BUSINESS · WINERY & TOURISM | SOUTH WEST WA

SOLAR & BATTERY · WINERY, SHED & WISE WINERY HOUSE

One estate, one plan: powering Wise Winery at Eagle Bay

New solar and battery systems across one South West estate: a ground mount and a rooftop array at the main winery, plus off-grid systems for the back shed and Wise Winery House.



LOCATION
Eagle Bay, South West WA

CUSTOMER
Wise Winery, a working winery with a restaurant, production and distilling areas, homes, workers' accommodation and new chalets

SYSTEM
About 258 kW of new solar and about 282 kWh of usable battery storage across the main winery, the back shed and Wise Winery House

EQUIPMENT
SAJ CHS2 all-in-one battery and inverter cabinets (CHS2-50K-T6 and CHS2-29.9K-T4), SAJ H2-15K-T3 hybrid inverter with SAJ B2 batteries, JA Solar JAM54D40-475/LR and Risen RSM144-9-595BNDG panels

COMPLETED
April 2026

THE CHALLENGE

A growing estate and an ageing system

Wise Winery isn't one building. The estate takes in the main winery and restaurant, a new shed with workers' accommodation behind it, and Wise Winery House. More chalets are on the way.

The winery already had about 100 kW of solar, installed bit by bit between 2012 and 2015. It was getting old, and the ground-mounted array couldn't get any bigger because the new cabins were going in right next to it. A backup generator only covered the restaurant.

WHAT WE DID

A plan for every building

We started with a full site feasibility study. We mapped every switchboard, meter and existing system, then designed each site to suit how it actually uses power.

- **Main winery:** We kept the existing network approval and replaced the old system with a bigger one: 88.35 kW of new panels (186 panels) on the existing ground-mount footings with a 50 kW SAJ CHS2 battery cabinet, plus a new 59.5 kW rooftop array (100 × Risen 595 W) with a 29.9 kW SAJ CHS2 battery cabinet and 77.3 kWh of usable battery. Each cabinet sits next to its own inverter.
- **Wise Winery House:** 27 kW of solar (57 × JA Solar 475 W panels), an SAJ H2 15 kW three-phase hybrid inverter and 50 kWh of SAJ B2 batteries (two 25 kWh stacks), set up to run off-grid with a manual changeover to the grid.
- **Back shed and workers' accommodation:** A new off-grid 83.3 kW solar system with a 50 kW SAJ CHS2 cabinet and 77.3 kWh of usable battery, with a manual changeover switch so the grid is still there as a backup. It also leaves room to power the new chalets later.

We managed the whole job from design through to installation, network paperwork and monitoring setup. We worked closely with our local install partners the whole way.

THE RESULTS

What the estate is seeing

About 85%
self-sufficient in Aug 2026, main winery site (monitoring data)

Off-grid
shed and house, designed to run off-grid

Results are for this site and period, based on monitoring data. Every site is different, and your results will depend on your usage, tariff, roof, weather and system design.

Thinking of going off-grid? Read the independent consumer guides from the New Energy Tech Consumer Code first: newenergytech.org.au/consumer-guides

WISE WINERY

Project package

EQUIPMENT PACKAGE

CATEGORY	EQUIPMENT	QTY	TOTAL
Solar panels: main winery ground mount	JA Solar JAM54D40-475/LR	186	88.35 kW
Solar panels: main winery rooftop	Risen RSM144-9-595BNDG	100	59.5 kW
Solar panels: back shed	JA Solar and Risen	140	83.3 kW
Solar panels: Wise Winery House	JA Solar 475 W	57	27.075 kW
Battery inverters	SAJ CHS2-50K-T6 all-in-one cabinet (ground mount, back shed)	2	2 × 50 kW
Battery inverter	SAJ CHS2-29.9K-T4 all-in-one cabinet (rooftop)	1	29.9 kW
Hybrid inverter	SAJ H2-15K-T3 (Wise Winery House)	1	15 kW
Battery	CHS2 cabinet batteries, 77.3 kWh usable each	3	231.9 kWh
Battery	SAJ B2 25 kWh stacks (Wise Winery House)	2	50 kWh
Mounting	Rooftop arrays: S-5! mounting system. Ground mount: existing footings reused	–	–
Monitoring	Elekeeper	–	–

ELECTRICAL SCOPE

- Full site feasibility study mapping every switchboard, meter and existing system
- Existing network approval retained at the main winery; old ~95 kW system removed and replaced
- Manual changeover switches at the back shed and Wise Winery House so the grid remains as backup to off-grid systems
- Connection of each CHS2 cabinet alongside its own inverter and into the site switchboards
- Network paperwork and STC documentation; systems connected 25–29 April 2026

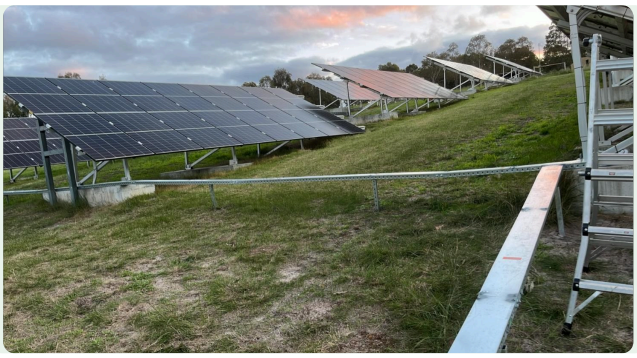
Equipment as installed or specified for this project. No pricing shown.

WISE WINERY

Project photos



Long ground-mounted solar array on a grassed slope, with trees behind.



Rows of ground-mounted solar arrays on a grassy hillside, with a steel cable tray in the foreground.



Close view of a large rooftop solar array, with bushland on the horizon.



Two white battery/inverter cabinets and a Blue Diamond generator on a gravel pad, with a steel cable tray in front.



Rooftop solar array on Wise Winery House, with bushland and the ocean on the horizon.

WISE WINERY

Project photos (continued)



Steel cable tray carrying orange cable through leaf-littered bushland under tall trees.



Cable tray with orange cable running along the ground between trees, with a blue cable drum behind.



Base of the equipment cabinets (labelled "ES" and "PV"), with a coil of orange cable and a steel cable tray beside the building.



Grey conduits running neatly along a brick and limestone wall above a roof.

nationalrenewable.com.au/projects/wise-winery

Got more than one building to power?

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