

# Rising Demand for Sustainable Farming Boosts Solar Powered Irrigation System Market Globally

*The Solar Powered Irrigation System Market is set for strong growth, driven by rising demand for sustainable farming solutions.*

AUSTIN, TX, UNITED STATES, July 31, 2025 /EINPresswire.com/ -- Market Overview:

The Solar Powered Irrigation System Market is gaining momentum as farmers seek sustainable and cost-effective water solutions. It integrates solar energy to power pumps, reducing reliance on grid electricity.

Market Size and Growth:

The global market for [solar-powered irrigation systems market size](#) was valued at USD 62.94 billion in 2022 and is anticipated to grow steadily, reaching approximately USD 112.24 billion by 2031. This expansion reflects a compound annual growth rate (CAGR) of 8.5% throughout the 2024–2031 period, fueled by increasing adoption of sustainable energy solutions in agriculture.

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In the U.S., rising energy costs and water scarcity are demand for Solar Powered Irrigation System Market, fueling a market poised to contribute significantly to the projected \$112.24B global by 2031”

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Key Market Drivers:

Sustainable Agriculture Practices: Rising environmental



concerns and the need to reduce carbon emissions are pushing the adoption of solar irrigation as a green alternative to diesel or electric pumps.

**Government Subsidies and Initiatives:** Policy incentives and funding programs in regions like Asia-Pacific, Africa, and North America are accelerating deployment, especially among smallholder farmers.

**Improved Access to Clean Water:** Solar irrigation offers consistent and reliable access to water for farming, enhancing crop productivity and resilience against climate change.

**Technological Advancements:** Innovations in solar panels, smart controllers, and remote monitoring systems are boosting the efficiency and scalability of solar-powered irrigation systems.

**Geographical Share:**

Asia-Pacific holds the largest market share, driven by extensive government-backed rural solar programs in countries such as India, China, and Japan.

North America, particularly the USA, is also witnessing rapid adoption due to water conservation efforts and support for sustainable farming practices.

**Key Players in the Market:**

Jain Irrigation Systems Ltd.

Lorentz

SunCulture

Grundfos

Tata Power Solar

Bright Solar Limited

Netafim

These players focus on scalable solutions, hybrid solar systems, and integration with precision agriculture tools.

**Market Segmentation:**

By Type: (Drip Irrigation, Sprinkler Irrigation, Surface Irrigation)

By Component: (Solar Panel, Pump Controller, Submersible Water Pump, Inverter, Others)

By Application: (Agricultural irrigation, Landscaping and gardening, Others)

By Region: (North America, Europe, South America, Asia Pacific, Middle East, and Africa)

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Recent Developments in the USA:

In March 2025, the U.S. Department of Agriculture (USDA) increased funding for solar irrigation projects under the Environmental Quality Incentives Program (EQIP), targeting drought-affected western states.

In August 2024, a California-based agri-tech startup launched an AI-integrated solar irrigation solution aimed at optimizing water usage in high-value crop farming.

Recent Developments in Japan:

In May 2025, Japan's Ministry of Agriculture partnered with local cooperatives to deploy solar-powered drip irrigation systems in Hokkaido's vegetable farming sector.

In October 2024, a major Japanese solar company introduced lightweight, flexible PV panels customized for greenhouse-based irrigation systems.

Conclusion:

The Solar Powered Irrigation System Market stands at the forefront of the renewable energy revolution in agriculture. As the global push for sustainable water management and clean energy continues, these systems are poised to transform traditional irrigation practices, particularly in water-scarce and power-deficient areas. With supportive policies, technological progress, and growing awareness, the market is expected to expand steadily in the years ahead.

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