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Åbro Brewery in Vimmerby, Sweden relies on brewmaxx as control system!

Plant iT for Biogas Plants

Intervet retrofit process control system

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www.vulcascot.at

VULCASCOT, with more than fifty years experience in the Austrian and east European market, has been marketing recognized quality products both for the beverage and non-beverage industry.

In March this year, ProLeiT signed with VULCASCOT a representative agreement for the Slovenia, Croatia, Bosnia Herzegovina, Serbia &

Kosovo, Montenegro, Macedonia, Hungary and Ukraine regions.

The contract covered the marketing of process control systems on the basis of brewmaxx software for breweries and malt houses, and Plant iT software for the beverage industry area. The contract also included the marketing rights for MES solutions, including the coupling to ERP systems for the previously stated industries. ProLeiT so strengthens its worldwide presence, also in these European growth markets.



The Åbro private brewery based in Vimmerby – the home town of the world-famous author of children's books Astrid Lindgren – was founded as long ago as 1856.

www.abro.se

Åbro Brewery in Vimmerby, Sweden relies on brewmaxx as control system!



In November 2006 Åbro private brewery granted brewmaxx Ltd., subsidiary of the ProLeiT AG, the contract for the automation-engineering renovation of the complete process section of the brewery, namely the silo plant (malt), the complete brewhouse, the fermenting room

and storage cellar, the filtration and also the pressure tanks.

The current controller based on SIMATIC S5 with various control and visualization systems will be replaced with standardized brewmaxx system architecture.

The project that consists of two phases, should be completed by fall 2007. ProLeiT performs the automation with brewmaxx V7.

Additionally the technological process for the wort production will also be brought to the state-of-the-art and commissioned - in close cooperation with the brewery and the brewhouse manufacturer Huppmann AG.



ProLeiT at PivoVar, Moscow (Russia)
11th – 14th April 2007
Hall 5, Booth B5



ProLeiT at EBC-European Brewery Convention, Venedig (Italy)
06th – 10th May 2007
Booth 60



ProLeiT at Hannover Messe, Hannover (Germany)
16th – 20th April 2007
Hall 11, Booth C47



ProLeiT at Victam International, Utrecht (Netherlands)
08th – 10th May 2007
Hall 7, Booth C048

Process control technology for such relatively small plants? Is this worthwhile?

Plant iT for Biogas Plants

www.proleit.com



Indeed, a solution using a programmed controller with a simple operation using an operator panel was discussed originally.

After a comprehensive investigation of the advantages and disadvantages, and a detailed cost evaluation (total cost of ownership), the plant operator, a farmer from Central Franconia, decided for an integrated

automation solution with measured value recording and data archiving.

Specifically, the biomass fermentation process was automated using various fermentation stages. To cover the specific require-

ments of a biomass plant, the customization of various Plant iT system classes was necessary. The measured value recording allowed an optimum temperature management to be guaranteed, which, in combination with the regulated biomass feeding, ensured the long-term maximization of the gas yield.

The dedicated signaling system and the Plant iT messenger uses a mobile telephone to automatically inform the plant operator of any malfunctions.

The subsequent correspondingly shortened response time allowed the operational stability of the plant, which works with sensitive bacteria strains, to be increased significantly.

In the next expansion stage, the automation engineering of the final storage currently being constructed will be integrated in the process control system.

Experience gained from this pilot project showed that even plants of this size can be economically configured with Plant iT and are efficient to operate.

In May 2006, ProLeiT AG was commissioned by Intervet International GmbH, one of the leading worldwide manufacturers of veterinary pharmaceutical products, with the migration of the existing process control engineering at the Unterschleissheim location in Germany.

Intervet retrofit process control system

www.intervet.com



The existing system had become old and no longer satisfied the expectations placed on a modern process control system.

A significant point in the design specification for the newly installed platform was the requirement for a complete documentation of the process sequences and the integration of the existing manufacturing instructions in a complete recipe control. Furthermore, the new system had to be prepared for coupling to SAP and so implicitly provide the function of separating bill-of-materials and process recipes.

System functionality and project management had to satisfy the pharmaceutical regulations (cGMP, GAMP, 21 CFR 11).

Furthermore, the production planning placed the requirement to implement the system replacement as smoothly as possible, namely, without extended plant stoppages. Consequently, the required conversion work was performed on production-free weekends and between the end-of-year holidays. The production could be restarted at the start of 2007 on schedule.

A total of seven S7-319 and one S7-414 were used as controllers; the existing process peripherals could be retained.

A Stratus hot-standby server with eight operator terminals was installed at the control level.

The coupling of SAP R/3 using Plant Connect iT is planned in the next expansion level.

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