

# The Biofuels Market 2011-2021

<https://marketpublishers.com/r/B8E4739C629EN.html>

Date: September 2011

Pages: 169

Price: US\$ 2,635.00 (Single User License)

ID: B8E4739C629EN

## Abstracts

Biofuels is a thriving global industry which offers huge potentials for investment. During 2010-2011, the biofuels market gained increased interest as the price of oil increased rapidly. Many developed countries, such as the US and countries in the European Union, reconsidered their energy policy and significantly decreased their imports of oil. On the other side, policy makers were promoting production and consumption of biofuels, through a series of tax credits and incentives. Even though the production of biofuels is still mainly concentrated in US, Europe and South America, 2010-2011 was marked by the more diversified picture with regions such as Asia, Africa and the Middle East increasing their biofuels production. Visiongain calculates that the global expenditure on biofuels in 2011 will total \$46.63bn.

Technological advances and efficiency gains including higher biomass yields per acre and more gallons of biofuel per ton of biomass could steadily reduce the economic cost and environmental impacts of biofuels production. This report offers an examination of the biofuels market over the next decade, providing detailed market forecasts for each of the leading regional markets and offering in-depth analysis of the opportunities and challenges facing companies in the biofuels market throughout the world.

The report also describes the most important technological changes within the biofuels industry and assesses their importance for the growth of the market over the long-term. The various drivers and restraints of the market are evaluated in order to provide readers with specific insights into the future direction of the biofuels market.

How much is expected to be invested in the biofuels market worldwide during the forecast period 2011-2021? What are the future prospects of advanced biofuels? Who are the leading companies in the biofuels market? Where are the growth opportunities over the next decade %lili%in which countries and with which type of technology? These critical questions and many more are definitively answered in this comprehensive

report.

## **Unique Selling Points**

Global biofuels market forecasts and analysis for 2011-2021.

88 tables, charts and graphs quantifying, analysing and forecasting the biofuels market from 2011-2021.

Analysis and forecasts informed by extensive consultation with industry expert opinion. Full transcripts of four interviews are including from leading biofuels companies.

Regional market forecasts for the 7 regional biofuels markets with further market analysis for the 18 leading national markets.

Profiles of the 20 leading companies within the biofuels market.

SWOT analysis of strengths, weaknesses, opportunities and threats facing the biofuels market over the next ten years.

Examination of the main technologies in the biofuels market.

## **Comprehensive analysis of the biofuels market**

The Biofuels Market 2011-2021 report examines this sector critically by drawing upon a rich combination of primary and secondary research with a comprehensive review of recent sales figures, official corporate and governmental announcements, news reports, industry publications, market analysis, policy documents, industry statements and an extensive consultation of expert opinion.

## **Why you should buy The Biofuels Market 2011-2021**

You will receive a comprehensive understanding of the global biofuels market and how it will develop over the next ten years.

You will find 88 tables, charts and graphs quantifying, analysing and forecasting the biofuels market in detail from 2011-2021.

The analysis and forecasting has been reinforced by extensive consultation with expert opinion. Within the report, you will read full transcripts of original and exclusive interviews with experts and consultants from the 4 leading biofuels companies:

Lanzatech: Carl Worf and James Obern, Managers of the Business Development Team.

Novozymes: Mr. Poul Ruben Andersen, Vice President for Bioenergy.

Green Biologics: Sean Sutcliffe, CEO

Sapphire Energy: Tim Zenk, Vice President of Corporate Affairs.

You will receive regional market forecasts from 2011-2021 for the 7 regional biofuels markets, with a thorough analysis of the prospects within each regional market:

North America

South America

Europe

Asia

Africa

Australasia

Middle East

Regional biofuels market forecasts include analysis of the following national markets:

US

Canada

Mexico

Brazil

Argentina

Colombia

EU

Russia

Kazakhstan

Thailand

China

Japan

India

Tanzania

Mali

Mozambique

Australia

New Zealand

You will be able to compare the various types of biofuels, with analysis of which regions will be investing in which types of biofuels over the forecast period.

You will find profiles of 20 of the leading companies within the biofuels market.

