

Electronic Waste Management: Global Markets and Technologies Through 2022

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Abstracts

Summary

With the advancement in technology, global demand for electrical and electronic equipment has increased dramatically. Drastic innovations have shortened the life of these products which has, in turn, exponentially increased the generation of waste from electrical and electronic equipment and global production is expected to continue to accelerate in the near future. Currently, more than REDACTED metric tons per year of electrical and electronic waste are being generated globally with a major share originating in Europe, the U.S., and Asia-Pacific region. However, in the next decade, China, Eastern Europe, South America and several countries in Africa and the Middle East are expected to become significant electronic waste producers. In Asia-Pacific region, it is expected that the production of electrical and electronic waste will increase by REDACTED between 2017 and 2022 while in Europe this percentage is expected to reach REDACTED.

Electrical and electronic waste contains many valuable and recoverable materials such as aluminum, ferrous metals, copper, gold and silver. For maximum energy and natural resources conservation, electronic waste treatment and recycling have become a major priority for many countries. Electronic waste also contains toxic and hazardous materials including mercury, lead, cadmium, chromium, antimony and many other chemicals and recycling can prevent them from posing an environmental hazard.

This report provides an overview of electrical and electronic waste management and recycling technologies in the Asia-Pacific, North American, European, South American and MEA markets. The report also examines market trades and challenges, investment opportunities, obstacles and market barriers. With regard to the geographic coverage of

this report, information is presented on both developed and developing world markets.

Electrical and electronic waste is the fastest growing segment of the global solid waste stream which totaled REDACTED in 2016 and REDACTED in 2017. BCC Research field analysis expects that the electrical and electronic waste management market will continue to show significant growth in the next five years and will reach REDACTED by 2022 at a projected five-year compound annual growth rate (CAGR) of REDACTED. In terms of the size of the electronic waste management market, recycled materials such as metals, plastic and glass formed the largest market share in 2016 followed by electronic wastetreatment technologies. Electronic waste production sources compose the third largest market segmentfor 2016 with an even greater growth rate over the next five years due to reduced life spans of electrical and electronic devices that generate rapidly growing quantities of electronic waste.

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Clean Harbors

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ANDRITZ MeWa

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AURUBIS AG

BELMONT TRADING CO. INC.

BRENTWOOD RECYCLING SYSTEMS

CIMELIA RESOURCE RECOVERY PTY. LTD.

CLEAN HARBORS INC.

COM2 RECYCLING SOLUTIONS LLC

CP MANUFACTURING INC.

CRT RECYCLING INC.

DAISEKI CO. LTD.

DONGJIANG ENVIRONMENTAL CO.LTD.

DP ELECTRONIC RECYCLING

DYNAMIC RECYCLING

EARTH E-WASTE MANAGEMENT PVT. LTD.

ECO RECYCLING LTD.

ECOMATION OY

ELDAN RECYCLING A/S

ELECTRICAL WASTE RECYCLING GROUP LTD.

ELECTRONIC RECYCLERS INTERNATIONAL INC.

ELECTRONICS RECYCLING SERVICES LLC

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EMAK REFINING AND RECYCLING

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ENVIROCOM ENGLAND LTD.
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