



[CLICK TO VIEW](#)

[Table of Contents 2](#)

[List of Tables & Charts 3](#)

[Study Overview 4](#)

[Sample Text, Table & Chart 5](#)

[Sample Profile, Table & Forecast 6](#)

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# World Biofuels

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Industry Study with Forecasts for **2014 & 2019**

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Study #2668 | September 2010 | \$5900 | 468 pages

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**The Freedonia Group**

767 Beta Drive

Cleveland, OH • 44143-2326 • USA

Toll Free US Tel: 800.927.5900 or +1 440.684.9600

Fax: +1 440.646.0484

E-mail: [info@freedoniagroup.com](mailto:info@freedoniagroup.com)

## Table of Contents

### EXECUTIVE SUMMARY

### MARKET ENVIRONMENT

General	4
World Economic Overview	4
Recent Historical Trends	5
World Economic Outlook	7
World Per Capita Gross Domestic Product	11
World Population Outlook	13
World Petroleum Consumption Outlook	14
Gasoline	17
Distillate Fuels	20
World Motor Vehicles in Use	22
World Agricultural Crop Outlook	24
Maize	25
Oilseeds	27
Sugar Cane & Sugar Beets	30
Other Biofuel Crops	31
Cereal Crops	32
Palm Oil	32
All Other Crops	33
World Vegetable Oils Industry Outlook	34
Environmental Policy & Regulation	36
Energy Policy	36
Global Warming	39
Food Versus Fuel	41
Air Quality & Water Use	43
Competitive Alternative Fuels	44

### TECHNOLOGY

General	47
Processing Technologies	47
Enzymatic Hydrolysis	48
Fermentation	49
Transesterification	51
Pyrolysis & Gasification	52
Fischer-Tropsch Synthesis	53
Technology by Biofuel	54
Bioethanol	55
Biodiesel	56
Pure Vegetable Oil	56
Biomass-to-Liquids & Renewable Diesel	57
Biobutanol	57
Biomethanol & Bio-Dimethyl Ether	58
Biocrude	59
Other Biofuels	59

### OVERVIEW

Demand	60
Bioethanol	63
Biodiesel	68
Other Biofuels	71
Renewable Diesel	73
Pure Vegetable Oil	75
Biobutanol	76
All Other Biofuels	77
Production	79

Bioethanol	81
Starch-Based	85
Sugar-Based	91
Other Materials	96
Biodiesel	99
Vegetable Oils	103
Palm Oil	107
Other Materials	109
Other Biofuels	114
Renewable Diesel	116
Pure Vegetable Oil	118
Biobutanol	118
All Other Biofuels	121
Regional Overview	123
Demand	123
Production	126
Trade	128

### NORTH AMERICA

General	130
Biofuel Supply & Demand	132
United States	135
Canada	149
Mexico	156

### WESTERN EUROPE

General	163
Biofuel Supply & Demand	166
Germany	170
France	178
Spain	186
United Kingdom	194
Italy	202
Austria	209
Netherlands	213
Sweden	218
Belgium	223
Portugal	227
Other Western Europe	231

### ASIA/PACIFIC

General	237
Biofuel Supply & Demand	240
China	243
Thailand	252
Australia	257
South Korea	263
Other Asia/Pacific	267
Philippines	277
India	278
Japan	281
Indonesia	282
Malaysia	284
All Other Asia/Pacific	286

### OTHER REGIONS

Central & South America	287
-------------------------	-----

Brazil	292
Colombia	300
Other Central & South America	306
Argentina	312
All Other Central & South America	314
Eastern Europe	315
Poland	321
Czech Republic	326
Other Eastern Europe	331
Hungary	336
All Other Eastern Europe	338
Africa/Mideast	339

### INDUSTRY STRUCTURE

General	344
Market Share	347
Competitive Strategies	351
Marketing & Distribution	353
Cooperative Agreements	355
Mergers & Acquisitions	359

