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Solar Market Outlook in GhanaIn the past decade, Ghana's ability to produce power is rapidly overpowered by its growing demand for power supply. This has prompted the government to adopt the UN Sustainable Development Goal, which is aimed at providing universal access to sustainable, accessible, and reliable energy sources. This eventually led to the focus on using renewable energy sources in the hopes of expanding economic opportunities in the country.

Ghana has made great strides in its effort to expand renewable energy, particularly the solar power market. It is one of the African countries with the highest rates of electricity access (72% in 2014). Ghana has also managed to export power to its neighboring countries such as Benin and Burkina Faso.

Due to the gradual increase in energy demand in Ghana, the government has focused its efforts on boosting its generation capacity. Solar is one of the primary renewable energy sources that the government has committed to tap and boost development on. Aside from addressing the growing demand for power, the government also wishes to take this step to reduce carbon emissions and take part in the global effort to fight climate change.

The solar manufacturers and companies in Ghana ran the gamut in terms of producing solar PVs, accessories, and other components. However, you can also find global and online distributors to supplement your options.

Solar water pump definitionA solar water pump is a mechanical pump powered by electricity generated using photovoltaic panels. It is popularly referred to as a solar water pumping system because it requires several key components to work. The critical constituents of a functional water pump include;

You can employ a solar water pump in various applications, including crop irrigation and drinking water supply. Currently, it is the most suitable option for all your pumping needs because it has several benefits. It is essentially more efficient to operate and less costly to maintain than traditional fossil fuel-powered pumps. More importantly, it is environmentally friendly primarily because it runs on renewable solar energy. How exactly does it work?

When most of us hear of a solar water pump, we assume it is pretty challenging to use. I can confidently tell you that its usage is pretty straightforward once you install all the necessary components. Figure 1 below offers an outline of the main things you need to have in place for your solar water pump to work efficiently;

The solar array absorbs solar energy and converts it into electric energy. The solar water pump's inverter converts the DC electric current output generated by the photovoltaic system into AC. The AC electric current powers the pump and propels water from the source to the intended destination.

It is also crucial to note that the inverters regulate the electricity output frequency and voltage instantaneously. These regulatory actions correspond to variations in sunlight intensity. In simple terms, the system switches to supplementary energy automatically when sunlight intensity weakens. Is this not enough to convince you that a solar water pumping system is worth its investment?

This type of pump is ideal for deep water sources such as wells. It can lift up to 650 feet of water provided the sunlight energy can generate sufficient electricity to power the pump. Consequently, it is advisable to pump and store water when the sun's intensity is at its best.

This pumping system is suitable for shallow water sources, including streams, storage tanks, and ponds. They can comfortably lift water with a depth of not more than 20 feet. If you intend to draw water beyond this depth, it would be best to settle for submersible pumps.

Solar Products Distributors Distributors are those companies working as big warehouses that served as the middlemen between the consumer/customer and the manufacturer. Typically, in distribution, a company is handling the sourcing, stocking and logistics but nowadays they are also helping manufacturers in product designing and solving other business conflicts.

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