

# Bio-based Naphtha Market: Current Analysis and Forecast (2025-2033)

<https://marketpublishers.com/r/B2965072BB51EN.html>

Date: April 2025

Pages: 137

Price: US\$ 3,999.00 (Single User License)

ID: B2965072BB51EN

## Abstracts

In the global bio-based naphtha market, demand is being propelled massively. Industries are looking for a sustainable alternative to fossil-derived naphtha. Biobased naphtha, extracted from renewable feedstock, is being propagated from industries in several ways. It can be extracted from used cooking oil, vegetable oils, and agricultural residues. From a sustainable point of view, this biobased naphtha is important because it can reduce greenhouse gas emissions, replace fossil fuel with renewable raw material, and promote a more sustainable and circular economy by having its feedstock widely available. The expansion of this market is favored by environmental regulations, advances in technology of the biorefining process, and consumer preference for greener products. Presently, the region is completely dominated by Europe, where Germany, the UK, France, and a number of other countries are actively promoting bio-based naphtha through favorable policies and infrastructure development. Sustainability is now a major theme in industrial strategy, and bio-based naphtha is expected to play a prominent role in the switch to a sustainable circular economy.

The Bio-based Naphtha market is set to show a growth rate of about 17.59% during the forecast period (2025- 2033F). The global bio-based naphtha market is anticipated to witness rapid growth in the coming years. As consumers and governments across the globe are becoming more conscious of the usage of environment-friendly products, the usage of bio-based naphtha for the production of bio-fuel, petrochemicals, etc. Its application is mainly in generating biofuels, petrochemicals, and other green products. The change in preference by the industry from fossil fuels to bio-based naphtha is driven by the shift toward renewable sources of energy and green technologies. Furthermore, the rising investments in renewable energy building projects and growing environmental regulations would further fuel demand for bio-based naphtha as the next critical ingredient in the global transition to a more sustainable and low-carbon

economy. Accelerated market growth would also be expected under the greater trend of circular economy practices and reduced carbon footprint requirements, as bio-based naphtha is critical to reducing dependency on fossil fuels.

On the basis of source, the global bio-based naphtha market is segmented into vegetable oil, biomass, used cooking oil, animal fat, and others. Of these, vegetable oil has held a sizable market share. This supremacy can be attributed to a few major causes, which include the production and availability of vegetable oils being massive around the globe and, therefore, constituting a reliable and uniform feedstock for biobased naphtha production. With big agricultural economies, like the U.S., Brazil, Indonesia, and Malaysia, palm, soybean, and rapeseed oils are available and can easily be used in bio-naphtha processing. Secondly, vegetable oils have a very high yield of hydrocarbons, which contributes to ease of conversion and low production costs compared with other sources like used cooking oils and animal fats. Supply chain stability is another factor that encourages their use. Extraction and refining technologies of vegetable oils have remained well-established, and most other feedstocks are affected by their turndown.

Based on the Application, the market is segmented into gasoline, petrochemicals, fertilizer, construction, bio benzene, bio phenol, and others. The petrochemical sector has maintained a significant market share and dominates as a high demand for sustainable raw materials exists in the production of plastics, synthetic rubber, and chemical derivatives. Bio-based naphtha may be viewed as a substitute for fossil naphtha and, therefore, represents an attractive option for petrochemical manufacturers wishing to minimize their carbon footprint while not requiring radical modifications to their existing infrastructure. Increasingly, the adoption of circular economy models encourages a fast-tracked shift toward bio-based plastic in petrochemical applications due to ever-increasing environmental regulations in Europe and North America. The companies are being directed toward sustainable sourcing and refining technology investments to increase production, satisfy regulatory requirements and consumer demand. Similarly, the automotive and packaging industries, which consume large amounts of petrochemical inputs, support green supply chains, further fueling the segment's growth.

For a better understanding of the market adoption of Bio-based Naphtha, the market is analyzed based on its worldwide presence in countries such as North America (U.S., Canada, and the Rest of North America), Europe (Germany,

U.K., France, Spain, Italy, Rest of Europe), Asia-Pacific (China, Japan, India, Rest of Asia-Pacific), Rest of World. Among these, Europe region has held a dominant market share. With the rising focus on the adoption of sustainable alternatives to carbon-emitting solutions as well as rising production capacity for bio-based naphtha, the market is anticipated to dominate the market in the coming years.

