

Nuremberg, April 9, 2025

Siemens Xcelerator: Up to 20 percent in energy savings with Drivetrain Analyzer Cloud thanks to AI-based drive optimization

- **Siemens Xcelerator portfolio offers powerful drive optimization for industrial customers**
- **Drivetrain Analyzer Cloud: Continuous monitoring and AI algorithms generate specific efficiency measures**
- **Cloud-based approach enables optimization of energy efficiency of drives across multiple sites**
- **Siemens Industrial Copilot for operations: Drive train support for users**

Industrial companies are under increasing pressure to improve their energy efficiency and reduce their carbon footprint. A major energy consumer in industry is the drive train, which consists of variable speed drives, motors, pumps, and other components. Drivetrain Analyzer Cloud, a powerful solution from the Siemens Xcelerator portfolio, helps companies significantly reduce the energy consumption of their drive systems through energy-based maintenance.

Continuous monitoring and AI-based optimization for greater energy efficiency

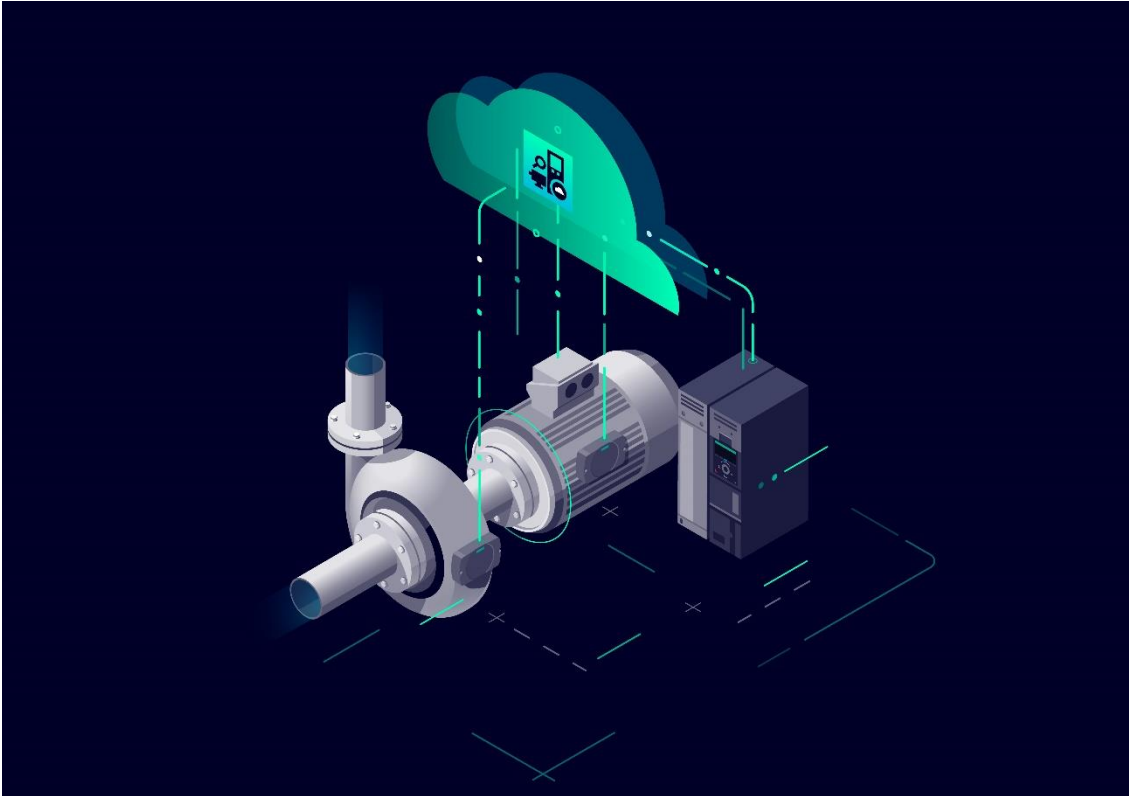
The Connection Module IOT collects extensive data from the drive train and transmits it to the Drivetrain Analyzer Cloud. There, relevant operating data such as load, electrical power consumption and energy consumption of the drives are continuously calculated and displayed. Drivetrain Analyzer Cloud also helps to save energy by using advanced AI-based analysis algorithms to accurately detect deviations from the optimal operating point, monitor energy consumption, CO₂ emissions, and costs, and generate optimization suggestions. Thanks to its data-driven approach, it even precisely calculates the return on investment (ROI) so that future investments can be allocated

as accurately as possible. This allows users to take targeted actions to increase energy efficiency: for example, adjusting the engine control, maintenance intervals, and load distribution. Drivetrain Analyzer Cloud also detects when an engine is operating inefficiently and automatically recommends a more efficient alternative. Using Drivetrain Analyzer Cloud can reduce the energy consumption of a drive system by 10 to 20 percent. The cloud-based approach also makes it possible to share results across sites and optimize the efficiency of the entire manufacturing infrastructure. In addition, the Drivetrain Analyzer Cloud insights can be integrated into higher-level energy management systems.

Siemens Industrial Copilot for operations: Drive train support for users

To make it even easier to use in the future and to address the shortage of specialists, users are now supported by an integrated Siemens Industrial Copilot for operations. With the GenAI-based chatbot, users can communicate in their native language to ask specific questions and get critical assistance with interpreting data and information. This takes the efficiency and value of Drivetrain Analyzer Cloud to a new level. With the Siemens Industrial Copilot Siemens is revolutionizing the industry by enabling customers to leverage this technology across the entire value chain – from design and planning to engineering, operations, and services.

Drivetrain Analyzer Cloud is part of the Siemens Xcelerator portfolio. Industrial companies can take advantage of Drivetrain Analyzer Cloud to significantly improve their energy efficiency and sustainability. This is an important step toward achieving their sustainability goals.



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You can find this press release and press pictures at the following link

<https://sie.ag/4apV95>

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Siemens AG (Berlin and Munich) is a leading technology company focused on industry, infrastructure, mobility, and healthcare. The company's purpose is to create technology to transform the everyday, for everyone. By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformations, making factories more efficient, cities more livable, and transportation more sustainable. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a leading global medical technology provider pioneering breakthroughs in healthcare. For everyone. Everywhere. Sustainably.

In fiscal 2024, which ended on September 30, 2024, the Siemens Group generated revenue of €75.9 billion and net income of €9.0 billion. As of September 30, 2024, the company employed around 312,000 people worldwide on the basis of continuing operations. Further information is available on the Internet at www.siemens.com.