

# **B5 Fuel Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Feedstock (Vegetable Oils {Rapeseed Oil, Palm Oil}, Animal Fats {Poultry, Tallow}), By Application (Industrial Fuels, Transportation Fuels, Chemical Industry, Others), By Region, and By Competition 2020-2030F**

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## **Abstracts**

The Global B5 fuel Market was valued at USD 21.83 Billion in 2024 and is predicted to reach USD 30.88 Billion by 2030 with a CAGR of 5.79% during the forecast period. The global B5 fuel market is characterized by a transformative shift towards sustainable energy solutions, primarily driven by environmental concerns and the need to reduce carbon emissions. B5 fuel, a biodiesel blend comprising 5% biodiesel and 95% conventional petroleum diesel, has gained prominence as a cleaner-burning alternative, particularly in the transportation sector. The dominance of B5 is propelled by its compatibility with existing diesel engines, making it a practical and readily adoptable solution for commercial fleets, public transportation, and private vehicles worldwide. Governments globally are playing a pivotal role in shaping the market through blending mandates, tax incentives, and regulatory frameworks that encourage the use of biofuels. The positive consumer perception of B5 as an eco-friendly fuel further contributes to its widespread adoption. As the transportation industry undergoes a paradigm shift towards cleaner mobility, B5 emerges as a key player, offering not only reduced carbon emissions but also contributing to energy security and sustainable practices. The B5 fuel market's trajectory is indicative of a broader global commitment to greener energy sources and a sustainable future, with B5 positioned as a driving force in the transition towards cleaner and more environmentally conscious fuel options.

## **Key Market Drivers**

## Environmental Sustainability and Regulatory Support:

One of the primary drivers fueling the global B5 fuel market is the increasing emphasis on environmental sustainability and the strong support from regulatory frameworks. Governments worldwide are recognizing the need to reduce greenhouse gas emissions and combat climate change. B5 fuel, which consists of a 5% biodiesel blend with traditional petroleum diesel, offers a cleaner and more environmentally friendly alternative to conventional fuels. Regulatory mandates and incentives, such as blending requirements and tax credits for biofuels, are driving the adoption of B5. The alignment of B5 with sustainability goals positions it as a key driver in the transition toward greener and more sustainable energy sources. By 2030, over 80% of industrial sectors globally are projected to implement sustainability programs, directly boosting the demand for renewable fuels like B5 biodiesel, which contributes to carbon reduction and cleaner energy solutions.

## Key Market Challenges

### Feedstock Availability and Competition:

One of the primary challenges facing the global B5 fuel market is the availability and competition for suitable feedstocks for biodiesel production. B5 fuel typically relies on biodiesel derived from feedstocks such as soybean oil, rapeseed oil, or used cooking oil. The competition between the biodiesel industry and other sectors, such as the food industry, for these feedstocks can lead to price volatility and supply chain disruptions. Concerns about the impact of biodiesel production on food security and land use present challenges that need to be addressed through sustainable sourcing practices and the development of alternative feedstocks.

## Key Market Trends

### Rising Demand for Biofuels:

The global B5 fuel market is experiencing a notable trend of increasing demand for biofuels, particularly B5 blends. B5 fuel, consisting of 5% biodiesel and 95% traditional petroleum diesel, offers environmental benefits by reducing greenhouse gas emissions and dependence on fossil fuels. This trend is driven by a growing awareness of the environmental impact of traditional fuels and a commitment to sustainable energy sources. Governments and industries globally are adopting policies and practices that

encourage the use of biofuels, positioning B5 as a transitional solution toward more sustainable and renewable energy alternatives.

#### Key Market Players

Neste Oyj

POET, LLC.

ADM (Group) Limited

Cosan S.A.

Petr?leo Brasileiro SA

Exxon Mobil Corporation

Shell plc

BP p.l.c.

ECB Group

Chevron Corporation

#### Report Scope:

In this report, the Global B5 Fuel Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

B5 Fuel Market, By Feedstock:

Vegetable Oils

Rapeseed Oil

Palm Oil

Animal Fats

Poultry

Tallow

B5 Fuel Market, By Application:

Industrial Fuels

Transportation Fuels

Chemical Industry

Others

B5 Fuel Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Global B5 Fuel Market.

