

# Global Photovoltaic Panel Recycling Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Photovoltaic Panel Recycling market size is expected to reach \$ 814 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global Photovoltaic Panel Recycling demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic Panel Recycling, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Photovoltaic Panel Recycling that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Photovoltaic Panel Recycling total market, 2021-2032, (USD Million)

Global Photovoltaic Panel Recycling total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Photovoltaic Panel Recycling total market, key domestic companies, and share, (USD Million)

Global Photovoltaic Panel Recycling revenue by player, revenue and market share 2021-2026, (USD Million)

Global Photovoltaic Panel Recycling total market by Type, CAGR, 2021-2032, (USD Million)

Global Photovoltaic Panel Recycling total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Photovoltaic Panel Recycling market

based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include First Solar, Veolia, EIKI SHOJI, Echo Environmental, Reiling GmbH, GET-Green, NPC Group, Rinovasol Group, Bocai E-energy, RecyclePV, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Photovoltaic Panel Recycling market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Photovoltaic Panel Recycling Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic Panel Recycling Market, Segmentation by Type:

Monocrystalline

Polycrystalline

Thin-film

Global Photovoltaic Panel Recycling Market, Segmentation by Core Processing Method:

Mechanical Separation

Thermal & Chemical

Global Photovoltaic Panel Recycling Market, Segmentation by Scale & Location:

Centralized Processing

Decentralized / Regional Processing

Global Photovoltaic Panel Recycling Market, Segmentation by Application:

Material Reuse

Component Reuse

**Companies Profiled:**

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.

#### Key Questions Answered

1. How big is the global Photovoltaic Panel Recycling market?
2. What is the demand of the global Photovoltaic Panel Recycling market?
3. What is the year over year growth of the global Photovoltaic Panel Recycling market?
4. What is the total value of the global Photovoltaic Panel Recycling market?
5. Who are the Major Players in the global Photovoltaic Panel Recycling market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Photovoltaic Panel Recycling Introduction
- 1.2 World Photovoltaic Panel Recycling Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Photovoltaic Panel Recycling Total Market by Region (by Headquarter Location)
  - 1.3.1 World Photovoltaic Panel Recycling Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company Photovoltaic Panel Recycling Revenue (2021-2032)
  - 1.3.3 China Based Company Photovoltaic Panel Recycling Revenue (2021-2032)
  - 1.3.4 Europe Based Company Photovoltaic Panel Recycling Revenue (2021-2032)
  - 1.3.5 Japan Based Company Photovoltaic Panel Recycling Revenue (2021-2032)
  - 1.3.6 South Korea Based Company Photovoltaic Panel Recycling Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company Photovoltaic Panel Recycling Revenue (2021-2032)
  - 1.3.8 India Based Company Photovoltaic Panel Recycling Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Photovoltaic Panel Recycling Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Photovoltaic Panel Recycling Consumption Value (2021-2032)
- 2.2 World Photovoltaic Panel Recycling Consumption Value by Region
  - 2.2.1 World Photovoltaic Panel Recycling Consumption Value by Region (2021-2026)
  - 2.2.2 World Photovoltaic Panel Recycling Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Photovoltaic Panel Recycling Consumption Value (2021-2032)
- 2.4 China Photovoltaic Panel Recycling Consumption Value (2021-2032)
- 2.5 Europe Photovoltaic Panel Recycling Consumption Value (2021-2032)
- 2.6 Japan Photovoltaic Panel Recycling Consumption Value (2021-2032)
- 2.7 South Korea Photovoltaic Panel Recycling Consumption Value (2021-2032)
- 2.8 ASEAN Photovoltaic Panel Recycling Consumption Value (2021-2032)
- 2.9 India Photovoltaic Panel Recycling Consumption Value (2021-2032)

### **3 WORLD PHOTOVOLTAIC PANEL RECYCLING COMPANIES COMPETITIVE ANALYSIS**

- 3.1 World Photovoltaic Panel Recycling Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
  - 3.2.1 Global Photovoltaic Panel Recycling Industry Rank of Major Players
  - 3.2.2 Global Concentration Ratios (CR4) for Photovoltaic Panel Recycling in 2025
  - 3.2.3 Global Concentration Ratios (CR8) for Photovoltaic Panel Recycling in 2025
- 3.3 Photovoltaic Panel Recycling Company Evaluation Quadrant
- 3.4 Photovoltaic Panel Recycling Market: Overall Company Footprint Analysis
  - 3.4.1 Photovoltaic Panel Recycling Market: Region Footprint
  - 3.4.2 Photovoltaic Panel Recycling Market: Company Product Type Footprint
  - 3.4.3 Photovoltaic Panel Recycling Market: Company Product Application Footprint
- 3.5 Competitive Environment
  - 3.5.1 Historical Structure of the Industry
  - 3.5.2 Barriers of Market Entry
  - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

