



# Helping Australians Gain INDEPENDENCE



## OFF GRID - REMOTE POWER - AGRICULTURAL

### AUSTRALIAN MADE



Australian design, manufacturing and support like no other! From manufacturing of the cabinets locally right through to engineering to the highest standards and construction of the frame we can proudly say it has been built local!

Even our battery storage solution is Australian manufactured and comes with industry leading warranty and performance.

### LOCAL WARRANTY



Our systems come with a full 10 year warranty on all components. We also use the only battery in Australia that comes with a mobile use warranty!

### BUILT TOUGH



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### SMALL HOMES



The CES I-5000 is the baby of our range. For customers that do not have a load often exceeding 5000w of peak draw this may be the perfect system for you. The I-5000 benefits from having ample room for battery storage. Start with 1x 5.1KWH Aussie made MPS battery or build your capacity up to a whopping 30.6kwh of capacity within the cabinet.

### CES-I-5000

### MEDIUM SIZE HOMES



For customers looking for a system with a bit more punch than the CES -I-8000 may be the option for you.

With up to 8kw of continuous output this option will give most small homes reliable energy delivery without the need for the generator to be called on for load assist.

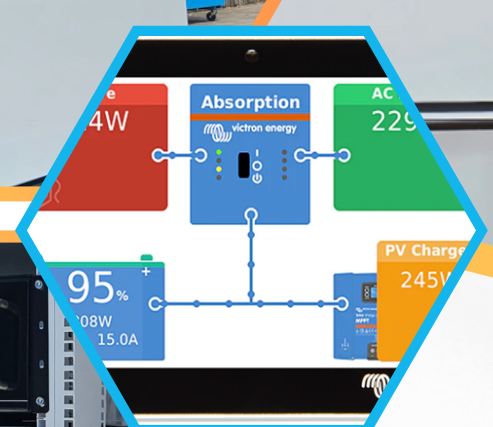
### CES-I-8000

### LARGER ENERGY USERS



The powerhouse of our CES energy Solutions, The CES-I-10000 can deliver up to a 10kw continuous peak output with a massive surge rating of 20kw. This system is the perfect choice for medium to larger homes and offers plenty of expandability as your energy needs change.

### CES-I-10000



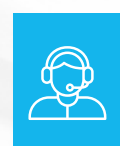
# BUILT FOR AUSTRALIA

Built to tackle tough conditions while offering all the bells and whistles of a modern instant off grid energy solution.



## OFF SITE MONITORING

Know what your system is doing both on and off site with the latest in remote monitoring!



## SUPPORT

Local Australian support via network of off grid technicians. Our after-sales support program is second to none.



## AUTOMATION

Integrates with remote start generators for the ultimate in hands free running. Perfect for remote locations!



## 24 HOUR ENERGY

No grid? no worries! our solution will keep you powered with reliable renewable energy for years to come.



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# THINKING OFF GRID? LET US MAKE YOUR OFF GRID JOURNEY FUN AND STRESS FREE!

Our team of consultants will guide you through the process while explaining every step. We understand the need to do the job once and do it right to ensure your energy solution is reliable and up to the task!



## Thorough Consultation

Obligation free assessments are offered to all of our customers to ensure your off-grid solution will live up to the task at hand. We consider your current energy needs along with future energy needs to make sure your investment will meet your requirements.

Our consultants will provide you with a detailed complimentary report and package proposal to make sure the solution we put together meets all of your needs.

## Who is Certified Energy?

Certified Energy Solutions has a combined industry knowledge of over 50 years. Our directors are comprised of Craig Batten and Daniel Winkler whom both have over a decade under their belts within the industry along with direct involvement of working with Australian manufacturers in the renewable energy industry.

Experience ranging from large scale solar and storage projects right through to remote power stations we are sure to have the right solution for you.

Our team of consultants Paul and Goran have been providing off grid design and consultation services for over 10 years and are exceptionally skilled with their thorough approach.

