

# **ABB and Rolls-Royce announce global microgrids cooperation**

Partnership on microgrid solutions that integrates digital technology and efficient hybrid power systems

ABB and Rolls-Royce have announced a global partnership on microgrid technology and advanced automation. Together the two companies will offer an innovative, energy-efficient microgrid solution for utilities, commercial and industrial entities.

A microgrid is a small scale electric grid that combines power from distributed energy generation sources such as combined heat and power plants, diesel- and gas-powered gensets and renewable sources with batteries. The microgrid provides the overall control to coordinate these resources to meet the requirements of industrial, residential or consumer loads. Microgrids can either function off-grid, or connected to the main power grid. The ability of microgrids to seamlessly separate themselves from the main grid, in the event of a potential grid fault or emergency, is an increasingly important feature.

Reliable power supply – even during harsh weather conditions and times of peak consumption – is critical for economic growth. Integrating renewable energy is a sustainable solution to support uninterrupted power as well as encourage clean energy use. Microgrid solutions benefit utilities, industries and commercial sites that are looking for reliable power supply as well as cost and carbon emission reduction. Microgrids enable resilient power supply even with high penetration of intermittent renewable energy sources like wind and solar. Digital automation and control systems intelligently coordinate distributed energy resources and loads for the microgrid to function efficiently.

Rolls-Royce offers the MTU Onsite Energy brand power system solutions: from mission critical, standby and continuous power to combined generation of heat and power, and microgrids. “Due to the transformation towards decarbonization, customers need to pursue sustainable power options that also deliver utmost profitability. For this, we rely primarily on microgrids, which are autonomous energy supply systems that are efficient, reliable, and environmentally friendly,” said Andreas Schell, CEO, Rolls-Royce Power Systems. “Combining our integrated MTU diesel and gas genset system technology and our control solutions, with ABB’s modular microgrid solution, control capability and remote service, will offer customers the combined strengths of the two world leaders in technology.”

“ABB Ability™ e-mesh™ can ensure a stable power grid, even with a high share of renewable energy from various sources, working smoothly together with already installed gas or diesel engines,” said Massimo Danieli, head of ABB’s grid automation business line within the company’s Power Grids business. “ABB has a vast number of microgrid installations globally and through our partnership with Rolls-Royce Power Systems, we will further support the growing interest for microgrid solutions globally.”

The ABB Ability™ e-mesh™ solution will provide power generation asset owners a vertically integrated, unified view of their distributed energy resources and renewable power generation that is quick to deploy and that reduce operational costs. Cloud operations, site and fleet optimization, weather and load forecast and machine learning algorithms offer infinite insights for decision-

making, such as knowing where to increase investments on maintenance or how to increase revenue streams to operate assets more profitable.

**ABB** (ABBN: SIX Swiss Ex) is a pioneering technology leader with a comprehensive offering for digital industries. With a history of innovation spanning more than 130 years, ABB is today a leader in digital industries with four customer-focused, globally leading businesses: Electrification, Industrial Automation, Motion, and Robotics & Discrete Automation, supported by its common ABB Ability™ digital platform. ABB's market leading Power Grids business will be divested to Hitachi in 2020. ABB operates in more than 100 countries with about 147,000 employees. [www.abb.com](http://www.abb.com)

**Rolls-Royce Power Systems** is headquartered in Friedrichshafen in southern Germany and employs around 11,000 people. With the fully consolidated companies, more than 140 sales partners and over 500 authorized dealerships at more than 1,200 locations Rolls-Royce Power Systems has a global distribution and service structure. The product portfolio includes MTU-brand high-speed engines and propulsion systems for ships, power generation, heavy land, rail and defense vehicles and for the oil and gas industry. Under the MTU Onsite Energy brand, the company markets diesel and gas systems for emergency, base-load and peak-load power requirements, as well as co-generation plants for combined heat and power. Operating under the Rolls-Royce brand in Bergen, Norway, the company also develops and produces medium-speed engines for marine and power generation applications. [www.rrpowersystems.com](http://www.rrpowersystems.com)

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