

# **India Solar Water Pump Market by Type (Submersible Pump, Surface Pump), By Operation (AC Pump and DC Pump), By Capacity (Up to 5 HP, 5 HP to 10 HP, 10 HP to 20 HP, more than 20 HP), By Application (Agriculture, Water Treatment, Others), By Region, Competition, Forecast & Opportunities, 2018-2028**

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## **Abstracts**

The India Solar Water Pump Market is anticipated to grow robustly during the forecast period 2024-2028. A solar water pump is a device that uses solar energy to pump water for a variety of uses, including irrigation, communal water supply, and potable drinking water. Its use significantly reduced dependency on fossil fuels such as coal, gas, and diesel. These systems require minimal fuel-free maintenance and are environmentally friendly. It is one of the most effective uses of solar energy and is practical in most of the world's rural and isolated areas. It is projected that the demand for products in rural regions would expand along with the requirement for a consistent supply of clean water and agricultural operations.

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 during the forecast period as a result of the sector's increased modernization and the gradual transition to sustainable energy sources.

### **Government Support for Solar Energy Consumption Drives Market Development**

One of the widespread applications of solar energy is the solar water pump. In order to boost the acceptance and adoption of solar powered water pump systems, numerous

government bodies have established subsidies for solar type water pumps. These subsidies reflect the shift toward clean renewable energy sources and clean energy. For instance, a subsidy on the pumps that aims to encourage their uptake to lessen the negative environmental impacts and reducing reliance on fossil fuel-powered pumps has a significant impact on the market in India.

For instance, in India, government programs such as the Solar Rooftop Phase II program, CPSU (Government Producers) Scheme - Phase II, and Pradhan Mantri KisanUrja Suraksha Evam Utthan Mahabhiyan Yojana (PM-KUSUM) allow increased electricity generation and solar inclusion throughout the nation. Therefore, one of the elements driving this sector is government backing.

### Rising Trend of Technological Advancement in India Solar Water Pump Market

Technology development is a crucial trend that is becoming more and more popular in the solar water pump systems market. The companies in the solar water pump systems market are creating cutting-edge technologies to improve the efficiency of solar panels and water pump systems. For instance, a unidirectional solar water pump with a grid-tied power generating system was granted a patent by Shakthi Pumps Limited, an Indian manufacturer of water pumps and motors, in April 2022. By employing panels and producing extra electricity to feed the grid, the new technology ensures effective performance.

Lack of knowledge about the technology also impedes market expansion . Only 2% of India's smallholder farmers are aware of the government-funded programs that provides subsidies for these pumps. Due to this government plan, the market is expected to register a high CAGR during the forecast period.

### Market Segmentation

The India Solar Water Pumps Market is divided on the basis of type, capacity, application and operations. Based on type, the market is further bifurcated into submersible and surface. Based on capacity, the market is segmented into Below 5 HP, 5-8 HP and Above 8 HP. Based on application, the market is further segmented into irrigation, drinking water, industrial, and others. Based on operation, the market is further bifurcated into AC Pump and DC Pump.

### Market player

Major players operating in the India Solar Water Pump Market are Alpex Solar Pumps, Aqua Group, Bright Solar Limited, C.R.I. Pumps Private Limited, Crompton, Duke Plasto Technique Private Limited, EcoSoch Solar, Ecozen Solutions, Jackson Group, Novergy Energy Solutions Pvt. Ltd, Shakti Pumps, SunEdison Infrastructure, Surya International, Tata Power Solar, and Waaree Energies Ltd.

#### Report Scope:

The scope of the report is limited to solar water pumps and controllers excluding solar PV Panels.

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

#### India Solar Water Pump Market, By Type:

Submersible Pump

Surface Pump

#### India Solar Water Pump Market, By Operation:

AC Pump

DC Pump

#### India Solar Water Pump Market, By Capacity:

Up to 5 HP

5 HP to 10 HP

10 HP to 20 HP

More than 20 HP

#### India Solar Water Pump Market, By Application:

Agriculture

Water Treatment

Others

India Solar Water Pump Market, By Region:

West India

North India

South India

East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in India Solar Water Pump Market.

Available Customizations:

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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