

Solar Water Pump Systems Market to Expand at 12% CAGR and Exceed \$3 Billion by 2030, Driven by Asia Pacific

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/EINPresswire.com/ -- "The [solar water pump systems market](#) is experiencing

dynamic growth fueled by advancements in renewable energy and smart water management technologies. Key players in this

industry are focusing on innovative photovoltaic pumping solutions that enhance energy efficiency and support sustainable water access, particularly in agricultural and rural settings.

Understanding the current market landscape is essential for stakeholders aiming to capitalize on emerging opportunities and technological progress within this evolving sector.

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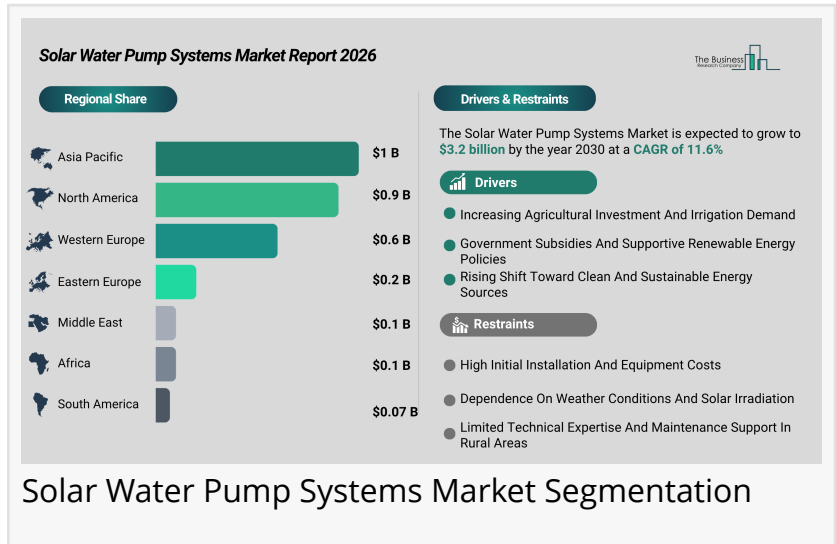
Expected to grow to \$3.27 billion in 2030 at a compound annual growth rate (CAGR) of 11.9%”

The Business Research Company

Market Leaders and Their Role in Solar Water Pump Systems

Grundfos Pumps India Pvt Ltd. stands out in the global landscape, leading sales in 2025 with a 1% market share according to The Business Research Company. This company's water solutions division offers a range of solar-

powered pumping systems, including irrigation pumps and energy-efficient water supply technologies designed to meet the needs of agricultural irrigation and rural water management.



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Market Structure and Competitive Position in Solar Water Pump Systems

The solar water pump systems market is fairly fragmented, with the top 10 companies collectively capturing only 5% of the total revenue in 2025.

