

Trends in solar water pumps

What are the major market trends shaping the solar water pump systems market?

Asia-Pacific holds the largest market share and is also expected to be the fastest-growing region, owing to the massive increase in solar water pump system installations in countries like China and India. This section covers the major market trends shaping the Solar Water Pump Systems Market according to our research experts:

What is the global solar water pump market size?

The global solar water pump market size was USD 2.38 billion in 2020. The market is projected to grow from USD 2.86 billion in 2021 to USD 5.64 billion in 2028 at a CAGR of 10.2% in the 2021-2028 period.

How will solar water pump systems market grow by 2027?

Get a sample of this industry analysis as a free report PDF download. Images must be attributed to Mordor Intelligence. Solar Water Pump Systems Market is poised to grow at a CAGR of 5% by 2027. Increasing demand for clean energy pump systems is fostering Solar Water Pump Systems Market Growth.

What factors will drive the solar water pump market?

Factors such as increasing demand for clean energy pump systems and the supportive government incentives and tax rebates over the installation of solar water pump systems are expected to drive the market during the forecast period.

Why is the solar water pump market growing?

The rise in CAGR is attributable to this market's demand and growth, returning to pre-pandemic levels once the pandemic is over. A solar water pump is a system driven by solar energy and pumps water for many purposes, such as irrigation, community water supply, and potable drinking water, and has decreased its reliance on diesel, gas, or coal.

What are the key drivers of solar water pump systems market?

The key drivers of this market include government subsidies and incentives, decreasing cost of solar panels, rising electricity prices, and increased groundwater depletion. Global solar water pump systems market is segmented into by product type, power rating, design type, application, and region.

UK solar pump market held a substantial market share in 2023 owing to government initiatives to support with farmers with grants on the installation of solar irrigation systems and solar rooftop. Asia Pacific Solar Pump Market Trends. Asia Pacific solar pump market dominated the global market with the largest revenue share of 44.54% in 2023.

A review of solar water pumping system presents the current status of system technologies research and application. The study focuses on a different configuration of the water pumping system, types of motors, and

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pumps used according to different applications, PV systems, and control systems for the controlling of the whole pumping system, economic and ...

The market trends for Covid 19 solar water pumps reflect a decline. Fewer investments and changes in the economy are the causes of the decline. The demand and supply chains for solar water pumps are negatively impacted by COVID-19. Another tangible impact on this market is the price drop. The slowdown in mining, groundwater extraction, and ...

Key Trends and Success Strategies: A significant trend in the India solar water pump systems market is the increasing adoption of renewable energy solutions driven by government incentives and rural electrification programs. To succeed in this market, companies must focus on cost-effective production methods, robust after-sales service, and ...

The Market Report Covers Global Solar Water Pump Manufacturers and is Segmented by Pump Type (Surface Pump, Submersible Pump, and Other Pump Types), Application (Agriculture, Drinking Water Supply, and Other ...

This report offers a comprehensive analysis of the Solar Water Pump Systems market, covering market size, segmentation, regional insights, and future forecasts spanning from 2023 to 2033. It provides valuable insights on growth trends and key industry players.

Solar Water Pump Market Size, Share and Trends 2024 to 2034 The global solar water pump market is worth around USD 3.88 billion in 2024 and is expected to reach around ...

Global solar water pumps market revenue is poised to garner USD 4.5 billion by 2032 with a CAGR of 9.7% from 2023 to 2032; Asia-Pacific solar water pumps market value occupied around USD 792 million in 2022; Europe solar water pumps market growth will record a CAGR of more than 9% from 2023 to 2032

"The adoption of solar-powered water pumps is not just a trend; it's a necessity for sustainable agriculture. By harnessing the power of the sun, farmers can reduce costs, increase yields, and contribute to a healthier planet." - International Renewable Energy Agency (IRENA)

The terms "solar," "solar energy," "water pump," and "water pumping system" were chosen to be searched in the title, abstract, or keywords section. The bibliometric analysis is conducted using ...

