an industrial digital approach and enable innovation in the field of plant monitoring. In this way, we can support power plant operators in optimising their plant performance.

Interested? Then get in touch with us!

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Captiva

Data-driven asset management
Renewable energy digital solutions

Data-driven Management Renewable energy digital solutions

Captiva Portal: A data platform enabling access to a comprehensive selection of software and services to satisfy all needs



Development & Project Management

We perform due diligence focusing on the performance of existing or planned renewable assets.

Our digital solutions allow us to model any kind of plant configurations and to compare them with the expected profitability.



Operation & Risk Management

Our asset management digital solutions for renewable energy technology transform real time data into commercial and technological insights.

We can perform ad-hoc analysis on failure statistics, benchmarks of performance between assets or assets components, and suggest measures to improve the performance.

Risk management on a portfolio and asset level with the aim of optimising revenues and minimising risks.

Monitoring & Analytics

Our real-time data monitoring allows decision-making improvements through deep insight for power plant managers, using machine learning techniques.

Programmed algorithms detect faults and anomalies (e.g. by running analysis on actual vs. theoretical production, powerplant efficiency, etc.).



Dashboard

Real time dashboard bringing all data in one place, providing an overview over the entire multi technology portfolio, making it very easy to identify problems at a glance.



Power plant

Real-time performance monitoring at asset level, with an overview of the most important commercial and technical KPIs, allowing the identification of irregular trend and component anomalies.



Commercial Statistics

Commercial statistic of multi technology portfolios with the most important commercial and technical KPIs providing intra portfolio analysis.



O&M Dashboard

Independent live operational data view providing performance analysis at portfolio, asset or component level through power curve analysis and in-house algorithms.



Availability

Time-based and energy-based availability calculations allowing a precise evaluation of production and revenue losses.



Benchmarking

With our increasing power plant database we provide technical and commercial KPIs benchmarking on selected markets.



Commercial Insight

Identify the best hedge strategies to minimize energy risk and optimize your production revenue through co-variations between power price and production.



Market Outlook

Power market price statistics and forecast. With our in-house forward curve prices we customize your forecasted revenue on a weekly basis, providing valuable commercial information.



Budget & Liquidity Planning

Accurate budgets and liquidity planning in all needed resolutions. Possibility to efficiently structure and price any kind of complex contracts.