

Green Diesel Market Size, Share, and Analysis, By Type (Blended Biodiesel, Pure Biodiesel), By Raw Material (Animal Fats, Vegetable Oils, and Waste Oils), By Production Technology (Hydro-processing, Gasification, and Pyrolysis), By Application (Transportation, Power Generation, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

<https://marketpublishers.com/r/G2D5AADA6678EN.html>

Date: February 2025

Pages: 612

Price: US\$ 5,250.00 (Single User License)

ID: G2D5AADA6678EN

Abstracts

Green Diesel Market Size, Share, and Analysis, By Type (Blended Biodiesel, Pure Biodiesel), By Raw Material (Animal Fats, Vegetable Oils, and Waste Oils), By Production Technology (Hydro-processing, Gasification, and Pyrolysis), By Application (Transportation, Power Generation, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

PRODUCT OVERVIEW

Green Diesel Market is projected to exhibit a Compound Annual Growth Rate (CAGR) of 12.1% during the forecast span from 2024 to 2034. In 2023, the market size was assessed at USD 33.3 billion and is projected to reach USD 117.2 billion by the completion of 2034.

Green diesel, also known as renewable diesel, is a renewable-based fuel that can replace traditional petroleum diesel. Unlike biodiesel, which needs to be mixed with petroleum diesel, green diesel is chemically similar to fossil diesel and can be used in existing diesel engines without modifications. It is derived from a variety of feedstocks,

including vegetable oils, animal fats, used cooking oil (UCO), and algae. Production processes include hydrotreating, which converts fats and oils into hydrocarbons similar to conventional diesel, and pyrolysis, which decomposes organic materials at high temperatures without oxygen. Green diesel significantly decreases greenhouse gas emissions by up to 80% compared to regular diesel and lowers emissions of particulates, sulfur oxides, and nitrogen oxides, improving air quality. It has the same energy content, cetane number, and cold flow characteristics as petroleum diesel, making it suitable for use in transportation, such as vehicles, trucks, buses, ships, and planes.

MARKET HIGHLIGHTS

Green Diesel Market is projected to reach USD 117.2 billion in the forecast period. Environmental concerns and global efforts to reduce greenhouse gas emissions are driving the demand for green diesel, which emerges as a sustainable option with significantly lower emissions than standard diesel. Governments worldwide are promoting the shift to green diesel through tax benefits, subsidies, and blending regulations, increasing its economic value. Advancements in production efficiency technology are driving down prices, while ongoing research into innovative feedstocks ensures a reliable and sustainable supply chain, leading to a surge in the demand for green diesel. The compatibility of green diesel with existing infrastructure is also streamlining its adoption process.

Green Diesel Market Segments:

By Type

Blended Biodiesel

Pure Biodiesel

By Raw Material

Animal Fats

Vegetable Oils

Waste Oils

By Production Technology

Hydro-processing

Gasification

Pyrolysis

By Application

Transportation

Power Generation

Others

MARKET DYNAMICS

Growth Drivers

Environmental regulations are Critical to Boost the Adoption of Green Diesel

Technological Advancements Will Aid the Market

Restraint

Cost competitiveness can Limit the Growth of the Green Diesel Market

Key Players

Neste Corporation

Shell

Wilmar International Limited

Enerkem

TotalEnergies

Honeywell UOP

Renewable Energy Group, Inc. (REG)

Marathon Petroleum Corporation

Diamond Green Diesel

Chevron Corporation

UPM Biofuels

Eni S.p.A.

Phillips 66

ExxonMobil

Gevo, Inc.

Other Prominent Players (Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis)

Global Laboratory Temperature Control Units Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of

Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Reasons to Purchase this Report

Qualitative and quantitative analysis of the market based on segmentation involving both economic as well as non-economic factors

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry with respect to recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market of various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

3-month post-sales analyst support.

