

Global Photovoltaic Panel Recycling Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Photovoltaic Panel Recycling market size was valued at US\$ 585 million in 2025 and is forecast to a readjusted size of US\$ 814 million by 2032 with a CAGR of 4.9% during review period.

Photovoltaic panel recycling refers to the centralized dismantling and resource reuse of scrapped or severely degraded solar cell modules. Through processes such as mechanical crushing, heat treatment, and chemical separation, reusable resources such as glass, aluminum frames, junction boxes, silver, copper, silicon wafers/silicon materials, and plastics are recovered from waste photovoltaic panels. On the one hand, this reduces the risk of solid waste and potential hazardous substances from the direct landfilling of large-scale retired modules; on the other hand, it reintroduces high-value metals and silicon materials into the photovoltaic, electronics, and metal smelting industrial chains, improving resource utilization efficiency and helping the photovoltaic industry move from 'only looking at installed capacity' to 'full life-cycle green management.'

From the demand side, photovoltaic panel recycling has evolved from an 'environmental bonus' to an indispensable part of the entire photovoltaic lifecycle. On the one hand, modules from the previous installation peaks (especially 2010-2018) will gradually enter their concentrated retirement period in the next 5-10 years. Coupled with early quality issues, power plant upgrades, and premature replacements due to technological iterations, the 'existing stock + new additions' of waste modules will continue to amplify. On the other hand, countries are increasingly regulating solid waste management, resource recycling, and carbon footprint. Simple dismantling, crude crushing, or even landfilling are not only non-compliant but also wasteful of high-value materials such as

silver, copper, and high-purity silicon. Under the structural logic of 'the more installed capacity, the more decommissioned capacity,' photovoltaic panel recycling is shifting from 'who will handle the problem' to 'who can turn the problem into a resource.' This is an issue that power plant owners, EPC contractors, O&M companies, and local governments must address in advance.

From a business model and industry perspective, the short-term pain point in this sector lies in the contradiction between 'clean dismantling' and 'profitability': high-purity silver and silicon recycling requires more refined and asset-heavy processes, but currently, waste panel concentration is low and recycling prices are sensitive, easily leading to a situation of 'environmentally driven, but difficult to profit.' In the medium to long term, opportunities lie mainly in three areas: first, partnering with leading module manufacturers and power plant asset owners to create a closed loop of 'trade-in + lock-in recycling volume'; second, transforming the recycling end into a 'quasi-metallurgical enterprise' through scale and process upgrades, truly capturing the price differences of resources such as silver, copper, and silicon; and third, combining carbon assets, ESG disclosures, and green finance to transform 'compliant recycling + high-proportion reuse' into additional leverage for power plant developers and owners in financing and bidding. Whoever can simultaneously integrate 'recycling channels + purification processes + end-user disposal (smelters, material plants)' and transform what currently seems like a 'hard and tiring job' into a standardized and large-scale resource business will have the opportunity to secure a long-term and stable cash flow source in the post-photovoltaic cycle.

The Photovoltaic Panel Recycling market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

Market segmentation

Photovoltaic Panel Recycling market is split by Type and by Application. For the period 2026-2032, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type,

Monocrystalline

Polycrystalline

Thin-film

Market segment by Core Processing Method

Mechanical Separation

Thermal & Chemical

Market segment by Scale & Location

Centralized Processing

Decentralized / Regional Processing

Market segment by Application

Material Reuse

Component Reuse

Market segment by players, this report covers

First Solar

Veolia

EIKI SHOJI

Echo Environmental

Reiling GmbH

GET-Green

NPC Group

Rinivasol Group

Bocai E-energy

RecyclePV

We Recycle Solar

Retrofit Companies

ROSI Solar

ERI

Yingli Energy Development Co., Ltd.

Market segment by regions, regional analysis covers

North America

Europe

Asia-Pacific (China, Japan, South Korea, Rest of Asia)

South America

Middle East & Africa

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