You will view a SWOT analysis of the main strengths, weaknesses, opportunities and threats to the biofuels market over the next ten years.

## Contents

### **1. EXECUTIVE SUMMARY**

- 1.1 The Biofuels Market Overview
- 1.2 Summary of Biofuels Trends
- 1.3 Summary of Drivers and Restraints of the Global Biofuels Market
- 1.4 Global Biofuels Market
- 1.5 Emerging Regional Biofuels Markets with Growth Opportunities
- 1.6 Regions with Moderate Growth Biofuels Markets
- 1.7 Biofuels Policy

### **2. INTRODUCTION TO THE BIOFUELS MARKET**

- 2.1 Types of Biofuels
  - 2.1.1 Ethanol
  - 2.1.2 Palm Oil
  - 2.1.3 Jatropha Plant
  - 2.1.4 Advantages of Using Jatropha Curcas
  - 2.1.5 Cellulosic Ethanol
  - 2.1.6 Algae Fuel
  - 2.1.7 Challenges for Algae Oil
  - 2.1.8 Biodiesel

### **3. THE GLOBAL BIOFUELS MARKET**

- 3.1 Global Trends in Biofuels
  - 3.1.1 Real Estate Investment Trust (REIT) Financing for Biofuels
  - 3.1.2 Rising Prices of Imported Oil Encourages Biofuels Production
  - 3.1.3 Increasing Regulatory Support
  - 3.1.4 Increasing Contribution of Developing Countries in Promotion of Biofuels
  - 3.1.5 Climate Change Standards
  - 3.1.6 Technological Progress
  - 3.1.7 Investment in Jatropha
  - 3.1.8 Algae Biofuels Commercialization
  - 3.1.9 Rise of Aviation Biofuels
  - 3.1.10 Oil Companies Diversifying into Biofuels
- 3.2 Biofuels and Rising Cost of Food
- 3.3 Major Oil Companies Investing in Biofuels

### 3.4 Aviation Biofuels Market Analysis

## 4. THE REGIONAL BIOFUELS MARKETS

### 4.1 North American Biofuels Market

- 4.1.1 The US Biofuels Market
- 4.1.2 Canadian Biofuels Market
- 4.1.3 Mexican Biofuels Market

### 4.2 South American Biofuels Market

- 4.2.1 Brazilian Biofuels Market
- 4.2.2 Argentinean Biofuels Market
- 4.2.3 Colombian Biofuels Market

### 4.3 European Biofuels Market

- 4.3.1 EU Biofuels Market
- 4.3.2 Russian Biofuels Market
- 4.3.3 Kazakhstan Biofuels Market

### 4.4 Asian Biofuels Market

- 4.4.1 Thailand Biofuels Market
- 4.4.2 Chinese Biofuels Market
- 4.4.3 Japanese Biofuels Market
- 4.4.4 Indian Biofuels Market

### 4.5 African Biofuels Market

- 4.5.1 Tanzanian Biofuels Market
- 4.5.2 Malian Biofuels Market
- 4.5.3 Mozambique Biofuels Market

### 4.6 Australasian Biofuels Market

- 4.6.1 Australian Biofuels Market
- 4.6.2 New Zealand Biofuels Market

### 4.7 Middle East Biofuels Market

## 5. SWOT ANALYSIS OF THE BIOFUELS MARKET

### 5.1 Strengths

- 5.1.1 Biofuels Produce Lower Levels of Carbon Dioxide as Compared to Fossil Fuels
- 5.1.2 Source of Energy Security
- 5.1.3 Algae Biofuels Use no Land
- 5.1.4 Biofuels Create Additional Distribution Channel for Agricultural Products
- 5.1.5 Increased availability of feedstock

