

Solar Water Pumps Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented 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 Region, Competition, 2018-2028

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Abstracts

Global Solar Water Pumps market was valued at USD 3.84 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 9.57% through 2028, the government's growing investments in efforts to lessen dependence on fossil fuels and lower greenhouse gas emissions have greatly boosted the use of solar pumps.

Key Market Drivers

Energy Cost Savings will help with Solar Water Pumps Market growth.

Energy cost savings are a compelling driver propelling the growth of the global solar water pumps market. As the world seeks sustainable and eco-friendly solutions, solar water pumps emerge as a key player in reducing operational expenses while concurrently addressing environmental concerns. Traditional water pumping systems, often reliant on fossil fuels or grid-based electricity, come with hefty ongoing costs. These expenses encompass fuel or electricity charges, maintenance, and, in some cases, even infrastructure development. In contrast, solar water pumps harness energy from the sun, a renewable and free resource, to power water pumping operations. This inherently lowers the day-to-day operational costs significantly.

Farmers stand to gain substantially from these energy cost savings. Agriculture is a water-intensive industry, and the use of conventional pumps can be financially burdensome due to high electricity or fuel costs. Solar water pumps offer a reprieve, especially in remote or off-grid areas where electricity is scarce or expensive to access. By harnessing solar energy, farmers can irrigate their fields efficiently and sustainably, ensuring crop health and maximizing yields while simultaneously minimizing energy expenses. This contributes to the overall economic viability of agriculture, particularly in regions heavily reliant on farming for livelihoods.

Moreover, as global energy prices continue to fluctuate, solar water pumps provide stability and predictability. The initial investment in solar infrastructure pays off over time as users experience significant reductions in their energy bills. This not only benefits individual farmers but also entire communities and industries reliant on water resources. In summary, energy cost savings are a pivotal driver in the global solar water pumps market. The prospect of reducing ongoing operational expenses, particularly in agriculture and remote areas, makes solar water pumps an economically and environmentally attractive choice. As societies increasingly prioritize sustainability and cost-effectiveness, the adoption of solar water pumps is expected to continue its upward trajectory, contributing to a greener and more efficient future for water pumping needs worldwide.

Rising Demand for Clean Energy Solutions Have Played a Crucial Role in The Growth of The Solar Water Pumps Market

The rising demand for clean energy solutions is a paramount driver behind the burgeoning growth of the global solar water pumps market. In an era marked by environmental consciousness and the imperative to reduce greenhouse gas emissions, solar water pumps have emerged as a beacon of sustainable progress and energy-efficient water management. One of the most compelling factors fuelling the adoption of solar water pumps is their environmentally friendly nature. Traditional water pumping systems, often reliant on fossil fuels or grid-connected electricity, emit carbon dioxide and contribute to air pollution. In contrast, solar water pumps harness the inexhaustible power of the sun to generate electricity, producing zero emissions. This eco-friendly aspect aligns perfectly with the global drive to combat climate change and transition towards cleaner energy sources.

Furthermore, the increasing awareness of the environmental impact of conventional energy sources has led to a growing preference for renewable alternatives. Solar water

pumps are a quintessential clean energy solution, as they tap into a readily available and sustainable energy source, namely sunlight. This makes them an attractive choice for individuals, businesses, and communities looking to reduce their carbon footprint while addressing pressing water pumping needs. Governments around the world are also taking proactive measures to promote clean energy adoption. Incentives, subsidies, and tax benefits are being offered to encourage the implementation of solar technologies, including solar water pumps. These financial incentives make solar water pumping systems more accessible and affordable, incentivizing their adoption on a larger scale.

