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# Energy-efficient heat for Sedibeng Brewery

Reference Report Bosch Industrial

## Three UT-M boilers support brewing processes



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In 2010 one of the most state-of-the-art breweries opened in South Africa. The Sedibeng Brewery 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 efficiency, sustainability and the efficient use of natural resources. The company Ago AG from Kulmbach in Germany was responsible for planning and constructing the boiler house at Sedibeng. Loos (now Bosch Industriekessel) delivered the boiler technology and commissioned the three UT-M hot water boilers.

The Loos boiler system provides an economical, eco-friendly energy supply for key production processes such as sterilisation, pasteurisation, washing and cleaning. Their modern low-NO<sub>x</sub> burners and integrated flue gas heat exchangers ensure maximum efficiency and reduced 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 waste water from the brewing process. This reduces the consumption of fossil fuels by up to 15 percent. The PLC based boiler controls ensure optimal, demand-oriented operation of the boilers. They are equipped with intuitive touch screens and can be easily connected to the control system of the brewery via Profibus DB.

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