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New opportunities through targeted data management

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Companies reduce energy costs for IT infrastructure, buildings and production facilities

What do a Danish plant manufacturer, a Swabian industrial technologist and a Frankfurt-based logistics subsidiary have in common? They have all succeeded in significantly advancing their energy management by integrating the relevant IT and OT data.

Kiel – Energy monitoring is nothing new. Rising energy costs and legal requirements have already led some companies to establish metering systems. The associated challenges are not new either. In industry, for example, the question arises in production as to which measuring points it is worth connecting a sensor system so that the costs and benefits are appropriately balanced. This is because the most relevant measuring points need to be identified and fed in in order to be able to operate efficient energy data management.

The hurdles in data management

Once data collection is up and running, its complexity often makes it difficult to handle efficiently due to the many point solutions, data silos or various hybrid multi-cloud environments. This applies to all three of the main energy cost drivers: IT infrastructure, buildings and production.

A look at their data composition shows how diverse their structure is:

Consist Software Solutions GmbH
A Consist World Group Company

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Company location: Kiel
HRB Kiel No. 3983

Management:
Daniel Ries
Jörg Hansen

Data Centers	Buildings	Factories
Network Devices	Network Devices	Network Devices
Edge Hub	Edge Hub	Edge Hub
Electricity Maps	Electricity Maps	Electricity Maps
Compute and Storage	Building Systems	Edge Devices / OT / IoT
API	HVAC	PLCs
Otel	BMS	SCADA systems
Data Center Infrastructure	Meter	Sensors
Server Rack	Edge Devices / OT / IoT	Meters
HVAC	PLCs	Laptops, servers
PDU	SCADA systems	Onsite Data Center
Meter	Sensors	Compute, Storage servers
Building Management System (BMS)	Laptops	UPS
Uninterruptible power supply (UPS)	Onsite Data Center	Building Systems
Data Center Infrastructure Management (DCIM)	Compute, Storage servers	HVAC
VMs / Containers	UPS	BMS
	Office Equipment (monitors, printers)	Meter

As energy management is also a data problem, it is important to bring energy data sources from IT and OT environments into an overarching visibility.

A new approach in this respect is the Splunk data platform, which aggregates data centrally and independently of the manufacturer. It also includes automatic correlation and context of the collected data, making it easier to carry out targeted troubleshooting and realize potential savings.

The data analyses obtained in this way enable the industry to take targeted measures such as peak load management, optimized resource planning and intelligent standby operation. Thanks to these three leverage effects, cost savings of up to 30 percent can be demonstrably achieved:

- Timing (optimized planning of non-time-critical, energy-intensive processes)
- Pricing/price management (optimized peak load management)
- Availability (optimized standby mode of machines)

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Use cases

Bosch Rexroth is making this solution tangible at its Ulm model factory. Together with Consist and Splunk, the company first identified key areas for optimization within production using data technology. By using the three aforementioned parameters of timing, pricing and availability, the company was able to reduce energy costs and CO₂ emissions by up to 30 percent without compromising performance, quality and production schedules.

The approach taken in Frankfurt did not involve the integration of sensor technology. There, a large logistics company was able to optimize the space utilization and energy efficiency of its buildings by analyzing WLAN and LAN log data with Splunk in a data protection-compliant manner. As a Splunk technology specialist, Consist carried out the planning and implementation of the corresponding data management.

The Danish mining specialist FLSmidth, which took over the mining business from Thyssenkrupp in 2021, supports global companies on their way to zero emissions in the mining and cement industry. CO₂ dashboards, which were created there with Splunk, are an important control aid for this major goal.

In addition to greater efficiency, lower costs and a significantly better carbon footprint, another effect is that energy management with Splunk can also be used for verification reports such as the EU CSRD. This is common to all use cases.

This press release contains 2.735 characters (including spaces), with an average of 49 characters per line. You can also find it at www.consist.de/presse.

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More information:

- About Consist: www.consist.de
- About Energy Management via Data: [digital-transformation/green-data](#)
- Use Case Bosch Rexroth: [20-minutes Video Consist Youtube Channel](#)

Illustrations



The data perspective helps save energy costs for buildings, IT infrastructure, and production.

Source: Collage Fotolia, Consist Software Solutions GmbH

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Data Structure of data centers, buildings and factories

Source: Consist Software Solutions GmbH

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Company Portrait

Consist Software Solutions is a specialist in Digital Transformation, IT Security, and Managed Services.

Our comprehensive range of services and solutions includes:

- IT consulting
- Design of IT architectures and IT landscapes
- Conception, development, and integration of custom IT solutions
- Support of applications and systems (from subtasks to complete outsourcing)
- Sale and distribution of software products

The more than 200 employees at Consist are characterized by sound know-how ranging from the most modern to legacy technologies.

Consist has more than 40 years of experience in the market, and has offices in Kiel and Frankfurt.

Portfolio



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Year of founding: 1983 profit center of Krupp MAK
1994 spin-off under the name
Mak DATA SYSTEM Kiel GmbH

Managing Directors: Jörg Hansen, Daniel Ries

Sales, employees: 30.5 Mio. € (2024),
216 employees (2024)

Locations: Kiel, Frankfurt (Main)