Beyond environmental considerations, the rising demand for clean energy solutions dovetails with the need for energy independence and resilience. Solar water pumps are particularly valuable in remote or off-grid areas where access to reliable electricity is limited. By utilizing solar energy, these systems offer a reliable source of power for water pumping, reducing dependency on centralized energy grids and increasing resilience in the face of power outages or disruptions. In conclusion, the surging demand for clean energy solutions, driven by environmental awareness, government incentives, and the desire for energy independence, is a central force propelling the global solar water pumps market. As societies worldwide continue to prioritize sustainability and clean energy adoption, the solar water pumps market is poised for sustained growth, contributing to a greener and more environmentally responsible future for water pumping applications.

Key Market Challenges

Limited Pumping Capacity

Limited pumping capacity represents a notable challenge that has the potential to hamper the growth of the global solar water pumps market. While these systems offer numerous advantages, their suitability for specific applications and scalability is constrained by their inherent limitations in terms of pumping capacity. One of the primary limitations is that solar water pumps are typically designed for low to medium pumping requirements. These systems are well-suited for applications such as small-scale agriculture, livestock watering, and household water supply. However, when it comes to high-capacity or industrial-scale water pumping needs, solar water pumps may fall short.

In scenarios where large volumes of water need to be moved, such as industrial processes, municipal water supply, or large-scale irrigation, the capacity of traditional

electric or diesel pumps often surpasses that of solar water pumps. This means that multiple solar water pump systems or complex hybrid configurations may be required to meet the demand, increasing overall costs and system complexity. The limited pumping capacity of solar water pumps can also be problematic in regions where water scarcity is a significant concern. Adequate irrigation and water supply are vital for agriculture, and large-scale farming operations often require substantial water volumes. In such cases, solar water pumps may not be a practical solution, and users may resort to conventional pumps, which could be less energy-efficient and less environmentally friendly.

As the global demand for sustainable and clean energy solutions continues to grow, addressing the challenge of limited pumping capacity is essential for the widespread adoption of solar water pumps. Researchers and manufacturers are actively working to develop higher-capacity solar pump systems and improve the efficiency of existing ones. Additionally, for certain applications, integrating energy storage solutions like batteries can help ensure a more consistent water supply even during periods of low sunlight, enhancing the appeal of solar water pumps in situations where reliability and capacity are paramount.

High Initial Cost

The high initial cost of solar water pumps represents a significant impediment that can hamper the global market's growth. These systems offer numerous benefits, including environmental sustainability and long-term cost savings, but the upfront expense often discourages potential users. Solar water pump systems encompass components like solar panels, inverters, and storage solutions, all of which can be relatively expensive. The initial investment required can be a major deterrent, particularly for small-scale farmers, rural communities, and individuals in developing regions with limited financial resources.

For many users, especially those with modest budgets, the affordability of solar water pumps remains a challenge. Limited access to financing options or difficulties in securing loans further exacerbate the problem. Additionally, the extended period required to realize a return on investment (ROI) can discourage users from seeking quicker financial gains. In regions where conventional water pumps powered by grid electricity or fossil fuels are established and deemed more financially accessible, the high upfront cost of solar water pumps can deter adoption. This is especially true when users perceive the payback period as too lengthy.

Addressing this challenge is crucial for widespread adoption. Governments, NGOs, and international organizations often provide financial incentives, subsidies, or grants to alleviate the initial cost burden. Innovative financing models, such as pay-as-you-go and lease-to-own arrangements, are emerging to make solar water pumps more accessible. As technology advances and economies of scale come into play, the initial cost of solar water pump systems is expected to decrease over time, making them a more financially viable option for a broader range of users and ultimately driving their adoption in the global market.

Key Market Trends

Irrigation Modernization

Irrigation modernization is emerging as a pivotal driver propelling the growth of the global solar water pumps market. This trend reflects a fundamental shift in agricultural practices toward more efficient and sustainable methods of crop irrigation. Traditional irrigation methods, such as flood irrigation, can be inefficient and wasteful, often leading to excessive water consumption. In contrast, modern irrigation practices, including drip and sprinkler systems, are designed to deliver water directly to the root zone of plants, minimizing water wastage and maximizing crop yields. This shift towards precision irrigation not only conserves water but also enhances agricultural productivity.

