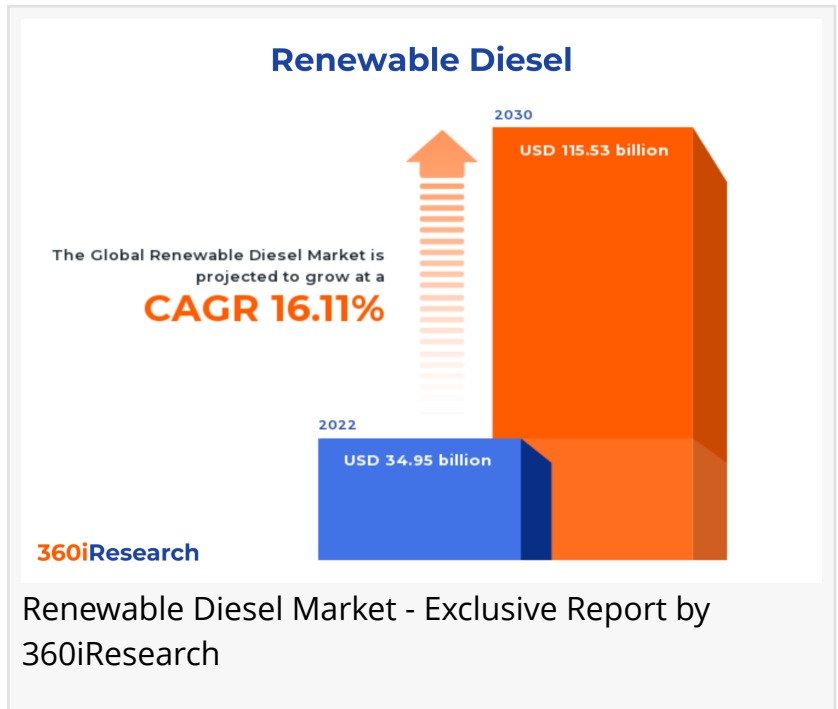


Renewable Diesel Market - Exclusive Report by 360iResearch

The Global Renewable Diesel Market to grow from USD 34.95 billion in 2022 to USD 115.53 billion by 2030, at a CAGR of 16.11%.

PUNE, MAHARASHTRA, INDIA,
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EINPresswire.com/ -- The "[Renewable Diesel Market](#) by Feedstock Type (Fresh Vegetable Oils, Waste Oils), Technology (Biomass-to-Liquid, Hydrotreating, Pyrolysis-Rapid Thermal), End-User - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



The Global Renewable Diesel Market to grow from USD 34.95 billion in 2022 to USD 115.53 billion by 2030, at a CAGR of 16.11%.

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Renewable diesel is majorly made from fats and vegetable oils and is processed to be chemically similar to petroleum diesel. It is produced most often by hydrotreating and also via gasification, pyrolysis, and other biochemical and thermochemical technologies. Renewable diesel's high use in buses, waste transport, and emergency response vehicles is expanding its making. In the past few years, there has been several government initiatives to accelerate the use and development of renewable fuels. Advanced quality and performance tracking certifications and standards have been established to ensure their safety. However, increasing cost of organic feedstocks and lubricity limitations of renewable diesel fuels impede their extensive use. Advancements in the production and sourcing technologies of renewable diesel curb this limitation. End-users and market players have been involved in strategic collaboration activities to expand their deployment across industry activities.

Technology: Hydrotreating, gasification, and pyrolysis are exponential used method in producing renewable diesel

Renewable diesel production technologies have gained significant traction in recent years due to their potential to mitigate greenhouse gas emissions and promote sustainable development. Biomass-to-Liquid (BTL), hydrotreating, and pyrolysis-based Rapid Thermal Processing (RTP) are significant methods. BTL technology converts a wide range of biomass feedstocks into liquid biofuels through thermochemical or biochemical processes, such as gasification and fermentation. Hydrotreating is a well-established refining method that employs hydrogen and catalysts to remove impurities from petroleum-derived feedstocks. This process can also transform vegetable oils, animal fats, and other lipids into high-quality renewable diesel with low sulfur content and excellent combustion properties. Pyrolysis-based RTP involves the thermal decomposition of biomass feedstock at high temperatures and short residence times to produce bio-oil, syngas, and char. Bio-oil can be further upgraded to renewable diesel via hydrotreating or other refining techniques. Moreover, hydrotreating enables drop-in fuel production using existing infrastructure, providing a cost-effective approach to renewable diesel generation. While pyrolysis-RTP can efficiently handle challenging feedstocks and generate valuable co-products, it may face obstacles in bio-oil upgrading and commercial scalability.

