

Electronic Waste Recycling Market by Source (Household Appliances, Consumer Electronics, IT & Telecommunication, Mobile Computing Devices), Materials (Glass, Metal, Plastics), Technology, and Region - Global Forecast to 2029

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Abstracts

The electronic waste recycling market is estimated at USD 48.41 billion in 2024 and is projected to reach USD 66.33 billion by 2029, at a CAGR of 6.5% from 2024 to 2029. Metals dominated the materials segment of electronics waste recycling market in terms of value in 2023. This is due to the high worth and price for extraction of precious metals, such as gold, palladium, tin, lead and nickel from the electronics components. These contribute to the highest value contribution in the overall market, even when the volume of metals processed and extracted remains at 20.02% in 2023. Moreover, with the advancements in extraction process, metals are expected to experience higher growth rate of 6.5% during the forecast period.

“In terms of value, IT & Telecommunication segment accounted for the largest share of the overall electronic waste recycling market, by source.”

The IT & Telecommunication segment held the largest share of 37.6% in terms of value in 2023. The IT & Telecommunication sector majorly contributes to the organized electronic recycling market. The equipment that are considered under IT & Telecommunications include desktops, workstations, servers, networking devices, swipe machines, automation systems and others. As the companies that dispose of their older devices, maintains the data related to how the equipment is disposed and who is the recycler that had disposed these devices on behalf of themselves, this sector contributes in a very large proportion to the electronic recycling market.

With increase in demand for higher computational power, the companies are actively upgrading their equipment to meet the newer processing demands. This is the major reason for increase in generation of electronic wastes from this source.

“In terms of value, Lithium Battery Recycling segment accounted for the largest share of the technologies used in electronic waste recycling market.”

In 2023, lithium battery recycling technology dominated the technology segment of electronics recycling market in terms of value. High worth and price for extraction of lithium from the electronic components contributes to the growing market share of the technology. Lithium battery recycling process is one of the major recycling processes employed to recover lithium and cobalt metals from battery packs used in electronic parts.

This process significantly reduces environmental risks associated with improper disposal. Lithium-ion batteries contain toxic substances that can leach into soil and water if not handled correctly, posing serious health hazards to humans and wildlife. Recycling mitigates these risks by ensuring safe processing and disposal. Additionally, recycling lithium batteries lowers manufacturing costs. Using recycled materials requires less energy compared to producing new materials from raw sources, leading to reduced carbon emissions and a smaller environmental footprint.

“During the forecast period, the electronic waste recycling in North America region is projected to have the largest market share, in terms of volume amongst all regions.”

In terms of volume, North America accounted for the largest market share of the electronic waste recycling market due to the large volumes of electronic devices discarded from IT & Telecommunication, and household appliance sources. The leading electronic waste recyclers such as Dell Inc. (US), Quantum Lifecycle Partners (Canada), Call2Recycle, Inc. (US), and ERI (US) are working towards various innovative technologies to contribute towards regional market share. The demand for electronic waste recycling is rising in North America region due to stringent environmental regulations, government initiatives, and growing consumer awareness.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:

By Company Type- Tier 1- 60%, Tier 2- 20%, and Tier 3- 20%

By Designation- Managers- 33%, Director Level- 33%, and Others- 34%

By Region- North America- 20%, Europe- 25%, Asia Pacific- 25%, Middle East & Africa (MEA)-20%, South America- 10%.

The report provides a comprehensive analysis of company profiles:

Prominent companies include Dell Inc. (US), Umicore (Belgium), Quantum Lifecycle Partners (Canada), Enviro-Hub Holdings Ltd (Singapore), Kuusakoski Oy (Finland), Stena Metall AB (Sweden), Call2Recycle, Inc. (US), Aurubis AG (Germany), E-Parisara Pvt. Ltd. (India), ERI (US), Boliden Group (Sweden), Sims Limited (Australia), Attero (India), Veolia (France), African Trades Shading Pty (Ltd) (South Africa), Ash Recyclers (India), Techwaste Recycling, LLC (US), Tetronics Environmental Technology Company (UK), Ecoverva (India), EERC (Egypt), Global Ewaste Solutions (Canada), Greentek Solutions, LLC (US), and Great Lakes Electronic Corporation (US).

Research Coverage

This research report categorizes the electronic waste recycling market By Source (Household Appliances, Consumer Electronics, IT & Telecommunication, Mobile Computing Devices, and Other Sources), By Material (Glass, Metals, Plastics, and Other Materials), By Technology (Electrostatic Separation, Pyrometallurgical Process, Hydrometallurgical Process, and Lithium Battery Recycling, and Other Technologies), and Region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the electronic waste recycling market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. New product and service launches, mergers and acquisitions, and recent developments in the electronic waste recycling market are all covered. This report includes a competitive analysis of upcoming startups in the electronic waste recycling market ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall electronic waste recycling market and the subsegments. This report will help stakeholders understand

the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Growing Production of consumer electronics, Extended producer responsibility and regulatory compliance by manufacturers), restraints (Economic viability and high establishment costs, Logistics Challenges, Lack of uniform policies and consumer participation), opportunities (Rising consumer demand for sustainable products, Circular economy initiatives by recyclers), and challenges (Disproportionate handling capacity to actual waste generation, Market volatility and declining profit margins) influencing the growth of the electronic waste recycling market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the electronic waste recycling market.

Market Development: Comprehensive information about lucrative markets – the report analyses the electronic waste recycling market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the electronic waste recycling market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like, include Dell Inc. (US), Umicore (Belgium), Quantum Lifecycle Partners (Canada), Enviro-Hub Holdings Ltd (Singapore), Kuusakoski Oy (Finland), Stena Metall AB (Sweden), Call2Recycle, Inc. (US), Aurubis AG (Germany), E-Parisara Pvt. Ltd. (India), ERI (US), Boliden Group (Sweden), Sims Limited (Australia), Attero (India), Veolia (France), African Trades Shading Pty (Ltd) (South Africa), Ash Recyclers (India), Techwaste Recycling, LLC (US), Tetronics Environmental Technology Company (UK), Ecoverva (India), EERC (Egypt), Global Ewaste Solutions (Canada), Greentek Solutions, LLC (US), and Great Lakes Electronic Corporation (US) among others in the electronic waste recycling market.

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