

# **NORTH AMERICA SOLID STATE BATTERY MARKET FORECAST 2018-2026**

<https://marketpublishers.com/r/N58DB1BCF60EN.html>

Date: May 2018

Pages: 84

Price: US\$ 1,250.00 (Single User License)

ID: N58DB1BCF60EN

## **Abstracts**

### **KEY FINDINGS**

The primary applications of the Solid-state batteries are found in consumer electronics, electric vehicles and energy harvesting, which is further augmenting the growth & adoption of Solid-state battery market in North America. The market is expected to prosper with a 65.83% CAGR over the forecast period of 2018-2026.

### **MARKET INSIGHTS**

The segmentation of the North American solid-state battery market is done according to the battery type, applications and battery capacity. A growing need for the commercialization of Solid-state batteries in the country that are inflammable, have high energy density & which are long lasting in nature, is propelling the market demand in this region. Many cold provinces such as Alaska, Dakota, Minnesota and Washington in the Northern region enhances the importance & utility of Solid-state batteries. The Canadian market for solid state batteries is being propelled by the rising adoption of electric vehicles & favourable government norms & policies related to the adoption of electric vehicles in the country.

### **COMPETITIVE INSIGHTS**

Companies like Infinite Power Solutions Inc, Brightvolt Incorporation, Imec, Robert Bosch, Planar Energy Devices Inc, Front Edge Technology Inc, Prieto Battery Inc, STMicroelectronics N.V and Cymbet Corporation are competing in this market.

## Contents

### **1. RESEARCH SCOPE**

- 1.1. STUDY GOALS
- 1.2. SCOPE OF THE MARKET STUDY
- 1.3. WHO WILL FIND THIS REPORT USEFUL?
- 1.4. STUDY AND FORECASTING YEARS

### **2. RESEARCH METHODOLOGY**

- 2.1. SOURCES OF DATA
  - 2.1.1. SECONDARY DATA
  - 2.1.2. PRIMARY DATA
- 2.2. TOP-DOWN APPROACH
- 2.3. BOTTOM-UP APPROACH
- 2.4. DATA TRIANGULATION

### **3. EXECUTIVE SUMMARY**

- 3.1. MARKET SUMMARY
- 3.2. KEY FINDINGS
  - 3.2.1. NORTH AMERICA LEADS THE OVERALL MARKET
  - 3.2.2. ELECTRIC VEHICLE SEGMENT TO GROW AT FASTEST RATE
  - 3.2.3. THIN FILM BATTERY LEADS THE BATTERY TYPE SEGMENT
  - 3.2.4. BULK BATTERY IS ANTICIPATED TO BE DYNAMICALLY EVOLVING BATTERY TYPE
  - 3.2.5. GROWING NUMBER OF START-UPS

### **4. MARKET DYNAMICS**

- 4.1. PARENT MARKET ANALYSIS: BATTERY MARKET
- 4.2. ETYMOLOGY OF SOLID STATE BATTERY
- 4.3. MARKET DEFINITION
- 4.4. DRIVERS
  - 4.4.1. BENEFITS OFFERED BY SOLID-STATE BATTERIES OVER THE LIQUID CELL BATTERIES
  - 4.4.2. SURGE IN THE INVESTMENTS TO AID IN MARKET DEVELOPMENT
  - 4.4.3. ONGOING TREND OF PRODUCT MINIATURIZING

- 4.4.4. POSITIVE OUTLOOK OF ELECTRIC VEHICLE MARKET
- 4.5. RESTRAINTS
  - 4.5.1. HIGH COSTS ASSOCIATED WITH SOLID STATE BATTERY
  - 4.5.2. DIFFICULTIES IN MANUFACTURING
- 4.6. OPPORTUNITIES
  - 4.6.1. RISING DEMAND FROM MILITARY & DEFENSE INDUSTRY
  - 4.6.2. WEARABLE DEVICES TO OFFER LUCRATIVE OPPORTUNITIES
- 4.7. CHALLENGES
  - 4.7.1. MANUFACTURING COST-EFFECTIVE SOLID-STATE BATTERY
  - 4.7.2. EASY AVAILABILITY OF CONVENTIONAL RECHARGEABLE BATTERIES

## **5. MARKET BY BATTERY TYPE**

- 5.1. THIN-FILM BATTERIES
- 5.2. BULK BATTERIES
- 5.3. OTHER BATTERIES

## **6. MARKET BY BATTERY CAPACITY**

- 6.1. LESS THAN 20 MAH
- 6.2. BETWEEN 20 MAH & 500 MAH
- 6.3. 500 MAH ABOVE

## **7. MARKET BY APPLICATION**

- 7.1. CONSUMER ELECTRONIC
- 7.2. ELECTRIC VEHICLE
- 7.3. ENERGY HARVESTING
- 7.4. MEDICAL DEVICES
- 7.5. WEARABLE DEVICES
- 7.6. OTHER APPLICATIONS

