

Press Release



ABB to present breakthrough power technologies at Cigré event in Paris

Focus on technology launches and innovations to shape a stronger, smarter and greener grid

Zurich, Switzerland, August 25, 2014 – ABB, the leading power and automation technology group, will present some of its leading-edge power technologies at the Cigré conference in Paris from August 25-29, 2014. This is a biennial event and a leading global platform for power experts, representatives and decision makers, to discuss the latest technology developments in the sector. In addition to presenting a number of technical papers at Cigré, ABB will exhibit some of its latest innovations and technologies that can make a significant contribution in the evolution of a stronger, smarter and greener grid.

ABB will showcase for the first time, its recently developed 525 kilovolt high voltage direct current (HVDC) cable system. This will be the world's most powerful extruded HVDC cable, and will enable more than doubling the power flow up to 2.6 gigawatts and extending distance to over 1500 km while keeping transmission losses in check. In addition to other applications, this innovation is expected to make a significant contribution to the integration of renewables and interconnections.

Another technology that will have its first showing is the latest generation Static Var Compensator (SVC) Light, a part of ABB's Flexible Alternating Current Transmission Systems (FACTS) portfolio. The new SVC Light has a compact and versatile design that enables hybrid solutions and is suitable for direct and transformer-less grid connections, for system voltages up to 69 kilovolt (kV).

One of the most visible exhibits will be ABB's new generation 145kV (kilovolt) Gas Insulated Switchgear (GIS), incorporating a simplified, low weight modular design reducing SF6 insulating gas use by up to 60 percent. The latest compact 420kV PASS hybrid switchgear, integrating the functions of a circuit breaker, disconnect and earthing switch, as well as current- and voltage transformers in a single product will also be featured. This product is uniquely designed to enable the rotation of bushings from service to transportable position, facilitating easier movement and quick installation. ABB will also provide an update on the company's latest breakthroughs in areas like SF6 gas management and other eco-efficiency initiatives.

ABB will also demonstrate how smart technologies are increasingly being deployed to energize the digital grid. This includes a digital substation concept which shows how key products such as transformers and switchgear are becoming increasingly intelligent. It also highlights the latest communication systems offerings like the new FOX 615 and SAM600 stand-alone merging units.

This intelligence is also being extended to the management of assets through the integration of information and operational technologies, showcased as part of ABB's Asset Health Center solution, combining ABB's vast competence and installed base and the company's Ventyx software portfolio. Staying on the service theme, ABB is displaying an innovative non-intrusive service tool that uses x-ray or radiography to inspect high-voltage switchgear.

A focal point will be an HVDC experience zone, a technology pioneered by the company 60 years ago. Some of the key HVDC technology components such as cables, semiconductors, converters and the breakthrough hybrid HVDC breaker that solved a 100 year dilemma and paved the way for more interconnected DC grids, will also be showcased.

ABB will also present Microgrid Plus™, its innovative solution for the integration of renewable energies into a microgrid, to improve reliability and efficiency.

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve their 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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