Global Hybrid & Electric Vehicles

May 2018
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About This Report

Scope & Method

This report forecasts global demand for hybrid and electric vehicles by product and major world region in units for 2022 and 2027. Product segments include:

- hybrid
- electric

Major world regions include North America, Western Europe, Asia/Pacific, and all other regions.

To illustrate historical trends, world, product, and regional demand (including product segments) are provided for 2012 and 2017. Finally, global production is segmented by major world region and provided for 2012, 2017, 2022, and 2027.

Excluded from the scope of the report are:

- micro-hybrid vehicles
- competing products such as electric motorcycles and electric rickshaws
- sales of used hybrid and electric vehicles

This report quantifies trends in terms of compound annual growth rates (CAGRs), which, by definition, employ in their calculation only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the trend beginning in the base year and ending in the forecast year. Forecasts are developed via the identification and analysis of pertinent statistical relationships and other historical trends and events, as well as their expected impact over the forecast period. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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

*Global Hybrid & Electric Vehicles* (FW85023) is based on a comprehensive industry study published by The Freedonia Group. Reported findings represent 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
About This Report

- 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

Table 9 | Industry Codes Related to Hybrid & Electric Vehicles

<table>
<thead>
<tr>
<th>NAICS/SCIAN 2007</th>
<th>SIC Standard Industrial Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>North American Industry Classification System</td>
<td></td>
</tr>
<tr>
<td>336111</td>
<td>3711</td>
</tr>
<tr>
<td>Automobile manufacturing</td>
<td>Motor vehicles and car bodies</td>
</tr>
<tr>
<td>336112</td>
<td></td>
</tr>
<tr>
<td>Light truck and utility vehicle manufacturing</td>
<td></td>
</tr>
<tr>
<td>336120</td>
<td></td>
</tr>
<tr>
<td>Heavy duty truck manufacturing</td>
<td></td>
</tr>
</tbody>
</table>

Source: US Census Bureau

Table 10 | HS Codes Related to Hybrid & Electric Vehicles

<table>
<thead>
<tr>
<th>HS Code</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>870340</td>
<td>Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, incapable of being charged by plugging to external source of electric power</td>
</tr>
<tr>
<td>870350</td>
<td>Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion, incapable of being charged by plugging to external source of electric power</td>
</tr>
<tr>
<td>870360</td>
<td>Vehicles; with both spark-ignition internal combustion reciprocating piston engine and electric motor for propulsion, capable of being charged by plugging to external source of electric power</td>
</tr>
<tr>
<td>870370</td>
<td>Vehicles; with both compression-ignition internal combustion piston engine (diesel or semi-diesel) and electric motor for propulsion, capable of being charged by plugging to external source of electric power</td>
</tr>
<tr>
<td>870380</td>
<td>Vehicles; with only electric motor for propulsion</td>
</tr>
</tbody>
</table>

Source: United Nations Statistics Division

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About This Report

Resources

The Freedonia Group

Global Hybrid & Electric Vehicles, May 2018

Freedonia Industry Studies

Global Batteries, June 2018
Global Motorcycles, May 2018
Recreational Vehicles in the US, April 2018
Global Automotive Lubricants, December 2017
North America Automotive Aftermarket, November 2017
Global Bus Market, May 2017
Global Diesel Engine Market, January 2017
Battery Markets in the US, December 2016
Single-Use (Primary) Batteries in the US, November 2016
Rechargeable (Secondary) Batteries, September 2016

Freedonia Focus Reports

Batteries: United States
Buses: United States
Diesel Engines: United States
Global Buses
Medium- & Heavy-Duty Trucks & Buses: United States
Rechargeable (Secondary) Batteries: United States
Single-Use (Primary) Batteries: United States
World Diesel Engines

Freedonia Custom Research

Trade Publications

Autoblog
Automotive Digest
Clean Technica
EV World
Green Car Congress
Green Car Reports
HybridCars.com
Ward's Auto

Agencies & Associations

Alliance of Automobile Manufacturers
Anfavea Brazil
About This Report

American Public Transportation Association
Austrian Ministry of Transport
California Fuel Cell Partnership
Electric Drive Transportation Association
Engine Manufacturers Association
European Alternative Fuels observatory
European Automobile Manufacturers Association
European Commission
Eurostat
International Council on Clean Transportation
International Energy Agency
Japan Automobile Manufacturers Association
National Automobile Dealers Association
National Highway Traffic Safety Administration
UN Comtrade
US Census Bureau
US Department of Energy
US Department of Transportation
US Energy Information Administration
US Environmental Protection Agency
US International Trade Commission