### COMPANY PROFILES

Abengoa SA	364
Agroetanol AB	369
Archer-Daniels-Midland	370
Associated British Foods	373
Bertolino Group	375
BP plc	376
Bunge Limited	379
Cargill Incorporated	382
COFCO Limited	385
Copersucar	387
Cosan Limited	388
Cristal Union	391
DuPont (EI) de Nemours	392
Entaban Ecoenergéticas	395
EOP Biodiesel	396
Green Plains Renewable Energy	397
GreenField Ethanol	399
Hawkeye Energy	401
Henan Tianguan Group	403
Hungrana Kft	404
Imperium Renewables	405
INEOS Group	406
Infinita Renovables	408
Louis Dreyfus	409
Marseglia Group	411
Neste Oil	412
POET LLC	414
Renewable Biofuels	417
Renewable Energy Group	418
Sofiroteol	421
Suedzucker AG	422
Svensk Etanolkemii	425
Tereos SA	427
Valero Energy	429
VERBIO Vereinigte BioEnergie	432
Wratislavia-Bio Sp	434
Other Companies Mentioned in Study	434

## List of Tables/Charts

### EXECUTIVE SUMMARY

- 1 Summary Table..... 3

### MARKET ENVIRONMENT

- 1 World Gross Domestic Product by Region ..11
- 2 World Per Capita Gross Domestic Product by Region.....12
- 3 World Population by Region .....14
- 4 World Refined Petroleum Product Demand by Region .....17
- 5 World Gasoline Demand by Region .....20
- 6 World Distillate Fuel Demand by Region ...22
- 7 World Motor Vehicle Park by Region.....24
- 8 World Maize Production by Region .....27
- 9 World Oilseed Production by Region .....29
- 10 World Sugar Cane & Sugar Beet Production by Region .....31
- 11 World Palm Oil Production by Region .....33
- 12 World Vegetable Oil Production by Region 35

### OVERVIEW

- 1 World Biofuel Demand by Type.....62
- Cht World Biofuel Demand by Type, 2009.....62
- Cht World Share of New Fuel Bioethanol Demand by Type, 2014-2019.....65
- 2 World Fuel Bioethanol Demand by Type & Region.....67
- Cht World Share of Fuel Bioethanol Demand by Type, 1999-2019.....68
- 3 World Biodiesel Demand by Region.....71
- 4 World Other Biofuel Demand by Type & Region.....73
- 5 World Biofuel Production by Type.....80
- Cht World Biofuel Production by Type, 2009...81
- 6 World Fuel Bioethanol Production by Raw Material & Region .....84
- Cht World Share of Fuel Bioethanol Production by Raw Material, 1999-2019 .....85
- 7 World Starch-Based Fuel Bioethanol Production by Crop & Region.....87
- 8 World Sugar-Based Fuel Bioethanol Production by Crop & Region .....92
- 9 World Bioethanol Production from Other Materials by Raw Material & Region ....99
- 10 World Biodiesel Production by Raw Material & Region ..... 102
- Cht World Biodiesel Production by Raw Material, 2009 ..... 103
- 11 World Vegetable Oil-Based Biodiesel Production by Crop & Region ..... 105
- 12 World Palm Oil-Based Biodiesel Production by Region ..... 108
- 13 World Biodiesel Production from Other Materials by Raw Material & Region ... 110
- 14 World Production of Other Biofuels by Type & Region..... 116

- 15 World Biofuel Demand by Region ..... 125
- Cht World Biofuel Demand by Region, 2009.. 125
- 16 World Biofuel Production by Region..... 127
- Cht World Biofuel Production by Region, 2009 ..... 128
- 17 World Biofuel Net Exports by Region ..... 129

### NORTH AMERICA

- 1 North America -- Biofuel Indicators..... 132
- 2 North America -- Biofuel Supply & Demand..... 134
- Cht North America -- Biofuel Demand by Country, 2009 ..... 135
- 3 United States -- Biofuel Indicators..... 138
- 4 United States -- Biofuel Supply & Demand..... 140
- 5 Canada -- Biofuel Indicators ..... 152
- 6 Canada -- Biofuel Supply & Demand ..... 154
- 7 Mexico -- Biofuel Indicators..... 159
- 8 Mexico -- Biofuel Supply & Demand..... 162

