



THE SOLAR FACILITY

INNOVATING PORTABLE BUILDINGS





Leader of Continuous Innovation

Portable Buildings

Introducing the revolutionary Solar Facility
Power your operations anytime, anywhere with unparalleled efficiency.

Multitrade Building Hire continues to lead the way in its portable building innovation. In collaboration with Red Earth, a pioneer in solar and battery technology, and supported by The Australian Government's AusIndustry Entrepreneurs Programme and the Department of Climate Change, Energy, Environment and Water, we proudly introduce The Solar Facility, your sustainable solution for off-grid, on site operational efficiency.

Eco-Friendly | Reliable | Portable

Why choose the Solar Facility?

- Completely off-grid: With advanced solar technology, operate independently from traditional power sources such as generators and terminated site power.
- Reduction in Carbon Footprint: A commitment to a greener future, a new working environment that aligns with the sustainability goals of our industry.
- Cost effective: The Solar Facility reduces outgoings on onsite generator hire, regular fueling, ongoing maintenance costs and initial trade connections.
- Immediate site establishment: No down time waiting for external services including electrical and plumbing connections.
- Designed for industry: Tailor-made for mining, construction, and remote sites, overcoming power challenges effortlessly.



RedEarth

AusIndustry
Entrepreneurs' Programme



Australian Government
Department of Climate Change, Energy,
the Environment and Water

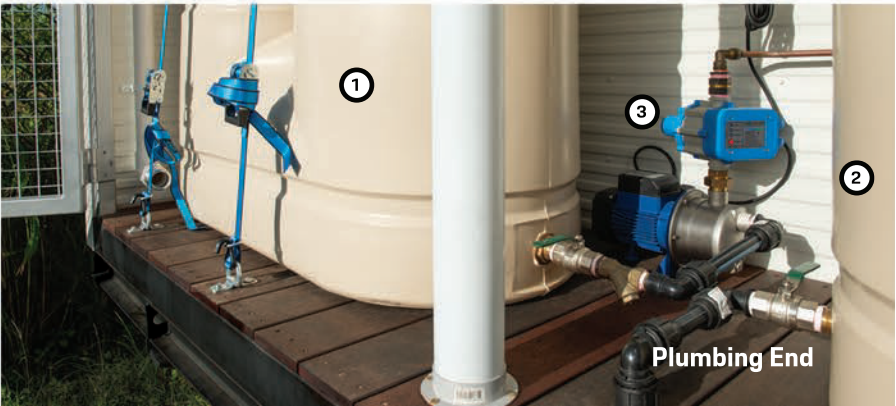
Innovation Leader

Design Highlights.

- ❶ 650L Slimline Duraplast Potable Water Tank
- ❷ 650L Slimline Duraplast Grey Water Tank
- ❸ WaterPro Pressure Pump
- ❹ Crimsafe Fly Screen
- ❺ External 10amp GPO
- ❻ 50mm Cam Lock Potable Water Fill Point
- ❼ 1200mm External LED Lighting
- ❽ 600mm External LED Lighting



