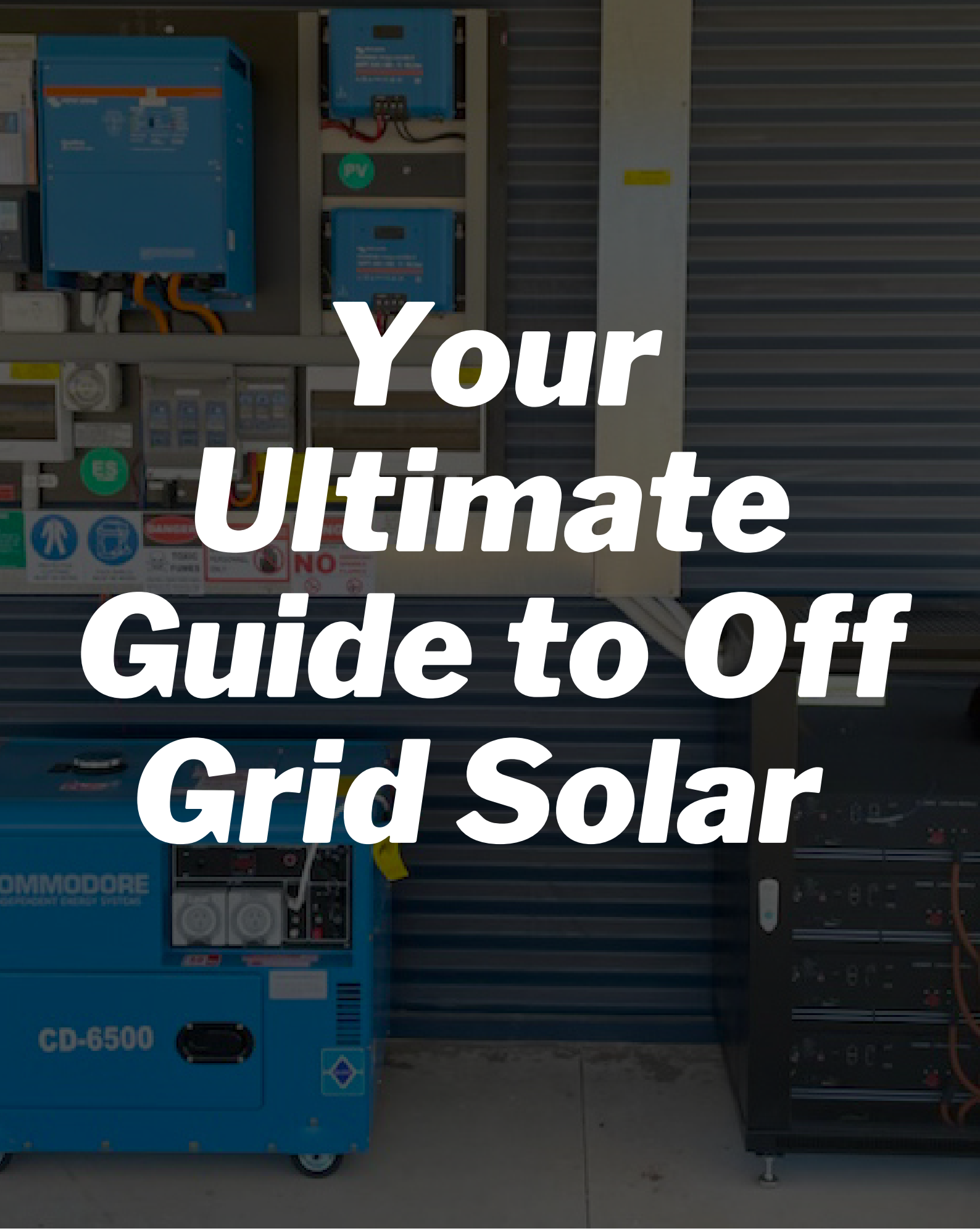


Your Ultimate Guide to Off Grid Solar

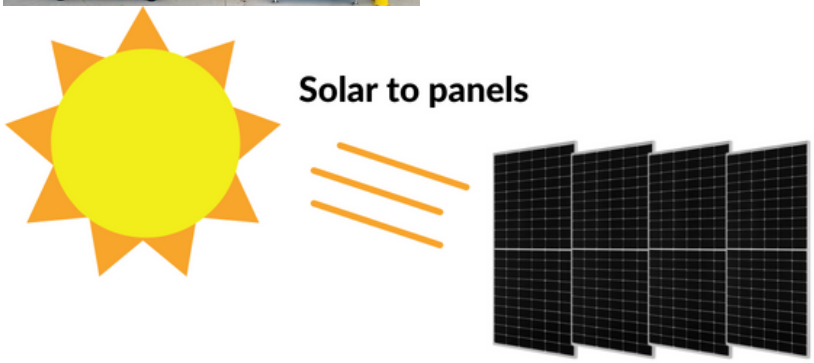
CLEAN ENERGY COUNCIL APPROVED SOLAR RETAILER

COMMODORE INDEPENDENT ENERGY SYSTEMS

GLOBAL COMPLIANCE CERTIFICATION GCC ISO 9001 Certified

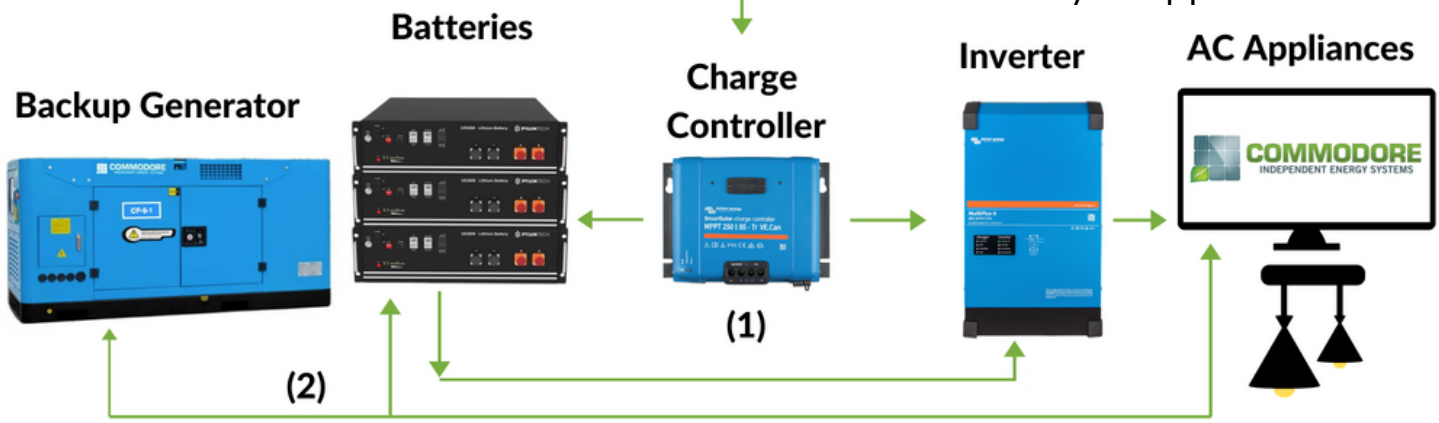
GLOBAL COMPLIANCE CERTIFICATION GCC ISO 45001 Certified

How Does Off Grid Work?



Variations:

1. Solar can either pass through the charge controller directly to appliances, or pass through the charge controller to the batteries for later use.
2. The generator may be used to charge batteries, or pass directly to appliances.



Starting from the Sun, it's sunlight hits the panels and creates an electric field which will pass through your charge controller to charge your batteries or to run your appliances.

When your battery bank is full to it's maximum capacity (100%), solar will still pass directly to the load with any excess Solar electricity sitting there on standby ready to be consumed

When your battery bank is anything but full, solar electricity passes through the systems charge controller, and charges your batteries which is power that can be used now, or later.

As a backup power source, a premium off grid diesel generator gives you peace of mind by automatically kicking in when the batteries get low.

How Can I Make Sure I don't Run Out of Power

I think we will all agree, the fear of running out of battery storage, and accordingly power is the biggest fear of anyone about to go Off Grid.