Solar water pumps are ideally suited to power these modern irrigation systems. They provide a consistent and reliable source of energy to drive water through pipelines and hoses, ensuring precise water distribution to crops. Here's how irrigation modernization drives the global solar water pumps market

Water Efficiency: Modern irrigation systems require a reliable and consistent supply of water. Solar water pumps can provide this while minimizing water wastage, making them an integral component of water-efficient agriculture.

Energy Cost Savings: By using solar energy to power water pumps, farmers can significantly reduce their energy costs compared to diesel or grid-powered pumps. This financial incentive encourages the adoption of solar water pump systems.

In conclusion, irrigation modernization is a powerful driver for the global solar water pumps market. As agriculture worldwide evolves towards more efficient and sustainable practices, the demand for solar-powered water pumps is expected to continue to rise, further contributing to the growth of this dynamic market.

Smart Solar Pumping Systems

Smart solar pumping systems are poised to drive significant growth in the global solar

water pumps market. These systems, which combine solar technology with advanced monitoring and control capabilities, are transforming the way water is pumped and supplied across various sectors, including agriculture, residential, and commercial applications. One of the primary factors fueling the adoption of smart solar pumping systems is their ability to optimize efficiency. These systems employ sensors and real-time data analytics to monitor factors such as solar irradiance, water demand, and system performance. By dynamically adjusting pump speed and energy consumption based on these variables, smart systems ensure that water is delivered precisely when and where it's needed, minimizing waste and maximizing energy efficiency.

Energy savings are a key driver of market growth. Smart solar pumping systems can adapt to changing solar conditions, operating at higher capacities when sunlight is abundant and reducing power consumption during cloudy periods. This results in significant cost savings over the long term, making solar water pumps an economically attractive choice for users. Remote monitoring and control capabilities are another compelling feature. Users can access and manage these systems through user-friendly interfaces, even from remote locations. This is especially valuable for farmers and operators in off-grid or geographically dispersed areas, allowing them to efficiently manage their water supply, adjust settings, and diagnose issues without being physically present at the pump site.

Predictive maintenance is also a significant advantage. Smart systems can detect potential problems or faults early, sending alerts to users, which allows for proactive maintenance. This minimizes downtime, extends the system's lifespan, and reduces repair costs. Furthermore, the data-driven insights provided by smart solar pumping systems enable users to make informed decisions about water usage, resource management, and system optimization. As sustainable and efficient water pumping solutions gain prominence, smart solar pumping systems are set to play a pivotal role in advancing the global solar water pumps market, offering not only economic benefits but also environmental advantages by conserving resources and reducing carbon emissions.

Segmental Insights

Type Insights

The market's largest contributor will be the submersible Pump. submersible Pump is expected to hold largest market share due to better energy efficiency, it frequently depends on the water. In wells and boreholes, submersible pumps are fully submerged

in the water source. Moreover, submersible pumps can be located horizontally inside water reservoirs with the minimum depth of 0.5 m parallelly fastened and equipped with a cooling sleeve to adequately cool the motor, which increases efficiency by using less power to move the fluid via the pump's liquid path.

Regional Insights

The Asia Pacific has established itself as the leader in the Global Solar Water Pumps Market with a significant revenue share in 2022.

Asia-Pacific solar pump market is analyzed across China, Japan, South Korea, Australia, and rest of Asia-Pacific. In Asia-Pacific, solar energy is widely used in generation of electricity for standalone systems and rural electrification. The growth of the Asia-Pacific solar pump market is driven by increase in government initiatives, such as Akshay Urja, which includes electrification of rural areas. These initiatives are expected to increase the demand for PV energy, as governments would distribute solar pump in rural areas. Such initiatives are expected to increase the demand for solar pump and contribute toward the growth of the market.