Solar Facility | Plumbing End



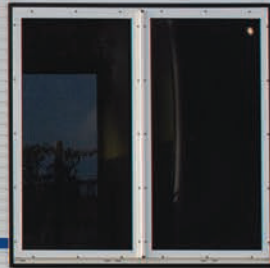


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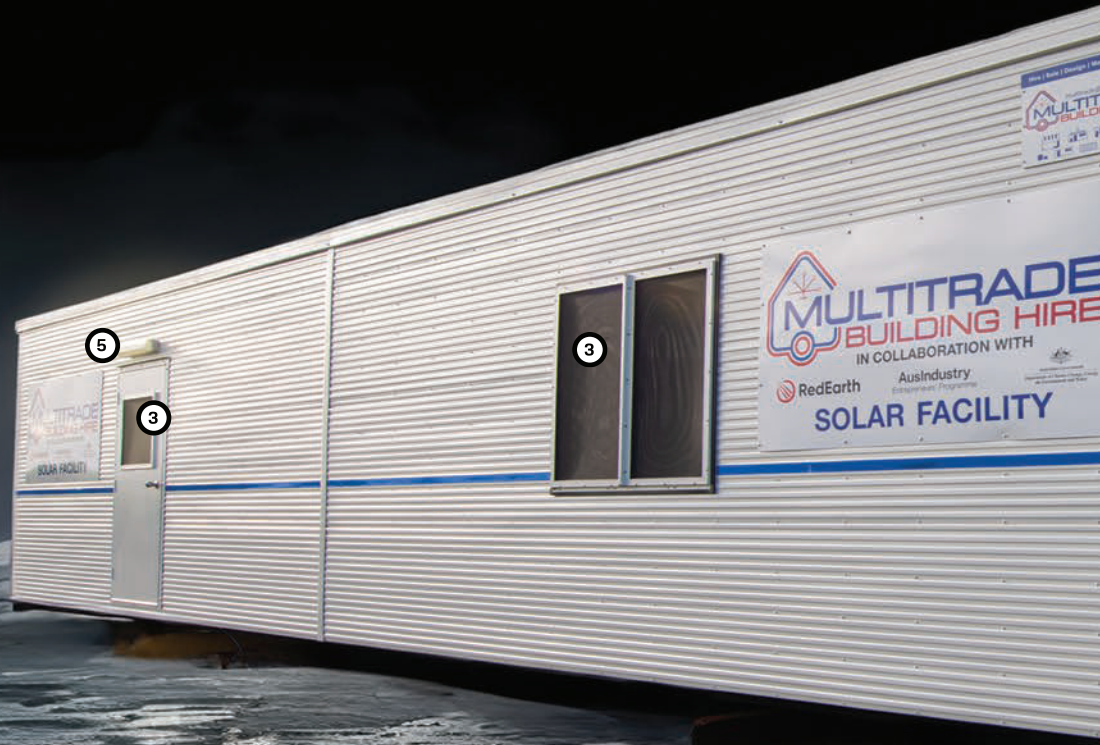


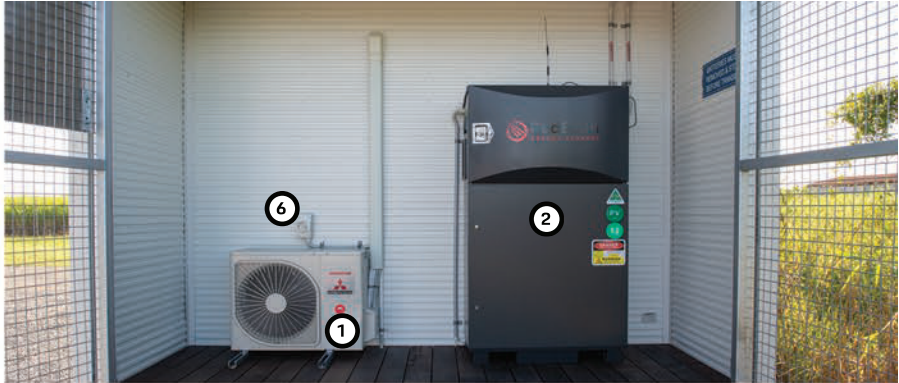
SOLAR FACILITY



Design Highlights.

- ❶ Mitsubishi 5.0kw Condenser Unit
- ❷ RedEarth Energy 'Honeybadger 10' Off Grid Power System.
- ❸ Crimsafe Fly Screen
- ❹ 1200mm External LED Lighting
- ❺ 600mm External LED Lighting
- ❻ AC Isolator Switch







THE SOLAR FACILITY | WORK WITH NATURE





Comfortable Setting

The Solar Facility's interior is meticulously designed to maximise comfort, functionality, and energy efficiency, creating an ideal environment for various industry needs.

With a focus on creating a serene workspace, the additional insulation not only ensures a significant reduction in external noise, contributing to a quieter, more focused environment, but also enhances the building's energy efficiency by maintaining stable internal temperatures. All windows are fitted with black out blinds and Crimsafe Security Screen Over. This commitment to tranquility allows occupants to enjoy the natural soundscape of their surroundings, undisturbed by the hum of generators or external disruptions.

Energy efficiency is further exemplified through the use of high-efficiency appliances and LED lighting throughout the facility. These elements are carefully selected to minimise energy consumption without compromising performance.

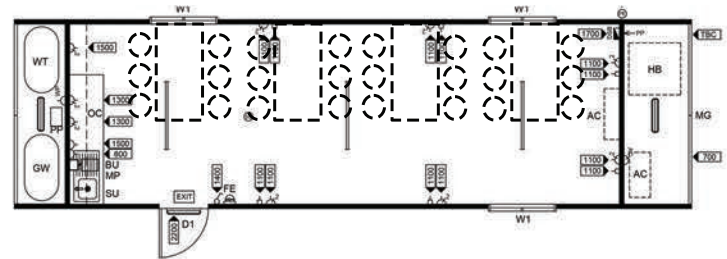
The choice to build with a wider 3.3m width gives the building more ergonomic flow and space.