Contents

1. EXECUTIVE SUMMARY

- 1.1. Regional Market Share
- 1.2. Business Trends
- 1.3. Green Diesel Market: COVID-19 Outbreak
- 1.4. Regional Trends
- 1.5. Segmentation Snapshot

2. RESEARCH METHODOLOGY

- 2.1. Research Objective
- 2.2. Research Approach
- 2.3. Data Sourcing and Methodology
- 2.4. Primary Research
- 2.5. Secondary Research
 - 2.5.1. Paid Sources
 - 2.5.2. Public Sources
- 2.6. Market Size Estimation and Data Triangulation

3. MARKET CHARACTERISTICS

- 3.1. Market Definition
- 3.2. Green Diesel Market: COVID-19 Impact
- 3.3. Key Segmentations
- 3.4. Key Developments
- 3.5. Allied Industry Data

4. GREEN DIESEL MARKET – INDUSTRY INSIGHTS

- 4.1. Industry Segmentation
- 4.2. COVID-19 overview of world economy
- 4.3. Industry Ecosystem Channel Analysis
- 4.4. Innovation & Sustainability

5. MACROECONOMIC INDICATORS

6. RECENT DEVELOPMENTS

7.MARKET DYNAMICS

- 7.1. Introduction
- 7.2.Growth Drivers
- 7.3.Market Opportunities
- 7.4. Market Restraints
- 7.5.Market Trends

8. RISK ANALYSIS

9. MARKET ANALYSIS

- 9.1. Porter's Five Forces
- 9.2.PEST Analysis
 - 9.2.1. Political
 - 9.2.2.Economic
 - 9.2.3.Social
 - 9.2.4.Technological

10. GREEN DIESEL MARKET

- 10.1.Overview
- 10.2. Historical Analysis (2018-2022)
 - 10.2.1. Market Size, Y-o-Y Growth (%) and Market Forecast

11.GREEN DIESEL MARKET SIZE & FORECAST 2024A-2034F

- 11.1.Overview
- 11.2. Key Findings
- 11.3. Market Segmentation
 - 11.3.1.By Type
 - 11.3.1.1. Blended Biodiesel
 - 11.3.1.1.1. By Value (USD Million) 2024A-2034F
 - 11.3.1.1.2.Market Share (%) 2024A-2034F
 - 11.3.1.1.3.Y-o-Y Growth (%) 2024A-2034F
 - 11.3.1.2.Pure Biodiesel
 - 11.3.1.2.1.By Value (USD Million) 2024A-2034F
 - 11.3.1.2.2. Market Share (%) 2024A-2034F

- 11.3.1.2.3. Y-o-Y Growth (%) 2024A-2034F
- 11.3.2. By Raw Material
 - 11.3.2.1. Animal Fats
 - 11.3.2.1.1. By Value (USD Million) 2024A-2034F
 - 11.3.2.1.2. Market Share (%) 2024A-2034F
 - 11.3.2.1.3. Y-o-Y Growth (%) 2024A-2034F
 - 11.3.2.2. Vegetable Oils
 - 11.3.2.2.1. By Value (USD Million) 2024A-2034F
 - 11.3.2.2.2. Market Share (%) 2024A-2034F
 - 11.3.2.2.3. Y-o-Y Growth (%) 2024A-2034F
 - 11.3.2.3. Waste Oils
 - 11.3.2.3.1. By Value (USD Million) 2024A-2034F
 - 11.3.2.3.2. Market Share (%) 2024A-2034F
 - 11.3.2.3.3. Y-o-Y Growth (%) 2024A-2034F
- 11.3.3. By Production Technology
 - 11.3.3.1. Hydro-processing
 - 11.3.3.1.1. By Value (USD Million) 2024A-2034F
 - 11.3.3.1.2. Market Share (%) 2024A-2034F
 - 11.3.3.1.3. Y-o-Y Growth (%) 2024A-2034F
 - 11.3.3.2. Glasification
 - 11.3.3.2.1. By Value (USD Million) 2024A-2034F
 - 11.3.3.2.2. Market Share (%) 2024A-2034F
 - 11.3.3.2.3. Y-o-Y Growth (%) 2024A-2034F
 - 11.3.3.3. Pyrolysis
 - 11.3.3.3.1. By Value (USD Million) 2024A-2034F
 - 11.3.3.3.2. Market Share (%) 2024A-2034F
 - 11.3.3.3.3. Y-o-Y Growth (%) 2024A-2034F
- 11.3.4. By Application
 - 11.3.4.1. Transportation
 - 11.3.4.1.1. By Value (USD Million) 2024A-2034F
 - 11.3.4.1.2. Market Share (%) 2024A-2034F
 - 11.3.4.1.3. Y-o-Y Growth (%) 2024A-2034F
 - 11.3.4.2. Power Generation
 - 11.3.4.2.1. By Value (USD Million) 2024A-2034F
 - 11.3.4.2.2. Market Share (%) 2024A-2034F
 - 11.3.4.2.3. Y-o-Y Growth (%) 2024A-2034F
 - 11.3.4.3. Others
 - 11.3.4.3.1. By Value (USD Million) 2024A-2034F
 - 11.3.4.3.2. Market Share (%) 2024A-2034F

