

Press release

Munich, April 14, 2021

Siemens Energy shapes the Internet of Energy with digital products

- Siemens Energy extends its digital power transmission portfolio for a successful energy transition
- Grid operators will be able to make the right decisions faster to operate the grid more efficiently
- Highest cybersecurity standards due to on-site data processing and storage directly in the substation

The energy transition is challenging the power grids: Wind and sun feed in renewable energy in a highly fluctuating manner, and the complexity and connectivity of our energy infrastructure continues to grow. At the same time, the importance of cybersecurity is increasing, because more and more components are digitally networked and thus potentially vulnerable. This poses major challenges for grid operators. For the energy transition, the digitization of transmission infrastructure is playing a decisive role. Siemens Energy is extending its switchgear and transformer portfolio to include new digital products such as the world's first high-voltage system with integrated edge computing technology. With these innovative products, grid operators will be able to react faster to changes in the system, make the right decisions, and increase the transparency, productivity, and reliability of their plants. The seamless integration of the systems into the existing customer network is local, secure and simple. This also ensures a highly cyber-secure system.

"For a successful energy transition, we need future-proof power grids," said Christian Bruch, CEO of Siemens Energy. "To achieve this, we need to take full advantage of the opportunities opened up by digitalization. With our pioneering digital power transmission portfolio, we offer our customers a secure, simple and fast way to convert data into relevant information and thus ensure efficient power transmission."

In devices with edge computing technology, data processing is decentralized at the product level and without the need for previous data transfer to the cloud. The new edge transmission products from Siemens Energy offer the possibility of connecting devices directly within the substation - without having to compromise the advantages of cloud solutions such as app-based data analysis or central device and application management.

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Siemens Energy is one of the world's leading energy technology companies. The company works with its customers and partners on energy systems for the future, thus supporting the transition to a more sustainable world. With its portfolio of products, solutions and services, Siemens Energy covers almost the entire energy value chain – from power generation and transmission to storage. The portfolio includes conventional and renewable energy technology, such as gas and steam turbines, hybrid power plants operated with hydrogen, and power generators and transformers. More than 50 percent of the portfolio has already been decarbonized. A majority stake in the listed company Siemens Gamesa Renewable Energy (SGRE) makes Siemens Energy a global market leader for renewable energies. An estimated one-sixth of the electricity generated worldwide is based on technologies from Siemens Energy. Siemens Energy employs more than 90,000 people worldwide in more than 90 countries and generated revenue of around €27.5 billion in fiscal year 2020. www.siemens-energy.com.