

System 800xA solution for sugar mill in Egypt

Project Brief

Sugar is one of Egypt's most important crops and fastest growing consumer staples. Sixty percent of the country's sugar mills are now equipped with ABB process automation systems, and Dakhalia Sugar in the Nile Delta is a case in point.

Dakhalia Sugar's Belkas sugar mill – one of the largest and technologically most advanced in Egypt

One of the Egyptian government's longstanding economic goals is to make the country self-sufficient in sugar. New mills are under construction, and older mills are being revamped to increase overall capacity and help reduce the current 50 percent production deficit.

ABB has long been the principal partner of the Egyptian sugar industry, and has the largest installed base of process automation systems in the country, serving both sugarcane refineries in the south and sugar beet mills in the north.

When Dakhalia Sugar decided to upgrade the process automation system at their Belkas mill in the Nile Delta, they selected ABB after a review of leading automation suppliers.

Dakhalia Sugar's Belkas sugar mill, one of the largest and technologically most advanced in Egypt, installed an automation solution based on ABB's award-winning Extended Automation System 800xA platform, which offers easy migration from previous systems, evolution capability as system needs change, and compatibility with all leading communication protocols.

"Our long experience with the sugar industry and large installed base enables us to provide customers with a level of local support and industry competence that no other supplier can match," says Sherif Moustafa of ABB Automation, Egypt.

"That and the fact that we could meet all the customer's requirements within the stipulated budget and within a very tight deadline were key to our selection."

Dakhalia Sugar produces some 120,000 tons of sugar a year at the Belkas sugar mill, one of the largest and technologically most advanced in the country.

As a leading partner with the Egyptian sugar industry, ABB has the largest installed base of process automation systems in the country, serving sugar cane refineries in the south and the sugar beet mills in the north.





The sugar is packed and delivered in bags.



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The control room with its System 800xA operator workplaces.



AC 800M controllers in redundant configuration at the sugar plant.

ABB's scope of supply:

- System 800xA version 5.0
- Three redundant AC 800M controllers
- Two redundant aspect/connectivity servers (Dell PE2950)
- Five operator workplaces (Dell P390)
- One engineering workplace (Dell P390)
- ABB's S800 I/O system for 2,280 channels



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