Africa Solar Water Pumps Market By Type (Submersible & Surface), By Operation (AC Pumps, DC Pumps), By Capacity (Below 5 HP, 5 HP, 5-8 HP, Above 8 HP), By Application (Irrigation, Drinking Water, Industrial, Others), By Country (Morocco, Ethiopia, Kenya, South Africa, Egypt), Competition, Forecast and Opportunities, 2028

Market Report (3 business days) | 2023-10-03 | 127 pages | TechSci Research

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Report description:

Africa Solar Water Pumps Market is anticipated to grow at a good pace during the forecast period of 2024-2028, thanks to the rising investments by the African governments in an effort to lessen the dependence on fossil fuels and lower greenhouse gas emissions.

When compared to conventional water pumps, solar pumps are strong, easy to install, and require little maintenance. These pumps have a maximum lifespan of 20 years. However, the solar panels must occasionally be cleaned to function. These kinds of pumps are typically employed in areas where there is an electricity issue since a reliable power supply is otherwise unavailable. When solar energy hits PV panels, the solar panel uses Si wafers mounted inside the PV panels to transform the solar energy into electrical energy. The electrical motor is then powered by solar energy to run the pumping system utilizing cables. The pump starts to draw water from the earth and supplies it to the fields when the shaft that is fixed to it revolves.

Submersible Pump Type Segment to Dominate Market

Deep underground, submersible pumps have suction heads that are more than ten meters high. As a result, it can pull water from much deeper sources. The market for solar water pump systems is anticipated to grow significantly during the projected period as a result of government subsidies to farmers and solar pump manufacturers. Additionally, irrigation and the provision of drinkable water are the two main aspects of submersible solar pump systems. As these pumps don't generate greenhouse gases, the oil and gas industry are also utilizing them for chemical injection, which is promoting the expansion of solar power pump systems. Submersible pumps have a wide range of uses. In their most basic form, these pumps simply pump water up from the ground or a tank's bottom. Moreover, submersible pumps move wastewater, pushing smaller-sized materials that have been crushed up. Submersible pumps including water submersible pumps, sewage submersible pumps, solar submersible pumps, 12-volt

submersible pumps, and irrigation submersible pumps can be employed in several settings. The most common well pump types include electric submersible pumps that are 2, 3, 4, 6, 8, and 10 inches in length, air-driven bladder pumps, borehole pumps, and line shaft turbines.

Increasing Investments in Agriculture Applications Open New Opportunities

One of the key industries that significantly boosts a nation's GDP growth is agriculture. The demand for solar water pumping systems is expected to expand with the increase in agricultural investment because irrigation is a crucial factor for farmers. The potential for solar pumps is expected to grow in the next years as a result of the sector's increased modernization and the gradual transition to sustainable energy sources. For instance, on June 11, 2020, Kenya's National Budget announced an investment of USD 35 million to expand community household irrigation, which will enable individual farmers to double their agricultural yield by using these solar pumps since they are powered by the sun and money is saved on fuel. This announcement was a major boost for the irrigation sector. This could lead to an improvement in the smallholder farmer's income, resiliency, and crop productivity. As a result, chances for implementing such pump systems are created by investment expenses.

Africa still imports agri-products worth billions of dollars every year even though agriculture accounts for approximately half of the continent's workforce and accounts for 35% of its GDP. Africa will no longer need to import as many, thanks to the African Continental Free Trade Area (AfCFTA) accord, which will also significantly increase domestic processing capacity. A New Age for International Trade and Investment in Africa: The AfCFTA - By 2030, the free trade area-one of the biggest in the world in terms of both population and GDP-is expected to house 1.7 billion people and manage USD 6.7 trillion in consumer and company spending. Numerous African industries will undergo radical change as a result of the agreement but given agriculture's already significant economic contribution and enormous development potential, it stands to gain the most. The research from the Forum claims that because of its upstream and downstream connections, agriculture has a remarkable potential for boosting intra-African commerce, satisfying local demand, speeding GDP growth, creating new jobs, and enhancing inclusion. It will boost value addition, satisfy fresh local demand, and integrate smallholder farmers-who produce 80% of Africa's food-into larger supply networks.

