

Solar Panel Recycling Market Accelerates Size, Share & Future Rising Sustainability Demands

Solar Panel Recycling Market to grow at 13.3% CAGR, reaching \$419.6M by 2031 with rising sustainability focus.

AUSTIN, MA, UNITED STATES, August 8, 2025 /EINPresswire.com/ -- Solar Panel Recycling Market Overview

The solar panel recycling sector is growing quickly as more solar panels worldwide near the end of their usable lifespan. With millions of panels expected to be retired over the next decade, recycling is becoming a critical solution to manage electronic waste and recover valuable materials.

Market size and growth:

“

Solar Panel Recycling Market in the USA is booming, valued at \$155.5M in 2023 and expected to hit \$419.6M by 2031 with 13.3% CAGR.”

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The worldwide [solar panel recycling industry](#) was valued at approximately US\$ 155.5 million in 2023 and is projected to grow to about US\$ 419.6 million by 2031, expanding at a CAGR of 13.3% between 2024 and 2031.

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Market Drivers & Opportunities

Growing Volume of End-of-Life Panels – Increasing installations from past decades mean more panels needing responsible disposal and recycling.

Stricter Environmental Regulations – Governments worldwide are introducing policies that

require manufacturers to take responsibility for panel recycling.

High Value of Recovered Materials – Materials like silver, aluminum, silicon, and glass recovered from panels reduce manufacturing costs and environmental impact.

Alignment with Circular Economy Goals – Recycling supports sustainable manufacturing and meets rising consumer and investor demand for eco-friendly practices.

Market Geographical Share

Europe is at the forefront, with strong recycling mandates and infrastructure investments.

North America is growing quickly, fueled by policy support and expanding recycling networks.

Asia-Pacific shows fast growth, particularly in countries like China, Japan, and India where solar capacity is surging.

Key Players

Recycle Solar Technologies

Silcontel

First Solar

Veolia

Reclaim PV

Echo Environmental

Silicontel Ltd

Cleanlites

Rinovasol Group

SMA Solar Technology

These players are expanding collection programs and investing in advanced recycling technologies.

Market Segments:

By Process: (Mechanical, Laser, Thermal)

By Panel: (Monocrystalline Silicon, Polycrystalline, Thin-Film, Amorphous)

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

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Recent Developments

United States

A leading recycling firm has significantly increased its processing capacity, recycling nearly half a million solar panels in 2024 and aiming to double that volume by the end of 2025.

Plans for a large new solar panel recycling facility in Georgia have been temporarily delayed as funding discussions continue, but the project remains a key priority for regional waste management.

Japan

The government is developing a comprehensive solar panel recycling framework to handle a projected surge in solar waste, expected to reach half a million tonnes annually within the next decade.

Tokyo has initiated a subsidy-backed program to encourage the removal and recycling of used residential solar panels, fostering collaboration between public agencies and private companies.

Conclusion

With solar panels nearing the end of their service life worldwide, recycling has become a vital part of sustainable energy strategies. Supported by increasing regulations, material recovery benefits, and growing industry commitment, the solar panel recycling market is positioned to play a crucial role in the global clean energy transition.

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