SUCCESS STORY

# Avoiding costly peaks in demand

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ZF leverages the benefits of autonomous peak load management, resulting in sustained reductions in energy costs



Autonomous system



Long-term energy cost savings



ROI within 18 months

THE CHALLENGE

#### Avoiding costly peaks in demand

- ZF has set itself the goal of continuously optimising energy consumption throughout its internal operations. A preliminary analysis of energy consumption identified peaks in electricity loads.
- These where driving up costs and were consequently defined as a priority for taking action.

THE ENGAGEMENT

#### Use of IoT platform sphinx open

- After conduction a detailed and thorough analysis GFT proposed the introduction of an autonomous system for managing peak loads based on sphinx open.
- The rule-based solution would also forecast demand using machine learning processes in the cloud.

THE BENEFIT

#### Long-term cost savings and unrivalled returns on investment

Over time, the solution introduced by ZF has evolved into an integral part of its energy management strategy. On a day-to-day basis, the system makes continual adjustments to changing conditions and regulates parameters. It also makes it possible to predict potential peaks in demand up to a week in advance, providing ZF with valuable information for production planning.

## The autonomous solution has also brought long-term benefits when it comes to energy management:

- Peaks in demand can be forecast and automatically smoothened based on predefined rules
  permanently cutting energy costs.
- Bottom line, peak consumption has been reduced from 24 to around 20 megawatts.
- The investment paid for itself within 18 months.

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