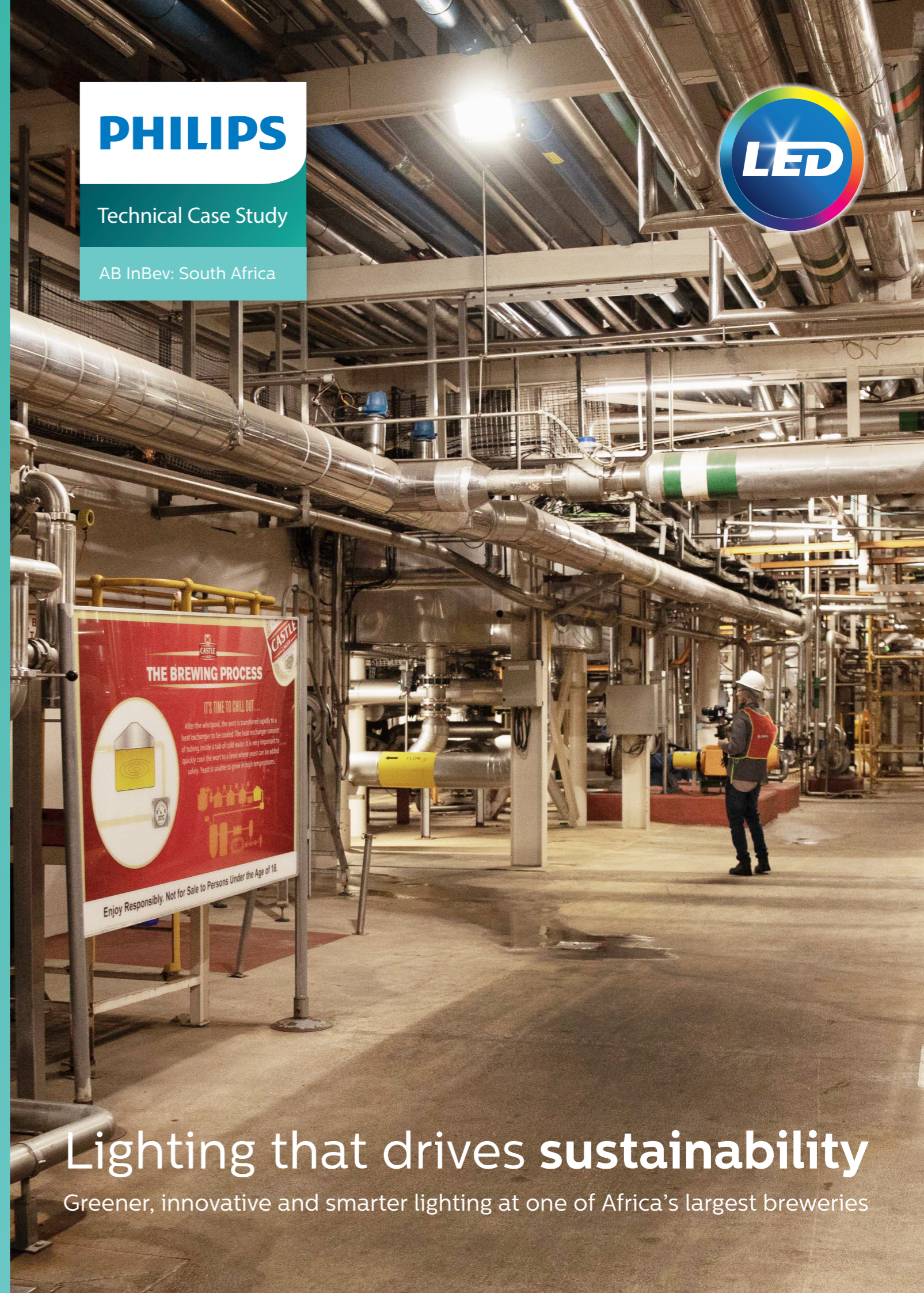




PHILIPS

Technical Case Study

AB InBev: South Africa



THE BREWING PROCESS

IT'S TIME TO CHILL OUT...

After the whirlpool, the wort is transferred rapidly to a heat exchanger to be cooled. The heat exchanger consists of tubing inside a tub of cold water. It is very important to quickly cool the wort to a level where yeast can be added safely. Yeast is unable to grow in high temperatures.

Enjoy Responsibly. Not for Sale to Persons Under the Age of 18.

Philips Lighting
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Lighting that drives **sustainability**

Greener, innovative and smarter lighting at one of Africa's largest breweries

Sustainable smart lighting solutions

AB inBev's Rosslyn Brewery in Pretoria, South Africa received a major lighting upgrade. The project was spearheaded by Philips in partnership Energy LED, we spent a year implementing new LED lighting solutions at the brewery, with the project reaching its final stages in the latter months of 2019.

AB inBev is on a global sustainability drive to reduce energy consumption while maintaining the high-quality standard of its products. To replace the old and inefficient lighting at the brewery, the Philips LED technology used in this project was carefully selected to increase light levels while reducing energy consumption and boasting a longer lifespan. Due to the plant environment containing elements of steam, heat and water, a combination of the Philips GreenPerform 120W LED Highbay to replace inefficient 400W HPS luminaires, the Coreline Waterproof 57W to replace 2 x 58W 5 ft T8 fluorescent luminaires and the Philips 200W LED Tango flood lights to replace 400W HPS flood lights, which collectively saved up to 70% or 2,7M kWh per annum of the breweries lighting energy consumption.

“ Feedback from staff has been excellent.

I've spent a lot of time on-site and have been personally hugged by a few of the workers saying “thank you so much for improving our environment.

- Craig Wilson, Energy LED

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“ One of the **key pillars in our organisation is sustainability** and the first step is to see that we are as **efficient as possible** with our energy consumption and this is in line with that.” - Gugulethu Nogaya, AB InBev

As a result, the carbon footprint of the brewery has been significantly reduced by 2,710 tons per annum, which is very important for the environment and the new carbon tax law. Total cost savings as a result of the project are estimated at R30 million.

Maintenance intervals with Philips LED luminaires are longer, thus drastically saving on operational and running costs. An additional benefit of the Philips LED Lighting Solution is the longevity of the products. In addition, what is important for the brewery is that the LED luminaires have no UV emissions which are harmful in the manufacturing process. With improved light quality, the employees now have a safer working environment to produce Africa's favourite beer.



“ We are an **innovative company!!!**

With Energy LED as our Business Partner Philips managed to supply the best suited LED technology for the Project. We delivered huge energy savings to AB InBev facilities thus reducing their CO2 footprint and minimising maintenance costs without compromising on light quality.” - Nishal Rohan, Philips Account Manager