### 5.2 Weaknesses

- 5.2.1 Lower Energy Content per Volume as Compared to Fossil Fuels
- 5.2.2 Subject to Weather Conditions and Pest Attacks.
- 5.2.3 Some Biofuels Compete With Food Crops
- 5.2.4 High Production Cost for Advanced Biofuels
- 5.3 Opportunities
  - 5.3.1 Depleting Oil Reserves
  - 5.3.2 Rise of Aviation Biofuels
  - 5.3.3 Full Commercialization of Advanced Biofuels
  - 5.3.4 International Targets for Lower Carbon Emissions
- 5.4 Threats
  - 5.4.1 Limited Land Availability
  - 5.4.2 Rising Prices of Biofuel Crops Like Wheat in Future
  - 5.4.3 Lack of Regulatory Support for Advanced Biofuels

## **6. EXPERT OPINION**

### **6.1 LanzaTech**

- 6.1.1 Key Trends and Developments in the Biofuels Market
- 6.1.2 Impact of Developing Countries in the Biofuels Market
- 6.1.3 Growth Rates in the Biofuels Market in the Next Ten Years
- 6.1.4 Drivers and Restraints of the Biofuels Market
- 6.1.5 Genetic Modification System for a Gas fermentation Microbe and Future Production of Ethanol
- 6.1.6 Technological Innovation in Synthetic Biology

### **6.2 Novozymes**

- 6.2.1 Key Trends and Developments in the Biofuels Market
- 6.2.2 Biofuels Regions with Growth Opportunities
- 6.2.3 Growth Rates in the Biofuels Market in the Next 10 Years
- 6.2.4 The Future of Cellulosic Ethanol
- 6.2.5 Future of the Strategy of Co-location of the Ethanol Facility and Coal-Fired Power Plant
- 6.2.6 Cellulosic Ethanol and Petroleum-Based Fuels

### **6.3 Green Biologics**

- 6.3.1 Key Trends and Development in the Biofuels Market
- 6.3.2 Technological Innovations that will Affect Production of Butanol in the Future
- 6.3.3 Drivers and Restraints of the Biofuels Market
- 6.3.4 Impact of Developing Countries Involved in the Biofuels Market
- 6.3.5 Biofuels Regions with Opportunity for Growth
- 6.3.6 Growth Rates of the Biofuels Market in the Next 10 Years



### 6.3.7 Impact of the Increasing Oil Prices on the Future Development of the Biofuels Market

## 6.4 Sapphire Energy

- 6.4.1 Key Trends and Development in the Biofuels Market
- 6.4.2 Green Crude in the Current Economic Context
- 6.4.3 Future of Renewable, Domestically Produced Energy
- 6.4.4 Biofuels Regions with Opportunity for Growth
- 6.4.5 Growth Rates of the Biofuels Market in the Next 10 Years
- 6.4.6 Future of Commercialization of Algae Fuel
- 6.4.7 Restraints of the Commercialization of Algae Fuel

## 7. LEADING COMPANIES IN THE BIOFUELS MARKET

- 7.1 Abengoa Bioenergy
- 7.2 Amyris Biotechnologies
- 7.3 BP Biofuels
- 7.4 Ceres
- 7.5 Cobalt Technologies
- 7.6 Codexis
- 7.7 Coskata
- 7.8 DuPont Danisco
- 7.9 Enerkem
- 7.10 Genencor
- 7.11 Gevo
- 7.12 Honeywell UOP
- 7.13 LS9
- 7.14 Mascoma Corporation
- 7.15 Novozymes
- 7.16 Petrobras Biocombustível (Petrobras)
- 7.17 POET LLC
- 7.18 Sapphire Energy
- 7.19 Solazyme Corporation
- 7.20 Virent Energy Systems Inc.

## 8. CONCLUSIONS

- 8.1 Emerging Biofuels Market Regions with Growth Opportunities
- 8.2 Regions with Moderate Growth Biofuels Markets
- 8.3 Drivers and Restraints of the Biofuels Market

## 8.4 Biofuels Market Outlook

## 9. GLOSSARY

## List Of Tables

### LIST OF TABLES

Table 1.1 Summary of Drivers and Restraints of the Global Biofuels Market

Table 2.1 List of Biofuels, Production Method and Producers

Table 2.2 Leading 10 Commercial Jatropha Plantation Areas by Country 2011  
(Hectares)

Table 3.1 Global Biofuels Market Forecast 2011-2021 (\$bn, AGR %)