### **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

- 4.1 United States VS China: Photovoltaic Panel Recycling Revenue Comparison (by Headquarter Location)
  - 4.1.1 United States VS China: Photovoltaic Panel Recycling Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
  - 4.1.2 United States VS China: Photovoltaic Panel Recycling Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: Photovoltaic Panel Recycling Consumption Value Comparison
  - 4.2.1 United States VS China: Photovoltaic Panel Recycling Consumption Value Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Photovoltaic Panel Recycling Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based Photovoltaic Panel Recycling Companies and Market Share, 2021-2026
  - 4.3.1 United States Based Photovoltaic Panel Recycling Companies, Headquarters (States, Country)
  - 4.3.2 United States Based Companies Photovoltaic Panel Recycling Revenue,

(2021-2026)

4.4 China Based Companies Photovoltaic Panel Recycling Revenue and Market Share, 2021-2026

4.4.1 China Based Photovoltaic Panel Recycling Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Photovoltaic Panel Recycling Revenue, (2021-2026)

4.5 Rest of World Based Photovoltaic Panel Recycling Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Photovoltaic Panel Recycling Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Photovoltaic Panel Recycling Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Photovoltaic Panel Recycling Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Monocrystalline

5.2.2 Polycrystalline

5.2.3 Thin-film

5.3 Market Segment by Type

5.3.1 World Photovoltaic Panel Recycling Market Size by Type (2021-2026)

5.3.2 World Photovoltaic Panel Recycling Market Size by Type (2027-2032)

5.3.3 World Photovoltaic Panel Recycling Market Size Market Share by Type (2027-2032)

## **6 MARKET ANALYSIS BY CORE PROCESSING METHOD**

6.1 World Photovoltaic Panel Recycling Market Size Overview by Core Processing Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Core Processing Method

6.2.1 Mechanical Separation

6.2.2 Thermal & Chemical

6.3 Market Segment by Core Processing Method

6.3.1 World Photovoltaic Panel Recycling Market Size by Core Processing Method (2021-2026)

6.3.2 World Photovoltaic Panel Recycling Market Size by Core Processing Method (2027-2032)

6.3.3 World Photovoltaic Panel Recycling Market Size Market Share by Core Processing Method (2027-2032)

## **7 MARKET ANALYSIS BY SCALE & LOCATION**

7.1 World Photovoltaic Panel Recycling Market Size Overview by Scale & Location: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Scale & Location

7.2.1 Centralized Processing

7.2.2 Decentralized / Regional Processing

7.3 Market Segment by Scale & Location

7.3.1 World Photovoltaic Panel Recycling Market Size by Scale & Location (2021-2026)

7.3.2 World Photovoltaic Panel Recycling Market Size by Scale & Location (2027-2032)

7.3.3 World Photovoltaic Panel Recycling Market Size Market Share by Scale & Location (2027-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Photovoltaic Panel Recycling Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Material Reuse

8.2.2 Component Reuse

8.3 Market Segment by Application

8.3.1 World Photovoltaic Panel Recycling Market Size by Application (2021-2026)

8.3.2 World Photovoltaic Panel Recycling Market Size by Application (2027-2032)

8.3.3 World Photovoltaic Panel Recycling Market Size Market Share by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 First Solar

