

Tips for selecting battery storage

There are some big issues people need to consider when deciding on installing battery storage for their home or office.

1. The first thing to think about is **how often you can cycle the battery**. Cycling the battery means using the energy stored and recharging it. For example, if the battery has a life of 3,000 cycles, means if you cycled it daily, that battery should last you 8.2 years (3,000 divided by 365 days per year). So, this becomes important when you want to know how long your battery will last. The HQ Energy Hub battery storage has been tested at 7,000 cycles. After the end of 19 years the Hub still had 80% capacity of use, which means whilst its capacity diminished slightly, it still had more capacity available than most batteries on the market now at their starting point.

2. The second thing to consider is **the size of the usable capacity**. Like all batteries, Lithium-ion are no different and cannot be fully charged or discharged, they have an upper and lower limit. But, unlike old technology these limits are higher and lower than in the past, giving greater usable capacity. The HQ Energy Hub is 10kWh and its usable size is 90%, giving you 9kWh of use. Therefore if the battery you are comparing is 7.2kWh, it won't give you that to use, it will be less. You need to understand what capacity is needed that will cover all your energy requirements, otherwise you will still be paying your energy supplier when the battery is depleted overnight.



3. The third aspect of importance is **the inverter size within the battery**. Many manufacturers will be mass producing batteries to cater for the larger population areas of the world, unfortunately, Australia is not one of them. Our power is at 240v (equal to the highest in the world) and therefore you need to consider what might be common to use at night time, when relying on the battery as your power source. If you have multiple appliances running, is the inverter large enough to cope with this need? Think about it, the TV is on, dinner is in the oven and you want a cup of tea, will your inverter cope with all this use at once? The HQ Energy Hub has a 3kW inverter (many only have 2KW), and our customers have reported back to us, this is enough to cater for their needs, even the air-conditioning.

Getting the right product is all about speaking to someone who knows what they are talking about, shifting your load, making suggestions about how you reduce your energy consumption and then matching your needs to the system that will work for you. We have now installed 15 AC (on grid) and 5 DC (off grid) Hub battery storage units since February, not only making All Energy HQ the leaders of this type of installation in the country, but no one else can match the knowledge gained by experience with this exciting new technology.

Our Energy Consultants are highly trained in solar (residential and commercial), battery storage, solar hot water and energy analysis and won't just sell you any system, but will sell the right system for your needs. Call now for a free no obligation chat on 07 5438 7200.