

# **E-Waste Management Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Category (Temperature Exchange Equipment, Screens and Monitors, Lamps, Large Equipment, Small Equipment, and Small IT and Telecommunication Equipment), By Source Type (Household Appliances, Industrial Electronics), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global E-Waste Management Market is projected to expand from USD 59.26 Billion in 2025 to USD 76.38 Billion by 2031, registering a CAGR of 4.32%. This industry involves the systematic collection, refurbishment, and recycling of discarded electrical and electronic equipment to reclaim valuable materials while safely processing hazardous components. The market is primarily underpinned by the rapid shortening of product lifecycles, which accelerates the volume of obsolete electronics entering the waste stream. Furthermore, the enforcement of Extended Producer Responsibility mandates requires manufacturers to fund and organize end-of-life product management, thereby creating a structural demand for professional services that exists independently of temporary consumption trends.

However, the sector encounters significant resistance from the informal recycling economy, which functions without regulatory overheads and frequently ignores environmental safety standards. This unregulated competition negatively impacts the profitability of compliant facilities and complicates the logistics of building efficient reverse supply chains. According to the WEEE Forum, member organizations reported the formal collection of over 3.6 million tonnes of e-waste in 2024, a statistic that

underscores the substantial operational scale necessary to address these systemic inefficiencies.

## **Market Driver**

The widespread use of consumer electronics, coupled with accelerated product obsolescence, serves as the primary volume driver for the Global E-Waste Management Market. As devices such as smartphones and laptops undergo frequent technological upgrades, the functional lifespan of hardware decreases, creating a continuous and growing stream of end-of-life materials that require professional disposition. This trend guarantees a steady supply of feedstock for recycling facilities, creating a necessity for scalable infrastructure to manage the sheer mass of discarded goods. According to the 'Global E-waste Monitor 2024' by the United Nations Institute for Training and Research in March 2024, a record 62 million tonnes of e-waste was generated worldwide in 2022, highlighting the critical need for expanded management capacity to mitigate environmental risks.

Simultaneously, the global shift toward circular economy models is reshaping market dynamics by introducing financial incentives for material recovery. Manufacturers are increasingly incorporating secondary raw materials into their supply chains to address the scarcity of virgin resources and meet sustainability goals, effectively transforming waste management into a strategic sourcing channel. This shift is illustrated by major corporate commitments; for instance, Apple's '2024 Environmental Progress Report' from April 2024 noted that 56% of the cobalt used in its batteries now comes from recycled sources, demonstrating the commercial viability of high-value recovery. Additionally, industry-led initiatives are successfully formalizing collection efforts, as evidenced by the Consumer Technology Association's January 2024 announcement that the US consumer technology industry has cumulatively recycled over 5 billion pounds of electronics.

## **Market Challenge**

A primary structural challenge hindering the Global E-Waste Management Market is the existence of an unregulated informal recycling sector. These informal operators function without the overhead costs associated with environmental compliance, employee safety, and hazardous waste disposal licenses. By bypassing these regulatory mandates, informal entities can offer higher purchase prices for scrap electronics or charge lower removal fees than certified recyclers. This disparity effectively diverts massive volumes of feedstock away from the formal value chain, depriving compliant

facilities of the material necessary to achieve economies of scale and eroding their profit margins through price undercutting.

This diversion of material results in a significant economic loss that restricts market capitalization. According to the Global E-waste Monitor 2024 released by UNITAR and ITU, only 22.3 percent of the total global e-waste generated in 2022 was documented as formally collected and recycled. This extensive leakage into undocumented channels means that the formal market failed to capture approximately USD 62 billion worth of recoverable natural resources, limiting the financial capacity of regulated companies to invest in advanced recovery technologies.

## **Market Trends**

The rapid expansion of electric vehicle battery recycling infrastructure is emerging as a critical trend, driven by the necessity to manage the surging volume of spent lithium-ion cells separately from traditional consumer electronics. Specialized facilities are being constructed globally to handle the complex chemical disassembly required to recover high-purity cathode materials like nickel and cobalt, effectively creating a dedicated sub-sector within the broader management landscape. This structural shift is characterized by massive capital injections into purpose-built plants designed to close the supply chain loop for automotive OEMs. For example, Redwood Materials broke ground on its new USD 3.5 billion Battery Materials Campus in South Carolina in January 2024, establishing a significant domestic hub for circular battery manufacturing and recycling.

The integration of Artificial Intelligence and robotics for automated sorting is fundamentally transforming operational capabilities by replacing manual separation with high-speed, precision-based technologies. Facilities are deploying computer vision systems capable of identifying specific polymer grades and hazardous components at speeds that human workers cannot attain, thereby increasing material purity and reducing occupational safety risks. This technological evolution allows operators to maximize yield from heterogeneous waste streams that were previously too costly or dangerous to process efficiently. According to the 'Recycleye Unwrapped' report from December 2024, deployed AI-powered robotic systems achieved an increased average performance of 62 picks per minute, significantly outperforming traditional manual sorting rates.

## **Key Market Players**

Biffa Group

Clean Harbors, Inc.

Covanta Holding Corporation

Veolia Environment SA

Waste Connections

Remondis AG & Co. Kg

Suez Environment S.A.

Daiseki Co. Ltd

E-Waste Management Inc.

Republic Services

## **Report Scope**

In this report, the Global E-Waste Management Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### **E-Waste Management Market, By Category**

Temperature Exchange Equipment

Screens and Monitors

Lamps

Large Equipment

Small Equipment

Small IT

Telecommunication Equipment

E-Waste Management Market, By Source Type

Household Appliances

Industrial Electronics

E-Waste Management Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global E-Waste Management Market.

## **Available Customizations:**

Global E-Waste Management Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## **Company Information**

Detailed analysis and profiling of additional market players (up to five).

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