

## CASE STUDY Residential Estate Solar

### Overcoming the challenges of loadshedding

In 2021, loadshedding in South Africa increased by 38% with more than 2,400-gigawatt hours (GWh) shed in that year alone - that's an estimated 1,136 hours of power outages - equal to 3 hours per calendar day. It reduced South Africa's real GDP growth by up to 3.1 percentage points and cost the economy up to 400,000 potential jobs. This cemented the need for alternative solutions and fast-tracked the switch to renewable energy.

### Goshawk Cresnet goes solar

#### INSTALLATION

- 301 kWp solar facility
- 619 x 490 JA Solar Panels
- 780 kWh battery storage

#### SAVINGS

- 80% electricity cost savings
- Reduction of 11,284 tonnes CO<sub>2</sub>
- R60.3 million savings over the lifecycle of the plant

In October 2021, Solarise Africa helped Goshawk Cresnet in Parklands Estate to make the switch to solar.

Goshawk Cresnet installed a 301 kWp solar facility consisting of 619 x 490 JA Solar panels and 780 kWh of battery storage.

The new facility drastically improved the quality of life of families and people working from home. It decreased their electricity costs by 80% and decreased their carbon footprint by 11,284 tonnes, the equivalent of planting 188,061 trees.

The estate will save over R60.3 million over the lifecycle of the plant and provide reliable renewable electricity to the 138 homes in Goshawk Cresnet.

Solarise Africa is a pan-African Energy-as-a-Service company. We provide reliable and affordable decentralised energy solutions for businesses in Africa. Together with our solar partners, we offer a full-service solution that covers designing, building, financing and maintaining solar installations. Through our smart financing solutions, we unlock possibilities and empower our partners to thrive and actively drive Africa's progress.