## **8. KEY ANALYTICS**

- 8.1. PORTERS FIVE FORCE MODEL
  - 8.1.1. THREAT OF NEW ENTRANTS
  - 8.1.2. THREAT OF SUBSTITUTE
  - 8.1.3. BARGAINING POWER OF SUPPLIERS
  - 8.1.4. BARGAINING POWER OF BUYERS

- 8.1.5. THREAT OF COMPETITIVE RIVALRY
- 8.2. OPPORTUNITY MATRIX
- 8.3. KEY BUYING CRITERIA
  - 8.3.1. COST
  - 8.3.2. SAFETY
  - 8.3.3. ENERGY DENSITY
  - 8.3.4. LIFESPAN
  - 8.3.5. APPLICATION
- 8.4. VENDOR LANDSCAPE
- 8.5. VALUE CHAIN ANALYSIS
  - 8.5.1. RAW MATERIAL SUPPLIERS
  - 8.5.2. MANUFACTURERS
  - 8.5.3. DISTRIBUTOR/RETAILERS
  - 8.5.4. END USERS/CONSUMERS
- 8.6. LEGAL, POLICY & REGULATORY FRAMEWORK
- 8.7. INVESTMENT ANALYSIS
  - 8.7.1. BY TYPE
  - 8.7.2. BY APPLICATION

## **9. GEOGRAPHICAL ANALYSIS**

- 9.1. UNITED STATES
- 9.2. CANADA

## **10. COMPANY PROFILES**

- 10.1. MARKET SHARE ANALYSIS
- 10.2. KEY COMPANY ANALYSIS
  - 10.2.1. EXCELLATRON SOLID STATE LLC
  - 10.2.2. SOLID POWER INC.
  - 10.2.3. DYSON
  - 10.2.4. CYMBET CORPORATION
  - 10.2.5. TOYOTA INDUSTRIES CORPORATION
- 10.3. CORPORATE STRATEGIES
  - 10.3.1. PARTNERSHIP & COLLABORATION
  - 10.3.2. MERGER & ACQUISITION
  - 10.3.3. PRODUCT LAUNCH
  - 10.3.4. OTHER KEY STRATEGIES
- 10.4. COMPANY PROFILES

- 10.4.1. BRIGHTVOLT INCORPORATION
- 10.4.2. CYMBET CORPORATION
- 10.4.3. DYSON
- 10.4.4. EXCELLATRON SOLID STATE LLC
- 10.4.5. FRONT EDGE TECHNOLOGY INC.
- 10.4.6. HITACHI Zosen CORPORATION
- 10.4.7. IMEC
- 10.4.8. INFINITE POWER SOLUTIONS INC. (ACQUIRED BY APPLE INC.)
- 10.4.9. PANASONIC CORPORATION
- 10.4.10. PLANAR ENERGY DEVICES INC.,
- 10.4.11. PRIETO BATTERY, INC
- 10.4.12. ROBERT BOSCH
- 10.4.13. SOLID POWER INC.
- 10.4.14. STMICROELECTRONICS N.V.
- 10.4.15. TOYOTA INDUSTRIES CORPORATION

## List Of Tables

### LIST OF TABLES

TABLE 1: NORTH AMERICA SOLID STATE BATTERY MARKET, BY GEOGRAPHY, 2018-2026 (IN \$ MILLION)

TABLE 2: STARTUP ORGANIZATIONS ENGAGED IN SOLID STATE BATTERY MARKET

TABLE 3: COMPARISON BETWEEN LIQUID CELL BATTERY & SOLID STATE BATTERY

TABLE 4: PERFORMANCE CHARACTERISTICS AND DIMENSIONS OF SOLID-STATE, THIN FILM BATTERY

TABLE 5: WORLDWIDE SALES OF ELECTRIC VEHICLES IN 2017 (MONTH-WISE SALES)

TABLE 6: COUNTRY-WISE STOCK TARGETS OF ELECTRIC VEHICLE TILL 2020

TABLE 7: NORTH AMERICA SOLID STATE BATTERY MARKET, BY BATTERY TYPE, 2018-2026, (IN \$ MILLION)

TABLE 8: NORTH AMERICA SOLID STATE BATTERY MARKET, BY BATTERY CAPACITY, 2018-2026, (IN \$ MILLION)

TABLE 9: NORTH AMERICA SOLID STATE BATTERY MARKET, BY APPLICATION, 2018-2026, (IN \$ MILLION)

TABLE 10: OPPORTUNITY MATRIX FOR SOLID STATE BATTERY MARKET

TABLE 11: VENDOR LANDSCAPE OF SOLID STATE BATTERY MARKET

TABLE 12: LEGAL, POLICY & REGULATORY FRAMEWORK

TABLE 13: NORTH AMERICA SOLID STATE BATTERY MARKET, BY COUNTRY, 2018-2026 (IN \$ MILLION)