9.1.1 First Solar Details

9.1.2 First Solar Major Business

9.1.3 First Solar Photovoltaic Panel Recycling Product and Services

9.1.4 First Solar Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)

- 9.1.5 First Solar Recent Developments/Updates
- 9.1.6 First Solar Competitive Strengths & Weaknesses
- 9.2 Veolia
  - 9.2.1 Veolia Details
  - 9.2.2 Veolia Major Business
  - 9.2.3 Veolia Photovoltaic Panel Recycling Product and Services
  - 9.2.4 Veolia Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)
  - 9.2.5 Veolia Recent Developments/Updates
  - 9.2.6 Veolia Competitive Strengths & Weaknesses
- 9.3 EIKI SHOJI
  - 9.3.1 EIKI SHOJI Details
  - 9.3.2 EIKI SHOJI Major Business
  - 9.3.3 EIKI SHOJI Photovoltaic Panel Recycling Product and Services
  - 9.3.4 EIKI SHOJI Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)
  - 9.3.5 EIKI SHOJI Recent Developments/Updates
  - 9.3.6 EIKI SHOJI Competitive Strengths & Weaknesses
- 9.4 Echo Environmental
  - 9.4.1 Echo Environmental Details
  - 9.4.2 Echo Environmental Major Business
  - 9.4.3 Echo Environmental Photovoltaic Panel Recycling Product and Services
  - 9.4.4 Echo Environmental Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Echo Environmental Recent Developments/Updates
  - 9.4.6 Echo Environmental Competitive Strengths & Weaknesses
- 9.5 Reiling GmbH
  - 9.5.1 Reiling GmbH Details
  - 9.5.2 Reiling GmbH Major Business
  - 9.5.3 Reiling GmbH Photovoltaic Panel Recycling Product and Services
  - 9.5.4 Reiling GmbH Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Reiling GmbH Recent Developments/Updates
  - 9.5.6 Reiling GmbH Competitive Strengths & Weaknesses
- 9.6 GET-Green
  - 9.6.1 GET-Green Details
  - 9.6.2 GET-Green Major Business
  - 9.6.3 GET-Green Photovoltaic Panel Recycling Product and Services
  - 9.6.4 GET-Green Photovoltaic Panel Recycling Revenue, Gross Margin and Market

Share (2021-2026)

9.6.5 GET-Green Recent Developments/Updates

9.6.6 GET-Green Competitive Strengths & Weaknesses

9.7 NPC Group

9.7.1 NPC Group Details

9.7.2 NPC Group Major Business

9.7.3 NPC Group Photovoltaic Panel Recycling Product and Services

9.7.4 NPC Group Photovoltaic Panel Recycling Revenue, Gross Margin and Market

Share (2021-2026)

9.7.5 NPC Group Recent Developments/Updates

9.7.6 NPC Group Competitive Strengths & Weaknesses

9.8 Rinivasol Group

9.8.1 Rinivasol Group Details

9.8.2 Rinivasol Group Major Business

9.8.3 Rinivasol Group Photovoltaic Panel Recycling Product and Services

9.8.4 Rinivasol Group Photovoltaic Panel Recycling Revenue, Gross Margin and

Market Share (2021-2026)

9.8.5 Rinivasol Group Recent Developments/Updates

9.8.6 Rinivasol Group Competitive Strengths & Weaknesses

9.9 Bocai E-energy

9.9.1 Bocai E-energy Details

9.9.2 Bocai E-energy Major Business

9.9.3 Bocai E-energy Photovoltaic Panel Recycling Product and Services

9.9.4 Bocai E-energy Photovoltaic Panel Recycling Revenue, Gross Margin and

Market Share (2021-2026)

9.9.5 Bocai E-energy Recent Developments/Updates

9.9.6 Bocai E-energy Competitive Strengths & Weaknesses

9.10 RecyclePV

9.10.1 RecyclePV Details

9.10.2 RecyclePV Major Business

9.10.3 RecyclePV Photovoltaic Panel Recycling Product and Services

9.10.4 RecyclePV Photovoltaic Panel Recycling Revenue, Gross Margin and Market

Share (2021-2026)

9.10.5 RecyclePV Recent Developments/Updates

9.10.6 RecyclePV Competitive Strengths & Weaknesses

9.11 We Recycle Solar

9.11.1 We Recycle Solar Details

9.11.2 We Recycle Solar Major Business

9.11.3 We Recycle Solar Photovoltaic Panel Recycling Product and Services

9.11.4 We Recycle Solar Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 We Recycle Solar Recent Developments/Updates