## Our Services



### REMOTE MONITORING AND PERFORMANCE

Our systems are all connected via a central data base allowing us to monitor performance and system operational details. Think of it like your off grid systems guardian angel!

Having remote access allows us to ensure your system is running efficiently and should anything go wrong we can quickly diagnose the issue to get you up and running in no time!



### GUARANTEED SUPPORT

When it comes to selecting your installer, an important factor is often overlooked in favor of Price. Should you end up needing emergency support for your system how confident are you with your selected installer?

We welcome our customers to CES as family and will always have your best interests at heart when you need us most!



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**ONLY THE BEST HARDWARE**

# WHEN QUALITY MATTERS

*When it comes to reliable power the term "you get what you pay for" plays a big part in making sure your system remains reliable when you need it most. Our off-grid system's use only the best hardware for trouble free energy.*

## OFF GRID SYSTEM WARRANTY

- ✓ Victron 10 Year Extended warranty
- ✓ MPS battery 10 year warranty.
- ✓ PYLONTECH battery 10 year warranty.
- ✓ REDEARTH battery 10 year warranty
- ✓ 10 Year installation / workmanship warranty.

## PANELS / GENERATOR WARRANTY

- ✓ KUBOTA Generator warranty- 2 Years or 2000 Hours.
- ✓ Panel manufacturer warranty varies between options. Enquire for more information



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# MONITORING MADE EASY WITH VRM PORTAL

Our detailed monitoring package allows you to check on your systems performance both on and off site!  
All systems include a built in touch screen color control plus internet integration service for remote access.

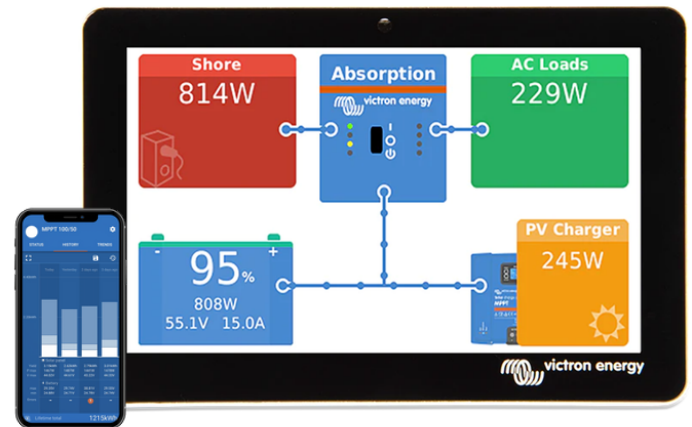
## MONITORING LOCAL

Our systems include a Victron touch screen monitoring solution allowing you to check on real time vital information, Control generator integration and link to an online VRM command center.

The seven inch touch screen displays give an instant overview of your system and allow to adjust settings in the blink of an eye.

Understanding how your energy system is performing will ensure reliable operation with no surprises!

Victron also allows use of local Bluetooth connect features so you can stream live data direct to your mobile device!

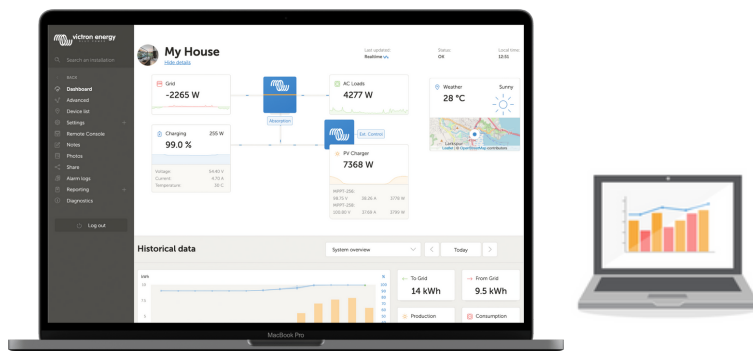


## ONLINE VRM MONITORING

Easily check the shore power connection and battery temperatures, switch on the inverter, (auto)start/stop generators or even set quiet periods to avoid starting the generator in the middle of the night. With VRM you can change any setting, follow up on alarms, perform diagnostic checks and resolve challenges from wherever you are.

