

# ABB network management solution to optimize power supply for urban infrastructure in Brazil

Zurich, Switzerland, Aug 18, 2015 – Protection and control technology to improve quality of power supply in Rio de Janeiro to support Olympics

ABB, the leading power and automation technology group, has won an order from Brazilian electric power distributor Light Serviços de Eletricidade, the country's fifth largest utility, to provide a protection and control system for Frei Caneca, its most important substation.

Electricity demand in Brazil has increased steadily over the past decade, spurred by urbanization and major sporting events like the recent 2014 football World Cup and the approaching 2016 Olympic Games. The government has been increasing power capacity and enhancing its transmission and distribution infrastructure.

Built in 1907, the Frei Caneca substation supplies power to a population of about two million in downtown Rio de Janeiro and serves critical infrastructure in the area including the subway system as well as trains and communication networks. ABB's protection and control equipment will help to optimize the operation of the substation and enhance power reliability and stability.

ABB's scope of supply includes the latest version of its REB500<sup>®</sup> distributed busbar protection for 27 bays of the substation. IEC 61850 edition 2 compliant Intelligent Electronic Devices (IEDs) and COMBIFLEX<sup>®</sup> relays will enhance reliability and ensure power quality.

"We are pleased to provide state-of-the-art control and protection technologies to optimize the performance of this important substation and enhance power security for vital infrastructure needs and millions of people," said Claudio Facchin, president of ABB's Power Systems division. "This project supports our strategic focus on power grid automation and is in line with ABB's Next Level strategy to address the dynamics of the evolving power grid".

ABB ([www.abb.com](http://www.abb.com)) is a leader in power and automation technologies that enable utility, industry, and transport and infrastructure customers to improve their performance while lowering environmental impact. The ABB Group of companies operates in roughly 100 countries and employs about 140,000 people.

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