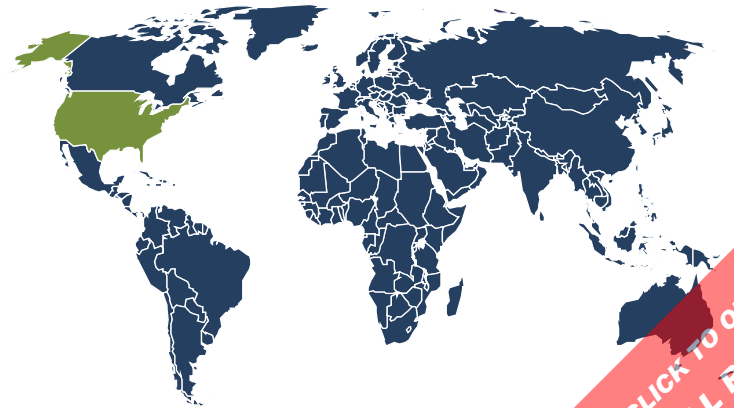




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Motor Vehicle Biofuels: United States

November 2016



Highlights

Market Environment

Historical Trends | Key Economic Indicators | Regulatory Overview
Vehicle Transportation Trends | Alternative Fuel Vehicles

Segmentation and Forecasts

Demand | Production

Industry Structure

Industry Composition and Characteristics | Additional Companies Cited

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ABOUT THIS REPORT

Scope & Method

This report forecasts US motor vehicle biofuel demand and production in barrels to 2020. Total demand and production are segmented by type in terms of:

- bioethanol
- biodiesel
- other biofuels such as renewable diesel.

This report covers biofuels utilized in motor vehicle transportation, excluding use of biofuels for other purposes such as heating fuels. Furthermore, biogas – a methane-rich fuel derived from the breakdown of organic matter – is not included in demand and production totals. Demand figures exclude the fossil fuel portion of blended fuels.

In this report, the term “bioethanol” denotes ethanol produced from biological raw materials (ie, biomass). Synthetic ethanol, such as that derived from the direct hydration of ethane, is excluded from the scope of this report. Other common fuels and chemicals bear the “bio-” prefix when derived from biomass and used either directly or as components of motor vehicle fuel.

To illustrate historical trends, total demand, total production, and the various segments are provided in annual series from 2005 to 2015.

This report quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the [Table of Contents](#).

Sources

Motor Vehicle Biofuels: United States (FF45035) represents the synthesis and analysis

of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group.

Specific sources and additional resources are listed in the [Resources](#) section of this publication for reference and to facilitate further research.

Industry Codes

The topic of this report is related to the following industry codes:

| NAICS/SCIAN 2007 | | SIC | |
|---|--------------------------------------|-------------------------|-----------------------------------|
| North American Industry Classification System | | Standard Industry Codes | |
| 311221 | Wet Corn Milling | 2046 | Wet Corn Milling |
| 324110 | Petroleum Refineries | 2869 | Industrial Organic Chemicals, NEC |
| 325193 | Ethyl Alcohol Mfg | 2911 | Petroleum Refining |
| 325199 | All Other Basic Organic Chemical Mfg | | |

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3155 World Hybrid & Electric Vehicles, June 2014

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3134 World Diesel Engines, April 2014

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www.biofuelsdigest.com

Biofuels International

www.biofuels-news.com

Ethanol Producer Magazine

www.ethanolproducer.com

ICIS Chemical Business

www.icis.com

IHS Chemical Week

www.chemweek.com

Oils & Fats International

www.ofimagazine.com

Agencies & Associations

American Coalition for Ethanol

www.ethanol.org

American Fuel & Petrochemical Manufacturers

www.afpm.org

National Biodiesel Board

www.biodiesel.org

Renewable Fuels Association

<http://ethanolrfa.org>

United States Census Bureau

www.census.gov

United States Department of Agriculture

www.usda.gov

United States Department of Energy

www.energy.gov

United States Environmental Protection Agency

www.epa.gov

United States Geological Survey

www.usgs.gov

United States International Trade Commission

www.usitc.gov

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