
ZURICH, SWITZERLAND, AUGUST 27, 2018

ABB takes power grids into the digital future at CIGRE 2018 in Paris

ABB Ability™ based technologies provide innovative solutions across the power value chain

ABB will take digitalization to the next level this year at CIGRE 2018 in Paris from August 27-31, presenting its latest power grids technologies and ABB Ability-based innovations. ABB's showcase at the event includes connected and interactive displays, exhibits and live augmented and virtual reality based demonstrations. The booth itself will be powered by an ABB Ability™ wireless solution, demonstrating the company's wide-ranging capability in wireless communication networks. The biennial event in Paris is a leading global platform for power experts, representatives and decision-makers to discuss the latest technology developments in the sector.

The centerpiece of ABB's exhibition stand is a simulated demonstration of a **Digital Substation**, deploying key ABB Ability™ based technologies. Digital substations are a key element of next-generation grids and touch-screen displays will provide a behind-the-scenes look at recent innovations, including digital communications through fiber-optic cables replacing copper, which can maximize efficiency, reliability and safety, while reducing cost, risk and environmental impact.

Another highlight is an innovative demonstration of the game-changing **ABB Ability™ Power Transformer**, the world's first integrated solution for digitally enabled power transformers, enabling remote monitoring and data analytics of its vital parameters in real time. This enhances reliability and enables higher utilization of grid assets and power networks. Also on show is the **ABB Ability™ TXpert**,™ digital distribution transformer, and the innovative service solution **ABB Ability™ TXplore**, a submersible inspection robot. Visitors will see live demonstrations of how the wireless robot can be maneuvered through a liquid-filled power transformer to perform non-invasive, fast, safe and cost-effective internal inspections.

The **ABB Ability™ Ellipse® Connected Asset Lifecycle Management (CALM)** solution on display unifies the functionality for enterprise asset management, workforce management, and asset performance management. The comprehensive solution suite enables electric power utilities to optimize asset utilization, drive down maintenance costs and reduce equipment failures and system outages.

ABB is also showing innovations in its pioneering and world leading **High-voltage Direct Current (HVDC) and Flexible Alternating Current Transmission Systems (FACTS)** transmission technologies. A key enabler of an interconnected energy future, HVDC is ideally suited to integrating distant renewable energy sources into the power grid.

ABB is celebrating the 50th anniversary of another of its pioneering technologies, the **gas-insulated switchgear (GIS)**. GIS has been a key enabler for urbanization, allowing substations to be built in a fraction of the space required for air-insulated substations. Digitally enabled switchgear and GIS that uses eco-efficient alternatives to the standard sulfur hexafluoride (SF6) gas, which reduces global

warming potential by almost 100 percent will be on display alongside **SafeRing AirPlus™**, the world's first eco-efficient medium voltage gas-insulated switchgear for secondary distribution.

ABB is also displaying its latest grid-edge technology solutions with a focus on **microgrids and battery energy storage systems (BESS)** that can provide stable, sustainable power - anytime, anywhere.

"ABB's focus on Next Level digitalization at CIGRE Paris this year is highlighted by the range of ABB Ability solutions on display and reinforces our position as a partner of choice for a stronger, smarter and greener grid," said Claudio Facchin, President of the Power Grids division. "ABB has a proud legacy of innovation, having pioneered several breakthrough technologies and remains committed to build on this heritage"

Visit us at the ABB booth no. 146, 1st floor, August 27-31, 2018.

ABB (ABBN: SIX Swiss Ex) is a pioneering technology leader in power grids, electrification products, industrial automation and robotics and motion, serving customers in utilities, industry and transport & infrastructure globally. Continuing a history of innovation spanning more than 130 years, ABB today is writing the future of industrial digitalization with two clear value propositions: bringing electricity from any power plant to any plug and automating industries from natural resources to finished products. As title partner in ABB Formula E, the fully electric international FIA motorsport class, ABB is pushing the boundaries of e-mobility to contribute to a sustainable future. ABB operates in more than 100 countries with about 147,000 employees. www.abb.com

For more information please contact:

Head of Communications, ABB Power Grids
Harmeet Bawa
Phone: +41 43 317 71 11
Email: harmeet.bawa@ch.abb.com

ABB Ltd
Affolternstrasse 44
8050 Zurich
Switzerland