### WESTERN EUROPE

- 1 Western Europe -- Biofuel Indicators ..... 166
- 2 Western Europe -- Biofuel Supply & Demand..... 169
- Cht Western Europe -- Biofuel Demand by Country, 2009 ..... 170
- 3 Germany -- Biofuel Indicators ..... 172
- 4 Germany -- Biofuel Supply & Demand .... 174
- 5 France -- Biofuel Indicators ..... 180
- 6 France -- Biofuel Supply & Demand ..... 182
- 7 Spain -- Biofuel Indicators..... 189
- 8 Spain -- Biofuel Supply & Demand ..... 191
- 9 United Kingdom -- Biofuel Indicators .... 196
- 10 United Kingdom -- Biofuel Supply & Demand..... 198
- 11 Italy -- Biofuel Indicators..... 204
- 12 Italy -- Biofuel Supply & Demand..... 206
- 13 Austria -- Biofuel Indicators..... 211
- 14 Austria -- Biofuel Supply & Demand ..... 213
- 15 Netherlands -- Biofuel Indicators ..... 216
- 16 Netherlands -- Biofuel Supply & Demand..... 218
- 17 Sweden -- Biofuel Indicators..... 220
- 18 Sweden -- Biofuel Supply & Demand..... 222
- 19 Belgium -- Biofuel Indicators ..... 225
- 20 Belgium -- Biofuel Supply & Demand ..... 227
- 21 Portugal -- Biofuel Indicators..... 229
- 22 Portugal -- Biofuel Supply & Demand..... 231
- 23 Other Western Europe -- Biofuel Indicators ..... 233
- 24 Other Western Europe -- Biofuel Supply & Demand..... 236

### ASIA/PACIFIC

- 1 Asia/Pacific -- Biofuel Indicators ..... 240

- 2 Asia/Pacific -- Biofuel Supply & Demand..... 242
- Cht Asia/Pacific -- Biofuel Demand by Country, 2009 ..... 243
- 3 China -- Biofuel Indicators..... 246
- 4 China -- Biofuel Supply & Demand ..... 248
- 5 Thailand -- Biofuel Indicators ..... 254
- 6 Thailand -- Biofuel Supply & Demand .... 257
- 7 Australia -- Biofuel Indicators ..... 260
- 8 Australia -- Biofuel Supply & Demand .... 262
- 9 South Korea -- Biofuel Indicators..... 265
- 10 South Korea -- Biofuel Supply & Demand..... 267
- 11 Other Asia/Pacific -- Biofuel Indicators.. 270
- 12 Other Asia/Pacific -- Biofuel Supply & Demand..... 272
- 13 Other Asia/Pacific -- Biofuel Supply & Demand by Country ..... 277

### OTHER REGIONS

- 1 Central & South America -- Biofuel Indicators ..... 289
- 2 Central & South America -- Biofuel Supply & Demand..... 291
- Cht Central & South America -- Biofuel Demand by Country, 2009..... 292
- 3 Brazil -- Biofuel Indicators ..... 294
- 4 Brazil -- Biofuel Supply & Demand ..... 296
- 5 Colombia -- Biofuel Indicators..... 303
- 6 Colombia -- Biofuel Supply & Demand.... 306
- 7 Other Central & South America -- Biofuel Indicators ..... 309
- 8 Other Central & South America -- Biofuel Supply & Demand ..... 312
- 9 Eastern Europe -- Biofuel Indicators..... 318
- 10 Eastern Europe -- Biofuel Supply & Demand..... 320
- Cht Eastern Europe -- Biofuel Demand by Country, 2009 ..... 321
- 11 Poland -- Biofuel Indicators ..... 324
- 12 Poland -- Biofuel Supply & Demand ..... 326
- 13 Czech Republic -- Biofuel Indicators..... 329
- 14 Czech Republic -- Biofuel Supply & Demand..... 331
- 15 Other Eastern Europe -- Biofuel Indicators ..... 334
- 16 Other Eastern Europe -- Biofuel Supply & Demand..... 336
- 17 Africa/Mideast -- Biofuel Indicators ..... 341
- 18 Africa/Mideast -- Biofuel Supply & Demand..... 343