Government Subsidies to Adopt Solar Energy

With the shift towards clean renewable energy sources, and to enhance the acceptance and adoption of solar-powered water pump systems, several government bodies have established various kinds of subsidies for solar-type water pumps. These subsidies reflect the shift towards clean renewable energy sources and clean energy. For instance, a subsidy on the pumps that aims to encourage their uptake to lessen the adverse environmental effects and reduce dependence on fossil fuel-powered pumps has a significant impact on the market in Africa. Globally, renewable energy (RE) is gaining momentum as a competitive alternative to conventional fossil fuels in both industrialized and developing regions, such as Africa. While many of the UN's 2030 Sustainable Development Goals may be achieved by both developing and rich countries with the help of RE (SDGs). To be able to implement the SDGs plan, the 2030 Agenda mandates that countries adjust their policies, governance, and commitments. As a result, the majority of nations have created national development plans that are in line with the SDGs. Many types of RE can provide realistic and effective energy solutions that will aid the continent's future sustainable development goals and economic growth by 2030, especially in light of its plentiful natural resources. The most plentiful natural resource in Africa is solar energy. Nowadays, only around half of the people in sub-Saharan Africa have access to electricity. Consumers around the world who do not have access to power pay nearly twice as much on average. Around 2 to 4% of the continent's GDP is lost annually due to power shortages, and in the near future, the substantial electrical needs will only increase. The power demand is predicted to increase by 3% annually as the population of sub-Saharan Africa is estimated to increase from 1 billion in 2018 to more than 2 billion in 2050. This considers rising electricity access and improved energy effectiveness.

Use of Solar Pumps in Improving Livelihood Propels Market Growth

The rise in product acceptance offers market participants and innovators in the solar pump sector the chance to take advantage of the commercial potential of these pumps and enhance rural residents' quality of life. Solar pump technology and business models are being made more accessible and inexpensive for smallholder farmers by market participants. Some market participants view the acceleration of growth as a potential chance to fundamentally alter the market landscape. Generic manufacturers operating in the market, for instance, sell solar pumps for as little as USD 200, while traditional players concentrate on large-scale irrigation products and are developing solar water pumps for small-scale irrigation, which is also gaining recognition from farmers, and are taking interest in cross-selling.

Market Segmentation

The Africa Solar Water Pumps Market is analyzed on the basis of type, operation, capacity, application, and country. Based on Type, the market is divided into Submersible & Surface. Based on Operation, the market is divided into AC Pumps, and DC Pumps. Based on Capacity, the market is divided into Below 5 HP; 5 HP; 5-8 HP & Above 8 HP. Based on Application, the market is divided into Irrigation, Drinking Water, Industrial & Others. Based on country, the market is divided into Morocco, Ethiopia, Kenya, South Africa, and Egypt.

Market Players

Major market players in the Africa Solar Water Pumps Market are CRI Pumps SA (Pty) Ltd, Grundfos, KarmSolar, Lorentz, SunCulture Kenya Ltd, Franklin Electric SA (Pty) Ltd, Cedar Solar, and Omega Solar Pumps.

Report Scope:

In this report, the Africa Solar Water Pumps Market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

- Africa Solar Water Pumps Market, By Type:
  - Submersible
  - Surface
- Africa Solar Water Pumps Market, By Operation:
  - AC Pumps
  - DC Pumps
- Africa Solar Water Pumps Market, By Capacity:
  - Below 5 HP
  - 5 HP
  - 5-8 HP
  - Above 8 HP
- Africa Solar Water Pumps Market, By Application:
  - Irrigation
  - Drinking Water
  - Industrial
  - Others
- Africa Solar Water Pumps Market, By Country:
  - Morocco
  - Ethiopia
  - Kenya
  - South Africa
  - Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Africa Solar Water Pumps Market.

Available Customizations:

Africa Solar Water Pumps Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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