



# Norit Haffmans' solution provides optimal blend of new technology and existing systems

*After Norit X-Flow received the order for Europe's largest ultrafiltration potable water treatment plant in Germany's Eifel region, now Norit Haffmans has landed a project there.*

The German brewing group Bitburger Braugruppe, with production facilities in Bitburg, Duisburg, Bad Köstritz, Lich, and Wernesgrün, chose a Norit Haffmans CO<sub>2</sub> recovery system for its headquarters in Bitburg. The turn-key project will be installed and commissioned in 2009.

"The project was tendered as a replacement for the CO<sub>2</sub> recovery system Line 1," said Markus Zutz, Norit Haffmans Area Manager. "But when we inspected the existing systems, we realized that the project would be more complex. Because of our extensive experience, our bid was specified in such a way that not only considered the system in question, but also the other existing systems. Therefore, we were able to present a total solution to the Bitburger brewery."

The project manager for CO<sub>2</sub> recovery systems at Bitburger Braugruppe, Christian Prechtel, commented about the brewery's decision to partner with Norit Haffmans for this project. "Initially, we wanted to replace only one of the existing systems with plans to add an identical line later," he said. "But the concept that Norit Haffmans provided after auditing our facilities in Bitburg and executing a gas analysis, persuaded us to rethink the project. Their concept not only included the replacement of the existing system, but a combination

with the existing system technology, which, of course, leads to a further optimization of the entire system. It was quite pleasing to receive an offer that provided an extended integrated concept allowing us to optimize both systems while staying within the budget."

In a first step, a cleaning and liquefaction system with a capacity of 850 kg/h will be installed. The key components listed below are designed for a capacity of 1,700 kg/h, so that they can be combined with the existing system in order to guarantee the desired purity of the total CO<sub>2</sub> recovery system.

- Gas washer
- Pre-cooler
- Activated carbon filter/dryer with superior in-house activated carbon STC-type B

Norit Haffmans provided a turn-key concept, which meets all the technical requirements of the Bitburger Braugruppe. In addition, it was very convincing because of its attractive Total Cost of Ownership.

According to Thomas Lauer, Division Manager Technique, Production and Environment at Bitburger Braugruppe, the new system will fit seamlessly into the existing state-of-the-art brewing facilities with integrated energy conservation system. The concept underlines the brewing group's opinion with regard to improved efficiency, reduced CO<sub>2</sub> footprint, and focus on sustainability.

**Michel Brueren**