9.11.6 We Recycle Solar Competitive Strengths & Weaknesses

9.12 Retrofit Companies

9.12.1 Retrofit Companies Details

9.12.2 Retrofit Companies Major Business

9.12.3 Retrofit Companies Photovoltaic Panel Recycling Product and Services

9.12.4 Retrofit Companies Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)

9.12.5 Retrofit Companies Recent Developments/Updates

9.12.6 Retrofit Companies Competitive Strengths & Weaknesses

9.13 ROSI Solar

9.13.1 ROSI Solar Details

9.13.2 ROSI Solar Major Business

9.13.3 ROSI Solar Photovoltaic Panel Recycling Product and Services

9.13.4 ROSI Solar Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 ROSI Solar Recent Developments/Updates

9.13.6 ROSI Solar Competitive Strengths & Weaknesses

9.14 ERI

9.14.1 ERI Details

9.14.2 ERI Major Business

9.14.3 ERI Photovoltaic Panel Recycling Product and Services

9.14.4 ERI Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)

9.14.5 ERI Recent Developments/Updates

9.14.6 ERI Competitive Strengths & Weaknesses

9.15 Yingli Energy Development Co., Ltd.

9.15.1 Yingli Energy Development Co., Ltd. Details

9.15.2 Yingli Energy Development Co., Ltd. Major Business

9.15.3 Yingli Energy Development Co., Ltd. Photovoltaic Panel Recycling Product and Services

9.15.4 Yingli Energy Development Co., Ltd. Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026)

9.15.5 Yingli Energy Development Co., Ltd. Recent Developments/Updates

9.15.6 Yingli Energy Development Co., Ltd. Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Photovoltaic Panel Recycling Industry Chain
- 10.2 Photovoltaic Panel Recycling Upstream Analysis
- 10.3 Photovoltaic Panel Recycling Midstream Analysis
- 10.4 Photovoltaic Panel Recycling Downstream Analysis

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Photovoltaic Panel Recycling Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Photovoltaic Panel Recycling Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Photovoltaic Panel Recycling Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Photovoltaic Panel Recycling Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Photovoltaic Panel Recycling Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Photovoltaic Panel Recycling Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Photovoltaic Panel Recycling Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Photovoltaic Panel Recycling Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Photovoltaic Panel Recycling Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Photovoltaic Panel Recycling Players in 2025

Table 12. World Photovoltaic Panel Recycling Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Photovoltaic Panel Recycling Company Evaluation Quadrant

Table 14. Head Office of Key Photovoltaic Panel Recycling Players

Table 15. Photovoltaic Panel Recycling Market: Company Product Type Footprint

Table 16. Photovoltaic Panel Recycling Market: Company Product Application Footprint

Table 17. Photovoltaic Panel Recycling Mergers & Acquisitions Activity

Table 18. United States VS China Photovoltaic Panel Recycling Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Photovoltaic Panel Recycling Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Photovoltaic Panel Recycling Companies, Headquarters (States, Country)

Table 21. United States Based Companies Photovoltaic Panel Recycling Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Photovoltaic Panel Recycling Revenue Market Share (2021-2026)

Table 23. China Based Photovoltaic Panel Recycling Companies, Headquarters (Province, Country)

Table 24. China Based Companies Photovoltaic Panel Recycling Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Photovoltaic Panel Recycling Revenue Market Share (2021-2026)

Table 26. Rest of World Based Photovoltaic Panel Recycling Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Photovoltaic Panel Recycling Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Photovoltaic Panel Recycling Revenue Market Share (2021-2026)

Table 29. World Photovoltaic Panel Recycling Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Photovoltaic Panel Recycling Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Photovoltaic Panel Recycling Market Size by Type (2027-2032) & (USD Million)

Table 32. World Photovoltaic Panel Recycling Market Size by Core Processing Method, (USD Million), 2021 & 2025 & 2032

Table 33. World Photovoltaic Panel Recycling Market Size Value by Core Processing Method (2021-2026) & (USD Million)

Table 34. World Photovoltaic Panel Recycling Market Size by Core Processing Method (2027-2032) & (USD Million)

Table 35. World Photovoltaic Panel Recycling Market Size by Scale & Location, (USD Million), 2021 & 2025 & 2032

Table 36. World Photovoltaic Panel Recycling Market Size Value by Scale & Location (2021-2026) & (USD Million)

Table 37. World Photovoltaic Panel Recycling Market Size by Scale & Location (2027-2032) & (USD Million)

Table 38. World Photovoltaic Panel Recycling Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Photovoltaic Panel Recycling Market Size by Application (2021-2026) & (USD Million)

Table 40. World Photovoltaic Panel Recycling Market Size by Application (2027-2032) & (USD Million)

