SCHWEITZER ENGINEERING LABORATORIES, INC.
2350 NE Hopkins Court • Pullman, WA 99163-5603 USA
Phone: +1.509.332.1890 • Fax: +1.509.332.7990
www.selinc.com • info@selinc.com

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For more information, contact:
Kate Wilhite, Senior Marketing Communications Specialist
Schweitzer Engineering Laboratories, Inc. (SEL)
Phone: +1.509.336.7946
Fax: +1.509.334.8795
Email: kate_wilhite@selinc.com

## SEL Makes China's Grid Smarter

PULLMAN, WA — November 30, 2009 — Schweitzer Engineering Laboratories, Inc. (SEL) was selected by the second largest utility in China to provide needed equipment for the first phase of a distribution automation (DA) project in Guangzhou. SEL supplied 155 SEL-487E Transformer Protection Relays and 200 SEL-2411 Programmable Automation Controllers (PACs) to China Southern Power Grid Co., Ltd. (CSG), which provides power to 230 million people in five southern Chinese provinces—a one-million-square-kilometer service area.

"SEL is breaking into the utility industry in China, which has been dominated by domestic manufacturers," according to Dexi Yan, regional marketing and sales manager for SEL China. "We are entering areas outside of protection to encompass solutions for distribution automation."

The SEL-487E Relays and SEL-2411 PACs form the foundation for CSG's feeder terminal unit (FTU) applications in the Guangzhou DA system. More than 300,000 FTUs will be required when the system is completed in three years. The SEL equipment will collect and transfer electrical signals, communicate with the main substation, identify and locate faults, and record events.

A key selling point for CSG's selection of SEL is the wide operating temperature range of SEL products, Yan said. Temperatures in CSG switching stations reach 70 degrees Celsius (158 degrees Fahrenheit) during the summer; most SEL products, including the SEL-487E and the SEL-2411, are rated to operate up to 85 degrees Celsius (185 degrees Fahrenheit). The SEL equipment evaluated by CSG engineers did not experience operating difficulties, while that of other competing manufacturers did.

"CSG chose SEL not only because our products meet the requirements, but also because of our reputation for having highly reliable products with the best quality on the market," said Christine Xu, business manager for SEL China.

Featuring long-distance, large-capacity, ultra-high-voltage, and hybrid ac and dc operation, the CSG network is one of the most complicated and technically advanced power grids in the world. This year, CSG ranked 185th among the Fortune Global 500 of the world's largest corporations and 11th among Chinese corporations.

The DA system for Guangzhou, the third most populous city in mainland China with 8 million people, will automate every 10 kV feeder in the city, Yan said. Guangzhou will not be the only city to benefit from the improved system. By the end of next year, 63 southern Chinese cities will be part of the project's scope, affecting all customers in the CSG service area.

"Once the system is in, it will greatly improve reliability and recovery time," Yan said.

The SEL-487E is popular among SEL customers as a powerful transformer relay, station phasor measurement unit, and now as an FTU for distributed bus protection, with its ability to handle up to 6 three-phase current inputs.

The SEL-2411 fits any application with its flexible I/O, convenient customizable controls, easy integration with SCADA, remote monitoring, and ac metering.

For more information on features, benefits, and applications of the SEL-487E and SEL-2411, visit www.selinc.com/p107.

SEL designs, manufactures, supplies, and supports products and services globally for power system protection, monitoring, control, automation, and metering. SEL offers unmatched local technical support, a worldwide, ten-year product warranty, and a commitment to making electric power safer, more reliable, and more economical.

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