

East Asia Refuse-Derived Fuel (RDF) Market Poised for Growth, Projected to Reach US\$ 537 Million by 2034

Analysis of Refuse-Derived Fuel (RDF) Industry Covering Countries Includes Analysis of China, Japan, and South Korea

MD, UNITED STATES, March 4, 2025 /EINPresswire.com/ -- The [refuse-derived fuel \(RDF\) industry in East Asia](#)

is experiencing significant growth, driven by stringent environmental regulations, rapid urbanization, and the pressing need for sustainable waste management solutions. As per the latest research analysis published by Fact.MR, sales of refuse-derived fuel (RDF) in East Asia are estimated at US\$ 339.3 million in 2024. The East Asian market is projected to expand at a CAGR of 4.7% and reach a valuation of US\$ 537 million by the end of 2034.



Market Development

The East Asian RDF market's development is primarily influenced by the region's commitment to environmental sustainability and waste-to-energy initiatives. Governments in countries such as China, Japan, and South Korea have implemented stringent policies to reduce landfill usage and promote alternative energy sources. This regulatory push has encouraged industries to adopt RDF as a viable solution for waste management and energy production. Additionally, advancements in RDF production technologies, including mechanical biological treatment and pyrolysis, have enhanced the efficiency and quality of RDF, making it a more attractive option for energy-intensive industries.

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Market Outlook

The future of the RDF market in East Asia appears promising, with projections indicating robust growth over the next decade. China is expected to lead the market, with anticipated sales reaching US\$ 331 million by 2034. Japan and South Korea are also significant contributors, with Japan's market projected to grow at a CAGR of 4.3% during the same period, and South Korea's RDF sales estimated at US\$ 42.8 million in 2024.

The increasing demand for sustainable energy solutions, coupled with ongoing urbanization and industrialization, is expected to drive the adoption of RDF across various sectors, including cement production, power generation, and industrial heating.

Market Analysis

A detailed analysis of the East Asian RDF market reveals a preference for low-grade RDF (with calorific value less than 10 Mj/kg), which is projected to account for over 68% of the market share by 2034.

This trend can be attributed to the abundant availability of municipal solid waste and industrial waste, which serve as primary feedstocks for low-grade RDF production. The cement industry emerges as a major consumer of RDF, utilizing it as an alternative fuel to reduce reliance on traditional fossil fuels and to lower carbon emissions. Furthermore, the co-combustion of RDF in power plants offers a dual benefit of waste reduction and energy generation, aligning with regional sustainability goals.

Industry News

Recent developments in the East Asian RDF industry highlight a dynamic and evolving landscape. In China, the government's focus on reducing carbon emissions has led to increased investments in waste-to-energy projects, with several new RDF production facilities slated for construction in the coming years. Japan is witnessing collaborations between waste management companies and energy producers to enhance RDF production capabilities, aiming to meet the country's ambitious renewable energy targets. South Korea is also making strides, with initiatives to upgrade existing waste processing infrastructure to accommodate RDF production, thereby addressing both waste disposal challenges and energy demands.

Market Dynamics

The RDF market in East Asia is influenced by a combination of drivers and challenges. Key drivers include stringent environmental regulations that mandate waste reduction and promote renewable energy adoption, technological advancements in RDF production that improve efficiency and output quality, and the economic benefits associated with utilizing waste as a resource for energy generation. However, the market faces challenges such as the high initial capital investment required for setting up RDF production facilities, public perception issues related to waste-derived fuels, and logistical complexities in waste collection and processing.

Addressing these challenges necessitates collaborative efforts between governments, industries, and communities to foster a supportive ecosystem for RDF adoption.

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Competitive Landscape

The competitive landscape of the East Asian RDF market is characterized by the presence of both established players and emerging entrants striving to capitalize on the growing demand. Companies such as China Everbright International Limited, Kyoei Steel Ltd., and Green Energy Group are prominent in the region, offering comprehensive waste-to-energy solutions. These companies are investing in research and development to enhance RDF production technologies and are forming strategic partnerships to expand their market reach. Additionally, local enterprises are exploring niche applications of RDF, catering to specific industrial needs and contributing to a diversified market portfolio. The competitive dynamics are further intensified by the entry of international players seeking to establish a foothold in the burgeoning East Asian market, leading to increased innovation and service offerings in the RDF sector.

refuse-derived fuel industry in East Asia is poised for substantial growth, driven by environmental imperatives, technological advancements, and supportive regulatory frameworks. While challenges persist, the collective efforts of stakeholders across the value chain are expected to propel the market forward, positioning RDF as a cornerstone of sustainable waste management and energy production in the region.

Key Companies Profiled-

China Everbright International Limited; Kyoei Steel Ltd.; Green Energy Group; Eco-Business

Segmentation of Refuse-Derived Fuel (RDF) Study in East Asia

By Fuel Type:

High Grade (>10 Mj/kg)

Low Grade (<10 Mj/kg)

By Application:

Cement Kilns

Co-Combustion

Gasification

CHP

By Feedstock:

Municipal Solid Waste
Industrial Waste
Commercial Waste
Construction & Demolition Waste
By Production Technology:

Mechanical Biological Treatment
Pyrolysis & Gasification
By Country:

China
Japan
South Korea

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Revenue from the sales of [refuse-derived fuel \(RDF\) in Europe](#) is estimated to reach US\$ 1.32 billion in 2024, according to a newly published study by Fact.MR. The European market is forecasted to expand at 4.2% CAGR and reach a value of US\$ 2 billion by the end of 2034.

Sales of [refuse-derived fuel \(RDF\) in Latin America](#) are calculated at US\$ 81.2 million for 2024 and are projected to increase at a CAGR of 3.1% to reach US\$ 110.19 million by 2034-end.

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