Table 41. First Solar Basic Information, Manufacturing Base and Competitors

- Table 42. First Solar Major Business
- Table 43. First Solar Photovoltaic Panel Recycling Product and Services
- Table 44. First Solar Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 45. First Solar Recent Developments/Updates
- Table 46. First Solar Competitive Strengths & Weaknesses
- Table 47. Veolia Basic Information, Manufacturing Base and Competitors
- Table 48. Veolia Major Business
- Table 49. Veolia Photovoltaic Panel Recycling Product and Services
- Table 50. Veolia Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 51. Veolia Recent Developments/Updates
- Table 52. Veolia Competitive Strengths & Weaknesses
- Table 53. EIKI SHOJI Basic Information, Manufacturing Base and Competitors
- Table 54. EIKI SHOJI Major Business
- Table 55. EIKI SHOJI Photovoltaic Panel Recycling Product and Services
- Table 56. EIKI SHOJI Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 57. EIKI SHOJI Recent Developments/Updates
- Table 58. EIKI SHOJI Competitive Strengths & Weaknesses
- Table 59. Echo Environmental Basic Information, Manufacturing Base and Competitors
- Table 60. Echo Environmental Major Business
- Table 61. Echo Environmental Photovoltaic Panel Recycling Product and Services
- Table 62. Echo Environmental Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 63. Echo Environmental Recent Developments/Updates
- Table 64. Echo Environmental Competitive Strengths & Weaknesses
- Table 65. Reiling GmbH Basic Information, Manufacturing Base and Competitors
- Table 66. Reiling GmbH Major Business
- Table 67. Reiling GmbH Photovoltaic Panel Recycling Product and Services
- Table 68. Reiling GmbH Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 69. Reiling GmbH Recent Developments/Updates
- Table 70. Reiling GmbH Competitive Strengths & Weaknesses
- Table 71. GET-Green Basic Information, Manufacturing Base and Competitors
- Table 72. GET-Green Major Business
- Table 73. GET-Green Photovoltaic Panel Recycling Product and Services
- Table 74. GET-Green Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

- Table 75. GET-Green Recent Developments/Updates
- Table 76. GET-Green Competitive Strengths & Weaknesses
- Table 77. NPC Group Basic Information, Manufacturing Base and Competitors
- Table 78. NPC Group Major Business
- Table 79. NPC Group Photovoltaic Panel Recycling Product and Services
- Table 80. NPC Group Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. NPC Group Recent Developments/Updates
- Table 82. NPC Group Competitive Strengths & Weaknesses
- Table 83. Rinovasol Group Basic Information, Manufacturing Base and Competitors
- Table 84. Rinovasol Group Major Business
- Table 85. Rinovasol Group Photovoltaic Panel Recycling Product and Services
- Table 86. Rinovasol Group Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. Rinovasol Group Recent Developments/Updates
- Table 88. Rinovasol Group Competitive Strengths & Weaknesses
- Table 89. Bocai E-energy Basic Information, Manufacturing Base and Competitors
- Table 90. Bocai E-energy Major Business
- Table 91. Bocai E-energy Photovoltaic Panel Recycling Product and Services
- Table 92. Bocai E-energy Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. Bocai E-energy Recent Developments/Updates
- Table 94. Bocai E-energy Competitive Strengths & Weaknesses
- Table 95. RecyclePV Basic Information, Manufacturing Base and Competitors
- Table 96. RecyclePV Major Business
- Table 97. RecyclePV Photovoltaic Panel Recycling Product and Services
- Table 98. RecyclePV Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 99. RecyclePV Recent Developments/Updates
- Table 100. RecyclePV Competitive Strengths & Weaknesses
- Table 101. We Recycle Solar Basic Information, Manufacturing Base and Competitors
- Table 102. We Recycle Solar Major Business
- Table 103. We Recycle Solar Photovoltaic Panel Recycling Product and Services
- Table 104. We Recycle Solar Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 105. We Recycle Solar Recent Developments/Updates
- Table 106. We Recycle Solar Competitive Strengths & Weaknesses
- Table 107. Retrofit Companies Basic Information, Manufacturing Base and Competitors
- Table 108. Retrofit Companies Major Business

