

Global Nuclear Waste Management Market: Size, Trend, Share, Opportunity Analysis, and Forecast, 2014-2025

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Abstracts

Nuclear waste contains radioactive material, which is the byproduct of nuclear power generation or nuclear fission applications. This waste can be of high, intermediate, and low level depending on the amount of radioactive material present in it. High level nuclear waste is produced from a nuclear reactor, which has used nuclear fuel for about three years generating heat for electricity and contains 95% radioactive material. According to Nuclear Energy Institute, nuclear industry lobbying group in the U.S., a nuclear power plant generates 20 metric tons of used nuclear fuel in a year. The entire nuclear industry has produced about 76,430 metric tons of used nuclear fuel in the last four decades. The nuclear waste produced is hazardous to the environment and humans and thus should be disposed properly by deep and permanent burial. The global nuclear waste management market is expected to grow at a CAGR of 16.3% from 2017 to 2025.

The global nuclear waste management market is segmented based on waste type, nuclear reactors, and geography. Based on the waste type, the market is divided into low level, intermediate level, and high level waste. Based on the nuclear reactor, the market is categorized into boiling water reactors, gas cooled reactors, pressurized water reactors, pressurized heavy water reactors, and others. Geographic breakdown and deep analysis of each of the aforesaid segments have resulted in the following regions: North America, Europe, Asia-Pacific, and LAMEA.

MARKET DYNAMICS:

Drivers:

Increase in consumption of energy across the globe

Shift in alternative source of energy

Restraints:

Risk associated with transportation of waste

High cost of nuclear waste treatment

MARKET PLAYERS:

The top players in the global solar energy market include American Waste Management Services Inc., Areva Inc., Bartlett Nuclear Inc., Cabrera Services Inc., Ecology Services Inc., Mid-Counties Waste Management Services Ltd., Nuclear Research and Consulting Group, Pangea Resources Pty., Ltd., Radiation Decontamination Solutions LLC, and SA Radiation Pty. Ltd.

KEY TAKEAWAYS

MARKET LANDSCAPE

By Waste Type

Low Level

Intermediate Level

High Level

By Nuclear Reactor

Boiling Water Reactors

Gas Cooled Reactors

Pressurized Water Reactors

Pressurized Heavy Water Reactors

Others

By Geography

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

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