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Solar Market Outlook in El SalvadorDespite being the smallest country in Central America, El Salvador is one of the strongest proponents of renewable energy production in the region. This is part of the government"s commitment to reduce emissions and to increase energy efficiency while utilizing the country"s tropical climate. The hot and humid weather, along with the high rate of sunshine per year, makes it the best location to utilize solar energy and other renewable energy sources. The average daily solar radiation in El Salvador is measured at 5 kWh/m2.

The National Energy Policy mandate in El Salvador has helped to boost its renewable energy production. Currently, it accounts for over 60% of the country"s energy production, although solar sources only contribute to 4% of that.

This is set to change in the coming years, though, as El Salvador is focused on increasing its solar PV installation capacity. They have helped increase PV generation capacity through auctions since 2014. Still, it cannot be denied that the solar market in El Salvador is still in the nascent stage and the government is looking at investment incentives and other policies to encourage development of solar PV.

There is currently a limited amount of domestic investments on solar generation plants in El Salvador. However, there are plenty of global suppliers and distributors that can be tapped at the moment for those looking to make solar installations.

The Port of Acajutla is the primary seaport in El Salvador that facilitates the handling and logistics of solar equipment and other goods (both import and export). This makes it convenient for anyone looking to order from top suppliers for solar installations.

In addition to this, there are other smaller ports like Port of La Union and Port of La Libertad

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.

Moreover, lithium-ion batteries are simply more efficient than lead-acid batteries, which means that more solar power can be stored and used in lithium-ion batteries. Lead-acid batteries are only 80%-85% efficient, depending on the model and condition. This means that if there are 1,000 watts of solar coming into the batteries, there are only 800--850 watts available after the charging and discharging process. Meanwhile, lithium-ion batteries are more than 95% efficient. In other words, using the same example, there will be over 950 watts of power available with lithium-ion batteries.

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