End-User: Renewable diesel is a source of clean energy source for mining, oil & gas operations The renewable diesel market caters to various industrial and transportation end-user segments, each driven by the need for sustainable energy, reduced greenhouse gas emissions, and compliance with regulatory standards. Industrial sectors such as power generation, heating & cooling, and manufacturing are increasingly adopting renewable diesel as a cleaner alternative to traditional fossil fuels. In the transportation segment, road transport dominates renewable diesel demand due to urbanization growth and heavy-duty vehicle fleet expansions. Aviation and rail transport providers have also turned towards customized renewable diesel blends. Moreover, both industrial and transportation segments are actively adopting renewable diesel due to its environmental benefits and regulatory compliance requirements.

Feedstock Type: Companies can lower their carbon footprint while also saving energy and reducing costs by producing diesel from waste oil

Renewable diesel production relies on fresh vegetable oils and waste oils as feedstock. Fresh vegetable oils, sourced from soybean, rapeseed, palm, and sunflower crops, are favored for their low carbon intensity, availability, and scalability. Government incentives supporting eco-friendly alternatives have also increased the demand for fresh vegetable oil-based fuels. Waste oils, including used cooking oil (UCO), animal fats, and greases that have reached the end of their useful life cycle as food products, provide a sustainable alternative fuel source with a smaller carbon footprint than conventional diesel. Regulatory bodies such as the European Commission recognize the importance of waste oils under the Renewable Energy Directive II (RED II), further bolstering their role in achieving sustainability goals.

Regional Insights:

The policy environment for renewable diesel has led to a cascade of new projects, including new

standalone facilities, conversions of pre-existing refinery units, and co-processing with fossil fuels at refineries in the Americas. The United States supports renewable diesel supply via the national level Renewable Fuel Standard, a biomass-based diesel blenders tax credit, and state-level policies such as the Oregon Clean Fuels Program and California Low Carbon Fuel Standard. Countries in Southeast Asia have been pressing the use of renewable diesel (RD) as an alternative to petroleum diesel. Currently, the major RD produced and consumed in Southeast Asia is biodiesel (BD), produced from edible oils. The European region also observes high production of renewable diesel with the rise of significant market players and the automotive industry's shift to sustainable fuel usage.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Renewable Diesel Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Renewable Diesel Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Renewable Diesel Market, highlighting leading vendors and their innovative profiles. These include Aemetis, Inc., Ag Processing Inc, Agilent Technologies, Inc., AMERICAN GREENFUELS, LLC, Calumet Specialty Products Partners, L.P., Cargill, Incorporated, Chevron Corporation, Diamond Green Diesel, Elite Natural Oils & Fuels Pvt. Ltd., Emami Agrotech Limited (EAL), Eni S.p.A., Erigo Bio Fuels P Ltd., Euglena Co., Ltd., Exxon Mobil Corporation, Geekay Fuels, Gevo, Inc., Global Clean Energy Holdings, Inc., HF Sinclair Corporation, Kern Energy, Louis Dreyfus Company, Marathon Petroleum Corporation, Metrohm AG, Milton Roy by Ingersoll Rand Inc., Muenzer Bharat Private Limited, Neste Corporation, NSR Industries, Olleco by ABP Food Group, Pan Oleo Energy Limited, PBF Energy Inc., Phillips 66 Company, RB Fuels, Revo International Inc., Shell PLC, The Archer-Daniels-Midland Company, The Ashcourt Group, Valero Energy Corporation, Veoli Environnement S A, and VERBIO Vereinigte BioEnergie AG.

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Market Segmentation & Coverage:

This research report categorizes the Renewable Diesel Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Feedstock Type, market is studied across Fresh Vegetable Oils and Waste Oils. The Fresh Vegetable Oils is further studied across Canola Oil, Corn Oil, Palm Oil, Soybean Oil, and Sunflower Oil. The Waste Oils is further studied across Fish Oil, Tallow, and Used Cooking Oil. The Waste Oils commanded largest market share of 42.12% in 2022, followed by Fresh Vegetable Oils.

Based on Technology, market is studied across Biomass-to-Liquid, Hydrotreating, and Pyrolysis-Rapid Thermal. The Pyrolysis-Rapid Thermal commanded largest market share of 45.23% in 2022, followed by Hydrotreating.

Based on End-User, market is studied across Industrial and Transportation. The Industrial commanded largest market share of 62.78% in 2022, followed by Transportation.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Europe, Middle East & Africa commanded largest market share of 41.67% in 2022, followed by Americas.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Renewable Diesel Market, by Feedstock Type
7. Renewable Diesel Market, by Technology
8. Renewable Diesel Market, by End-User
9. Americas Renewable Diesel Market
10. Asia-Pacific Renewable Diesel Market

11. Europe, Middle East & Africa Renewable Diesel Market
12. Competitive Landscape
13. Competitive Portfolio
14. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Renewable Diesel Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Renewable Diesel Market?
3. What is the competitive strategic window for opportunities in the Renewable Diesel Market?
4. What are the technology trends and regulatory frameworks in the Renewable Diesel Market?
5. What is the market share of the leading vendors in the Renewable Diesel Market?
6. What modes and strategic moves are considered suitable for entering the Renewable Diesel Market?

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