



# Reference report



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## Sedibeng Brewery opts for innovative Loos boiler technology

Sedibeng Brewery, one of the most state-of-the-art breweries in South Africa, had its official opening at the beginning of 2010. It covers an area of 83 hectares close to Johannesburg, and is owned by the brewing company Heineken, among others. The project, which has an annual capacity of four million hectolitres, was implemented with a strong focus on energy conservation, sustainability and the efficient use of natural resources. For this reason, hot water boilers from Loos were chosen to generate the process heat for the brewery.

The highly-experienced plant construction company Ago AG from Kulmbach in Bavaria, Germany, was responsible for planning and constructing the boiler house at Sedibeng, and commissioned Bosch Industriekessel to supply three Unimat UT-M hot water boilers for this purpose.

The three boiler systems offer an economical, eco-friendly energy supply for key production processes such as sterilisation, pasteurisation, washing and cleaning. They incorporate high-tech, low-NO<sub>x</sub> burners and integrated economizers for maximum efficiency and minimal emissions. The boilers are fired with natural gas or light fuel oil, and one can also be fired with biogas, which is produced by anaerobically treating the wastewater from the brewing process. This allows consumption of fossil fuels to be cut by up to 15 percent.

LBC boiler controls are used to ensure optimal, demand-oriented operation of the systems. These programmable controls have easily operable touch screens and can be connected to the higher-order process control system via Profibus DB. The boilers were commissioned by Loos Customer Service.



Two of the innovative UT-M hot water boilers at Sedibeng Brewery in South Africa (© Ago AG [www.ago.de](http://www.ago.de)).