TABLE 14: LIST OF PARTNERSHIP & COLLABORATION

TABLE 15: LIST OF MERGERS & ACQUISITIONS

TABLE 16: LIST OF PRODUCT LAUNCHES

TABLE 17: LIST OF OTHER KEY STRATEGIES

## List Of Figures

### LIST OF FIGURES

FIGURE 1: NORTH AMERICA SOLID STATE BATTERY MARKET, BY APPLICATION, 2017 & 2026 (IN %)

FIGURE 2: NORTH AMERICA SOLID STATE BATTERY MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 3: WORLDWIDE BATTERY MARKET, 2015-2024 (IN \$ BILLIONS)

FIGURE 4: TIMELINE OF SOLID STATE BATTERY

FIGURE 5: WORLDWIDE SALES OF LIGHT DUTY ELECTRIC VEHICLES, 2014-2024 (IN MILLION UNITS)

FIGURE 6: NORTH AMERICA SOLID STATE BATTERY MARKET, BY THIN-FILM BATTERIES, 2018-2026 (IN \$ MILLION)

FIGURE 7: NORTH AMERICA SOLID STATE BATTERY MARKET, BY BULK BATTERIES, 2018-2026 (IN \$ MILLION)

FIGURE 8: NORTH AMERICA SOLID STATE BATTERY MARKET, BY OTHER BATTERIES, 2018-2026 (IN \$ MILLION)

FIGURE 9: NORTH AMERICA SOLID STATE BATTERY MARKET, BY LESS THAN 20 MAH, 2018-2026 (IN \$ MILLION)

FIGURE 10: NORTH AMERICA SOLID STATE BATTERY MARKET, BY BETWEEN 20 MAH & 500 MAH, 2018-2026 (IN \$ MILLION)

FIGURE 11: NORTH AMERICA SOLID STATE BATTERY MARKET, BY 500 MAH ABOVE, 2018-2026 (IN \$ MILLION)

FIGURE 12: NORTH AMERICA SOLID STATE BATTERY MARKET, BY CONSUMER ELECTRONICS, 2018-2026 (IN \$ MILLION)

FIGURE 13: NORTH AMERICA SOLID STATE BATTERY MARKET, BY ELECTRIC VEHICLE, 2018-2026 (IN \$ MILLION)

FIGURE 14: NORTH AMERICA SOLID STATE BATTERY MARKET, BY ENERGY HARVESTING, 2018-2026 (IN \$ MILLION)

FIGURE 15: NORTH AMERICA SOLID STATE BATTERY MARKET, BY MEDICAL DEVICES, 2018-2026 (IN \$ MILLION)

FIGURE 16: NORTH AMERICA SOLID STATE BATTERY MARKET, BY WEARABLE DEVICES, 2018-2026 (IN \$ MILLION)

FIGURE 17: NORTH AMERICA SOLID STATE BATTERY MARKET, BY OTHER APPLICATIONS, 2018-2026 (IN \$ MILLION)

FIGURE 18: PORTER'S FIVE FORCE MODEL OF SOLID STATE BATTERY MARKET

FIGURE 19: KEY IMPACT ANALYSIS

FIGURE 20: VALUE CHAIN OF SOLID STATE BATTERY MARKET

FIGURE 21: INVESTMENT ANALYSIS OF SOLID STATE BATTERY MARKET, BY BATTERY TYPE, IN 2017

FIGURE 22: INVESTMENT ANALYSIS OF SOLID STATE BATTERY MARKET, BY APPLICATION, IN 2017

FIGURE 23: NORTH AMERICA SOLID STATE BATTERY MARKET, REGIONAL OUTLOOK, 2017 & 2026 (IN %)

FIGURE 24: UNITED STATES SOLID STATE BATTERY MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 25: CANADA SOLID STATE BATTERY MARKET, 2018-2026 (IN \$ MILLION)

FIGURE 26: MARKET SHARE ANALYSIS OF KEY PLAYERS IN 2017 (IN %)

## **COMPANIES MENTIONED**

1. BRIGHTVOLT INCORPORATION
2. CYMBET CORPORATION
3. DYSON
4. EXCELLATRON SOLID STATE LLC
5. FRONT EDGE TECHNOLOGY INC.
6. HITACHI Zosen CORPORATION
7. IMEC
8. INFINITE POWER SOLUTIONS INC. (ACQUIRED BY APPLE INC.)
9. PANASONIC CORPORATION
10. PLANAR ENERGY DEVICES INC
11. PRIETO BATTERY, INC
12. ROBERT BOSCH
13. SOLID POWER INC.
14. STMICROELECTRONICS N.V.
15. TOYOTA INDUSTRIES CORPORATION



## I would like to order

Product name: NORTH AMERICA SOLID STATE BATTERY MARKET FORECAST 2018-2026

Product link: <https://marketpublishers.com/r/N58DB1BCF60EN.html>

Price: US\$ 1,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/N58DB1BCF60EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970