

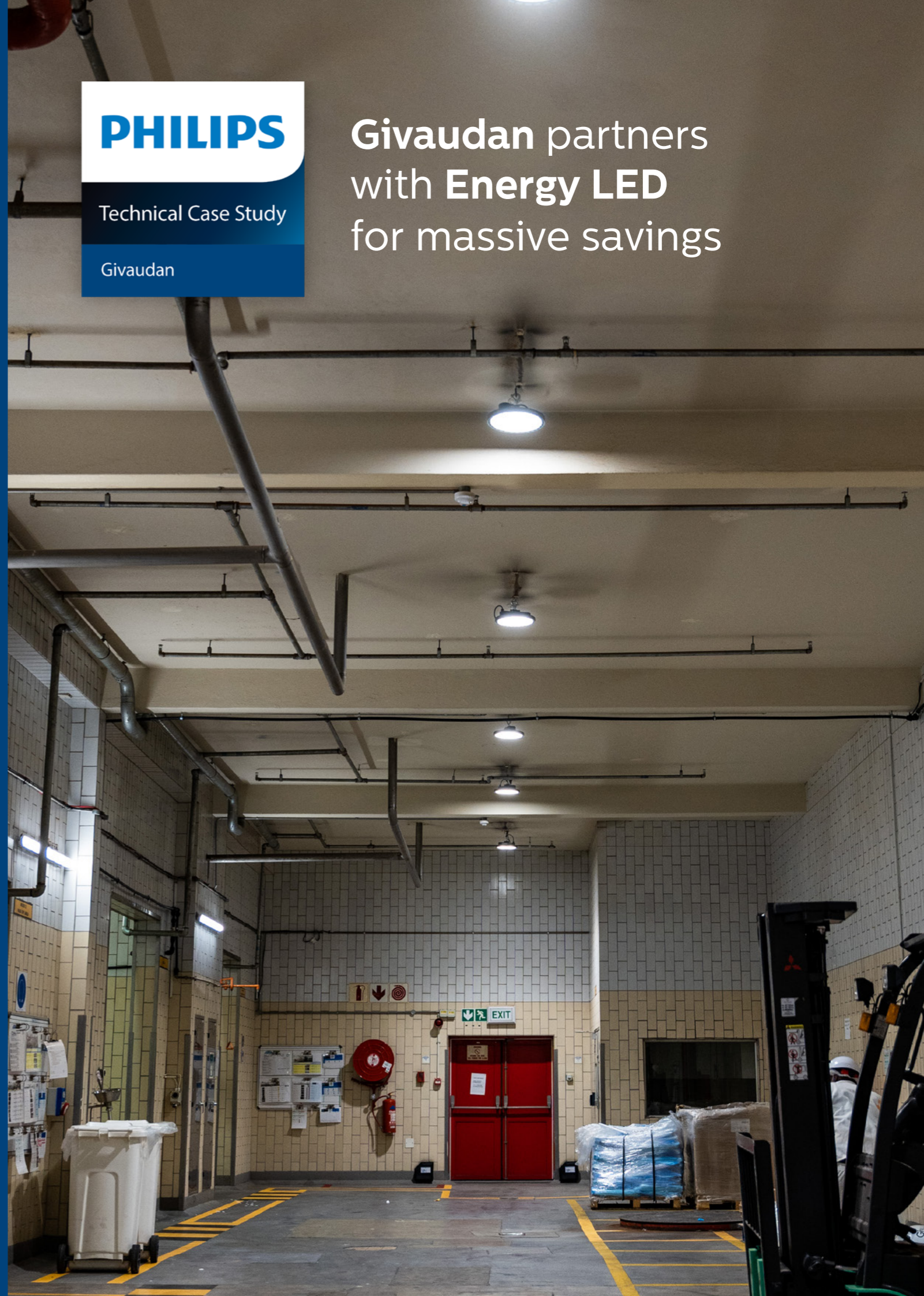


PHILIPS

Technical Case Study

Givaudan

Givaudan partners with **Energy LED** for massive savings



Philips Lighting
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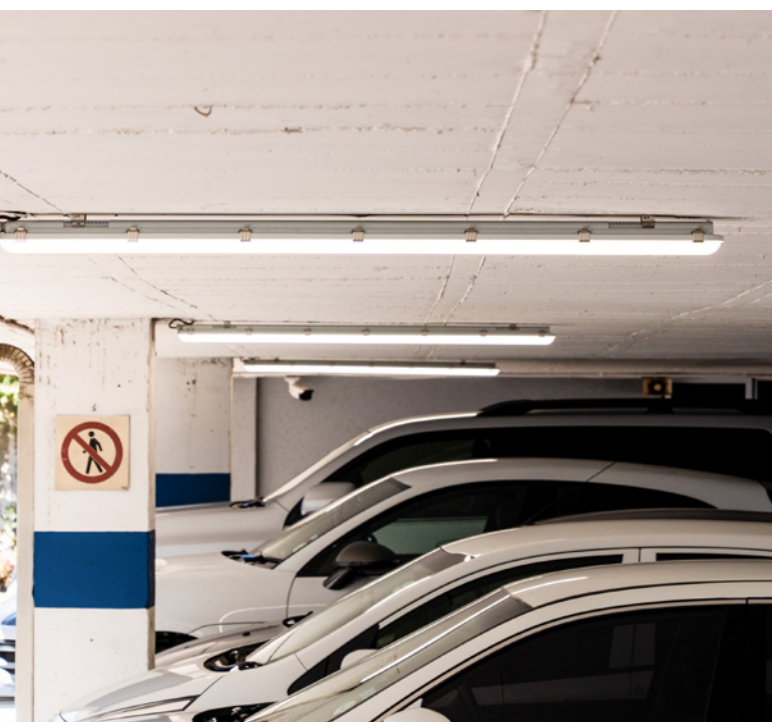
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Givaudan partners with Energy LED for massive savings

Inefficient lighting in their Tulisa Park, Johannesburg operation was costing Givaudan an estimated R31 million over 10 years.

The business partnered with Energy LED, with the objective being to substantially reduce energy consumption whilst simultaneously achieving the Occupational Health and Safety lux requirements for FMCG manufacturing.

Following an exhaustive review, Givaudan invested in the latest Philips LED technologies, and Energy LED completed the full installation over a 2 month period with no disruption to normal operations.



Results

Givaudan was able to EXCEED their OHS lux requirements for manufacturing, while reducing energy consumption by over 70%.

CARBON EMISSION WERE REDUCED BY
ALMOST 4500 TONS!

THIS EQUATES TO THE PLANTING OF
OVER 73,000 TREES.

REDUCTION IN ENERGY CONSUMPTION

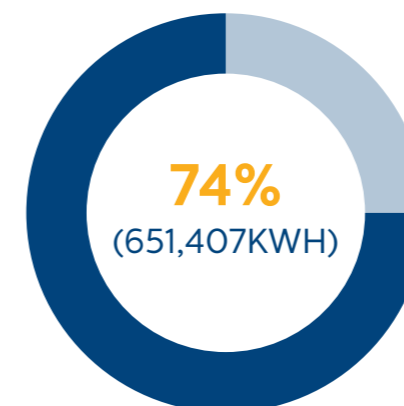
Before **113 KW**

After **31 KW**

RETURN ON INVESTMENT

Per Year **163%**

TOTAL SAVINGS OVER A 10 YEAR PERIOD



“ We have seen a great improvement in the quality of lighting in the area, the lux levels and a reduction in the energy levels.

- Christen Johnson, project engineer at Givaudan.