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Press

Zug, Switzerland, December 11, 2025

Siemens boosts grid availability with comprehensive transparency

- **Swiss utility company IBC Energie Wasser Chur benefits from faster fault detection, thanks to comprehensive 24/7 transparency**
- **Combination of smart fuses and grid sensors allows easy integration into existing grid infrastructure**
- **Siemens' Electrification X is an integrated, scalable IoT suite, offering a future-proof basis for network optimization and expansion**

Siemens innovative electrification hardware and software will bring a new level of transparency to the low-voltage grid of Swiss power utility IBC Energie Wasser Chur (IBC). Around 40,000 residents in the greater Chur area will benefit from a secure, advanced supply of electricity. The energy transition poses new challenges for grid operators, including distributed energy feeds, increasing loads, and high demands on voltage quality and supply reliability. A secure, data-driven solution that avoids extensive retrofitting is critical for reliable supply. This is where Siemens' technology has a big impact.

Easy installation into existing grid infrastructure for maximum reliability

Over the next two years, IBC will equip 200 transformer stations and 290 distribution cabinets with smart, bidirectional Sentron 3NA6 COM low-voltage high-performance (NH) fuses and Sicam Enhanced Grid sensors from Siemens. The Electrification X IoT suite is a central application that provides continuous access to grid data, analyses based on key performance indicators, and automated alarm messages. This increases responsiveness and improves control. One of the biggest benefits of the solution is that it's easy to integrate into existing infrastructure without costly installation. At the same time, it enables small to large energy suppliers to create

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data-driven transparency, optimize operational decisions, and make future expansion measures more efficient.

“Availability and reliability are paramount for every grid operator. Data-driven transparency enables proactive operation and is essential for the resilient grid of the future. With our technology, we can increase usable grid capacity by up to 30 percent,” said Stephan May, CEO of Electrification and Automation at Siemens Smart Infrastructure. “We look forward to supporting Chur on its path to climate neutrality by 2040.”

Fit for the future: maximum cybersecurity and supply reliability

Encrypted data transmission is ensured through a certificate-based protocol that meets the highest cybersecurity requirements. Using the Distribution Grid Monitoring software, which is part of Electrification X, grid operators can detect load peaks early on, take targeted countermeasures, and plan investments efficiently. Continuous monitoring and automated alarming increase supply reliability, reduce downtimes, and improve maintenance efficiency.

“The energy transition is causing major bottlenecks in terms of capacity utilization and voltage quality. With Siemens’ technology, we can push ahead with digitalization at grid level 7 in an economical, safe, and reliable way, while keeping future supply power needs firmly in focus,” said Radoje Krstic, Protection Technology Specialist at IBC.

By 2040, Chur aims to become a climate-neutral city in the field of energy. Approximately 88 percent of electricity already comes from renewable sources.

This press release as well as a press picture are available: https://sie.ag/5mY6Cf

For more information on Siemens Smart Infrastructure, please see Siemens Smart Infrastructure.

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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. To protect this journey, we foster holistic cybersecurity to ensure secure and reliable operations. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2025, the business had around 79,400 employees 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.