The combination of solar energy, efficient appliances, and effective insulation makes the Solar Facility an exemplar of sustainable design, offering users a comfortable, adaptable, and eco-friendly workspace solution.

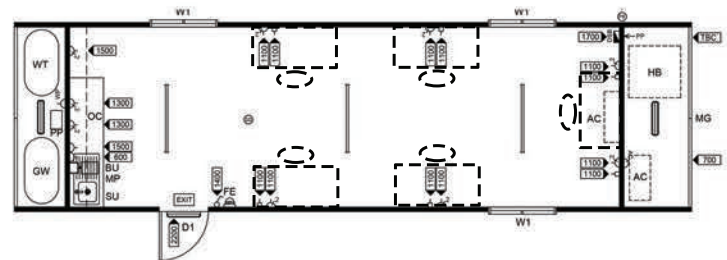
Versatile Layout

Flexibility lies at the heart of the Solar Facility's design. The furniture layout is thoughtfully versatile, allowing for easy customisation to suit different operational requirements, from office setups to lunch room areas. This adaptability ensures that the space can evolve alongside the changing needs of its users, promoting both productivity and well-being.

Crib Room Layout

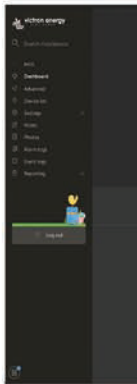


Office Layout











Power Versatility

The Solar Facility's energy solar battery system is integral and designed for superior efficiency and flexibility. This system includes 12 high-performance 390W solar panels, ensuring ample energy capture. At its core are Red Earth's batteries, initially coming with four 4.1kWh units, providing a robust 16.4kWh of storage. This modular design also allows for easy upgrading to eight batteries, doubling storage capacity to meet higher energy demands.

This seamless integration ensures uninterrupted power, with the solar panels efficiently converting sunlight into electricity, stored in the batteries for continuous, reliable supply. The system can also be remotely monitored with both computer and mobile dashboards, with inbuilt weather based forecasting for energy production. The Solar Facility remains at the forefront of sustainable and adaptable off-grid solutions.



Solar Specifications

Solar Input

12 x panels producing 4.7kW MPPT PV panels
Max. 250Vdc PV string voltage

Power Output

10,000VA continuous (@ 25°C) 20,000w peak power
Battery Options
Up to 8 x 4.1kWh Australian Made LFP Troppo batteries

Dimensions

920L x 650W x 1680H (mm)

