

Global Printed Circuit Board (PCB) E-scrap Recycling Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G42CA6DD7EEDEN.html>

Date: September 2026

Pages: 175

Price: US\$ 4,480.00 (Single User License)

ID: G42CA6DD7EEDEN

Abstracts

The global Printed Circuit Board (PCB) E-scrap Recycling market size is expected to reach \$ 7650 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Printed Circuit Board (PCB) E-scrap Recycling refers to the collection, sorting, dismantling, pre-treatment, metallurgical processing and resource recovery of discarded printed circuit boards (PCBs) and printed circuit board assemblies (PCBAs) generated from end-of-life electrical and electronic equipment, manufacturing scrap, defective products and obsolete electronic components.

Waste PCBs are among the highest-value fractions of electronic waste because they contain substantial quantities of copper together with precious and specialty metals such as gold, silver, palladium, tin and nickel, while some grades may also contain platinum-group metals and other minor or critical elements. Commercial recycling normally involves dismantling or component removal, shredding and physical separation, followed by pyrometallurgical, hydrometallurgical, or combined metallurgical recovery.

Market Drivers

1. Growing Generation of Electronic Waste

Continued growth in smartphones, computers, servers, telecom equipment, automobiles, industrial electronics and IoT devices is increasing the supply of end-of-life PCBs. At the same time, shorter electronics replacement cycles and expansion of data

centers and communications infrastructure are creating growing volumes of high-grade server, networking and telecommunications boards. Since virtually all complex electronic equipment contains one or more PCBs, the expansion of the global electronics installed base provides a structural feedstock driver for PCB recycling.

2. High Value of Recoverable Metals

The high concentration of copper, gold, silver and palladium makes PCBs economically attractive compared with many other e-waste fractions. The Global E-waste Monitor notes that platinum-group metals in e-waste, particularly palladium, are concentrated primarily in printed circuit boards, and that palladium recycling rates can reach 95% or more when PCBs are processed through appropriate copper-smelting routes. This “urban mining” value proposition becomes more attractive as primary metal mining becomes more expensive and supply security becomes increasingly important.

3. Increasing Demand for Secondary and Critical Raw Materials

Electronics, semiconductor, automotive and renewable-energy industries are seeking greater access to recycled metals as part of circular-economy, carbon-reduction and supply-chain-resilience strategies. PCB recycling provides secondary copper and precious metals while reducing reliance on virgin ores.

4. Stricter E-waste Regulation and Formalization of Recycling

Environmental regulations are increasingly restricting landfill disposal, uncontrolled incineration, informal acid leaching and international movement of untreated electronic waste. PCB waste can contain lead, brominated flame retardants and other substances requiring controlled processing. Under the Basel Convention framework, certain waste circuit boards and fractions generated from dismantling or shredding may be subject to hazardous-waste or controlled transboundary-movement requirements depending on their composition. These regulations favor licensed industrial recyclers with appropriate emission-control, wastewater-treatment and metallurgical systems.

Report Scope

This report studies the global Printed Circuit Board (PCB) E-scrap Recycling demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Printed Circuit Board (PCB) E-scrap 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 Printed Circuit Board (PCB) E-scrap Recycling that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Printed Circuit Board (PCB) E-scrap Recycling total market, 2021-2032, (USD Million)

Global Printed Circuit Board (PCB) E-scrap Recycling total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Printed Circuit Board (PCB) E-scrap Recycling total market, key domestic companies, and share, (USD Million)

Global Printed Circuit Board (PCB) E-scrap Recycling revenue by player, revenue and market share 2021-2026, (USD Million)

Global Printed Circuit Board (PCB) E-scrap Recycling total market by Type, CAGR, 2021-2032, (USD Million)

Global Printed Circuit Board (PCB) E-scrap Recycling total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Printed Circuit Board (PCB) E-scrap 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 Republic Services, Waste Management, Sims Limited, Boliden, Umicore, Glencore, Electronic Recyclers International (ERI), Stena Recycling, Aurubis, Veolia, 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 Printed Circuit Board (PCB) E-scrap 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 Printed Circuit Board (PCB) E-scrap Recycling Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Printed Circuit Board (PCB) E-scrap Recycling Market, Segmentation by Type:

Precious Metals and PGM

Base Non-ferrous Metals

Others

Global Printed Circuit Board (PCB) E-scrap Recycling Market, Segmentation by Recycling Process:

Mechanical and Physical Recovery

Pyrometallurgical and Hydrometallurgical Recovery

Electrochemical Recovery

Hybrid Recovery

Direct or Closed-loop Recycling

Global Printed Circuit Board (PCB) E-scrap Recycling Market, Segmentation by Service Type:

Collection and Logistics Services

Concentration and Smelting Services

Refining and Purification Services

Closed-loop Recycling Services

Other

Global Printed Circuit Board (PCB) E-scrap Recycling Market, Segmentation by Application:

Smartphones

PC & Laptop

Telecommunications

TV & Monitor

Others

Companies Profiled:

Republic Services

Waste Management

Sims Limited

Boliden

Umicore

Glencore

Electronic Recyclers International (ERI)

Stena Recycling

Aurubis

Veolia

Galloo

Korea Zinc

Sino-Platinum

CRE

Chiho Environmental

DOWA Holdings

Mitsubishi Materials

JX Advanced Metals

TANAKA Precious Metals

Materion

Heraeus Precious Metals

Nucor

Kuusakoski

Derichebourg Environnement

Jiin Yeeh Ding

Asahi Holdings

Solar Applied Materials

WASTE Recovery Technol

Huaxin Green Spring

Heraeus Precious Metals

Key Questions Answered

1. How big is the global Printed Circuit Board (PCB) E-scrap Recycling market?
2. What is the demand of the global Printed Circuit Board (PCB) E-scrap Recycling

market?

3. What is the year over year growth of the global Printed Circuit Board (PCB) E-scrap Recycling market?

4. What is the total value of the global Printed Circuit Board (PCB) E-scrap Recycling market?

5. Who are the Major Players in the global Printed Circuit Board (PCB) E-scrap Recycling market?

6. What are the growth factors driving the market demand?

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Figure 61. Research Process and Data Source

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