- Table 109. Retrofit Companies Photovoltaic Panel Recycling Product and Services
- Table 110. Retrofit Companies Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 111. Retrofit Companies Recent Developments/Updates
- Table 112. Retrofit Companies Competitive Strengths & Weaknesses
- Table 113. ROSI Solar Basic Information, Manufacturing Base and Competitors
- Table 114. ROSI Solar Major Business
- Table 115. ROSI Solar Photovoltaic Panel Recycling Product and Services
- Table 116. ROSI Solar Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 117. ROSI Solar Recent Developments/Updates
- Table 118. ROSI Solar Competitive Strengths & Weaknesses
- Table 119. ERI Basic Information, Manufacturing Base and Competitors
- Table 120. ERI Major Business
- Table 121. ERI Photovoltaic Panel Recycling Product and Services
- Table 122. ERI Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 123. ERI Recent Developments/Updates
- Table 124. ERI Competitive Strengths & Weaknesses
- Table 125. Yingli Energy Development Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 126. Yingli Energy Development Co., Ltd. Major Business
- Table 127. Yingli Energy Development Co., Ltd. Photovoltaic Panel Recycling Product and Services
- Table 128. Yingli Energy Development Co., Ltd. Photovoltaic Panel Recycling Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 129. Yingli Energy Development Co., Ltd. Recent Developments/Updates
- Table 130. Yingli Energy Development Co., Ltd. Competitive Strengths & Weaknesses
- Table 131. Global Key Players of Photovoltaic Panel Recycling Upstream (Raw Materials)
- Table 132. Global Photovoltaic Panel Recycling Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Photovoltaic Panel Recycling Picture

Figure 2. World Photovoltaic Panel Recycling Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Photovoltaic Panel Recycling Total Revenue (2021-2032) & (USD Million)

Figure 4. World Photovoltaic Panel Recycling Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Photovoltaic Panel Recycling Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Photovoltaic Panel Recycling Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Photovoltaic Panel Recycling Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Photovoltaic Panel Recycling Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Photovoltaic Panel Recycling Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Photovoltaic Panel Recycling Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Photovoltaic Panel Recycling Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Photovoltaic Panel Recycling Revenue (2021-2032) & (USD Million)

Figure 13. Photovoltaic Panel Recycling Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Photovoltaic Panel Recycling Consumption Value (2021-2032) & (USD Million)

Figure 16. World Photovoltaic Panel Recycling Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Photovoltaic Panel Recycling Consumption Value (2021-2032) & (USD Million)

Figure 18. China Photovoltaic Panel Recycling Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Photovoltaic Panel Recycling Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Photovoltaic Panel Recycling Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Photovoltaic Panel Recycling Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Photovoltaic Panel Recycling Consumption Value (2021-2032) & (USD Million)

Figure 23. India Photovoltaic Panel Recycling Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Photovoltaic Panel Recycling by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Photovoltaic Panel Recycling Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Photovoltaic Panel Recycling Markets in 2025

Figure 27. United States VS China: Photovoltaic Panel Recycling Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Photovoltaic Panel Recycling Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Photovoltaic Panel Recycling Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Photovoltaic Panel Recycling Market Size Market Share by Type in 2025

Figure 31. Monocrystalline

Figure 32. Polycrystalline

Figure 33. Thin-film

Figure 34. World Photovoltaic Panel Recycling Market Size Market Share by Type (2021-2032)

Figure 35. World Photovoltaic Panel Recycling Market Size by Core Processing Method, (USD Million), 2021 & 2025 & 2032

Figure 36. World Photovoltaic Panel Recycling Market Size Market Share by Core Processing Method in 2025

Figure 37. Mechanical Separation

Figure 38. Thermal & Chemical

Figure 39. World Photovoltaic Panel Recycling Market Size Market Share by Core Processing Method (2021-2032)

Figure 40. World Photovoltaic Panel Recycling Market Size by Scale & Location, (USD Million), 2021 & 2025 & 2032

Figure 41. World Photovoltaic Panel Recycling Market Size Market Share by Scale & Location in 2025

Figure 42. Centralized Processing

Figure 43. Decentralized / Regional Processing

Figure 44. World Photovoltaic Panel Recycling Market Size Market Share by Scale & Location (2021-2032)

Figure 45. World Photovoltaic Panel Recycling Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 46. World Photovoltaic Panel Recycling Market Size Market Share by Application in 2025

Figure 47. Material Reuse

Figure 48. Component Reuse

Figure 49. World Photovoltaic Panel Recycling Market Size Market Share by Application (2021-2032)

Figure 50. Photovoltaic Panel Recycling Industrial Chain

Figure 51. Methodology

Figure 52. Research Process and Data Source

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