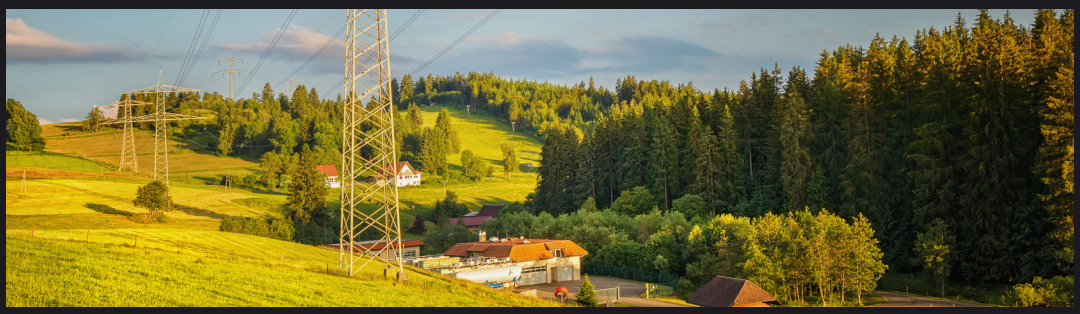
CASE STUDY

Data as a Service saves MITNETZ STROM hundreds of work hours per year

MITNETZ STROM | *Germany*



Industry

- Power and Utilities

Solution

- Data as a Service (DaaS)

Challenges

- Fragmented geospatial data procurement
- Extended planning cycles
- Redundant work and outdated data
- Data managed across organizational silos

Results

- Hundreds of work hours saved per year
- Significantly shortened planning cycles
- Reduced IT and operational costs
- Consistent data across departments

MITNETZ STROM is the largest regional distribution system operator in eastern Germany, managing an electricity distribution grid that covers approximately 29,500 square kilometers and supplies more than 2.1 million people across Brandenburg, Saxony Anhalt, Saxony and Thuringia. As renewable generation, electromobility and changing energy demands reshape the grid, decisions about infrastructure, routes and supply security increasingly depend on timely, accurate geospatial data.

Historically, MITNETZ STROM procured data such as parcels, buildings, land use and addresses from different sources, with information manually processed and managed across organizational silos. To create a more efficient approach, the company transitioned to a centralized geospatial Data as a Service (DaaS) model that provides teams with continuously updated, quality-assured data across planning, construction and operations.

Moving beyond fragmented data procurement

MITNETZ STROM's decentralized approach to geospatial data created challenges across the organization. Data from different sources had to be procured, processed and maintained separately, contributing to longer planning cycles, redundant work and the risk of teams working with outdated information.

"We would not have been able to cope with the technological dynamics in our supply area with classic data processes," said Roberto Löffler, IT project manager at MITNETZ STROM. "The fragmented procurement of geodata was a massive bottleneck for planning, construction and ongoing operation."

With DaaS, MITNETZ STROM instead obtains geospatial data as a service. Octave provides access to a continuously updated and quality-assured geodata foundation through specialized data services and portals. Information including aerial imagery, topography, parcel, building and address data, traffic, environmental and land use information is brought together and made available on demand across the organization.

This centralized approach gives teams a consistent source of geospatial information to support decisions throughout the infrastructure lifecycle. Planners can evaluate potential routes and locations for substations and overhead line pylons,

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Roberto Löffler
IT Project Manager
MITNETZ STROM



construction teams can access the same maps and data in the field and operations teams can use updated environmental, vegetation and other information to identify risks and prioritize maintenance activities.

Saving time and supporting better decisions

The move to DaaS has delivered measurable operational benefits for MITNETZ STROM. The company reports saving hundreds of work hours per year, while also significantly shortening planning cycles, reducing IT and operational costs and providing consistent data across departments.

Centralized data is also helping MITNETZ STROM make more informed decisions. Technical, spatial and economic information can be evaluated together during planning, while construction and operations teams can continue working from the same data foundation as projects move forward. This reduces coordination requirements and supports a more consistent flow of information from planning through construction and ongoing operations.

The approach also supports infrastructure resilience. By combining grid, geospatial and environmental information, MITNETZ STROM can evaluate the potential effects of flooding, heavy rainfall and other risks on substations and grid infrastructure and use that information to inform preparedness and supply security planning.

Building toward a smarter grid

MITNETZ STROM sees the transition to DaaS as part of a broader move toward completely data-driven grid operations. The long-term goal is an intelligent, resilient power grid where decisions can be made faster, become more automated and draw on an increasingly comprehensive data foundation.

As renewable energy and new sources of demand continue to reshape the distribution grid, easier access to reliable geospatial information can help MITNETZ STROM plan infrastructure, manage operations and prepare for changing conditions across its service territory.

"With the switch to Data as a Service, we have not only optimized processes, but we have also fundamentally strengthened our operational capability," said Löffler. "Today, we plan faster, build more precisely and act with foresight. This is the basis for an intelligent power grid in the energy transition."

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency, and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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