Key Market Players

Alpex Solar Pumps

Aqua Group

Bright Solar Limited

C.R.I. Pumps Private Limited

Crompton

LORENTZ

Dankoff Solar

Duke Plasto Technique Private Limited

EcoSoach

Ecozen Solutions

Report Scope:

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

Solar Water Pumps Market, By Type:

Submersible

Surface

Solar Water Pumps Market, By Operation:

AC Pumps

DC Pumps

Solar Water Pumps Market, By Capacity:

Below 5 HP

5 HP

5-8 HP

Above 8 HP

Solar Water Pumps Market, By Application:

Irrigation

Drinking Water

Industrial

Others

Solar Water Pumps Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

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

Available Customizations:

Global 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.3. Markets Covered
- 1.4. Years Considered for Study
- 1.5. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMERS

5. GLOBAL SOLAR WATER PUMPS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Submersible & Surface)
 - 5.2.2. By Operation (AC Pumps, DC Pumps)
 - 5.2.3. By Capacity (Below 5 HP; 5 HP; 5-8 HP & Above 8 HP)
 - 5.2.4. By Application (Irrigation, Drinking Water, Industrial & Others)
 - 5.2.5. By Region
- 5.3. By Company (2022)
- 5.4. Market Map

6. NORTH AMERICA SOLAR WATER PUMPS MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Operation

6.2.3. By Capacity

6.2.4. By Application

6.2.5. By Country

6.3. North America: Country Analysis

6.3.1. United States Solar Water Pumps Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Operation

6.3.1.2.3. By Capacity

6.3.1.2.4. By Application

6.3.2. Canada Solar Water Pumps Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By Operation

6.3.2.2.3. By Capacity

6.3.2.2.4. By Application

6.3.3. Mexico Solar Water Pumps Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Type

6.3.3.2.2. By Operation

6.3.3.2.3. By Capacity

6.3.3.2.4. By Application

7. ASIA-PACIFIC SOLAR WATER PUMPS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

- 7.2.1. By Type
- 7.2.2. By Operation
- 7.2.3. By Capacity
- 7.2.4. By Application
- 7.2.5. By Country
- 7.3. Asia-Pacific: Country Analysis
 - 7.3.1. China Solar Water Pumps Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Operation
 - 7.3.1.2.3. By Capacity
 - 7.3.1.2.4. By Application
 - 7.3.2. India Solar Water Pumps Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Operation
 - 7.3.2.2.3. By Capacity
 - 7.3.2.2.4. By Application
 - 7.3.3. Japan Solar Water Pumps Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Operation
 - 7.3.3.2.3. By Capacity
 - 7.3.3.2.4. By Application
 - 7.3.4. South Korea Solar Water Pumps Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Operation
 - 7.3.4.2.3. By Capacity
 - 7.3.4.2.4. By Application
 - 7.3.5. Indonesia Solar Water Pumps Market Outlook

- 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
- 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Operation
 - 7.3.5.2.3. By Capacity
 - 7.3.5.2.4. By Application

8. EUROPE SOLAR WATER PUMPS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Operation
 - 8.2.3. By Capacity
 - 8.2.4. By Application
 - 8.2.5. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany Solar Water Pumps Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Operation
 - 8.3.1.2.3. By Capacity
 - 8.3.1.2.4. By Application
 - 8.3.2. United Kingdom Solar Water Pumps Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Operation
 - 8.3.2.2.3. By Capacity
 - 8.3.2.2.4. By Application
 - 8.3.3. France Solar Water Pumps Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast

- 8.3.3.2.1. By Type
- 8.3.3.2.2. By Operation
- 8.3.3.2.3. By Capacity
- 8.3.3.2.4. By Application
- 8.3.4. Russia Solar Water Pumps Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Operation
 - 8.3.4.2.3. By Capacity
 - 8.3.4.2.4. By Application
- 8.3.5. Spain Solar Water Pumps Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Operation
 - 8.3.5.2.3. By Capacity
 - 8.3.5.2.4. By Application

