

How Can the Digital Revolution Help Stop Climate Change?

Wind farm and solar park investors around the world rely on technical and commercial management from Kaiserwetter Energy Asset Management. The company recognized the need to digitalize renewable energy power generation as the only true financially viable way to achieve the goals of the Paris climate agreement. The possibilities of digitalization should support involved stakeholders allocating their funds and financing capabilities toward renewable energy assets. To do this, Kaiserwetter needed a powerful technology partner with a strong focus on innovation.

The company used the SAP® Leonardo digital innovation system and the SAP IoT Application Enablement toolkit to build its platform. The digital platform, ARISTOTELES, is designed to support the executive level of investment funds, private equity investors, financing banks, and supranational institutions, managing its renewable energy portfolios with the aim to maximize portfolio performance and to minimize investment risks. It is the first solution combining the Internet of Things (IoT) and Big Data to aggregate technical, meteorological, and financial data that is used for smart data analytics and to implement predictive analytics. The SAP Leonardo IoT and SAP Leonardo Analytics capabilities enabled Kaiserwetter to create the digital infrastructure to unlock capital investing in renewable energies.

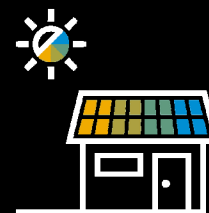




“The integration of SAP Leonardo capabilities helped us, having a digital infrastructure to combine technical and financial data. Capital investors and financing banks are getting the big picture of their assets and portfolios in real time.”

Hanno Schoklitsch, CEO and Founder, Kaiserwetter Energy Asset Management GmbH

Using SAP® Leonardo capabilities and other SAP solutions, Kaiserwetter Energy Asset Management developed the ARISTOTELES platform, which aggregates, analyzes, and correlates independently collected production-related and financial data of all assets such as solar parks, wind farms, biomass facilities, and hydroelectric power plants. As a result, the risk associated with investments in renewable energies is minimized while asset performance is maximized.



470-megawatt

Wind farms and solar parks
under management



€900 million

Investment volume



160 million

Customer data points in
the cloud



Kaiserwetter Energy Asset Management GmbH
Hamburg, Germany
<http://en.kaiserwetter.energy>

Industries

Professional Services and
Financial Services

Products and Services

Service provider for renewable
energy asset and portfolio
management, focusing on
digitalization to support the
financial sector

Employees

30

SAP® Solutions

SAP® Leonardo Internet of Things
(IoT) capabilities, SAP Leonardo
Analytics capabilities, SAP Cloud
Platform IoT service, SAP Cloud
Platform, and SAP IoT Application
Enablement toolkit

Boosting Investments in Renewable Energies with SAP® Leonardo

Energy technology provider Kaiserwetter Energy Asset Management developed its ARISTOTELES platform using SAP Leonardo IoT capabilities and other SAP solutions. This IoT platform revolutionizes investments in renewable energy for Kaiserwetter's customers, including investment funds, private equity investors, financing banks, and supranational institutions.

Before: Challenges and Opportunities

- Catalyze investments in renewable energies for customers around the world
- Meet the ambitious energy targets related to the Paris climate agreement
- Succeed in an industry with opaque markets and investments
- Integrate technical and financial data in one IT solution

Why SAP

- Market presence of SAP and reliability of SAP Cloud Platform
- Full scalability with high-security data warehouses around the globe from SAP
- IoT and predictive analytics portfolio, as well as future possibilities with machine learning and blockchain
- Customer-as-a-partner model (OEM), which allows customers to build their own solution with go-to-market, sales, and marketing support

After: Value-Driven Results

- Automated aggregation of technical and financial data from each kind of energy-generating asset, as well as climate factors, using Big Data mining and smart data analytics
- Supported executive-level dashboards with automatic KPI calculations
- Simplified the organizational structures with much higher efficiency
- Allowed for a global approach with geographical independence

“ARISTOTELES, built with SAP solutions, is the answer to force capital investments in renewable energy on a global basis by maximizing returns and minimizing risks.”

Hanno Schoklitsch, CEO and Founder, Kaiserwetter Energy Asset Management GmbH



Maximized

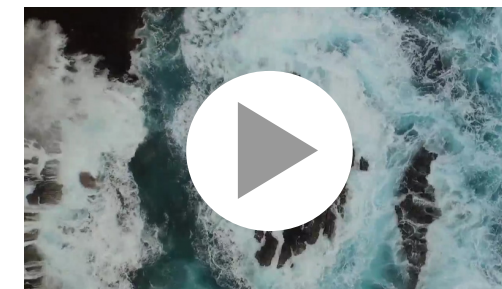
Asset and portfolio performance

Minimized

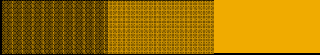
Investment risks by creating
transparency at the highest level

Maximized

Return on investment



Click above to see a video about the
ARISTOTELES platform



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