Monitor the battery state of charge, power consumption, power harvest from solar, generator and mains in real-time. Optimize the energy harvest and usage with history graphs and detailed analytical reports.

**#REQUIRES INTERNET ACCESS ON SITE FOR REMOTE ACCESS!**



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Victron Energy

## RELIABLE HARD WORKING OFF GRID HARDWARE

Victron has been a major contributor to off grid components since 1975 and manufacturing is based out of the Netherlands. They know the importance of hardware that you can rely on. Their global footing means you will always have manufacturer support should you need it. In our vast experience Victron is by far one of the best products on the market.

### THE HEART OF THE SYSTEM

Victron is a company that designs and manufactures power conversion equipment, including sinewave inverters, sinewave inverterchargers, battery chargers, DC-DC converters, transfer switches, battery monitors and more. The company was founded in 1975 by Reinout Vader and is based in Almere-Haven in The Netherlands. Victron has a strong reputation for innovation, reliability, and build quality, and is known for focusing more on the off-grid market.

We have elected to use Victron not only for its reliability and features, but also for its unparalleled Australian support. When recommending a product for our customers it is essential that we are also confident in the hardware.

### INDEPENDENCE AVAILABLE IN

- ✓ **5KW Output**
- ✓ **8KW Output**
- ✓ **10KW Output**



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## MULTIPLE OPTIONS FOR ALL BUDGETS

The Independence range of off grid solutions offered by Certified Energy offer a secured and lockable Australian made stainless steel cabinet with pearl white powder coating to ensure it stands up to any challenge and reflects heat absorption. The vermin proof chassis is designed for multiple configurations and maximum airflow for excellent thermals.



## LOOKING FOR A TOUGH OFF GRID?

The independence range offer's our customers just that!

Building an off-grid home? powering a pump on a farm? then this may be the Aussie made solution you have been looking for.

The platform has been designed to allow multiple configurations. What this means is you can start small and then build big as budget allows.

This system comes with a 450/200 MPPT as standard allowing up to 4x Directions for solar panels and up to 15kw of solar.

The Independence battery capacity also supports 1x Battery right up to 6x Batteries in the same chassis.

Should you find you need more battery capacity we can also provide an additional cabinet which allows a further 9x Batteries to be added to the system.

Investing in quality solar hardware should be available to all Australian's and this is why we have adopted a modular approach.

Speak with one of our dedicated off grid designers to ensure your new system is configured to meet your current and future energy needs.



OR



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# PRISMATIC LFP LITHIUM BATTERY STORAGE

Mictronix Power Systems (MPS) is an Australian manufacturer of high quality self-managed LFP batteries and battery cabinets for Australian conditions. Quality, reliability and ingenuity are hallmarks of everything they make for off-grid (SAPS) and grid connected (BESS) systems.



## 5.1KWH MPS LFP BATTERY

Mictronix Power Systems of Sydney, Australia was established by Anthony Micallef in 2019. Anthony is an electrician with accreditation in grid connected solar systems, grid connected batteries and stand-alone power systems. As an installer of off-grid systems he has an insider's understanding of the market, products and industry regulations.

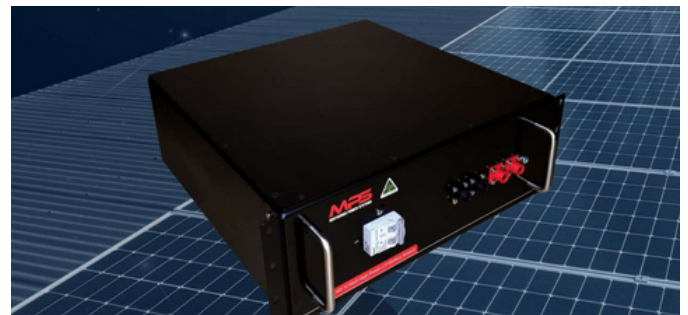
MPS began manufacturing simple and clever products to improve quality, exceed regulations and reduce installation times.

