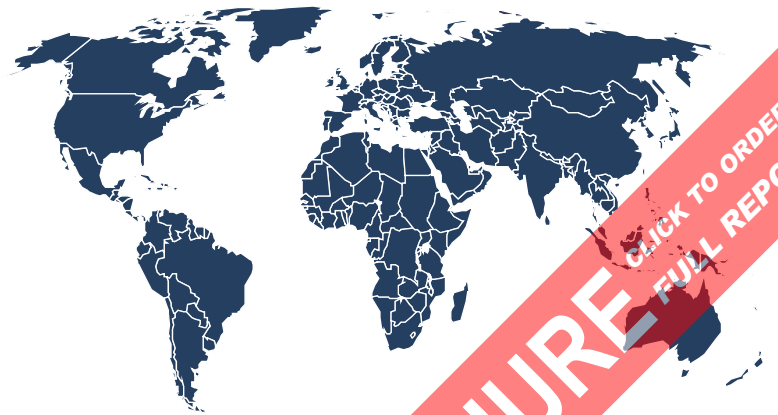




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Global Light Vehicles

December 2021



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About This Report

Scope

This report forecasts to 2021 and 2025 global light vehicle sales, production, and park by region in units. Regions include:

- North America
- Western Europe
- Asia/Pacific
- other regions, which span Central and South America, Eastern Europe, and Africa/Mideast

In addition, for the three main regions, sales, production, park, and park per capita by major country are forecast to 2021 and 2025.

To illustrate historical trends, global sales, production, park, and park per capita by major region are provided in annual series from 2010 to 2020. For the three main regions, sales, production, park, and park per capita by major country are provided at five-year intervals for 2010, 2015, and 2020.

Three-wheeled vehicles, such as those used for last-mile transportation of goods in lower income countries, are excluded from the scope of this report. Sales of used light vehicles are also excluded from this report.

Other various topics, including profiles of pertinent leading companies, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Global Light Vehicles (FW85015) represents the synthesis and analysis of data from various secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and 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 14 | NACE Codes Related to Light Vehicles

NACE Code	Definition
29102100	Vehicles with only spark-ignition engine of a cylinder capacity $\leq 1\,500\text{ cm}^3$
29102230	Motor vehicles with only petrol engine $> 1\,500\text{ cm}^3$ (including motor caravans of a capacity $> 3\,000\text{ cm}^3$) (excluding vehicles for transporting ≥ 10 persons, snowmobiles, golf cars and similar vehicles)
29102250	Motor caravans with only spark-ignition internal combustion reciprocating piston engine of a cylinder capacity $> 1\,500\text{ cm}^3$ but $\leq 3\,000\text{ cm}^3$
29102310	Motor vehicles with only diesel or semi-diesel engine $\leq 1\,500\text{ cm}^3$ (excluding vehicles for transporting ≥ 10 persons, snowmobiles, golf cars and similar vehicles)
29102330	Motor vehicles with only diesel or semi-diesel engine $> 1\,500\text{ cm}^3$ but $\leq 2\,500\text{ cm}^3$ (excluding vehicles for transporting ≥ 10 persons, motor caravans, snowmobiles, golf cars and similar vehicles)
29102340	Motor vehicles with only diesel or semi-diesel engine $> 2\,500\text{ cm}^3$ (excluding vehicles for transporting ≥ 10 persons, motor caravans, snowmobiles, golf cars and similar vehicles)
29102353	Motor caravans with only compression-ignition internal combustion piston engine (diesel or semi-diesel) of a cylinder capacity $> 1\,500\text{ cm}^3$ but $\leq 2\,500\text{ cm}^3$
29102355	Motor caravans with only compression-ignition internal combustion piston engine (diesel or semi-diesel) of a cylinder capacity $> 2\,500\text{ cm}^3$
29102410	Motor vehicles, with both spark-ignition or compression-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion, other than those capable of being charged by plugging to external source of electric power
29102430	Motor vehicles, with both spark-ignition or compression-ignition internal combustion reciprocating piston engine and electric motor as motors for propulsion, capable of being charged by plugging to external source of electric power
29102450	Motor vehicles, with only electric motor for propulsion
29102490	Other motor vehicles for the transport of persons (excluding vehicles with only electric motor for propulsion, vehicles for transporting ≥ 10 persons, snowmobiles, golf cars and similar vehicles)
29104110	Goods vehicles with a diesel or semi-diesel engine, of a gross vehicle weight ≤ 5 tonnes (excluding dumpers for off-highway use)
29104200	Goods vehicles, with spark-ignition internal combustion piston engine; other goods vehicles, new

Source: European Commission

Table 15 | HS Codes Related to Light Vehicles

HS Code	Definition
8703.40	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
8703.50	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
8703.60	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
8703.70	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
8703.80	Vehicles; with only electric motor for propulsion

Source: United Nations Statistics Division

Table 16 | NAICS & SIC Codes Related to Light Vehicles

NAICS/SCIAN 2017		SIC	
North American Industry Classification System		Standard Industrial Classification	
336111	Automobile Manufacturing	3711	Motor Vehicles and Passenger Car Bodies
336112	Light Truck and Utility Vehicle Manufacturing	3713	Truck and Bus Bodies
336211	Motor Vehicle Body Manufacturing		

Source: US Census Bureau

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia 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.

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Global Lubricants

Global Motorcycles

Hybrid & Electric Light Vehicles: United States

Insulated Wire & Cable: United States

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Motor Vehicles: Europe

Motor Vehicles: United States

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