

KEY PROJECT INFORMATION

CASE STUDY

Whites Glenola Hay Farm

Hopetoun, VIC 3396



INVESTMENT
\$92,868.00



PAYBACK
58 Months



M / SAVINGS
\$693.50



SYSTEM SIZE
32.8kW



GENERATION
55.98 MWh

YEARLY COST BEFORE SOLAR

\$8,750.00

YEARLY COST AFTER SOLAR

\$428.00

Whites Glenola Pty LTD

White Glenola Pty Ltd engaged Cyanergy to install a 32.9 kW solar system with Longi panels, AlphaESS Smile5 Inverters, and AlphaESS Batteries. Additionally, the scope involved upgrading 92 outdated metal halide and mercury vapor lights to energy-efficient LED Highbay Lights and installing 26 LED Floodlights.

Project Implementation:

The project's implementation was a carefully orchestrated process aimed at achieving maximum efficiency and benefits:

An extensive site assessment was conducted by Cyanergy's team of experts. This assessment analyzed the farm's energy requirements, geographical location, and available resources. It served as the foundation for designing a bespoke solar solution that would cater to White Glenola Pty Ltd's specific needs.

Following the site assessment, the installation of the 32.9 kW Longi solar panels began. These panels were strategically placed to capture the maximum amount of sunlight, optimizing energy production. They effectively converted sunlight into DC power, setting the stage for the subsequent energy transformation process. The AlphaESS Smile5 Inverters were seamlessly integrated into the solar system. The AlphaESS Batteries, with a capacity of 53.2 kWh, were connected to the system. These batteries were instrumental in storing surplus energy generated during the day, ensuring a constant power supply during periods of reduced sunlight or grid interruptions. This bolstered the farm's energy independence and resilience.

Benefits Achieved:

Energy Savings: The installation of the solar system, along with the energy-efficient LED lighting, significantly reduced the farm's reliance on grid electricity. This led to substantial cost savings on energy bills, a welcome financial benefit.

Energy Independence: The integration of AlphaESS Batteries ensured that the farm could store surplus energy. This not only reduced reliance on the grid but also provided a stable power supply even during overcast days or grid failures, enhancing energy self-sufficiency.

Environmental Impact: The shift towards solar energy and LED lighting contributed to a reduced carbon footprint. The farm's adoption of cleaner and more efficient technologies was aligned with sustainable environmental practices.

Improved Operations: The upgraded lighting systems, consisting of LED Highbay Lights and Floodlights, had a transformative impact on farm operations. The improved visibility and security enhanced the overall efficiency of daily tasks and contributed to a safer work environment.



Contact us today to learn more about how commercial solar can work for your business

Let's Talk