## Available Customizations:

Global B5 Fuel Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### 2. RESEARCH METHODOLOGY

- 2.1. Baseline Methodology
- 2.2. Key Industry Partners
- 2.3. Major Association and Secondary Sources
- 2.4. Forecasting Methodology
- 2.5. Data Triangulation & Validation
- 2.6. Assumptions and Limitations

### 3. EXECUTIVE SUMMARY

### 4. VOICE OF CUSTOMER

### 5. GLOBAL B5 FUEL MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Feedstock (Vegetable Oils {Rapeseed Oil, Palm Oil}, Animal Fats {Poultry, Tallow})
  - 5.2.2. By Application (Industrial Fuels, Transportation Fuels, Chemical Industry, Others)
  - 5.2.3. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 5.3. By Company (2024)
- 5.4. Market Map

### 6. NORTH AMERICA B5 FUEL MARKET OUTLOOK

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Feedstock
    - 6.2.1.1. Vegetable Oils
    - 6.2.1.2. Animal Fats
  - 6.2.2. By Application
  - 6.2.3. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States B5 Fuel Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Feedstock
      - 6.3.1.2.2. By Application
  - 6.3.2. Canada B5 Fuel Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Feedstock
      - 6.3.2.2.2. By Application
  - 6.3.3. Mexico B5 Fuel Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value
    - 6.3.3.2. Market Share & Forecast
      - 6.3.3.2.1. By Feedstock
      - 6.3.3.2.2. By Application

## **7. EUROPE B5 FUEL MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Feedstock
    - 7.2.1.1. Vegetable Oils
    - 7.2.1.2. Animal Fats
  - 7.2.2. By Application
  - 7.2.3. By Country
- 7.3. Europe: Country Analysis



- 7.3.1. Germany B5 Fuel Market Outlook
  - 7.3.1.1. Market Size & Forecast
    - 7.3.1.1.1. By Value
  - 7.3.1.2. Market Share & Forecast
    - 7.3.1.2.1. By Feedstock
    - 7.3.1.2.2. By Application
- 7.3.2. France B5 Fuel Market Outlook
  - 7.3.2.1. Market Size & Forecast
    - 7.3.2.1.1. By Value
  - 7.3.2.2. Market Share & Forecast
    - 7.3.2.2.1. By Feedstock
    - 7.3.2.2.2. By Application
- 7.3.3. United Kingdom B5 Fuel Market Outlook
  - 7.3.3.1. Market Size & Forecast
    - 7.3.3.1.1. By Value
  - 7.3.3.2. Market Share & Forecast
    - 7.3.3.2.1. By Feedstock
    - 7.3.3.2.2. By Application
- 7.3.4. Italy B5 Fuel Market Outlook
  - 7.3.4.1. Market Size & Forecast
    - 7.3.4.1.1. By Value
  - 7.3.4.2. Market Share & Forecast
    - 7.3.4.2.1. By Feedstock
    - 7.3.4.2.2. By Application
- 7.3.5. Spain B5 Fuel Market Outlook
  - 7.3.5.1. Market Size & Forecast
    - 7.3.5.1.1. By Value
  - 7.3.5.2. Market Share & Forecast
    - 7.3.5.2.1. By Feedstock
    - 7.3.5.2.2. By Application

## **8. SOUTH AMERICA B5 FUEL MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Feedstock
    - 8.2.1.1. Vegetable Oils
    - 8.2.1.2. Animal Fats

- 8.2.2. By Application
- 8.2.3. By Country
- 8.3. South America: Country Analysis
  - 8.3.1. Brazil B5 Fuel Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Feedstock
      - 8.3.1.2.2. By Application
  - 8.3.2. Colombia B5 Fuel Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Feedstock
      - 8.3.2.2.2. By Application
  - 8.3.3. Argentina B5 Fuel Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Feedstock
      - 8.3.3.2.2. By Application

## **9. MIDDLE EAST & AFRICA B5 FUEL MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Feedstock
    - 9.2.1.1. Vegetable Oils
    - 9.2.1.2. Animal Fats
  - 9.2.2. By Application
  - 9.2.3. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia B5 Fuel Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Feedstock
      - 9.3.1.2.2. By Application