Table 3.2 Global Biofuels Market Forecast CAGR (%) 2011-2021, 2011-2016 and  
2016-2021

Table 3.3 Drivers and Restraints of the Global Biofuels Market 2011-2021

Table 3.4 List of Major Oil Company Investments in Biofuels

Table 3.5 List of Major Aviation Biofuel Projects

Table 3.6 List of Major Aviation Biofuel Client Companies

Table 4.1 Regional Biofuels Market Forecast 2011-2021 (\$bn, AGR %)

Table 4.2 Regional Biofuels Market Forecast CAGR(%) 2011-2021, 2011-2016,  
2016-2021

Table 4.3 Drivers and Restraints of the North American Biofuels Market

Table 4.4 North American Biofuels Market Forecast Summary, 2011, 2016, 2021(\$bn,  
Rank, % Share, CAGR %, Cumulative)

Table 4.5 North American Biofuels Market Forecast (\$bn, AGR %)

Table 4.6 North American Biofuels Market Forecast CAGR (%) 2011-2021, 2011-2016,  
2016-2021

Table 4.7 List of US Federal Tax Credits for Ethanol and Biodiesel

Table 4.8 List of Leading Canadian Bioethanol Production Companies

Table 4.9 List of Leading Canadian Biodiesel Production Companies

Table 4.10 Drivers and Restraints of the South American Biofuels Market

Table 4.11 South American Biofuels Market Forecast Summary, 2011, 2016, 2021 (\$bn,  
Rank, %Share, CAGR%, Cumulative)

Table 4.12 South American Biofuels Market Forecast (\$bn, AGR %)

Table 4.13 South American Biofuels Market Forecast CAGR (%), 2011-2021,  
2011-2016, 2016-2021

Table 4.14 Drivers and Restraints of the European Biofuels Market

Table 4.15 European Biofuels Market Forecast Summary 2011, 2016, 2021 (\$bn, Rank,  
%Share, CAGR%, Cumulative)

Table 4.16 European Biofuels Market Forecast 2011-2021 (\$bn, AGR %)

Table 4.17 European Biofuels Market Forecast CAGR (%) 2011-2021, 2011-2016,  
2016-2021

Table 4.18 Drivers and Restraints of the Asian Biofuels Market

Table 4.19 Asian Biofuels Market Forecast Summary, 2011, 2016, 2021 (\$bn, Rank, %Share, CAGR%, Cumulative)

Table 4.20 Asian Biofuels Market Forecast 2011-2021 (\$bn, AGR %)

Table 4.21 Asian Biofuels Market Forecast CAGR (%) 2011-2021, 2011-2016, 2016-2021

Table 4.22 List of Existing Ethanol Plants in Thailand 2011

Table 4.23 List of Chinese Leading Biodiesel Companies 2011

Table 4.24 List of Biofuels Production Areas and Biofuel Feedstock Source in Japan 2011

Table 4.25 Drivers and Restraints of the African Biofuels Market

Table 4.26 African Biofuels Market Forecast Summary 2011, 2016, 2021 (\$bn, Rank, %Share, CAGR%, Cumulative)

Table 4.27 African Biofuels Market Forecast 2011-2021 (\$bn, AGR %)

Table 4.28 African Biofuels Market Forecast CAGR (%) 2011-2021, 2011-2016 and 2016-2021

Table 4.29 List of Foreign Biofuels Companies Investing in Africa 2011

Table 4.30 List of leading Biofuels Companies Operating in Tanzania 2011

Table 4.31 Drivers and Restraints of the Australasian Biofuels Market

Table 4.32 Australasian Biofuels Market Forecast Summary 2011, 2016, 2021 (\$bn, Rank, %Share, CAGR%, Cumulative)

Table 4.33 Australasian Biofuels Market Forecast 2011-2021 (\$bn, AGR %)

Table 4.34 Australasian Biofuels Market Forecast CAGR (%) 2011-2021, 2011-2016, 2016-2021