### INDUSTRY STRUCTURE

- 1 World Biofuel Sales by Company, 2009... 345
- Cht World Biofuel Market Share, 2009..... 347
- 2 Selected Cooperative Agreements..... 357
- 3 Selected Acquisitions & Divestitures..... 361

*Bioethanol will experience the greatest gains, as continued steady growth in the large North American market will be accompanied by more rapid advances in the Asia/Pacific region and Europe.*

## Global demand to continue expanding at double-digit annual rates through 2014

Growth in world biofuel demand will continue to expand at a rapid double-digit annual pace, reaching 121 million metric tons in 2014. Bioethanol will experience the greatest gains, as continued steady growth in the large North American market will be accompanied by more rapid advances in the Asia/Pacific region and Europe. Much faster growth will occur in the smaller biodiesel market as the maturation of biodiesel in Western Europe is offset by robust gains in all other regions. Additionally, demand for other biofuels such as biobutanol and renewable diesel will begin to reach commercially significant volumes as production technology matures and full commercial scale plants are brought online. While historically not a factor, global trade in biofuels will rise rapidly going forward as large biofuel consuming countries are forced to seek additional supply, and a number of smaller developing countries seek to exploit biofuel exports as a means of driving economic growth.

## United States, Brazil to remain dominant biofuel consumers, producers

The global bioethanol industry will continue to be dominated by the United States and Brazil, the world's two largest consumers and producers of bioethanol.

## World Biofuel Demand, 2009 (74.13 million metric tons)



North America  
47%

Central & South  
America  
27%

Western Europe  
18%

Other Regions 8%

Delays in the emergence of second generation cellulosic ethanol as a viable alternative to grain-derived bioethanol will create demand for bioethanol derived from sugar cane (made mostly in Brazil) in the United States and Europe. However, over the longer term this imbalance in demand and production will decline as cellulosic ethanol capacity is brought online and other biofuels begin to compete with bioethanol in the marketplace. Other crops such as cassava and sweet sorghum will increasingly be used as bioethanol feedstocks in Africa and Asia, reflecting concerns about the potential use of food crops for biofuels and the general lack of access to technology, infrastructure and funding to pursue more advanced alternatives.

## Biodiesel to grow fastest outside of Europe

Western Europe has emerged as the dominant consumer of biodiesel due to the regionwide focus on diesel transport fuel and the need by member nations to comply with the European Union biofuel directive. An increasing EU biofuel obligation will continue to drive biodiesel demand growth in the region, as well as in Eastern Europe, going forward. However, supply constraints will force European consumers to turn to exporters in South America and Asia to satisfy demand. Additionally, rising biodiesel standards in countries outside of Europe will lead to even faster demand growth among all other regions.

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## Sample Text, Table & Chart

### ASIA/PACIFIC

#### South Korea: Biofuel Supply & Demand

Biofuel demand in South Korea is expected to increase in 2014 as the government incrementally meets its annual emissions four percent from 2005 levels. Demand will also climb rapidly from new technologies consumed will remain small as domestically sourced biofuels, throughout the forecast period.

**SAMPLE TEXT**

Much like Australia and Japan, South Korea has been slow to develop a national biofuel program. Much of the delay is attributed to the influence of the entrenched domestic energy companies that have sought to avoid competition for their petroleum refined fuels. Initial biofuel blends were introduced in 2006, and are currently set to slowly increase through 2012. However, in late 2009 the government announced a plan to reduce the country's carbon dioxide emissions four percent from 2005 levels by 2020, with the increased consumption of biofuels expected to account for a large share of the reduction. This should result in a ramping up of the biodiesel blend rate well above the three percent levels currently specified for 2012, leading to a jump in demand. Bioethanol demand is expected to remain minimal in the near term as South Korea lacks a cheap domestic source of carbohydrates or sugar, and imports would be prohibitively expensive. Over the long term, biomass-based bioethanol production -- for example, from kelp -- will help boost supply levels will remain well below those of biodiesel.