Some major players running in the market include UPM BioVerno, Eni Sustainable Mobility, BP Plc, Shell, S-Oil, Neste Oil Corporation, BASF, Honeywell International Inc., Repsol S.A., and Montana Renewables LLC.

## Contents

### **1 MARKET INTRODUCTION**

- 1.1. Market Definitions
- 1.2. Main Objective
- 1.3. Stakeholders
- 1.4. Limitation

### **2 RESEARCH METHODOLOGY OR ASSUMPTION**

- 2.1. Research Process of the Global Bio-based Naphtha Market
- 2.2. Research Methodology of the Global Bio-based Naphtha Market
- 2.3. Respondent Profile

### **3 EXECUTIVE SUMMARY**

- 3.1. Industry Synopsis
- 3.2. Segmental Outlook
  - 3.2.1. Market Growth Intensity
- 3.3. Regional Outlook

### **4 MARKET DYNAMICS**

- 4.1. Drivers
- 4.2. Opportunity
- 4.3. Restraints
- 4.4. Trends
- 4.5. PESTEL Analysis
- 4.6. Demand Side Analysis
- 4.7. Supply Side Analysis
  - 4.7.1. Merger & Acquisition
  - 4.7.2. Collaboration & Investment Scenario
  - 4.7.3. Industry Insights: Leading Startups and Their Unique Strategies

### **5 PRICING ANALYSIS**

- 5.1. Regional Pricing Analysis
- 5.2. Price Influencing Factors

## **6 GLOBAL BIO-BASED NAPHTHA MARKET REVENUE (USD MN), 2023-2033F**

### **7 MARKET INSIGHTS BY SOURCE**

- 7.1. Vegetable Oil
- 7.2. Biomass
- 7.3. Used Cooking Oil
- 7.4. Animal Fat
- 7.5. Others (Tall Oil, Algae-based Oil, Non-Edible Oils, etc.)

### **8 MARKET INSIGHTS BY APPLICATION**

- 8.1. Gasoline
- 8.2. Petrochemical
- 8.3. Fertilizers
- 8.4. Construction
- 8.5. Bio Benzene
- 8.6. Bio Phenol
- 8.7. Others

### **9 MARKET INSIGHTS BY REGION**

- 9.1. North America
  - 9.1.1. U.S.
  - 9.1.2. Canada
  - 9.1.3. Rest of North America
- 9.2. Europe
  - 9.2.1. Germany
  - 9.2.2. U.K.
  - 9.2.3. France
  - 9.2.4. Italy
  - 9.2.5. Spain
  - 9.2.6. Rest of Europe
- 9.3. Asia-Pacific
  - 9.3.1. China
  - 9.3.2. Japan
  - 9.3.3. India
  - 9.3.4. Rest of Asia Pacific

#### 9.4. Rest of World

### **10 VALUE CHAIN ANALYSIS**

#### 10.1. Marginal Analysis

#### 10.2. List of Market Participants

### **11 COMPETITIVE LANDSCAPE**

#### 11.1. Competition Dashboard

#### 11.2. Competitor Market Positioning Analysis

#### 11.3. Porter Five Forces Analysis

### **12 COMPANY PROFILES**

#### 12.1. UPM BioVerno

##### 12.1.1. Company Overview

##### 12.1.2. Key Financials

##### 12.1.3. SWOT Analysis

##### 12.1.4. Product Portfolio

##### 12.1.5. Recent Developments

#### 12.2. Eni Sustainable Mobility

#### 12.3. BP Plc.

#### 12.4. Shell

#### 12.5. S-Oil

#### 12.6. Neste Oil Corporation

#### 12.7. BASF

#### 12.8. Honeywell International Inc.

#### 12.9. Repsol S.A.

#### 12.10. Montana Renewables LLC

### **13 ACRONYMS & ASSUMPTION**

### **14 ANNEXURE**

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