### 9.3.2. UAE B5 Fuel Market Outlook

#### 9.3.2.1. Market Size & Forecast

##### 9.3.2.1.1. By Value

#### 9.3.2.2. Market Share & Forecast

##### 9.3.2.2.1. By Feedstock

##### 9.3.2.2.2. By Application

### 9.3.3. South Africa B5 Fuel Market Outlook

#### 9.3.3.1. Market Size & Forecast

##### 9.3.3.1.1. By Value

#### 9.3.3.2. Market Share & Forecast

##### 9.3.3.2.1. By Feedstock

##### 9.3.3.2.2. By Application

## 10. ASIA PACIFIC B5 FUEL MARKET OUTLOOK

### 10.1. Market Size & Forecast

#### 10.1.1. By Value

### 10.2. Market Share & Forecast

#### 10.2.1. By Feedstock

##### 10.2.1.1. Vegetable Oils

##### 10.2.1.2. Animal Fats

#### 10.2.2. By Application

#### 10.2.3. By Country

### 10.3. Asia Pacific: Country Analysis

#### 10.3.1. China B5 Fuel Market Outlook

##### 10.3.1.1. Market Size & Forecast

##### 10.3.1.1.1. By Value

##### 10.3.1.2. Market Share & Forecast

##### 10.3.1.2.1. By Feedstock

##### 10.3.1.2.2. By Application

#### 10.3.2. India B5 Fuel Market Outlook

##### 10.3.2.1. Market Size & Forecast

##### 10.3.2.1.1. By Value

##### 10.3.2.2. Market Share & Forecast

##### 10.3.2.2.1. By Feedstock

##### 10.3.2.2.2. By Application

#### 10.3.3. Japan B5 Fuel Market Outlook

##### 10.3.3.1. Market Size & Forecast

##### 10.3.3.1.1. By Value

- 10.3.3.2. Market Share & Forecast
  - 10.3.3.2.1. By Feedstock
  - 10.3.3.2.2. By Application
- 10.3.4. South Korea B5 Fuel Market Outlook
  - 10.3.4.1. Market Size & Forecast
    - 10.3.4.1.1. By Value
  - 10.3.4.2. Market Share & Forecast
    - 10.3.4.2.1. By Feedstock
    - 10.3.4.2.2. By Application
- 10.3.5. Australia B5 Fuel Market Outlook
  - 10.3.5.1. Market Size & Forecast
    - 10.3.5.1.1. By Value
  - 10.3.5.2. Market Share & Forecast
    - 10.3.5.2.1. By Feedstock
    - 10.3.5.2.2. By Application

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS AND DEVELOPMENTS**

## **13. COMPANY PROFILES**

- 13.1. Neste Oyj
  - 13.1.1. Business Overview
  - 13.1.2. Key Revenue and Financials
  - 13.1.3. Recent Developments
  - 13.1.4. Key Personnel
  - 13.1.5. Key Product/Services Offered
- 13.2. POET, LLC.
  - 13.2.1. Business Overview
  - 13.2.2. Key Revenue and Financials
  - 13.2.3. Recent Developments
  - 13.2.4. Key Personnel
  - 13.2.5. Key Product/Services Offered
- 13.3. ADM (Group) Limited
  - 13.3.1. Business Overview

- 13.3.2. Key Revenue and Financials
- 13.3.3. Recent Developments
- 13.3.4. Key Personnel
- 13.3.5. Key Product/Services Offered
- 13.4. Cosan S.A.
  - 13.4.1. Business Overview
  - 13.4.2. Key Revenue and Financials
  - 13.4.3. Recent Developments
  - 13.4.4. Key Personnel
  - 13.4.5. Key Product/Services Offered
- 13.5. Petr?leo Brasileiro SA
  - 13.5.1. Business Overview
  - 13.5.2. Key Revenue and Financials
  - 13.5.3. Recent Developments
  - 13.5.4. Key Personnel
  - 13.5.5. Key Product/Services Offered
- 13.6. Exxon Mobil Corporation
  - 13.6.1. Business Overview
  - 13.6.2. Key Revenue and Financials
  - 13.6.3. Recent Developments
  - 13.6.4. Key Personnel
  - 13.6.5. Key Product/Services Offered
- 13.7. Shell plc
  - 13.7.1. Business Overview
  - 13.7.2. Key Revenue and Financials
  - 13.7.3. Recent Developments
  - 13.7.4. Key Personnel
  - 13.7.5. Key Product/Services Offered
- 13.8. BP p.l.c.
  - 13.8.1. Business Overview
  - 13.8.2. Key Revenue and Financials
  - 13.8.3. Recent Developments
  - 13.8.4. Key Personnel
  - 13.8.5. Key Product/Services Offered
- 13.9. ECB Group
  - 13.9.1. Business Overview
  - 13.9.2. Key Revenue and Financials
  - 13.9.3. Recent Developments
  - 13.9.4. Key Personnel

13.9.5. Key Product/Services Offered

13.10. Chevron Corporation

13.10.1. Business Overview

13.10.2. Key Revenue and Financials

13.10.3. Recent Developments

13.10.4. Key Personnel

13.10.5. Key Product/Services Offered

## **14. STRATEGIC RECOMMENDATIONS**

## **15. ABOUT US & DISCLAIMER**

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