Table 4.35 List of Leading Bioethanol Companies in Australia 2011

Table 4.36 List of Leading Biodiesel Companies in Australia 2011

Table 4.37 List of Leading Biodiesel Companies in New Zealand 2011

Table 4.38 Drivers and Restraints of the Middle East Biofuels Market

Table 4.39 Middle East Biofuels Market Forecast Summary 2011, 2016, 2021 (\$bn, Rank, %Share, CAGR%, Cumulative)

Table 4.40 Middle East Biofuels Market Forecast 2011-2021 (\$bn, AGR %)

Table 4.41 Middle East Biofuels Market Forecast CAGR (%) 2011-2021, 2011-2016, 2016-2021

Table 5.1 SWOT Analysis of the Biofuels Market 2011-2021

Table 7.1 Distribution of Leading Biofuels Companies by the Type of Biofuel 2011

## List Of Figures

### LIST OF FIGURES

- Figure 2.1 Regional Production of Bioethanol 2011 (%)
- Figure 2.2 Regional Consumption of Bioethanol 2011 (%)
- Figure 2.3 Regional Distribution of Palm Oil Producing Countries 2011 (%)
- Figure 2.4 Regional Production of Biodiesel 2011 (%)
- Figure 2.5 Regional Consumption of Biodiesel 2011 (%)
- Figure 3.1 Global Biofuels Market Forecast 2011-2021 (\$bn)
- Figure 3.2 Cost Breakdown of Biofuel Production (%)
- Figure 3.3 Industries Involved in the Biofuels Market
- Figure 4.1 Regional Biofuels Market Share 2011 (%)
- Figure 4.2 Regional Biofuels Market Share 2016 (%)
- Figure 4.3 Regional Biofuels Market Share 2021 (%)
- Figure 4.4 Regional Biofuels Market Forecast CAGR 2011-2021 (%)
- Figure 4.5 Regional Biofuels Market Forecast CAGR 2011-2016 (%)
- Figure 4.6 Regional Biofuels Market Forecast CAGR 2016-2021 (%)
- Figure 4.7 North American Biofuels Market Share Forecast, 2011, 2016, 2021 (% Share)
- Figure 4.8 North American Biofuels Market Forecast 2011-2021 (\$bn)
- Figure 4.9 Primary Energy Consumption in US by Source 2011 (%)
- Figure 4.10 US Renewable Energy by Source 2011 (%)
- Figure 4.11 South American Biofuels Market Share Forecast, 2011, 2016, 2021 (% share)
- Figure 4.12 South American Biofuels Market Forecast 2011-2021 (\$bn)
- Figure 4.13 Distribution of Brazilian Domestic Energy Consumption 2011 (%)
- Figure 4.14 Brazilian Bioethanol Production Forecast 2011-2021(billion litres)
- Figure 4.15 European Biofuels Market Share Forecast 2011, 2016, 2021 (% Share)
- Figure 4.16 European Biofuels Market Forecast 2011-2021 (\$bn)
- Figure 4.17 National Bioethanol Production in EU 2011 (%)
- Figure 4.18 National Biodiesel Production in EU 2011 (%)
- Figure 4.19 Total Energy Supply in Russia by Sector 2011 (%)
- Figure 4.20 Asian Biofuels Market Share Forecast 2011, 2016, 2021 (% Share)
- Figure 4.21 Asian Biofuels Market Forecast 2011-2021 (\$bn)
- Figure 4.22 African Biofuels Market Share Forecast 2011, 2016, 2021 (% Share)
- Figure 4.23 African Biofuels Market Forecast 2011-2021 (\$bn)
- Figure 4.24 Australasian Biofuels Market Share Forecast 2011, 2016, 2021 (% Share)
- Figure 4.25 Australasian Biofuels Market Forecast 2011-2021(\$bn)

Figure 4.26 Middle East Biofuels Market Share Forecast 2011, 2016, 2021(% Share)

Figure 4.27 Middle East Biofuels Market Forecast 2011-2021 (\$bn)

Figure 5.1 Energy Units Derived from Different Biofuel Feedstock (Mega Joules)

## I would like to order

Product name: The Biofuels Market 2011-2021

Product link: <https://marketpublishers.com/r/B8E4739C629EN.html>

Price: US\$ 2,635.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/B8E4739C629EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970