However.... **Do Not Fear**

We can make sure you never run out we can all breathe/relax now :-)

Option 1 : Generator with 1 day of battery storage (Most affordable option which is advised)
We size your system to have 1 day of battery autonomy (backup) with an automatic generator configured to turn on automatically thanks to Victron Energy's remote management unit called the "Cerbo" (can be connected to your phone and laptop).

Option 2: No generator with 3 days of battery storage (Less common)
Without a generator, you will require a minimum of 3 days battery storage in the case of poor weather. 3 days of battery backup will keep your house powered through the darker days. It is also recommended to increase your solar array by 25% when having no generator.

Finding The Right System

It's imperative to make sure that you or an Off Grid Solar Specialist completes an appliance load profile/calculation before you choose your solar system. Without it, you're guessing. It's like driving a car blindfolded.

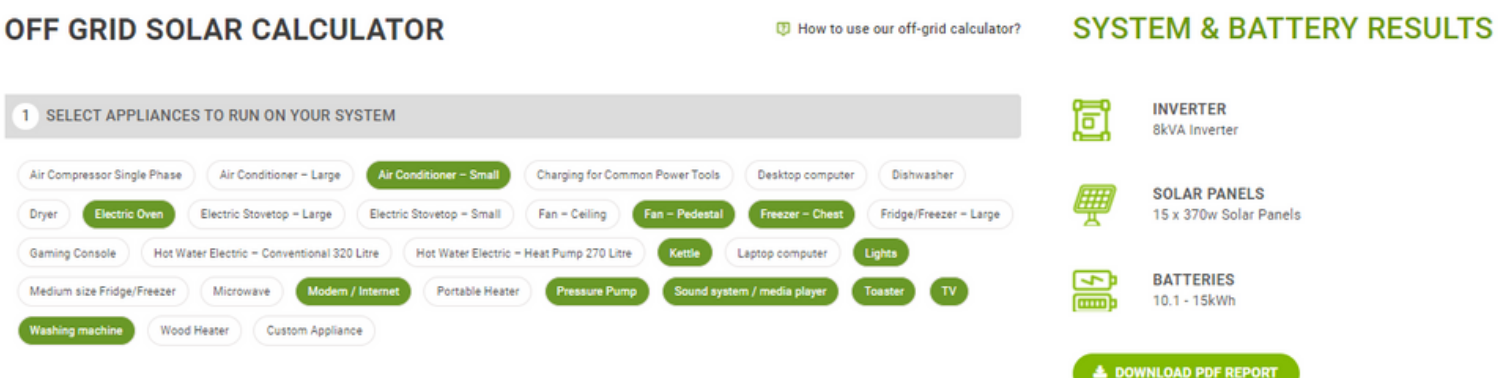
If you've got 5 minutes free, I'd highly recommend you use Commodore's Off Grid Solar Calculator to find out 2 really important figures:

1. Potential Load (Peak kW)
2. Expected Consumption (Average kWh per day)

The Potential Load is basically the amount of power you'd be using if you turned every appliance on at once. Sizing your inverter requires human interpretation of your potential load, we do this by having a conversation with you about your system. Whereas the Expected Consumption is how much power you're expected to use each day and confirms how much solar and battery storage you will need.

Complete your Off Grid Solar Calculation

https://www.commodoreaustralia.com.au/off-grid-calculator/



The Importance of Lifetime Support

When you're buying an off grid system it is so much more than buying XYZ system for a certain price, it's a long term business relationship.

You're investing in infrastructure for your home, weekender, commercial property it is imperative that the system does exactly what you need it to do. We are a family owned business and our motto is if we wouldn't sell it to our own family then we wouldn't sell it to you.

Just importantly, if you have any questions after you've received your system or even in 10 years time, you can rely on experts who are just a phone call away

If your system isn't working correctly and you need assistance troubleshooting then you will find out how good the after sales support is from the company that you've purchased from.

You'll be thanking yourself for buying through a company that offers exceptional after sales support with a trusted Australian reputation

If you can see yourself.....

With some good looking solar →

Pre wired board, batteries and a generator →

Then you've come to the right place

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