

IFAT 2026 | Hall C1, Booth 305

## Siemens expands its digital portfolio for water, wastewater and waste management

- **Real-time water quality: SIWA Quality Inspector continuously monitors quality parameters from treatment to the end consumer and proactively identifies risks; available on Siemens Xcelerator**
- **SIWA Treatment Optimizer uses physics-based models and digital twin technology to cut energy consumption and emissions by up to 25 percent**
- **IFAT 2026: Siemens demonstrates how its integrated control center consolidates data from across the entire water cycle, laying the foundation for data-driven operations and supply reliability**

Rising environmental standards, growing cost pressures, and a shortage of skilled workers: the demands on operators of municipal and industrial infrastructure continue to increase, making data-driven operations more critical than ever. At IFAT 2026, the leading trade fair for environmental technologies, Siemens will showcase how digital solutions help manage water quality, wastewater treatment and material flows in waste management more efficiently.

### **New solutions for water, wastewater, and waste**

SIWA Quality Inspector is a software module for data-driven water quality decision making. It analyzes water quality parameters in real time – from treatment all the way to the end consumer – and helps operators detect changes in the network early, such as water age, mixing effects in tanks, or quality deviations in distribution. In doing so, it provides the foundation for more proactive operating strategies and preventative maintenance.

For wastewater treatment, Siemens has developed the SIWA Treatment Optimizer – a software solution based on physics-based models that supports plant operators with real-time process control. At its core, the solution uses mechanistic process models to analyze the treatment process in real-time and deliver explicit control recommendations for plant operation. Digital twin technology also enables the simulation of design scenarios. All SIWA applications are part of the Siemens Xcelerator portfolio.

Soft sensors further expand the data foundation: they continuously calculate process variables such as total suspended solids, biological oxygen demand, and nitrous oxide emissions — even where physical instrumentation is unavailable. This gives operators a deeper view of actual process performance and helps ensure compliance with regulatory limits, even under fluctuating influent conditions. Depending on the use case, energy cost savings of up to 25 percent are achievable.

Amrutha Venugopal, Head of the Water and Waste business at Siemens said:

“Water and wastewater operations are often difficult to assess in real time, leading operators to rely on experience or safety margins. Our digital solutions bring greater transparency to process behavior. With SIWA applications, soft sensing and real-time water quality monitoring, operators can make more precise decisions -for example on aeration or chlorine dosing - reducing uncertainty as well as energy and chemical consumption. These scalable solutions are built for the realities of today’s plants and networks.”

### **Efficient material flow monitoring and plant operations in waste management**

Siemens is expanding its portfolio at [IFAT 2026](#) to include waste management alongside its established water and wastewater solutions. The enhanced portfolio covers the entire waste lifecycle – from collection and sorting to treatment, recycling and energy recovery. To support this, Siemens’ Totally Integrated Automation (TIA) portfolio enables efficient, secure and integrated operation of recycling plants.

The portfolio is rounded out by two additional solutions from the automation and communications space. Simatic WinCC Unified ResCon introduces a fully integrated load management system into Siemens' Simatic WinCC Unified SCADA solutions: it automatically monitors and controls electricity, gas, and other utilities, helps to prevent costly demand peaks, and delivers real-time transparency into energy flows.

The CP1243-1 communications processor enables flexible integration of distributed assets into a wide range of industrial communication protocols as well as modern cloud and Internet of Things (IoT) platforms. With built-in IPv6 support, web server and diagnostic functions, and event-based alerting, it is designed to meet the demands of modern, connected infrastructure environments.

### **Siemens at IFAT 2026 – Hall C1, booth 305**

With its new solutions for drinking water, wastewater and waste management, Siemens is bringing together digital tools for three core areas of municipal and industrial environmental infrastructure at IFAT 2026 – while also showcasing its full automation and digitalization portfolio for the water sector. At the center of the exhibit is the integrated control center: it gives operators a unified, transparent view of all their assets and facilities. It consolidates data from a wide range of subsystems into a single platform, regardless of the infrastructure domain. Open interfaces and a scalable architecture create the foundation for data-driven operations, predictive maintenance, and advanced digital services

Siemens will also demonstrate how the integrated control center can be combined with additional digital tools: AI-based solutions for leak detection, process modeling and simulation for wastewater treatment, and modern energy management systems that provide transparency into resource flows and help reduce emissions and operating costs. Cybersecurity is another key focus: Siemens supports operators of critical water infrastructure in protecting their assets and meeting regulatory requirements.



*SIWA Treatment Optimizer reduces energy consumption and emissions in wastewater treatment*

For more information on Siemens' portfolio for the water industry, please visit:

<https://www.siemens.com/water>

This press release can be found at:

<https://press.siemens.com/global/en/pressrelease/siemens-expands-its-digital-portfolio-water-wastewater-and-waste-management>

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faster, and scalable. Together with our partners and ecosystem, Siemens Digital Industries enables customers to become a sustainable Digital Enterprise. Siemens Digital Industries has a workforce of around 70,000 people worldwide.

**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. A leader in industrial AI, Siemens leverages its deep domain know-how to apply AI – including generative AI – to real-world applications, making AI accessible and impactful for customers across diverse industries. 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 2025, which ended on September 30, 2025, the Siemens Group generated revenue of €78.9 billion and net income of €10.4 billion. As of September 30, 2025, the company employed around 318,000 people worldwide on the basis of continuing operations. Further information is available on the Internet at [www.siemens.com](http://www.siemens.com).