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ABB enhances productivity and safety at Ivory Coast sugar plant

ABB's state-of-the-art distribution automation system with future-oriented concepts and visualization boosting efficiency of Sucrivoire's sugar plant

Sucrivoire has a production capacity of more than 100,000 tons of sugar per annum, which is generated from 11,000 hectares of sugarcane. The company projects it will produce around 118,000 tons by 2020, with just-released annual results already showing an increase in production compared to previous year.

Sucrivoire is now able to better supervise and control the power supply within its factory and optimize plant operations with ABB Ability™ based distribution automation technology. This is a flexible system that allows for quick and accurate measurements of key production parameters enabling higher productivity and improved plant safety.

Keeping the plant running and minimizing downtime is critical, especially in a seasonal business with production peaks. If there is a power disruption, it is critical for the operators to be able to detect, visualize, locate and restore power as fast as possible in order to ensure efficiency and productivity while securing safe operations.

"We are pleased that our ABB Ability enabled distribution automation system, which combines digital technologies, conventional devices and plug-in applications enable operators to monitor and quickly get a visual overview and a list of alarms and trends related to plant operations," said Massimo Danieli, Head of ABB's Grid Automation business, a part of the company's Power Grids division. "This stronger, smarter and more automated grid enables them to prevent power disruptions or restore supply speedily in case of outages, thereby minimizing unnecessary downtime."

The distribution automation system includes ABB's remote terminal units that are connected to a set of displays. Furthermore the visualization provides a view of the breakers and disconnectors, with measurement values as well as alarm lists and trends.

In addition, the medium voltage air insulated switchgear has been replaced with ABB's latest model with combined protection and control devices from its Relion® family of intelligent electronic devices (IEDs). Operator safety is enhanced with all medium voltage parts fully encapsulated in arc-proof cubicles.

Sugar has been successfully produced on the Ivory Coast for decades, and ABB's distribution automation technology is helping to sweeten the success through enhanced digitalization.

ABB (ABBN: SIX Swiss Ex) is a pioneering technology leader in electrification products, robotics and motion, industrial automation and power grids, 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 of 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 135,000 employees. www.abb.com

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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