11.3.4.3.3. Y-o-Y Growth (%) 2024A-2034F

12. NORTH AMERICA GREEN DIESEL MARKET SIZE & FORECAST 2024A-2034F

- 12.1. Overview
- 12.2. Key Findings
- 12.3. Market Segmentation
 - 12.3.1. By Type
 - 12.3.2. By Raw Material
 - 12.3.3. By Production Technology
 - 12.3.4. By Application
- 12.4. Country
 - 12.4.1. United States
 - 12.4.2. Canada

13. EUROPE GREEN DIESEL MARKET SIZE & FORECAST 2024A-2034F

- 13.1. Overview
- 13.2. Key Findings
- 13.3. Market Segmentation
 - 13.3.1. By Type
 - 13.3.2. By Raw Material
 - 13.3.3. By Production Technology
 - 13.3.4. By Application
- 13.4. Country
 - 13.4.1. Germany
 - 13.4.2. United Kingdom
 - 13.4.3. France
 - 13.4.4. Italy
 - 13.4.5. Spain
 - 13.4.6. Russia
 - 13.4.7. Rest of Europe (BENELUX, NORDIC, Hungary, Turkey & Poland)

14. ASIA-PACIFIC GREEN DIESEL MARKET SIZE & FORECAST 2024A-2034F

- 14.1. Overview
- 14.2. Key Findings
- 14.3. Market Segmentation
 - 14.3.1. By Type

- 14.3.2.By Raw Material
- 14.3.3.By Production Technology
- 14.3.4. By Application
- 14.4.Country
 - 14.4.1.India
 - 14.4.2.China
 - 14.4.3. South Korea
 - 14.4.4. Japan
 - 14.4.5. Rest of APAC

15. MIDDLE EAST AND AFRICA GREEN DIESEL MARKET SIZE & FORECAST 2024A-2034F

- 15.1.Overview
- 15.2. Key Findings
- 15.3. Market Segmentation
 - 15.3.1. By Type
 - 15.3.2.By Raw Material
 - 15.3.3.By Production Technology
 - 15.3.4.By Application
- 15.4. Country
 - 15.4.1.Israel
 - 15.4.2.GCC
 - 15.4.3.North Africa
 - 15.4.4. South Africa
 - 15.4.5.Rest of Middle East and Africa

16. LATIN AMERICA GREEN DIESEL MARKET SIZE & FORECAST 2024A-2034F

- 16.1. Overview
- 16.2. Key Findings
- 16.3. Market Segmentation
 - 16.3.1. By Type
 - 16.3.2.By Raw Material
 - 16.3.3.By Production Technology
 - 16.3.4.By Application
- 16.4. Country
 - 16.4.1.Mexico
 - 16.4.2.Brazil

16.4.3. Rest of Latin America

17. COMPETITIVE LANDSCAPE

17.1. Company market share, 2023

17.2. Key player overview

17.3. Key stakeholders

18. COMPANY PROFILES

18.1. Neste Corporation

18.1.1. Company Overview

18.1.2. Financial Overview

18.1.3. Key Product; Analysis

18.1.4. Company Assessment

18.1.4.1. Product Portfolio

18.1.4.2. Key Clients

18.1.4.3. Market Share

18.1.4.4. Recent News & Development (Last 3 Yrs.)

18.2. Shell

18.3. Wilmar International Limited

18.4. Enerkem

18.5. TotalEnergies

18.6. Honeywell UOP

18.7. Renewable Energy Group, Inc. (REG)

18.8. Marathon Petroleum Corporation

18.9. Diamond Green Diesel

18.10. Chevron Corporation

18.11. UPM Biofuels

18.12. Eni S.p.A.

18.13. Phillips

18.14. ExxonMobil

18.15. Gevo, Inc.

18.16. Other Prominent Players

19. APPENDIX

20. CONSULTANT RECOMMENDATION

I would like to order

Product name: Green Diesel Market Size, Share, and Analysis, By Type (Blended Biodiesel, Pure Biodiesel), By Raw Material (Animal Fats, Vegetable Oils, and Waste Oils), By Production Technology (Hydro-processing, Gasification, and Pyrolysis), By Application (Transportation, Power Generation, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

Product link: <https://marketpublishers.com/r/G2D5AADA6678EN.html>

Price: US\$ 5,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G2D5AADA6678EN.html>