

ABB to showcase new generation SVC Light technology at Cigré

Compact, versatile design enables hybrid solutions and direct, transformer-less grid connection for system voltages up to 69 kV

Zurich, Switzerland, August 22, 2014 - ABB, the leading power and automation technology group will showcase the latest generation of its SVC (static Var Compensator) Light technology at the Cigré event in Paris from August 25-29, 2014.

The compact and versatile design of the new SVC solution enables hybrid solutions and is suitable for direct, transformer-less grid connection for system voltages up to 69 kV (kilovolt). The direct link allows sizeable investment savings in terms of the transformer, civil works and spatial requirements.

“ABB’s latest generation SVC Light is based on a modular, multilevel converter topology to reach even higher transmission efficiency. The new design reduces losses and harmonic emissions and enhances performance, through improved voltage control”, said Oleg Aleinikov, head of ABB’s substations business, a part of the company’s Power Systems division.

Compared with the previous version, the new technology offers a wider dynamic range and greater flexibility as a result of the modular and scalable design of the converter. The number of modules in each phase can be adapted to optimally match the power rating, redundancy and reliability requirements. The arrangement of the converter modules on insulators allows for simpler building structure, while their higher power density reduces the overall footprint of the installation.

ABB pioneered FACTS (Flexible AC Transmission System) technology and is a market and technology leader in this domain. Since its introduction in the 1950s, ABB has delivered more than 800 such installations around the world and introduced several technology breakthroughs in this field.

SVC Light® was introduced in 1997 and improves the efficiency of power transmission systems, increasing the transmission capacity as well as reducing the risk of voltage collapses and blackouts. Its innovative design makes SVC Light ideally suited for a variety of grid optimization applications including support of weak grids and integration of renewables. In industrial steel and mining applications, SVC Light supports heavy loads and flicker mitigation.

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 145,000 people.

For help with any technical terms in this release, please go to: www.abb.com/glossary

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