

Global End-of-Life Photovoltaic Module Recycling Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global End-of-Life Photovoltaic Module Recycling Equipment market size was valued at US\$ 80.70 million in 2025 and is forecast to a readjusted size of US\$ 146 million by 2032 with a CAGR of 7.3% during review period.

End-of-life photovoltaic module recycling equipment refers to specialized solid-waste processing systems designed for decommissioned solar power plants, PV module manufacturing scrap, and renewable material recovery. Its core function is to safely dismantle, separate, refine, and recover aluminum frames, junction boxes, glass, encapsulant films, backsheets, solar cells, copper ribbons, silicon, silver, and other materials from crystalline silicon or thin-film PV modules. Such equipment typically consists of de-framing machines, junction box removal machines, glass separation units, thermal delamination systems, crushing and sorting systems, screening and magnetic separation units, hydrometallurgical recovery modules, dust and exhaust treatment systems, and automated conveying and control systems. It can be delivered as standalone machines, modular equipment, mobile systems, or turnkey production lines. Key process routes include low-breakage mechanical separation, hot-knife separation, pyrolysis delamination, physical crushing and sorting, and wet metal recovery. The equipment addresses major industry challenges such as bulky module handling, tightly bonded composite materials, high logistics cost, glass contamination, low silver and copper recovery efficiency, and secondary pollution control. Typical customers include PV recycling companies, solid-waste treatment firms, module manufacturers, solar farm decommissioning service providers, recycling industrial parks, and local environmental platforms. Revenue is generated mainly from equipment sales, engineering integration, process licensing, spare parts, consumables, and long-

term operation and maintenance services.

The industrial value of end-of-life photovoltaic module recycling equipment is shifting from downstream environmental machinery to core infrastructure for the renewable energy circular economy. After years of rapid global PV deployment, early-generation modules are gradually entering the phases of retirement, failure replacement, and plant repowering. Large-scale module treatment will become an important issue for solar asset management and local solid-waste systems. The core problem addressed by this equipment is not simple waste reduction, but the conversion of bulky, composite, high-logistics-cost retired modules containing recyclable materials into feedstocks that can re-enter manufacturing and reuse systems. Glass and aluminum account for most of the module weight and are relatively easier to recover, but rough crushing can contaminate glass with metals, encapsulants, and dust, sharply reducing its value. Silicon, copper, and silver are present in smaller quantities but carry higher value, requiring higher separation precision and downstream refining capability. As a result, the industry is moving from rough crushing equipment toward integrated systems combining automated dismantling, low-breakage separation, thermal delamination, physical sorting, and wet recovery. Equipment value will rise with deeper material recovery and higher automation.

Technology competition is increasingly centered on material integrity, processing efficiency, environmental control, and project adaptability. Japanese solutions emphasize non-crushing glass separation and high-cleanliness recovery, making them suitable for applications with strict glass reuse requirements. Italian suppliers are more focused on turnkey lines, modular factories, and high-automation delivery, which fit centralized recycling centers. South Korea's mobile systems represent an on-site preprocessing direction for large solar farm decommissioning and repowering projects, reducing logistics volume, breakage risk, and carbon emissions. Chinese suppliers, supported by a broad solid-waste equipment manufacturing base, have developed cost-oriented turnkey solutions covering dismantling, pyrolysis, crushing, screening, dust collection, and exhaust treatment. Future buyers will not evaluate equipment only by unit price, but by throughput, energy consumption per unit, glass integrity, metal recovery rate, dust control, exhaust treatment, automation level, footprint, and operating cost. Suppliers that can process intact modules, broken modules, and manufacturing scrap while flexibly combining standalone machines and turnkey lines will be better positioned to win recycling plant and decommissioning project orders.

Policy and market forces together determine the growth trajectory of this equipment category. Europe has already incorporated PV modules into the waste electrical and

electronic equipment framework, and producer responsibility plus compliance-based recycling systems provide an institutional basis for equipment investment. In the United States, regulation is still evolving across federal and state levels, but as end-of-life solar management rules become clearer, demand for professional treatment facilities is expected to emerge gradually. China, India, Australia, Japan, and South Korea also face growing pressure from module retirement, early replacement, and resource recovery. In the short term, the market remains project-based, with demonstration lines, regional treatment centers, and uneven procurement cycles. In the medium to long term, as retirement volumes increase, recycling responsibilities become clearer, recycled-material standards are established, and the economics of recovering silver, copper, and silicon improve, end-of-life photovoltaic module recycling equipment will shift from a niche environmental product to a regular capital expenditure item in the downstream PV value chain. Companies with process patents, turnkey engineering capability, overseas delivery experience, and strong secondary pollution control will be better positioned in global recycling infrastructure buildout.

This report is a detailed and comprehensive analysis for global End-of-Life Photovoltaic Module Recycling Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Equipment Form and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global End-of-Life Photovoltaic Module Recycling Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global End-of-Life Photovoltaic Module Recycling Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global End-of-Life Photovoltaic Module Recycling Equipment market size and forecasts, by Equipment Form and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global End-of-Life Photovoltaic Module Recycling Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for End-of-Life Photovoltaic Module Recycling Equipment

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global End-of-Life Photovoltaic Module Recycling Equipment market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NPC Incorporated, Kankyo Hozen Service, RESET Company, Won Kwang S&T, Ecoprogetti, Compton Industriale, Stokkermill, Schutte Hammermill, Henan Recycle Environmental Protection Equipment, SUNY GROUP, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

End-of-Life Photovoltaic Module Recycling Equipment market is split by Equipment Form and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Equipment Form, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Equipment Form

Standalone Equipment

Modular Equipment

Turnkey Production Line Equipment

Market segment by Feedstock Condition

Intact Module Recycling Equipment

Broken Module Recycling Equipment

Pre-Dismantled Module Recycling Equipment

Market segment by Primary Function

Frame and Junction Box Removal Equipment

Glass Separation Equipment

Crushing and Sorting Equipment

Silicon and Silver Extraction Equipment

Pollution Control Supporting Equipment

Market segment by Application

Centralized Factory Processing

On-Site Project Preprocessing

Solar Farm Decommissioning Processing

Module Manufacturing Scrap Processing

Municipal E-Waste Processing

Major players covered

NPC Incorporated

Kankyo Hozen Service

RESET Company

Won Kwang S&T

Ecoprogetti

Compton Industriale

Stokkermill

Schutte Hammermill

Henan Recycle Environmental Protection Equipment

SUNY GROUP

Gongyi Ruisaike Machinery Equipment

Henan Rexede Energy Environmental Protection Technology

Henan Honest Heavy Machinery

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe End-of-Life Photovoltaic Module Recycling Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of End-of-Life Photovoltaic Module Recycling Equipment, with price, sales quantity, revenue, and global market share of End-of-Life Photovoltaic Module Recycling Equipment from 2021 to 2026.

Chapter 3, the End-of-Life Photovoltaic Module Recycling Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the End-of-Life Photovoltaic Module Recycling Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Equipment Form and by Application, with sales market share and growth rate by Equipment Form, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and End-of-Life Photovoltaic Module Recycling Equipment market forecast, by regions, by Equipment Form, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of End-of-Life Photovoltaic Module Recycling Equipment.

Chapter 14 and 15, to describe End-of-Life Photovoltaic Module Recycling

Equipment sales channel, distributors, customers, research findings and conclusion.

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