

SUSTAINABLE AND AGGREGATED REAL-TIME DATA ANALYSIS WITH THIS EUROPEAN ENERGY PROVIDER

Key Highlights

- Data lake at the core of customer-driven strategy for this energy supplier's B2B market was re-designed by Atos
- Access to relevant data was provided for the whole business, securing complete enterprise agility
- Added-value customer services were then developed as a result of this solution

Introduction

With increasing demands in the market to not only optimize consumption, but also provide the best customer service, the energy sector has transformed its data and analytics practices tenfold in recent years. Crucial to this transformation is the development and real-world implementation of the Smart Grid, a grid which syncs up to a number of intelligent energy sources in order to measure, analyze and optimize re-distribution. Central to the Smart Grid are Smart Meters - real-time measurement devices that sit in the homes of consumers across the globe.

A large European electricity and gas supplier with large revenue across the world originally aimed to provide a better service for their customers by embedding Smart Meters at the edge and analyzing and reacting to the corresponding data in real-time. This also allowed the customer to tailor their individual experience according to their on-going needs. A transformation project was needed in order to analyze and react to this real-time data, including a complete re-assessment and overhaul of existing architecture.

The objective of this transformation project was to provide industry-leading customer service in a more and more challenging B2B market, using real-time analysis and consumption forecasting. Atos enabled this company to support their data-driven strategy, by fully leveraging the data generated in real-time by devices, including Smart Meters, driving transformation initiatives elsewhere.

Using Cloudera technology to consolidate and analyze the edge data, Atos assisted in ensuring the provider's success with their deep Energy and Utilities industry expertise and technology implementation acumen.

About Cloudera

At Cloudera, we believe that data can make what is impossible today, possible tomorrow. We empower people to transform complex data into clear and actionable insights. Cloudera delivers an enterprise data cloud for any data, anywhere, from the Edge to AI. Powered by the relentless innovation of the open source community, Cloudera advances digital transformation for the world's largest enterprises. Learn more at cloudera.com

Solution

Jointly with Cloudera, Atos supported the customer in redesigning their architecture, re-thinking the solution to sustain real-time inbound data in large volumes.

The original purpose of the project was to implement a customer-driven strategy for the business' B2B market, with the data lake at the core of all processes. As the B2B environment is so complex, this was a key component in ensuring added-value to the customer. Upon review, Atos concluded that the existing platform was not designed to sufficiently support the needs of the business, so re-designed the architecture to consolidate all data, including Smart Meters, into one seamless platform. On top of this platform, complex added-value services were added that were accessible for the entire business, ensuring enterprise agility. By planning a sustainable data-driven strategy, Atos ensured the Cloudera platform was used to its full potential.

The Atos information system was based on service-oriented architecture (SOA) and off-the-shelf software integration. This utilized [Cloudera Machine Learning](#) for the business-enabled, advanced added value services for their B2B market. Finally, this solution provided scalability and performance capabilities to copy with large volumes of information. Atos is also engaged on their B2C data lake, also enabled by Cloudera.

Results

Scalability and performance capabilities increased architecture agility and provided a jumping off point for the business to analyze real-time data points from the edge. With the newly empowering business having access to real-time insights, the customer team was enabled to create added-value services. One example included receipts from retailers being used as alternative data by the cities to optimize their energy-industry transformation initiatives. By consolidating and optimizing their data stores, this customer has maximized the value driven from their data, from data usage optimization to customer insights and prediction.

The result has been that the enterprise's data-driven strategy is now back on track, giving them access to the appropriate data from anywhere, including edge data with real-time analysis.

[Find out more about Atos Smart Grid.](#)

To find out more about Atos and Cloudera, [visit our partnership page](#) or email Daniel Nutburn [@cloudera.com](mailto:dnutburn).