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ABB energy management solutions support Asia's largest wastewater treatment plant

ABB successfully completes delivery of medium- and low-voltage digital solutions for the expansion of the Shanghai Bailonggang Wastewater Treatment Plant in China guaranteeing continuous and reliable power supply.

The expansion of the facility, which also included the introduction of more advanced wastewater treatment processes, required ABB's high reliability and precision power management solutions to bolster efficiency and reliability. As part of the project, ABB also developed a custom power management scheme to ensure ongoing operations and prevent downtime during the facility upgrade.

The Shanghai Bailonggang Wastewater Treatment Plant is the largest sewage treatment plant in Asia and one of the largest in the world. With a capacity of 2.8 million cubic meters per day, the facility handles around a third of the municipal wastewater produced by the Shanghai metropolitan area, serving more than 7 million residents.

Upgrades to the facility will improve water discharge quality in the Changjiang River and will further support government strategies to minimize Shanghai's chemical oxygen demand, a key factor in improving air quality and meeting local sustainability targets.

ABB's medium- and low-voltage solutions ensure continuous, precise and resilient power supply for processes such as advanced phosphorus removal, along with chlorination and UV light disinfection of the discharged water guaranteeing water quality and reducing pollutants.

ABB China's Electrification Business Area lead business manager, James Zhao, said: "It is a great honor to work with Shanghai Bailonggang Wastewater Treatment Plant on its mission to support Shanghai's sustainable development. ABB is uniquely positioned to support the demanding energy requirements of water processing plants with safe, reliable power distribution systems and efficient energy management. Our digital electrical solutions are empowering industries across China, promoting sustainable development and advancing the construction of smart cities."

ABB's medium- and low-voltage electrical distribution solutions provide data-driven energy management and predictive maintenance functions. The treatment plant will benefit from a range of ABB products including switchgear, air circuit breakers and contactors. Remote monitoring of power consumption and early identification of any safety risks are enabled by the company's intelligent medium-voltage power distribution solution that allows plant managers to make informed decisions earlier to maximize productivity and minimize plant disruption.

ABB (ABBN: SIX Swiss Ex) is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. By connecting software to its electrification, robotics, automation and motion portfolio, ABB pushes the boundaries of technology to drive performance to new levels. With a history of excellence stretching back more than 130 years, ABB's success is driven by about 110,000 talented employees in over 100 countries. www.abb.com

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For more information please contact:

Media Relations

Phone: +41 43 317 71 11

Email: media.relations@ch.abb.com

ABB Ltd

Affolternstrasse 44

8050 Zurich

Switzerland