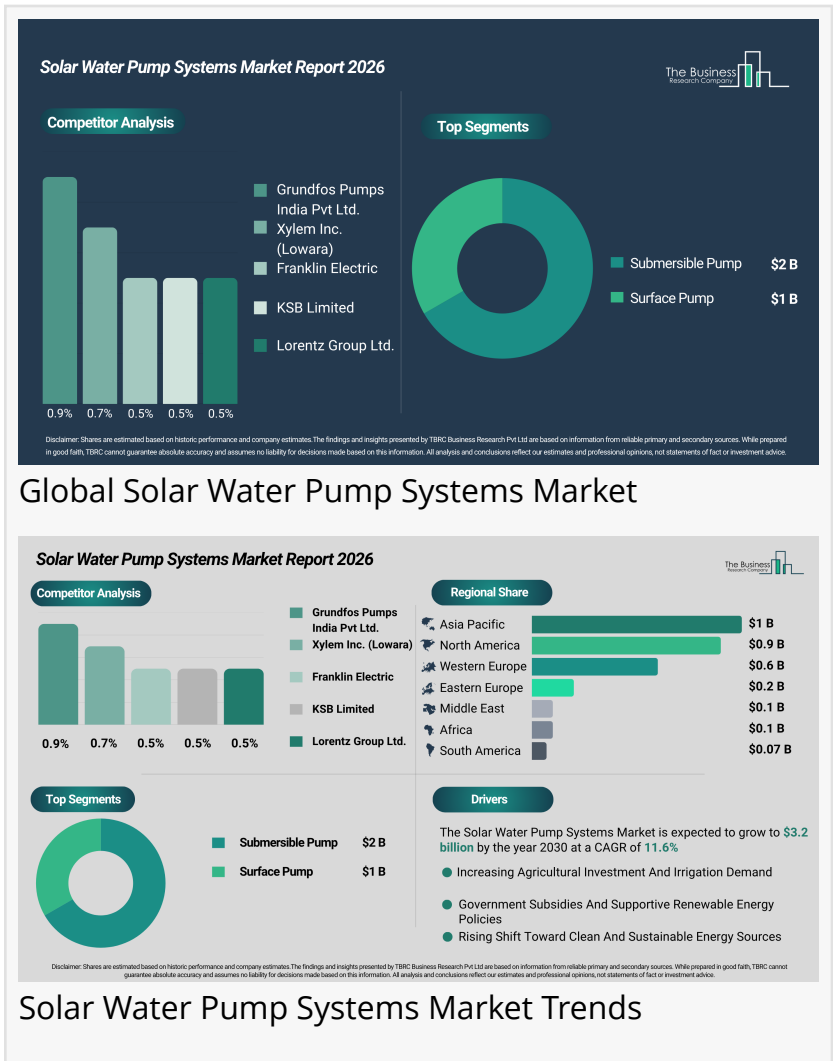
Moderate barriers to entry exist due to technological requirements such as integrating solar power, maintaining product efficiency, and ensuring reliable installation and operation. Leading firms maintain their market presence through diversified portfolios, strong distribution channels, strategic collaborations within agriculture and water sectors, and ongoing innovation in solar pumping technologies. As demand grows for renewable energy solutions in irrigation and sustainable water systems, expanding partnerships and technological advancements will be crucial in strengthening competitive edges.

Prominent Companies and Their Market Shares in 2025

- Grundfos Pumps India Pvt Ltd.: 1% market share
- Xylem Inc. (Lowara): 1% market share
- Franklin Electric: 1% market share
- KSB Limited: 0.5% market share
- Lorentz Group Ltd.: 0.5% market share
- Wilo SE: 0.5% market share
- Tata Power Company Limited: 0.4% market share
- Pedrollo S.p.A: 0.4% market share
- American West Windmill and Solar Company: 0.3% market share
- Hawksun Solar: 0.3% market share

Access The Detailed Solar Water Pump Systems Market Report Here

https://thebusinessresearchcompany.com/report/solar-water-pump-systems-global-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Oct PR



Solar Water Pump Systems Market Trends

Innovations Shaping the Solar Water Pump Systems Market

Smart solar pump drive systems are revolutionizing the market by optimizing energy use, maximizing solar power efficiency, and ensuring reliable water pumping in off-grid environments. A notable example is ABB Ltd.'s launch of the ACQ80 solar pump drive in April 2024, a sophisticated solution designed to enhance water pumping performance. Its features include a broad DC input range, integrated MPPT logic, and intelligent controls that enable pumps to operate efficiently even under low sunlight, reducing reliance on diesel and grid electricity.

Strategies Market Players Use to Maintain Leadership

Companies in the solar water pump system industry are continually improving pump efficiency and water accessibility, refining designs for enhanced durability and performance, and expanding infrastructure to support irrigation and rural water supply. Additionally, the adoption of smart monitoring technologies helps optimize system reliability and operational efficiency.

Market Valuation and Industry Share for Solar Water Pump Systems

The solar water pump systems market is projected to surpass \$3 billion by 2030. It forms a small segment within the larger Other General Purpose Machinery market, which is expected to reach about \$1,011 billion in the same year. Within the broader Machinery sector, valued at approximately \$5,280 billion by 2030, solar water pumps will represent nearly 0.1% of the total market. The industry is expected to grow at a compound annual growth rate (CAGR) of 12% through 2030.

Regions Leading Growth in Solar Water Pump Systems

By 2030, the Asia Pacific region is anticipated to be the largest market for solar water pump systems, valued at \$1.2 billion, increasing from \$0.7 billion in 2025 with a CAGR of 13%. This growth is driven by expanding solar-powered irrigation improving agricultural productivity, government-backed rural water infrastructure initiatives, efforts to replace diesel pumps, and increased off-grid water supply in remote locations. In the same period, the USA is projected to be the largest single country market, reaching \$0.6 billion from \$0.4 billion in 2025, growing at a 10% CAGR. Growth there will be fueled by sustainable water management investments on farms, solar-powered solutions for livestock and remote water needs, and financial incentives promoting clean energy adoption in rural communities.