But, Anthony was interested in batteries since he was a kid and was inspired to build his first lithium prototype in 2009.

MPS wanted better quality and performance from a self-managed lithium battery, so they started building their own lithium batteries.

With constant improvement, their Australian made lithium battery evolved into the MPS 48-5.1. It is specifically designed to deliver superior performance and reliability in harsh Australian conditions. This LFP rack mount battery module utilizes the latest cell technology and is being installed in residential and commercial systems.

Aside from being an Australian made product the MPS battery is also one of the few options on the market that are covered under warranty for mobile applications! This made the MPS battery our go to choice for our mobile off grid system.



## BATTERY CONFIGURATIONS

- 1X 5.1KWH [5.1KWH]
- 2X 5.1KWH [10.2KWH]
- 3X 5.1KWH [15.3KWH]
- 4X 5.1KWH [20.4KWH]
- 5X 5.1KWH [25.5KWH]
- 6X 5.1KWH [30.6KWH]



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**COMPATIBLE  
WITH CUSTOM  
OFF GRID**

# AUSTRALIAN MADE REDEARTH ENERGY!

Our custom off grid solutions are compatible with the RedEarth Energy Vault battery tower. The Troppo 4.1kwh LFP Battery has some great technology built in right down to the built in BMS solution developed by RedEarth.

The Troppo is a great choice when looking for a quality battery addition that is made right here in QLD.



## 4.1KWH TROPPO LFP BATTERY RedEarth ENERGY STORAGE

TRedEarth's own Troppo battery uses the safest lithium ion chemistry available, lithium ferro phosphate (LFP).

Combined with our latest battery management system, accessible 63A DC dual pole breaker on/off switch, and overcurrent protection device (OCPD), Troppo delivers a safe, highly efficient, and cost-effective service over the life of both residential and commercial installation, both on and off-grid.

Troppo optimizes any power generation source — solar, wind, grid, and generator — and includes a number of user-friendly features such as a handle for ease of installation and transport, and a digital display that shows voltage, current, and state of charge - making it easy to see how much electricity you have in your battery at a glance.



### BATTERY CONFIGURATIONS

The RedEarth Energy Vault comes in multiple configurations and can be multiplied for endless battery capacity configurations.

A minimum of 1x 4.1kwh battery through to 50kwh plus can be achieved with additional cabinets.



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# LEADING GLOBAL BRAND OPTION

US5000 is the latest Pylontech 48V LFP battery with bigger capacity at 4.8kWh modular and stronger functions for:

- (1) High current strike endurance
- (2) Dual active protection



Compact Size  
Minimum the footprint



Secured by self-developed cells, modules and BMS



High current strike endurance



Remote upgrade feature



10+ years  
Technical Proven



Be Expandable  
for Demand



Superior Low Failure Rate



10 Years Warranty

## 4.8KWH MPS LFP BATTERY

In June 2021, PYLONTECH became the first BESS company in China to pass the certificate of SII Earthquake Countermeasures from TUV Rheinland Japan. This was a measure the Japanese government introduced that signals that a battery storage system could withstand an earthquake. They were also awarded the Top Storage Brand in Italy and Spain in 2021 from EUPD Research, which surveyed installers with their awareness regarding product quality and service. EUPD Research is a consulting firm in the technology and health sector. They currently have 785 employees with their products available in at least 30 countries.

For customers looking for a more budget friendly option PYLONTECH can't be overlooked.

