

# AVONDALE WINE ESTATE

CASE STUDY - 2023



## Ground Mounted Structure

- Grid-Tied
- Export to Drakenstein Municipality



## Energy Engineering

- Power Factor Correction
- System Monitoring
- customized internal power distribution network

## Annual impact / stats

INSTALLATION YEAR 2023



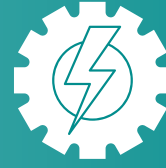
**247.6<sub>t</sub>**

CO2 Reduction



**341.1**

Equivalent Trees Planted



**521.3<sub>MWh</sub>**

Solar Energy Produced

toward  
zero  
in 2050

## Energy security & lower emissions.

This remarkable project encompasses the installation of a solar array, a high capacity battery bank, advanced hybrid inverters and a customized internal power distribution network. The solar array consists of 580 solar panels over 5000 square meters of farmland and generating 304kW of solar energy. Two formidable 150KW inverters and a robust 300KW battery bank round out this cutting-edge installation, effectively enabling Avondale Wine Estate to operate seamlessly on solar power even during peak demand periods.

