SIEMENS

Press

Zug, November 22, 2022

Siemens launches highly customizable generator circuit-breaker

- **Versatile solution for retrofit applications and new projects**
- **Maintenance-free vacuum technology with up to 10,000 CO operating cycles**
- **Manitoba Hydro to harness the power of new SF6-free generator circuit-breaker system**

Siemens is expanding its generator circuit-breaker portfolio with a new compact version - the HB1-Compact (HB1-C). The versatile and highly customizable solution uses maintenance-free vacuum switching technology and addresses the most challenging of constraints. Available in L-shape and I-shape designs, the HB1-C can be mounted either vertically or horizontally and can be adjusted to match existing busbar connection points. Additionally, the generator circuit-breaker and its integrated main disconnector can be fitted with earthing switches on the generator side and/or the transformer side for greater flexibility.

These customizable features make the HB1-C not only suitable for new applications, but also valuable for retrofit scenarios in power plants where security of supply is essential, and space is often limited. The HB1-C is to be showcased at Enlit Europe, taking place in Frankfurt from November 29 to December 1.

With increased focus on renewable power and cost reduction front of mind, reliable protection technology is crucial. Generator circuit-breakers are vital components for improving the reliability and availability of power plants. Their installation not only protects equipment such as generators and transformers against overload or short circuiting, but also provides high availability, simplified operational procedures and a reduction in costs.

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Manitoba Hydro, the electric power and natural gas utility in the province of Manitoba, Canada is set to reap the rewards of the new HB1-Compact model. Thanks to a contract with Siemens Canada, Manitoba Hydro will install up to twelve replacement generator circuit-breaker systems in its 1,220 MW Kettle Generating Station, located on the lower Nelson River in Manitoba. The contract underpins a long-term relationship between Siemens and Manitoba Hydro, as the two organisations work together to extend the life of this important generating station and to continue to deliver clean, renewable, and dispatchable energy for the province of Manitoba.

Offering the highest levels of customization, the HB1-Compact model provides power plant operators with the greatest degree of flexibility when designing a new plant or replacing outdated equipment. Designed with reliability also at its core, the HB1-C's full-spring operating mechanism has been selected by CIGRE as the most reliable way to operate a generator circuit-breaker with a lifespan of up to 10,000 operating cycles. With all components and functions type and routine tested together, the HB1-C delivers a native interlocking system with the highest levels of reliability and safety. Indeed, to guarantee safe maintenance, the circuit-breaker can be fitted with integrated line and earth disconnecting switches.

With cost savings a key concern for many plant operators, the HB1-C is designed to reduce costs during the project implementation and ongoing operations. Its simple and compact design means that transport costs are reduced and outage times for the installation of a new circuit-breaker are minimal. Costs are further reduced thanks to the maintenance-free vacuum switching technology which eliminates the need for gas handling, guarantees minimum maintenance costs and increases the recycling rate of the systems.

This press release and press pictures can be found at https://sie.ag/3TV7rY4

For further information on Siemens Smart Infrastructure, please see www.siemens.com/smartinfrastructure

For further information on the HB1-Compact generator circuit-breaker, please see www.siemens.com/hb1-c

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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.