

Case Study



ZF GROUP CUTS PLANT POWER CONSUMPTION  
BY UP TO 15% WITH JANITZA

**Janitza**<sup>®</sup>



## ENERGY MONITORING SOLUTION

### Customer Challenges

With 168 production sites in 32 countries and 19 main development centers in 9 countries, the ZF Group is one of the world's leading automotive suppliers. ZF continually strives to enhance the efficiency of its global production sites.

Sustainability is a core component of ZF Group's strategy, with goals such as achieving complete climate neutrality by 2040. To minimize their environmental impact, conserve resources, and improve their bottom line through efficient energy management, the ZF Group decided to implement an energy management system in accordance with the international standard ISO 50001.

Previously, the lack of detailed data on their energy consumption made it difficult for them to track their sustainability efforts and goals. They were unable to monitor the progress of their mandatory sustainability targets for electricity, gas, compressed air, and water consumption. The only data available came from monthly energy bills, reported up to two months after the energy was consumed, which made it impossible to take timely countermeasures. Real-time, detailed data from their plants was not available to the ZF Group.



#### PROJECT LOCATION

All locations with significant energy consumption



#### PROJECT TIMELINE

2019-2024



#### APPLICATION

Energy Monitoring Solution



### The Solution

The ZF Group selected Janitza as a trusted partner for smart energy and power quality solutions. With Janitza's assistance, they established real-time data analytics through an Energy and Power Management System (EPMS) across their plants' power distribution levels 1-3, meeting ISO 50001 requirements.

At Level 1 (infeed level), they are deploying the UMG-512-PRO to monitor infeed with an on-site display. At Level 2 (distribution), they are using the UMG 96-PA to monitor single feeders and the UMG 801 for multiple feeders as standard. At Level 3 (machine level), the UMG 806 is preferably used to monitor single or multiple machines. Other Janitza meter types will be used depending on the application. Janitza's

EPMS software, GridVis®, is employed throughout their plants to track key figures and energy consumption in real-time.

### Customer Benefit

By using this real-time monitoring strategy, the ZF Group reduced energy costs and collected essential data for tracking sustainability efforts. The implementation of a load management system cut electricity consumption at their plants by up to 15%, enabling the ZF Group to set more ambitious sustainability targets, such as measuring their CO2 footprint at the product level. Janitza's GridVis® supports their future growth, including the planned implementation of a cloud-based Digital Manufacturing Platform (DMP) in their plants.



**HARDWARE**



**SOFTWARE**



**SERVICE**

Level 1: UMG-512-PRO  
Level 2: UMG 96-PA and UMG 801  
Level 3: UMG 806

GridVis®

Project planning  
Delivery of hard- and software  
Project based installation (on request)  
Project commissioning  
Service support and training



### ABOUT JANITZA

Janitza makes energy flows transparent - championing the responsible use of energy resources. Janitza electronics GmbH is a German company that specializes in manufacturing energy measurement technology, designed to enhance energy efficiency and ensure the security of energy supply.

Our portfolio boasts innovative measuring devices and the advanced Power Grid Monitoring Software GridVis® – all complemented by high-quality components.

Customers around the globe trust in Janitza for solutions in Energy Management, Power Quality Monitoring, Load Management, and Residual Current Monitoring, all harmonized within a comprehensive system environment – a testament to the quality assured by „Made in Germany.“

## Janitza®

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### ABOUT THE ZF GROUP

ZF is a global technology company supplying advanced mobility products and systems for passenger cars, commercial vehicles and industrial technology. Its comprehensive product range is primarily aimed at vehicle manufacturers, mobility providers and start-up companies in the fields of transportation and mobility. ZF electrifies a wide range of vehicle types. With its products, the company contributes to reducing emissions, protecting the climate as well as enhancing safe mobility. Alongside the automotive sector – passenger cars and commercial vehicles – ZF also serves market segments such as construction and agricultural machinery, wind power, marine propulsion, rail drives and test systems.

With some 168,700 employees worldwide, ZF reported sales of €46.6 billion in fiscal 2023. The company operates 162 production locations in 31 countries.



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