

South Korea Biodiesel Market Size, Share, Trends and Forecast by Feedstock, Application, Type, Production Technology, and Region, 2026-2034

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Abstracts

The South Korea biodiesel market size reached USD 919.0 Million in 2025. The market is projected to reach USD 1,433.9 Million by 2034, exhibiting a growth rate (CAGR) of 4.86% during 2026-2034. At present, the government is vigorously encouraging the adoption of biodiesel via favorable policies, blending requirements, and incentives to reduce the carbon emissions of the transportation and industrial sectors. Besides this, awareness is being created and job opportunities are being fostered through educational campaigns and policy backing, contributing to the expansion of the South Korea biodiesel market share.

SOUTH KOREA BIODIESEL MARKET TRENDS:

Growing concerns about air pollution and carbon emissions

Rising concerns about air pollution and carbon emissions are positively influencing the market in South Korea. According to industry reports, in 2024, per capita carbon emissions in South Korea were nearly three times the global average. With increasing awareness about the harmful effects of vehicle emissions and industrial pollution on public health and the environment, there is a growing demand for low-emission fuel options. Biodiesel, being a renewable and cleaner-burning fuel, offers a practical solution for reducing particulate matter, sulfur dioxide, and greenhouse gas emissions. The government is actively promoting the use of biodiesel through supportive policies, blending mandates, and incentives to minimize the carbon footprint of the transportation and industrial sectors. Public and private sectors are adopting biodiesel to meet environmental targets and improve sustainability practices. As urban air quality is becoming a critical issue, especially in densely populated cities, biodiesel is gaining

acceptance for its potential to support cleaner urban transport systems. Additionally, public pressure and environmental activism are motivating industries and logistics providers to switch to biodiesel as part of their green initiatives. Local production of biodiesel from waste cooking oils and other sustainable feedstocks is adding to its appeal, ensuring a circular economy approach.

Rising adoption of renewable energy

Increasing adoption of renewable energy is propelling the South Korea biodiesel market growth. As per the IMARC Group, the South Korea renewable energy market size reached 55.6 TWh in 2024. As the country is investing heavily in expanding its renewable energy portfolio, biodiesel is becoming an essential part of its broader energy diversification strategy. Biodiesel complements solar, wind, and other clean energy sources by offering a liquid fuel option that can be easily integrated into existing fuel infrastructure. Its compatibility with diesel engines allows a smoother transition without requiring major equipment overhauls. Government energy roadmaps increasingly include biodiesel as a key component in achieving long-term sustainability targets. The adoption of renewable energy is also stimulating research and innovations in biofuel technologies, improving production efficiency and feedstock utilization. Companies in logistics, public transport, and construction are shifting towards biodiesel to align with national green energy goals. Educational campaigns and policy support are further generating awareness and promoting employment. As renewable energy is gaining momentum, biodiesel stands out as a practical, scalable, and immediately applicable solution that supports South Korea's clean energy ambitions while strengthening the country's industrial competitiveness.

SOUTH KOREA BIODIESEL MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on feedstock, application, type, and production technology.

Feedstock Insights:

Vegetable Oils

Animal Fats

Others

The report has provided a detailed breakup and analysis of the market based on the feedstock. This includes vegetable oils, animal fats, and others.

Application Insights:

Fuel

Power Generation

Others

A detailed breakup and analysis of the market based on the application have also been provided in the report. This includes fuel, power generation, and others.

Type Insights:

B100

B20

B10

B5

The report has provided a detailed breakup and analysis of the market based on the type. This includes B100, B20, B10, and B5.

Production Technology Insights:

Conventional Alcohol Trans-esterification

Pyrolysis

Hydro Heating

A detailed breakup and analysis of the market based on the production technology have also been provided in the report. This includes conventional alcohol trans-esterification, pyrolysis, and hydro heating.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea biodiesel market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea biodiesel market on the basis of feedstock?

What is the breakup of the South Korea biodiesel market on the basis of application?

What is the breakup of the South Korea biodiesel market on the basis of type?

What is the breakup of the South Korea biodiesel market on the basis of production technology?

What is the breakup of the South Korea biodiesel market on the basis of region?
What are the various stages in the value chain of the South Korea biodiesel market?
What are the key driving factors and challenges in the South Korea biodiesel market?
What is the structure of the South Korea biodiesel market and who are the key players?
What is the degree of competition in the South Korea biodiesel market?

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