Dominant Market Segment Within Solar Water Pump Systems

The market divides primarily into surface pumps and submersible pumps, with submersible pumps expected to dominate in 2030, accounting for 54% of the market or \$2 billion in value. This segment's growth stems from the demand for efficient groundwater extraction in water-scarce agricultural areas, solar-powered deep-well solutions, and corrosion-resistant designs known for their durability and low maintenance requirements.

Additional Market Segmentation in Solar Water Pump Systems

The market is further classified by power rating into categories below 3HP, between 3HP and

10HP, and above 10HP. It is also segmented by drive type, differentiating between AC motor-powered and DC motor-powered solar water pumps. End-user segments include agriculture, residential, commercial, and industrial applications.

Key Factors Propelling Growth in the Solar Water Pump Systems Market

Investment in agriculture and rising irrigation needs are key drivers, pushing demand for dependable water supply and affordable alternatives to diesel pumps—contributing an estimated 2.8% annual market growth. Government subsidies and supportive policies promoting renewable energy also play a vital role, facilitating lower installation costs and faster adoption, particularly in off-grid rural areas, driving about 2.7% annual growth. Lastly, the global shift toward cleaner, sustainable energy sources, influenced by climate awareness and rising fuel costs, encourages the use of renewable-powered pumping solutions, adding roughly 2.6% growth per year.

Future Growth Prospects and Market Opportunities Through 2030

The surface and submersible pump segments are expected to provide the greatest expansion potential, jointly adding over \$2 billion in market value by 2030. Surface pumps alone are projected to grow by \$1 billion alongside an equal increase for submersible pumps. Factors contributing to this growth include advancements in remote monitoring, smart pump controls, high-efficiency photovoltaic technology, investments in precision farming and smart irrigation, and durable designs that enhance reliability and water-use efficiency.

Supply Chain Overview and End User Base

Key raw material suppliers include companies such as LONGi Green Energy Technology Co., Ltd., JinkoSolar Holding Co., Ltd., Trina Solar Co., Ltd., Canadian Solar Inc., and others specializing in solar components and chemicals. Distribution networks are supported by wholesalers and distributors like WESCO International, Rexel S.A., Sonepar Group, and Graybar Electric Company. End users encompass a wide range of organizations including Grundfos Holding A/S, Lorentz GmbH, Franklin Electric Co., Shakti Pumps India Limited, Kirloskar Brothers Limited, Tata Power Solar Systems Limited, Waaree Energies Limited, and multiple others serving agricultural, residential, and industrial sectors.

Prominent Corporations Driving the Solar Water Pump Systems Market

The industry features major companies such as Grundfos Pumps India Pvt Ltd., Xylem Inc. (Lowara), Franklin Electric, KSB Limited, Lorentz Group Ltd., Wilo SE, Tata Power Company Limited, Pedrollo S.p.A, American West Windmill and Solar Company, Hawksun Solar, NAZ Solar Electric, C.R.I. Pumps Private Limited, Shenzhen Solartech Renewable Energy Co., SunPumps Inc., Apex Pumps, Solar Power & Pump Company LLC, Solartech Renewable Energy Co., Crompton Greaves Consumer Electricals Limited, Jain Irrigation Systems Ltd., Kirloskar Brothers Limited, and Shakti Pumps India Ltd.

Our 2026 reports feature deeper market intelligence with market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables,

Excel-based forecasting dashboards, market hotspots infographics, key technologies and future trend analysis, and updated graphics and tables.

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The Business Research Company (www.thebusinessresearchcompany.com) is a renowned market intelligence firm specializing in company, market, and consumer research. With over 30,000+ reports spanning 27 industries and more than 60 geographies, their insights draw upon 1.5 million datasets, extensive secondary research, and interviews with industry leaders. They offer a range of tailored research packages such as Market Entry, Competitor Tracking, and Supplier & Distributor packages.

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Contact Information

The Business Research Company

Americas: +1 310-496-7795

Europe: +44 7882 955267

Asia & Others: +44 7882 955267 / +91 8897263534

Email: marketing@tbrc.info

Follow on LinkedIn: <https://in.linkedin.com/company/the-business-research-company>"

Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

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