There are a large number of biodiesel makers in South Korea that were registered with the South Korean Ministry of Knowledge Economy in 2009 -- particularly for such a small market. Plant sizes range from 5,000 to 90,000 metric tons per year, and utilize a combination of cooking oil and imported soybean and palm oil. Many of the

265

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TABLE VII-9

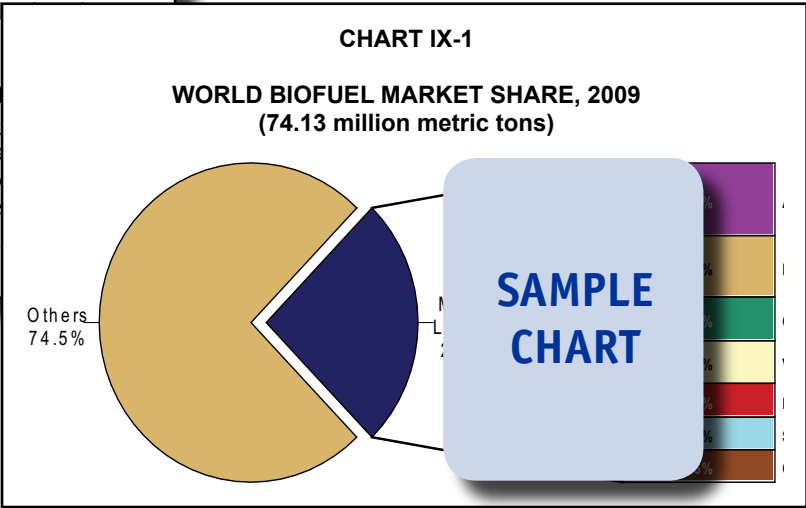
SOUTH KOREA -- BIOFUEL INDICATORS  
 (million metric tons)

Item	1999	2004	2009	2014	2019
Gross Domestic Product (bil 2008\$)					30
per capita GDP					30
Population (mil persons)					6
Motor Vehicle Park (mil units)					8
m ton refined product/vehicle					4
Refined Petroleum Product Demand					0
Gasoline Demand					1
Distillate Fuel Demand					8
Maize Production					1
Sugar Cane & Sugar Beet Production					0
Vegetable Oil Production					2

**SAMPLE TABLE**

CHART IX-1

WORLD BIOFUEL MARKET SHARE, 2009  
 (74.13 million metric tons)

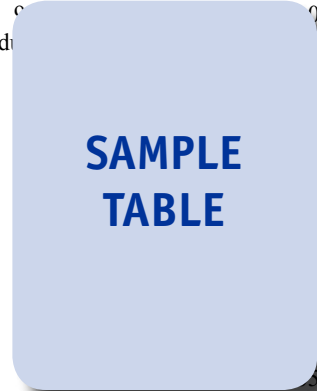


**SAMPLE CHART**

## Sample Profile, Table & Forecast

**TABLE VII-10**  
**SOUTH KOREA -- BIOFUEL SUPPLY & DEMAND**  
 (million metric tons)

Item	1999	2004	2009	2014	2019
Refined Petroleum Product Demand					
m ton biofuel/000 m ton refined prod					
Biofuel Demand					
Bioethanol					
Biodiesel					
Other					
net exports					
Biofuel Production					
Bioethanol					
Biodiesel					
Other					



**COMPANY PROFILES**

**Infinita Renovables SA**  
 Avenida Camelias, 114  
 36211 Vigo  
 Spain  
 34-986-91-3333  
<http://www.infinitarenovables.es>

Sales: \$ ( )  
 Employe ( )

Key Pro ( )

Infinita Renovables SA is a manufacturer and marketer of ( )

The Company produces and markets biofuels industry via the production of biodiesel at two plants in Castellon and Ferrol, Spain. The Castellon plant opened in late 2008 with an annual capacity of 680,000 liters on two processing lines. The facility in Ferrol opened in May 2009 with a production capacity of 340,000 liters per year on a single processing line. In 2009, these plants manufactured a total of nearly 340,000 liters, operating at 60-percent capacity. The Company expects to increase production in 2010 to more than 680,000 liters.

