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Bahamas is one of those countries that belong in what is so-called the "Hurricane Alley". After many years of being hit by a hurricane, most of its power and electrical grid had been destroyed. This is why the Bahamas government is looking at renewable energy sources as a viable alternative and solar energy makes a valid case.

The Prime Minister of the Bahamas is leading the talks to focus more on empowering its solar energy market. Prior to this, the main energy source is with diesel-fueled generating stations that rely on overhead lines to feed power to the islands.

Due to the risk of storms and hurricanes, they are planning to build a solar grid that will be storm-proof. This push was started way back in 2017 and while the progress is slow, it is moving at a steady pace.

The long-term goal for the solar market in the Bahamas is to transform it into a green island. According to the government, while the country is small, they hope to set an example to the rest of the world that solar energy can be achieved.

With the continued commitment by the government to empower the solar energy market in the Bahamas, there are wide arrays of solar equipment suppliers that are available in the island. For those looking for more options, there are nearby countries that provide easy access to solar panels, solar components, and more.

**Wholesale Lithium-Ion Battery for PV Systems?** Simply put, a lithium-ion battery (commonly referred to as a Li-ion battery or LIB) is a type of rechargeable battery that is commonly used for portable electronics and electric vehicles. The popularity of this kind of battery is also steadily growing for military and aerospace applications.

In a lithium-ion battery, lithium ions move from the negative electrode through an electrolyte to the positive electrode during discharge, and back when charging. Additionally, lithium-ion batteries use an intercalated lithium compound as the material at the positive electrode and typically graphite at the negative electrode.

**Advantages of a Lithium-Ion Battery?** The lithium-ion battery offers so many benefits to a lot of electrical devices and appliances. The following are the most commonly known advantages of a lithium-ion battery:

It has a high energy density, and it has the potential for yet higher capacities. It does not need prolonged priming when new. One regular charge is all that is needed. It has a relatively low self-discharge. In fact, its self-discharge is less than half that of nickel-based batteries. It is a low-maintenance battery. No periodic discharge is needed, and there is also no memory. It has specialty cells that can provide a very high current to applications like power tools.

Why Are Lithium-Ion Batteries Better for Solar Products than Lead-Acid Batteries?The lead-acid battery is the oldest rechargeable battery in existence, and it also costs less upfront. However, despite that advantage, lead-acid batteries require regular maintenance and don't last as long. These characteristics are some things that aren't present in lithium-ion batteries.

For one thing, lead-acid batteries can only handle up to 50% depth of discharge. Beyond that point, there is a risk of negatively affecting their lifespan. On the other hand, lithium-ion batteries can handle deep discharges of 80% or more. This essentially means they feature a higher usable capacity.

And in addition to better storage for solar power, higher efficiency also comes with a faster rate of charge for lithium-ion batteries. They can handle a higher amperage from the charger, which means that they can be refilled much faster than lead-acid batteries.

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Web: <https://sumthingtasty.co.za/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