9. SOUTH AMERICA SOLAR WATER PUMPS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Operation
 - 9.2.3. By Capacity
 - 9.2.4. By Application
 - 9.2.5. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Solar Water Pumps Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Operation
 - 9.3.1.2.3. By Capacity

- 9.3.1.2.4. By Application
- 9.3.2. Argentina Solar Water Pumps Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Operation
 - 9.3.2.2.3. By Capacity
 - 9.3.2.2.4. By Application

10. MIDDLE EAST & AFRICA SOLAR WATER PUMPS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Operation
 - 10.2.3. By Capacity
 - 10.2.4. By Application
 - 10.2.5. By Country
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia Solar Water Pumps Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By Operation
 - 10.3.1.2.3. By Capacity
 - 10.3.1.2.4. By Application
 - 10.3.2. South Africa Solar Water Pumps Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Operation
 - 10.3.2.2.3. By Capacity
 - 10.3.2.2.4. By Application
 - 10.3.3. UAE Solar Water Pumps Market Outlook
 - 10.3.3.1. Market Size & Forecast

- 10.3.3.1.1. By Value
- 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Operation
 - 10.3.3.2.3. By Capacity
 - 10.3.3.2.4. By Application
- 10.3.4. Israel Solar Water Pumps Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Type
 - 10.3.4.2.2. By Operation
 - 10.3.4.2.3. By Capacity
 - 10.3.4.2.4. By Application
- 10.3.5. Egypt Solar Water Pumps Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Type
 - 10.3.5.2.2. By Operation
 - 10.3.5.2.3. By Capacity
 - 10.3.5.2.4. By Application

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenge

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

- 13.1. Alpex Solar Pumps
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials (If Available)
 - 13.1.3. Recent Developments
 - 13.1.4. Key Personnel
 - 13.1.5. Key Product/Services
- 13.2. Aqua Group

- 13.2.1. Business Overview
- 13.2.2. Key Revenue and Financials
- 13.2.3. Recent Developments
- 13.2.4. Key Personnel
- 13.2.5. Key Product/Services
- 13.3. Bright Solar Limited
 - 13.3.1. Business Overview
 - 13.3.2. Key Revenue and Financials (If Available)
 - 13.3.3. Recent Developments
 - 13.3.4. Key Personnel
 - 13.3.5. Key Product/Services
- 13.4. C.R.I. Pumps Private Limited
 - 13.4.1. Business Overview
 - 13.4.2. Key Revenue and Financials (If Available)
 - 13.4.3. Recent Developments
 - 13.4.4. Key Personnel
 - 13.4.5. Key Product/Services
- 13.5. Crompton
 - 13.5.1. Business Overview
 - 13.5.2. Key Revenue and Financials (If Available)
 - 13.5.3. Recent Developments
 - 13.5.4. Key Personnel
 - 13.5.5. Key Product/Services
- 13.6. LORENTZ
 - 13.6.1. Business Overview
 - 13.6.2. Key Revenue and Financials (If Available)
 - 13.6.3. Recent Developments
 - 13.6.4. Key Personnel
 - 13.6.5. Key Product/Services
- 13.7. Dankoff Solar
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel
 - 13.7.5. Key Product/Services
- 13.8. Duke Plasto Technique Private Limited
 - 13.8.1. Business Overview
 - 13.8.2. Key Revenue and Financials (If Available)
 - 13.8.3. Recent Developments

13.8.4. Key Personnel

13.8.5. Key Product/Services

13.9. EcoSoach

13.9.1. Business Overview

13.9.2. Key Revenue and Financials (If Available)

13.9.3. Recent Developments

13.9.4. Key Personnel

13.9.5. Key Product/Services

13.10. Ecozen Solutions

13.10.1. Business Overview

13.10.2. Key Revenue and Financials (If Available)

13.10.3. Recent Developments

13.10.4. Key Personnel

13.10.5. Key Product/Services

14. STRATEGIC RECOMMENDATIONS

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