Biodiesel is produced by Infinita Renovables using such vegetable oils as soya, rapeseed and palm oil. Much of the Company's raw materials are supplied by the Infinita Renovables Patagonia SA subsidiary (Argentina), which is dedicated to managing agricultural lands for the production of rapeseed, soya and other plants. Infinita Renovables Patagonia performs various agricultural, industrial and commercial processes to obtain and export vegetable oils for use in the Company's biodiesel plants.

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"The Asia/Pacific region accounted for only a small share of world biofuel demand in 2009, as potentially large markets such as Japan, South Korea and Australia trailed other developed countries in North America and Western Europe in terms of their support for biofuels, and as India continued to delay the rollout of its nationwide bioethanol mandate due to a poor sugar cane harvest. Despite the small share of the global market, the region's gains were impressive when compared to 2001 when very little biofuel was consumed."  
 --Section VII, pg. 240-1

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**OTHER STUDIES**

**Lubricants**

US demand for lubricants will reverse recent declines, supported by a turnaround in motor vehicle production, an acceleration in the number of automobiles in use, and increased manufacturing output. Higher-quality Group II/III+ and Group III basestocks, as well as synthetic types, will increase their share of the market. This study analyzes the 2.1 billion gallon US lubricant industry, with forecasts for 2014 and 2019 by base oil, product and market. It also evaluates company market share and profiles industry players.

#2677 ..... *October 2010* ..... \$4900

**Enzymes**

US demand for enzymes will rise 4.8% annually to 2014. Gains will be driven by continued expansion of higher-value specialty enzymes in pharmaceuticals, diagnostics, research and biotechnology, and biocatalysts. In the biofuels segment, growth will moderate as the industry transitions to cellulases for producing biomass ethanol. This study analyzes the \$2.2 billion US enzymes industry, with forecasts for 2014 and 2019 by market and product. It also evaluates company market share and profiles industry competitors.

#2670 ..... *September 2010*..... \$4900

**Refinery Chemicals**

US refinery chemical demand will rise 5% annually through 2014, driven by the use of new, higher-value products that offer enhanced performance. Merchant hydrogen will remain the largest product type and grow the fastest. Petroleum treatment and conversion will remain the largest and fastest growing applications. This study analyzes the \$5.5 billion US refinery chemical industry, with forecasts for 2014 and 2019 by application and product. It also evaluates company market share and profiles industry players.

#2629 ..... *April 2010* ..... \$4700

**Synthetic Lubricants & Functional Fluids**

US demand for synthetic lubricants and functional fluids will expand 3.2% annually through 2013. Engine oils and hydraulic and transmission fluids will grow the fastest as synthetics finally begin to penetrate the medium- and heavy-duty truck market and expand market share in the light vehicle segment. This study analyzes the \$4.1 billion US synthetic lubricant and functional fluid industry, with forecasts for 2013 and 2018 by product, material and market. It also evaluates company market share and profiles industry competitors.

#2582 ..... *March 2010*..... \$4700

**Soy Chemicals**

US soy chemical demand will grow 7.8% annually through 2013, driven by the continued penetration of biodiesel, and by the adoption of alternatives to traditional, petrochemical-based materials in manufacturing. Soy oil derivatives such as methyl soyate, polyols, soy-based foamed plastics, waxes and fatty acids hold particularly good prospects. This study analyzes the \$1.9 billion US soy chemical industry, with forecasts for 2013 and 2018 by product and market. It also evaluates market share and profiles industry players.

#2538 ..... *September 2009*..... \$4700

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