

# POWERWALL

Solar and Powerwall reducing energy costs for Tasmanian Farm.



"We are delighted with the solar system and two Powerwalls. The Powerwalls have proven to be even more worthwhile as they have become smarter overtime (with software updates). Time Based Control allows the Powerwalls to fill during the night time off peak period, to assist us with power usage during the morning's peak period until the solar system kicks into gear."

**Lib & Dave Archer**

## OPPORTUNITY

Woodside is a 2,000 hectare farm located in the centre of Tasmania, comprised of a homestead, two farmhouses and numerous working sheds. Woodside's power infrastructure was aging, leading to rising power costs as old wiring forced appliances and lighting to use additional electricity. After an energy audit at the property, it was suggested that the installation of solar PV and a battery backup system could provide further significant savings and an intelligent management system for the entire farmstead.

## SOLUTION

Woodside decided to install 25.5kW of solar and 2 Powerwalls, totalling 27 kWh of storage. Powerwalls store the excess solar energy, making power available during the evening or in the event of a grid outage. Powerwall also has intelligent forecasting software called Time Based Control (TBC). TBC optimises when Powerwall charges and discharges based on the varying costs of electricity and its learned prediction of the farm's future usage and production.

## RESULTS

Centralisation of the power supply enabled Woodside to directly offset all the major central farmstead power usage from the grid with a 25.5kW Solar PV System and two Powerwalls. Solar and Powerwall has assisted in removing 10 power meters, providing savings of \$2,600 per annum on fixed meter charges alone. The utilisation of TBC with Powerwall has enabled Woodside to take advantage of off-peak charging to further reduce costs.

## Customer

Lib & David Archer

## Location

Cressy,  
Tasmania



## Solar Size

25.5 kW

## Powerwall size

27 kWh (2 x Powerwalls)

## Applications

Time Based Control  
Solar Self Consumption  
Backup

## Commissioned

December 2018