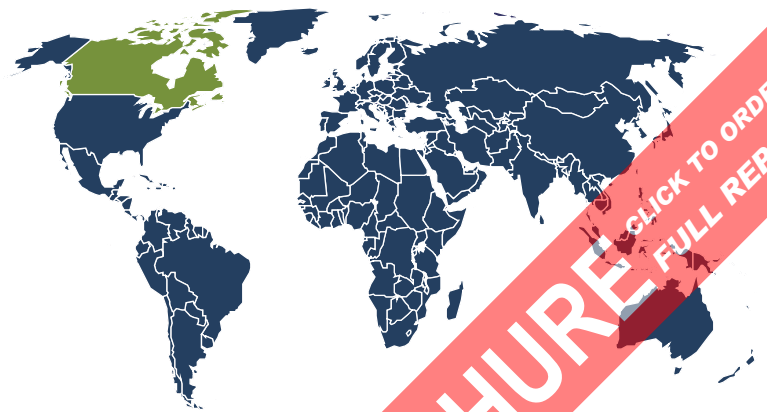


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Batteries: Canada

June 2018



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About This Report

Scope & Method

This report forecasts to 2022 battery demand and shipments in nominal US dollars at the manufacturer level in Canada. 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:

- 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.

This report 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.

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

About This Report

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: Canada (FA45011) 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 | NAICS & SIC Codes Related to Batteries

| NAICS/SCIAN 2007 | | SIC | |
|---|-------------------------------|------------------------------------|-------------------|
| North American Industry Classification System | | Standard Industrial Classification | |
| 335911 | Storage Battery Manufacturing | 3691 | Storage Batteries |
| 335912 | Primary Battery Manufacturing | 3692 | Primary Batteries |

Source: US Census Bureau

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