

# Middle East & Africa Refuse-Derived Fuel (RDF) Market to Reach \$2.06 Billion by 2034, Growing at 4.1% CAGR

*Analysis of Refuse-Derived Fuel (RDF) Industry Covering Countries Including Analysis of GCC Countries, Turkiye, South Africa, and Rest of MEA*



Refuse-Derived Fuel (RDF) Industry Analysis in Middle East & Africa

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/EINPresswire.com/ -- The [refuse-](#)

[derived fuel \(RDF\) industry in the Middle East and Africa](#) (MEA) is poised for significant growth, driven by evolving market dynamics, environmental policies, and a competitive landscape that underscores the region's commitment to sustainable energy solutions. The Middle East and Africa is projected to generate US\$ 1.38 billion in revenue from the sales of refuse-derived fuel (RDF) in 2024, with the market forecasted to increase to US\$ 2.06 billion by 2034. Over the next ten years (2024 to 2034), this advancement is predicted to happen at a compound annual growth rate of 4.1%.

## Market Development

The development of the RDF market in MEA is primarily influenced by stringent environmental regulations and a pressing need for effective waste management solutions. Governments across the region are implementing policies aimed at reducing landfill usage and promoting waste-to-energy (WtE) initiatives. For instance, several Gulf Cooperation Council (GCC) countries have launched projects that convert waste into energy, thereby minimizing environmental impact and addressing energy security concerns. These initiatives not only mitigate the adverse effects of waste accumulation but also contribute to the diversification of energy sources, reducing reliance on traditional fossil fuels.

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## Market Outlook

The outlook for the RDF market in MEA is promising, with several factors contributing to its

anticipated expansion. A significant driver is the increasing adoption of RDF as an alternative fuel in industries such as cement manufacturing, where it serves as a substitute for conventional fuels like coal. This shift is motivated by both economic and environmental considerations, as RDF offers a cost-effective and lower-emission alternative. Additionally, the region's rapid urbanization and industrialization have led to a surge in waste generation, necessitating efficient waste management practices. The integration of RDF production into waste management systems addresses this challenge by converting waste into a valuable energy resource.

## Market Analysis

A detailed analysis of the MEA RDF market reveals a diverse landscape shaped by various feedstock sources, production technologies, and applications. Municipal solid waste, industrial waste, commercial waste, and construction and demolition waste constitute the primary feedstocks for RDF production in the region. The choice of feedstock often depends on local waste composition and availability. In terms of production technology, mechanical biological treatment, pyrolysis, and gasification are prevalent methods employed to process waste into RDF. These technologies are selected based on factors such as efficiency, cost, and environmental impact. The primary applications of RDF in MEA include its use in cement kilns, co-combustion in power plants, gasification processes, and combined heat and power (CHP) systems. The versatility of RDF in these applications underscores its potential as a sustainable energy solution.

## Industry News

Recent developments in the MEA RDF industry highlight a growing commitment to sustainable practices and technological innovation. Several countries in the region have announced investments in state-of-the-art RDF production facilities and WtE plants. For example, the United Arab Emirates has been at the forefront, launching projects aimed at converting municipal waste into energy, thereby reducing landfill dependency and promoting renewable energy sources. Similarly, Saudi Arabia has unveiled plans to develop large-scale WtE plants as part of its broader strategy to enhance environmental sustainability and energy efficiency. These initiatives reflect a regional trend towards embracing advanced technologies and sustainable practices in waste management and energy production.

## Market Dynamics

The dynamics of the RDF market in MEA are influenced by a combination of environmental, economic, and regulatory factors. Environmental concerns, particularly those related to greenhouse gas emissions and landfill overuse, are prompting governments to implement policies that encourage the adoption of alternative fuels like RDF. Economic factors, including the rising costs of traditional fuels and the financial incentives associated with renewable energy projects, are also driving the market. Moreover, regulatory frameworks mandating waste reduction and sustainable energy use are compelling industries to explore RDF as a viable

solution. The interplay of these factors creates a conducive environment for the growth of the RDF market in the region.

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## Competitive Landscape

The competitive landscape of the MEA RDF market features a mix of local and international players striving to capitalize on emerging opportunities. Key companies such as Suez Environment, Veolia, Waste Management, Inc., Tadweer, Interwaste, and EnviroServ Waste Management are actively engaged in the region. These companies are investing in advanced technologies, expanding their operational capacities, and forming strategic partnerships to enhance their market presence. For instance, collaborations between waste management firms and industrial manufacturers are becoming increasingly common, facilitating the integration of RDF into existing energy systems. The competitive dynamics are further intensified by the entry of new players and the continuous evolution of regulatory standards, which collectively drive innovation and efficiency in the market.

the RDF industry in the Middle East and Africa is undergoing a transformative phase characterized by robust growth prospects, driven by environmental imperatives, supportive regulatory frameworks, and a dynamic competitive environment. As the region continues to prioritize sustainable development and energy diversification, RDF is poised to play a pivotal role in achieving these objectives, offering a viable solution for waste management and renewable energy production.

## Key Companies Profiled-

Suez Environment; Veolia; Waste Management, Inc.; Tadweer; Interwaste; EnviroServ Waste Management

## Segmentation of Refuse-Derived Fuel Study in Middle East & Africa

### 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 :

GCC Countries

Turkiye

South Africa

Rest of MEA

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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.

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.

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