## BATTERY CONFIGURATIONS

- 1X 4.8KWH [4.8KWH]
- 2X 4.8KWH [9.6KWH]
- 3X 4.8KWH [14.4KWH]
- 4X 4.8KWH [19.2KWH]
- 5X 4.8KWH [24KWH]
- 6X 4.8KWH [28.8KWH]



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# MULTIPLE OPTIONS FOR ALL BUDGETS

We also offer bespoke custom off grid systems for customers that would prefer a more conventional style off grid solution. However, we offer these with a twist! Our back board style off grid solutions are built off site and tested prior to being dispatched to site for final installation! This saves the customer financially and also ensures that your new off grid system is ready to go when the time comes for installation!

## TRADITIONAL OFF GRID SOLUTION

Our custom off grid solutions allow the ultimate in flexibility to the end user. We can offer pre-assembled and factory tested solutions for both single phase and three phase applications.

Our off grid consultants can design a bespoke off grid solution to your exact needs with some of the most reliable standalone hardware available on the market with multiple options for battery storage.

### Configurations available.

- 5kw through to 50+ KW of output
- Multiple battery options supported

1. RedEarth Troppo 4.1kwh.
2. MPS 5kwh.
3. Pylontech 4.8kwh.

- 10 Year extended warranty on all hardware.
- Multiple MPPT configurations for PV [Solar Panel] input.
- Remote and local monitoring configurations.
- Built in Distribution board.
- Pre assembled on compliant back board.
- Built and installed by Off Grid certified installers.

The sky is the limit with our solutions. Reach out to us to go through a detailed off grid consultation and analysis of your energy needs.



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# EMERGENCY BACKUP SYSTEM READY FOR WHEN YOU NEED IT MOST!

An important component that is often overlooked with off grid solutions is a quality generator. While the sun is out and weather is fine your off grid system when sized correctly should be able to cover your daily energy needs without the need for a generator.

Throw some miserable weather at your solar panels and this is where your system may suffer. A back up generator is just that, if you need it the Kubota is ready and willing to assist.



## QUALITY GENERATOR WITH AUSTRALIAN SUPPORT

The Kubota GL9000 generator is a two-pole, silent-type, direct-coupled, single-phase diesel generator. The Kubota GL9000 generator has a capacity of 8.8kVA at 3000RPM, supplying 33.3 amps at 240 volts. The Kubota GL9000 diesel generator is a great choice for off-grid and solar back-up (homes and businesses), mobile businesses like food vans and pop-up shops and hire or rental companies.

Our digital models also feature a remote 2-wire auto start for solar back-ups. The Kubota GL9000 diesel generator is powered by our Kubota D722 engines, renowned worldwide for their high performance and reliability. Running a range time of 8.5 hours at full load, the Kubota GL9000 diesel generator is the perfect solution to your back-up power.



### Automated integration

The generator features an AutoStart integration that works seamlessly with our off grid solutions. Your system will know when to turn on the generator and when to turn it off.



### Automated load assist

In the event that you exceed your inverter output rating the generator will automatically fire up to help handle excessive peak loads. Keeping reliable energy demands power has never been so easy!



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# WELCOME TO CES EXCELLENT SERVICE WELL AFTER THE PURCHASE!

Our team takes pride in their workmanship and consultation services. Reach out to Certified Energy Solutions to see the Certified difference.

## OBLIGATION FREE DESIGN AND OFF GRID CONSULTATION SERVICES



## CONTACT OUR TEAM OF HIGHLY SKILLED OFF GRID CONSULTANTS



### OBLIGATION FREE DESIGN AND CONSULTATION

When it comes to designing or picking the right solution for your home we have you covered. Our experienced team specializes in off grid design and consultation and have a wealth of knowledge on the ready to help guide you through your energy journey. Reach out to us to book your obligation free energy assessment and design consultation. We look forward to making this an easy and fun process!



**Daniel Winkler**  
Director / Consultant



**Craig Batten**  
Director / Consultant



**Goran Svensson**  
OFF GRID DESIGN AND  
CONSULTATION



**Paul Newall**  
OFF GRID DESIGN AND  
CONSULTATION



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