Between May 2018 and May 2019, CLASP convened a technical working group to construct an industry roadmap for solar water pumps. This document identifies a series of technology improvements for remote monitoring systems and ...

The growth of the solar water pump systems market is fueled by advantageous governmental incentives for

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solar water pump installation. Around the world, governments are ...

The latest technology trends in solar water pump inverters are revolutionizing the way we harness solar energy for sustainable water management. From maximizing energy efficiency to enabling remote monitoring and control, these advancements pave the way for more efficient, reliable, and cost-effective water pumping systems. ...

Solar water pumps empower communities to access clean water sources without relying on centralized infrastructure. This trend will continue to grow, especially in remote and underserved areas. Conclusion. The future of 3-phase solar water pump technology holds immense promise for sustainable irrigation.

The India solar water pump market size reached USD 112.68 Million in 2024. Looking forward, IMARC Group expects the market to reach USD 221.54 Million by 2033, exhibiting a growth rate (CAGR) of 7.20% during 2025-2033. ... One of the most significant trends in the Indian solar water pump market is the growing traction of the Pradhan Mantri ...

the previous reporting round. TV, refrigeration unit and solar water pump sales all grew compared to the first half of the year, but global volumes of key appliance sales ... Efficiency for Access, GOGILA and Open Capital Advisors, Off-Grid Solar Market Trends Report 2022: Outlook 2030, 2022. 7 United States Environmental Protection Agency (2021 ...

As per a Bridge to India report, the total number of solar pumps installed as of April 2022 was 357,496, leaving immense scope for more rapid deployment of solar pumps in the country. Solar water pumps are crucial for agricultural applications as the agricultural sector alone accounts for roughly 18 per cent of India's electricity consumption.

The analysis of GHG emissions for different sectors shows that one of the main contributions, responsible for 25%, is electricity and heat production. An important aspect of electricity use concerns motor pumps, which are used for both urban water supply and agricultural water systems. Generally, the highest consumption corresponds to summer, when the ...

Notable trends in the forecast period include government incentives and subsidies for solar pump adoption, a shift towards direct current (DC) solar pumps, focus on modular and ...

Solar Water Pumps Approximately 95% of farmland in Sub-Saharan Africa and 60% in South Asia relies on unpredictable seasonal rain to meet water needs. SWPs--a clean, modern irrigation solution--have the potential to increase yields and crop diversity, build farmer resilience, and reduce greenhouse gas emissions from diesel pumps.

The global solar water pump market is projected to grow from \$2.86 billion in 2021 to \$5.64 billion in 2028 at a CAGR of 10.2% in forecast period, 2021-2028 ... and Sub-Saharan Africa. Subsequently, the solar powered

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water pump market trends have been heavily driven by government subsidies in India. For instance, as per Lightening Global Off ...

Solar water pumps are also being adopted for livestock and irrigation in Latin America, especially Brazil and Mexico where excellent solar resources can help raise agricultural productivity. ... Shifts in the Solar Pumps Market from 2020 ...

The solar water pumps market is expanding due to increasing demand for sustainable water solutions in agriculture and rural water supply. Solar-powered pumps now ...

Solar Water Pump Systems Market : Trends, Innovations, Growth, Challenges and opportunities By 2025 To 2032 | Grundfos, Lorentz, Shakti Pumps, CRI Pumps. 03-13-2025 06:10 AM CET | Energy & Environment

The global solar water pump market is expected to grow at a considerable CAGR of 5.8% during the forecast period (2021-2027). +91 780-304-0404. ... to shift trend towards solar PV by replacing diesel pumps. For instance, Under the ...

People do not need to panic due to the scarcity of water, as they can still enjoy water supply by this solar pump. Moreover, the water supplied by this pump is considered to be healthier and free of all contamination, fit for consumption by all living creatures. More volumes of water supply: A solar water pump can supply 2000 liters of water in ...

The water pump industry is undergoing significant transformation, driven by trends such as the introduction of smart technology, focus on energy efficiency, expansion of solar-powered pumps, implementation of IoT and remote monitoring, advancements in materials and durability, growth in variable speed pumps, and emphasis on water conservation ...

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