

Siemens enhances NXpower Monitor with AI-driven electrical signature analysis from Samotics

- Samotics joins Siemens Xcelerator partner ecosystem with its leading monitoring system for AC motors and rotating equipment based on electrical signature analysis (ESA) technology
- ESA technology has been integrated into NXpower Monitor, delivering asset health and energy efficiency insights for electric-driven equipment
- ESA will extend NXpower Monitor's capabilities to deliver an end-to-end asset monitoring offering for the entire energy distribution system

Siemens Smart Infrastructure has integrated electrical signature analysis (ESA) from Samotics into NXpower Monitor, its industry-leading digital caretaker for electrical networks. Using ESA and machine learning, Samotics provides real-time actionable insights to help global industrial companies eliminate industrial energy waste and unplanned downtime. This new capability leverages the ecosystem of Siemens Xcelerator, an open digital business platform that enables customers to accelerate their digital transformation easier, faster, and at scale.

NXpower Monitor enables the visualization and monitoring of electrical assets within electrical networks, providing health status, KPI calculation, energy monitoring, and monitoring of operational data from assets. This comprehensive asset monitoring system enhances efficiency and risk management across the entire energy distribution network through continuous health monitoring, while simultaneously minimizing CO₂ emissions and OPEX. By integrating AI-powered ESA technology, Siemens broadens its application to include the monitoring of AC motors and rotating equipment, all accessible through a single pane of glass.

“The digitalization of energy distribution, automation systems, and networks brings many advantages. Not only does it lead to substantial savings in terms of time and money, it also significantly boosts efficiency and reliability. By adding Samotics to Siemens Xcelerator, our open ecosystem of certified partners, customers can benefit from an expanded offering. This reflects our continued innovation efforts, including the integration of advanced low voltage analysis into our digital caretaker NXpower Monitor,” said Stephan May, CEO of Electrification and Automation at Siemens Smart Infrastructure.

Thanks to ESA technology, NXpower Monitor conducts real-time analysis of high-quality current and voltage data, enabling the detection of electrical and mechanical faults up to five months before downtime happens. Furthermore, the system delivers comprehensive performance and efficiency insights, pinpointing areas with the highest electricity consumption, cost, and efficiency losses. By implementing data-driven recommendations, organizations can optimize operational processes, significantly reducing energy waste and cutting CO₂ emissions by up to 15%.

Jasper Hoogeweegen, CEO of Samotics said: "Unplanned downtime and energy waste are among the most expensive problems in industry. Traditional monitoring technologies do not adequately address these issues. However, through partnerships with forward-thinking organizations such as Siemens, customers are benefiting from ESA technology that delivers real-time, actionable information about the condition, performance, and energy efficiency of critical rotating equipment. This helps our clients to effectively improve the performance and energy efficiency of their critical assets.”

Siemens and Samotics will be present at the upcoming Hannover Messe, taking place from April 17th to 21st. [Free tickets](#) are available.

This press release as well as photos are available at <https://sie.ag/3L4Lh4t>

For more information about Siemens Smart Infrastructure, see: www.siemens.com/smartinfrastructure

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Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2022, the business had around 72,700 employees worldwide.

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

In fiscal 2022, which ended on September 30, 2022, the Siemens Group generated revenue of €72.0 billion and net income of €4.4 billion. As of September 30, 2022, the company had around 311,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

Samotics is a leading provider of real-time actionable insights to optimize performance and energy efficiency of AC motors and rotating equipment. An expert team of data scientists, software developers and technical specialists has developed an AI-driven platform that supports global industrial companies in reducing energy waste and unplanned downtime. Our customer base includes sector-leading players such as Anglian Water, ArcelorMittal, Nobian, Evonik and TotalEnergies. For more information, visit www.samotics.com and follow us on [LinkedIn](#) and [Twitter](#).