

# Salt water batteries for solar systems

What is a saltwater battery?

This battery uses saltwater produced from seawater as its electrolyte solution, which is how it gets its name. This allows for sodium to be the main conductor, being a much safer option than the lithium-ion or lithium iron phosphate option. Unlike traditional batteries, saltwater battery technology does not require preventive maintenance.

Are Saltwater batteries the future of energy storage?

Lithium-ion isn't the only storage technology available, however: saltwater batteries are another option that has been around in some form for years now and have the potential to impact the energy storage landscape in a big way in the coming years. What are saltwater batteries?

Do Saltwater batteries store electricity?

Just like any battery technology, saltwater batteries store electricity for use at a later time. The main difference between saltwater batteries and other energy storage options (for example, lithium-ion and lead-acid batteries) is their chemistry.

Who makes Saltwater batteries?

As much potential as saltwater batteries have, only one company has deeply ventured into the process of manufacturing and commercializing them: Aquion Energy. We will tell you a little bit more about them and what they mean for the saltwater battery industry. Aquion Energy is a company founded in 2008 by Jay F. Whitacre and Ted Wiley.

How much does a saltwater battery cost?

Saltwater batteries, such as the Aquion Aspen 48S, a 2.2 kWh battery stack, cost about \$2,200. So, an 11 kWh Aquion battery storage system would cost about \$11,000. Saltwater batteries use the Aqueous Hybrid Ion (AHI) technology, which makes them safe.

Should I buy a lithium battery or a saltwater solar panel?

These batteries work best if you have space for the larger size and want the safety advantage for your solar panel system, even at a higher price. Pick saltwater for the long-term safety despite lower energy density, or choose other market options like lithium if price and space matter more.



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