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Carlsberg China: New greenfield project

www.carlsberggroup.com

Carlsberg is constructing a new brewery in the Chinese province of Yunnan with an annual capacity of 10 million hl of beer. After the Baltika Brewery in Russia, the new building in southwest China will be second largest production facility of the Carlsberg Group. Carlsberg hopes the new location will help to further expand its share of the market in Southern China. Besides its own brand, local beers, such as Dali and Feng Hua Xue Yue, will also be produced at the new site from 2015 onwards. “The new brewery really raises the bar for China and the rest of the world, while additionally strengthening our position as the market leader in west China. At the same time, the new site also supports our goal of becoming the fastest growing producer of beer in China. To ensure production is as efficient and energy-saving as possible, the new brewery will employ state-of-the-art techniques in terms of its process control technology,” says Angus Or, Chief Executive Officer of Carlsberg China. In mid-July, ProLeiT was awarded the contract for automating the malt, brewhouse and fermenting cellar areas including the complete integration of two sub-plants by Ziemann International GmbH. The project is being managed from the German headquarters with the support of the Chinese ProLeiT subsidiary in Shanghai. It has been decided to use brewmaxx V9 with the add-ons Visu-Recorder, Routing Management and the brewery-specific equipment modules. The brewmaxx V9 system provides Carlsberg with the option of enhancing the control system with MES functions. Furthermore, operating staff will profit from the Chinese user interface and the fast support and high availability provided by the Chinese ProLeiT subsidiary in Shanghai. The plant is currently planned to commence operation by the middle of 2015.

Kiesel Bauchemie: Version upgrade from V7 to V9

www.kiesel.com

Kiesel Bauchemie GmbH & Co. KG has been focussing on the development and production of self-levelling compounds, dispersion adhesives, floor covering materials and fine mortars for over 50 years. In the spring of 2013, ProLeiT was commissioned with upgrading the mortar and adhesive plant in Esslingen, Germany, which was previously controlled by Plant iT V7, to the latest system generation Plant iT V9. Since Kiesel places high demands on quality the application of state-of-the-art production methods is essential. Kiesel therefore wished to benefit from the advantages of the new system generation as quickly as possible. The Plant Batch iT module is now used for automating the mortar and adhesive plant, ensuring the central control and monitoring of the recipe-controlled processes in the plant for the various products and production orders. Furthermore, Plant Batch iT offers an integrated materials management solution that ensures inventory management and complete batch tracking across the entire production process. Changeover to Plant iT V9 was realised during on-going production and downtime was reduced to just six hours. Upgrading to the latest system generation was successfully completed in the autumn of 2013.

Esco:
Plant upgrade in Bernburg

www.esco-salt.com

Headquartered in Hanover/Germany, esco (European Salt Company) is the largest European supplier of salt products and part of the global production network of the salt business unit of the K+S Group. The Bernburg plant in Saxony-Anhalt/Germany, has been operating with the ProLeiT system OS-NT since 1997. Until recently, S5 controllers from Siemens were used as the hardware base. Since Siemens discontinued production of S5 hardware a couple of years ago, the acquisition of spare parts has become increasingly difficult for the salt producer. The company therefore decided to change to Plant iT V8 and S7 controllers at all of its plants. ProLeiT received the contract for retrofitting the sub-plant „evaporated salt“ in January 2013. The project was managed by the subsidiary in Halle.

The challenge provided by this project was that the plant could only be changed over at the weekend, as it runs 24/7 during the week and production downtime was undesirable. The existing evaporated salt plant was already equipped with a comprehensive interface to the SAP system. This interface was used to send material master data, order and recipe data and consumption data to the SAP system. In the new system, this interface had to be reproduced in a way to ensure modifications to the higher-order SAP system were not necessary. During the initial project phase, the old periphery was upgraded, thus making sure the plant could be operated via both the existing S5 hardware and the new S7 hardware. Several weekends were required to test the plant. To avoid negatively impacting on-going production, the old plant configuration had to be reactivated each Sunday evening. During the second project phase, tests were carried out directly on the new S7 hardware and 14 lines were gradually put into operation. Test production runs were performed while commissioning the first lines in order to test the interfaces to the SAP system and the downstream logistics systems. Once all the lines and interfaces had been tested satisfactorily, final and successful changeover to the new system was completed in the spring of 2014.

Avan Salt Plant:
First Plant iT system in Armenia

www.armsalt.am

The first ProLeiT process control system in Armenia will be installed by the Swiss system partner Kundert Automation in cooperation with the equipment manufacturer Salt & Evaporation Plants (SEP). Avan Salt Plant relies on the proven process control system technology from ProLeiT. The Armenian salt producer mines two types of salt at its facility: food salt and rock salt. The food salt, referred to as “Extra” with a minimum sodium chloride content of 99.5 %, is produced using the vacuum evaporation method in a single-stage evaporator at a depth of 1,200 m. Rock salt for industrial use with a sodium chloride content of slightly more than 93 % is mined at a depth of 300 m. It is preferably used for cattle breeding, but also for technical purposes (e.g. de-icing salt). The Armenian salt producer Avan Salt attaches great importance to quality. Certified to the ISO 22000:2005 Food Safety Management System, the company is currently investing in new salt treatment and packaging plants.

Kundert Automation has the required experience in the automation of salt treatment systems. The ProLeiT process control system installed by Kundert at Swiss Saltworks AG helped to guide the end customer into awarding the contract to ProLeiT. The order to automate the new plant includes the complete crystallisation process, transportation, storage and packaging. The module Plant Liqu iT V9, as a virtual machine and in a redundant configuration, will be used. It controls the processes of brine cleaning, thermocompression, evaporation and iodine dosing, alternatively also with other additives. After centrifugation and drying, the salt is transported to storage silos and packed in big bags or other standard sized packages.

“Kundert has enjoyed a successful partnership with ProLeiT for many years. We particularly value the exceptional product quality and pragmatic solutions to customer-specific problems,” says Pirmin Kessler, Managing Director of Kundert Automation.