

Aging infrastructure, tight profit margins, and increasing customer demand for digitally enabled experiences are putting pressure on Power and Utilities organizations to transform their operations and systems. Increasingly, organizations are choosing the cloud to improve efficiencies, reduce cost, and rapidly innovate services to open new revenue streams.

What you get with our Power & Utilities expertise:

We help our power & utilities customers to predict and respond to their complex operational demands. From safety monitoring and predictive maintenance to AI-powered production, we work closely with our clients to empower faster decision making and reduce costs while increasing operational excellence. No matter where you are on your cloud journey -- Onica has a solution tailored to your unique requirements to accelerate your transformation.



Premier
Consulting
Partner

Machine Learning
Competency

IoT Competency

Data & Analytics
Competency

DevOps Competency

Migration Competency

Capabilities & Solutions:



Predictive Maintenance & Asset Management

Combine IoT and machine learning to enable real-time monitoring, anticipate equipment failure or maintenance scheduling to achieve higher levels of efficiency. Manage your fleet and equipment through connected solutions leveraging serverless technologies to gain real-time insights on resources in the field and gather data for predictive workflows.



Data Analytics & Insights

Integrate an ever-growing pool of data coming from smart meters, IoT sensors, and home devices to access and analyze critical operational and customer insights that can drive faster and better decision making.



Cloud Migration

Whether you are embarking on a cloud transformation journey by moving all workloads to the cloud or building hybrid IT architectures that extend your on-premises infrastructure, AWS provides elastic, cost-effective compute and storage capacity so you can quickly provision resources to run demanding high-performance workloads like demand response and weather forecasting.



Advanced Metering Infrastructure

Leverage machine learning and analytics for advanced metering infrastructure systems that enables two-way communication between utilities and customers to collect data remotely, streamline operations, and improve safety monitoring and the customer experience.

BC Hydro

Case Study: BC Hydro

The Customer: BC Hydro is a Canadian electric utility responsible for facilitating electricity to over 4 million customers across British Columbia, Canada. The utility was looking to migrate their workloads into the cloud to accelerate running complex models and improve cost-efficiency for intermittent resource usage.

What We Did: Onica migrated BC Hydro's computational models onto AWS, using the cloud's processing capabilities over the previous on-premise solution. An on-demand model was implemented to provision a significant amount of computational resources needed during relatively short bursts of activity, bringing down operational costs.

The Outcome: Onica's efforts helped the customer deploy and run their models fully on the cloud, accelerating their processing speed from around 10 to 20 hours previously to less than 45 minutes. The on-demand model helped the customer avoid paying for resources when idle and unutilized, resulting in significant savings over an on-prem solution.

Customer Success

Case Study: Major Energy Retailer

The Customer: The customer is a major retail provider of electricity, natural gas, and energy-related services to millions of homes and businesses. Facing inaccuracies in processing energy consumption data that resulted in outages or excess supply, the company was looking for an efficient and accurate data processing solution that could provide reliable insights.

What We Did: Aimed towards processing over 16 data sources to guide decision-making on supply needs, Onica developed a new data analytics platform on AWS for the energy retailer, with automated ETL pipelines, on-demand elastic and ephemeral Hadoop clusters and a CI/CD workflow for data science algorithms.

The Outcome: Onica's efforts helped the customer add new data sources and make predictive analytics within hours and days instead of weeks and months while being highly accurate, efficient, elastic and secure. The solution also had automation built in to simplify processing.