Weight

185kg without batteries + 42.5kg per battery

Battery Voltage

48VDC nominal

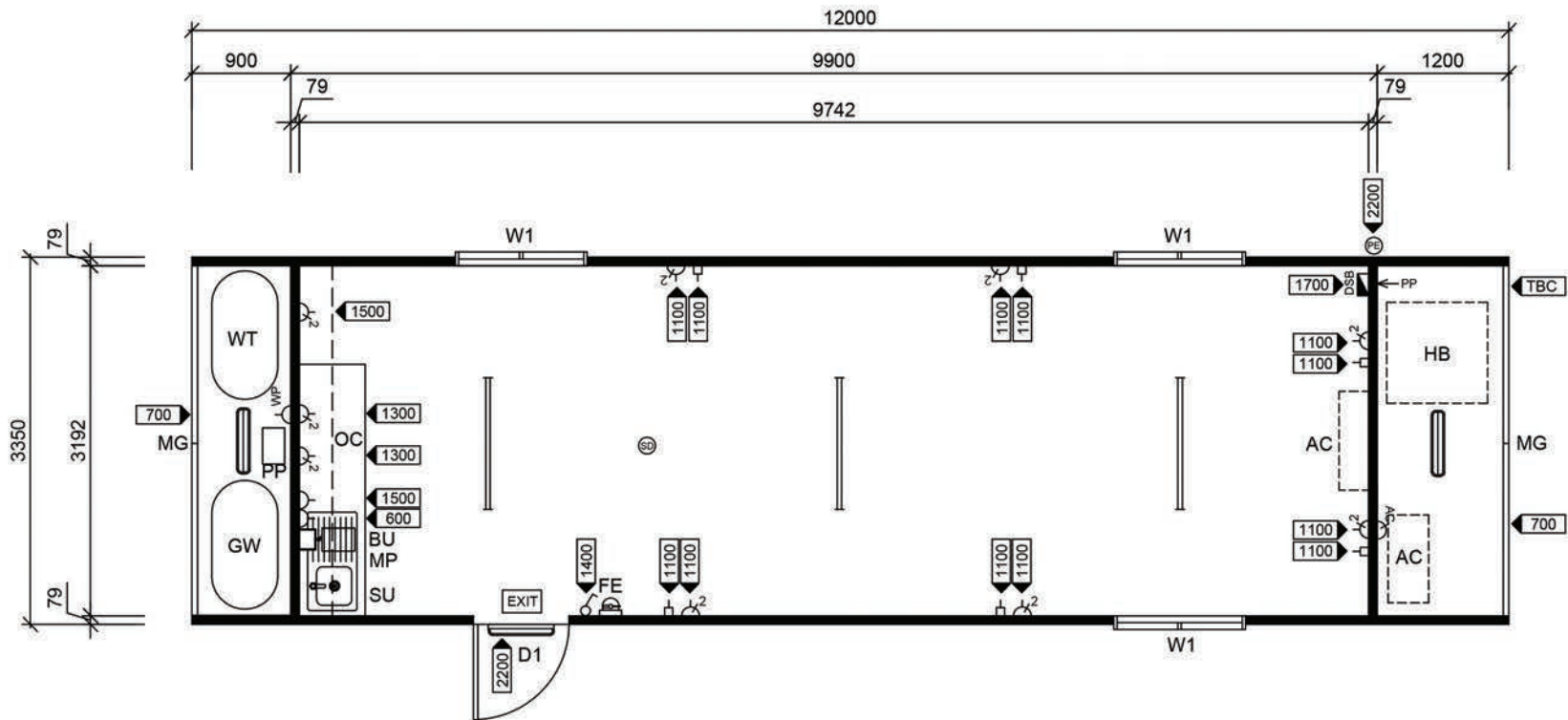
Electrical Connection

Hard-wired to the local switch board
10A power point on the side of enclosure for AUX loads
Backup generator can be hard-wired directly to the HoneyBadger

Monitoring

RedEarth monitoring system included with 4G SIM
Customer monitoring on mobile device and PC with PV Forecasting Built in
RedEarth remote monitoring service included





Solar Facility

The highlights of the standard features.

Standard features included in each Solar Facility

- 2040x920mm External Metal Clad Door, Glass Viewing Panel With Crimsafe Security Screen Over, Door Closer, Entrance Lockset.
- 3 x 1200x1200mm Sliding Glass Window, External Full Cover Crimsafe Mesh Security Screen, Internal Roller Blinds.
- 1 x 5.0kw Inverter Reverse Cycle Split System Air Conditioner.
- 1 x 2300mm Bench Top & Splashback, Single Drawer & Cupboards Under, Single Bowl Single Drainer Sink (Cold).
- 1 x 3190mm Overhead Cupboards.
- 1 x 3L Boiling Water Unit - Wall Mounted.
- 1 x Macerator Pump - Under Sink.
- 1 x 4.5kg DCP Fire Extinguisher & Sign.
- 1 x 650L Potable Water Slimline Tank
- 1 x 650L Grey Water Slimline Tank
- 1 x WaterPro Pressure Pump
- 2 x Double Mesh Gates

Construction Notes

- 75mm Steel Frame Construction.
- 200x75mm PFC Bearers.
- C10015 Floor Joists @ 600mm Ctrs.
- 19mm T&G F11 Plywood Flooring.
- 2mm Commercial Vinyl Floor Covering, Coved 100mm Up Walls.
- 2400mm Internal Ceiling Height.
- Pre-finished Plywood Internal Wall & Ceiling Lining With PVC Joiners , Cornice, Skirting & Corner Moulds.
- R2.0 Wall Batt, R1.8 Ceiling Batt & R2.3 Roof Blanket Insulation.
- Colorbond 'Panelrib' Profile Horizontal Wall Cladding.
- Colorbond 'Trimdek' Profile Roof Sheeting.
- Colorbond Barge Capping With Stop Ends.

Electrical Specifications

- 1 x Metal Lockable Distribution Board, Double Pole 10kA Rated Main Switch, Double Pole 10kA Rated Breakers With Cirlock Breakers, Light Testing Point & Emergency Light Test Kit.
- 1 x RedEarth Energy 'Honeybadger 10' Off Grid Power System.
- 12 x Hyundai 390 Watt Solar Panels
- 1 x Plug In Electrical Point Of Entry
- 1 x Light Switch (Double Pole)
- 2 x 10amp Single GPO (Double Pole)
- 9 x 10amp Double GPO (Double Pole)
- 1 x External 10amp Single GPO (Double Pole)
- 1 x External Isolator Switch - AC (Double Pole)
- 6 x Draw Wire With Blank Plate
- 3 x 1200mm LED External Light Fitting.
- 3 x 600mm LED External Light Fitting.
- 1 x Smoke Detector.
- 1 x PE Cell.



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