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Batteries:

United Kingdom

June 2018



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About This Report

Scope

This report forecasts to 2022 battery demand and shipments in nominal US dollars at the manufacturer level in the United Kingdom. Total demand is segmented by product in terms of:

- secondary lead-acid
- secondary lithium-ion
- other secondary batteries such as nickel-based, sodium-sulfur, and sodium-nickel chloride
- primary alkaline
- other primary batteries such as lithium, zinc-air, and zinc-carbon

Total demand is also segmented by market as follows:

- automotive
- consumer
- industrial and other markets such as grid storage systems, uninterruptible power supply systems, and telecom backup systems

Total shipments are segmented by product as follows:

- secondary
- primary

To illustrate historical trends, total demand is provided in annual series from 2007 to 2017; shipments and the various segments are reported at five-year intervals for 2007, 2012, and 2017.

For any given historical year, US dollar amounts are obtained from values expressed in the applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts assume the same annual exchange rate as that prevailing in 2017. All figures cited are in US dollars unless otherwise specified.

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

Batteries: United Kingdom (FB45011) is based on *Global Batteries*, 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
- 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 6 | HS Codes Related to Batteries

HS Code	Definition
8506.10	Primary manganese dioxide batteries
8506.30	Primary mercuric oxide batteries
8506.40	Primary silver-oxide batteries
8506.50	Primary lithium batteries
8506.60	Primary zinc-air batteries
8506.80	Other primary batteries
8507.10	Secondary lead-acid vehicle batteries
8507.20	Other secondary lead-acid batteries
8507.30	Secondary nickel-cadmium batteries
8507.40	Secondary nickel-iron batteries
8507.50	Secondary nickel-metal hydride batteries
8507.60	Secondary lithium-ion batteries
8507.80	Other secondary batteries

Source: United Nations Statistics Division

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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Resources

The Freedonia Group

Global Batteries, June 2018

Freedonia Industry Studies

Power Tools in the US, June 2018

Global Hybrid & Electric Vehicles, May 2018

Recreational Vehicles in the US, April 2018

Solar Roofing in the US, April 2018

Automotive Lubricants Market in the UK, January 2018

Global Power Lawn & Garden Equipment, December 2017

Global Power Tools Market, May 2017

Battery Markets in the US, December 2016

Freedonia Focus Reports

Automotive Aftermarket Batteries & Ignition Components: North America

Automotive Lubricants: United Kingdom

Batteries: Canada

Batteries: United States

Global Batteries

Global Hybrid & Electric Vehicles

Global Motorcycles

Hybrid & Electric Vehicles: United Kingdom

Hybrid & Electric Vehicles: United States

Motor Vehicle Biofuels: United States

Renewable Energy: United States

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Trade Publications

Automotive News

Batteries and Energy Storage Technology

Batteries International

Battery Power

Energy Storage Journal

Agencies & Associations

Battery Council International

Energy Storage Association

Rechargeable Battery Association

United Nations Comtrade