

A large indoor poultry farm with rows of white chickens and red feeders. The chickens are housed in long, narrow pens with metal railings. The floor is covered in straw bedding. The lighting is bright, and the overall atmosphere is clean and organized.

Case Study

Agricultural sector: Kromme Rivier Poultry Farm

Eskom funded 85% of the retrofit at Kromme Rivier Poultry Farm, the project achieved energy costs saving of R60,053 per annum.

Poultry farmer Bryn Groenewald, cycles 130,000 broiler chickens in phases through eight, 15,000 chicken sheds on this third generation Western Cape poultry farm.

Like most farmers in the area, Groenewald illuminated his broiler sheds with ...

- 32 x 60W incandescent lightbulbs per shed.



Afrison LED, a Project Developer – advised Kromme Rivier to apply for funding through Eskom's Standard Product Rebate Programme, and replaced 256 incandescent lightbulbs and two floodlights with energy-efficient off-the-shelf, Light Emitting Diode (LED) lighting.

Afrison LED also assisted Groenewald through the application process. They helped with the paperwork and submission of the application form to Eskom. They also covered an energy audit of existing incandescent shed lightbulbs, and two external mercury vapour floodlights. Bryn Groenewald agreed to all the suggestions made by Afrison LED.

The retrofit commenced

When the funding application was approved, the Afrison team moved onto the farm in June 2012, retrofitted the LED lighting and disposed of the old technology – under supervision – at the approved Vissershok landfill.

The retrofit comprised

- Replacing 256 x 60W incandescent globes with 6W Light Emitting Diodes (LEDs).
- 2 x 125W mercury vapour floodlights with 20W Light Emitting Diodes (LEDs).

Afrison completed the retrofit and submitted detailed documentation that would enable Eskom to process funding.

The Standard Product Rebate Programme achieved the following on behalf of the farm

- Funding to an amount of R52,873.75, which covered 85% of the total project cost of R70,657.
- Reduction in energy usage of 51,226kWh per annum.
- Savings in energy cost of R60,053 per annum.

"The lighting in the sheds is much brighter now," said a pleased Groenewald. A year earlier – of his own initiative – installed solar water heating systems on all the farm cottages occupied by farm workers.



Next in line for a rebate from Eskom

Groenewald, having seen the financial benefits of converting to energy-efficient technologies, plans to replace electrical element geysers with heat pump technology on three of the farm management houses. “I will apply for an Eskom rebate again, to cover a portion of the purchase and installation costs,” he concluded.

- Kromme River poultry farm is now powering their broiler sheds by being electricity smart and financially savvy.
- It's contributing to bringing South Africa closer to being energy-efficient, one business at a time.

Standard Product Programme

This Rebate Programme was designed for customers who achieve energy savings greater than 1kW and less than 2MWh per annum.

- Funding is capped at R1,875 million per project.
- Only technologies approved by Eskom will be considered, including off-the-shelf products such as energy-efficient lighting, heat pumps and energy and water saving shower heads.
- The programme is designed for farms, retail outlets, shopping centres, guest houses, B&Bs, hotels, lodges, factories, and residential estates.
- Projects may be undertaken by yourself, an Energy Services Company (ESCo) or Project Developer on your behalf.
- A new, streamlined, approval process takes less than two weeks from project submission.



For more information on Eskom's range of energy efficiency rebate programmes, visit www.eskom.co.za/idm
or call the Eskom Contact Centre on 08600 37566 and ask to speak to an Eskom Energy Advisor.