

# Advanced Energy Storage System - Global Market Outlook (2015-2022)

<https://marketpublishers.com/r/A9EA740F1ABEN.html>

Date: May 2016

Pages: 142

Price: US\$ 4,150.00 (Single User License)

ID: A9EA740F1ABEN

## Abstracts

According to Statistics MRC, the Global Advanced Energy Storage Systems market is accounted for \$13.64 billion in 2015 and is expected to reach \$19.59 billion by 2022 growing at a CAGR of 5.3%. The new energy conservation policies are shifting its focus from conventional modes to alternative energy system. In Advanced energy storage systems the energy resources are renewable source and intermittent energy source, using these energy resources the number of power plants are reduced, this is estimated to be the major driving factor of the market growth. Some resources producing pollution thus increasing the environmental concern is the only restraint challenging the market growth.

Transportation segment among the applications is accounted for largest market share owing to increasing use of electric vehicles compared to conventional. Moreover Li-Ion batteries in technology segment are growing at a strong pace because of its usage in energy storage in transportation and residential purposes. The North America holds largest share of the overall installed capacity of advanced energy storage. But Asia Pacific is anticipated to dominate the market in the forthcoming years.

Some of the key players in are ABB Limited, Beacon Power LLC., BYD Company Ltd., Calmac Manufacturing Corp., China BAK Batteries, Inc., EnerSys, Exide Technologies, GS Yuasa Corporation, Hitachi Ltd., LG Chem. Ltd., Maxwell Technologies Inc., NGK Insulators Ltd., Nippon Chemi-Con Corporation, Saft Groupe S.A, Samsung SDI, Co., Ltd. and Toshiba Corporation.

Technologies Covered:

Flywheels

Thermal

Batteries

Lithium ION Battery Technology

NAS Battery Storage Technology

Flow Battery Energy Storage Technology

Compressed Air

CAES Energy Storage Technology

Molten Salt

Pumped Hydro Storage Technology

Super Capacitors Energy Storage Technology

Applications Covered:

Grid Storage

Transportation

End Users Covered:

Electric Vehicles

Residential & Non-Residential

Utility

Regions Covered:

## North America

US

Canada

Mexico

## Europe

Germany

France

Italy

UK

Spain

Rest of Europe

## Asia Pacific

Japan

China

India

Australia

New Zealand

Rest of Asia Pacific

## Rest of the World

Middle East

Brazil

Argentina

South Africa

Egypt

## **WHAT OUR REPORT OFFERS:**

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 7 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Application Analysis
- 3.8 End User Analysis
- 3.9 Emerging markets

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

## **5 GLOBAL ADVANCED ENERGY STORAGE SYSTEMS MARKET, BY TECHNOLOGY**

- 5.1 Introduction
- 5.2 Flywheels
- 5.3 Thermal
- 5.4 Batteries
  - 5.4.1 Lithium ION Battery Technology
  - 5.4.2 NAS Battery Storage Technology
  - 5.4.3 Flow Battery Energy Storage Technology
- 5.5 Compressed Air
  - 5.5.1 CAES Energy Storage Technology
- 5.6 Molten Salt
- 5.7 Pumped Hydro Storage Technology
- 5.8 Super Capacitors Energy Storage Technology

## **6 GLOBAL ADVANCED ENERGY STORAGE SYSTEMS MARKET, BY APPLICATION**

- 6.1 Introduction
- 6.2 Grid Storage
- 6.3 Transportation

## **7 GLOBAL ADVANCED ENERGY STORAGE SYSTEMS MARKET, BY END USER**

- 7.2 Introduction
- 7.1 Electric Vehicles
- 7.4 Residential & Non-Residential
- 7.3 Utility

## **8 GLOBAL ADVANCED ENERGY STORAGE SYSTEMS MARKET, BY GEOGRAPHY**

- 8.1 North America
  - 8.1.1 US
  - 8.1.2 Canada
  - 8.1.3 Mexico
- 8.2 Europe
  - 8.2.1 Germany

8.2.2 France

8.2.3 Italy

8.2.4 UK

8.2.5 Spain

8.2.6 Rest of Europe

8.3 Asia Pacific

8.3.1 Japan

8.3.2 China

8.3.3 India

8.3.4 Australia

8.3.5 New Zealand

8.3.6 Rest of Asia Pacific

8.4 Rest of the World

8.4.1 Middle East

8.4.2 Brazil

8.4.3 Argentina

8.4.4 South Africa

8.4.5 Egypt

## **9 KEY DEVELOPMENTS**

9.1 Agreements, Partnerships, Collaborations and Joint Ventures

9.2 Acquisitions & Mergers

9.3 New Product Launch

9.4 Expansions

9.5 Other Key Strategies

## **10 COMPANY PROFILING**

10.1 ABB Limited

10.2 Beacon Power LLC.

10.3 BYD Company Ltd.

10.4 Calmac Manufacturing Corp.

10.5 China BAK Batteries, Inc.

10.6 Enersys

10.7 Exide Technologies

10.8 GS Yuasa Corporation

10.9 Hitachi Ltd.

10.10 LG Chem. Ltd.

- 10.11 Maxwell Technologies Inc.
- 10.12 NGK Insulators Ltd.
- 10.13 Nippon Chemi-Con Corporation
- 10.14 Saft Groupe S.A
- 10.15 Samsung SDI, Co., Ltd.
- 10.16 Toshiba Corporation
- 10.17 A123 Systems



## List Of Tables

### LIST OF TABLES

- 1 Global Advanced Energy Storage Systems Market , By Region (2013-2022) (\$MN)
- 2 Global Advanced Energy Storage Systems Market , By Technology (2013-2022) (\$MN)
- 3 Global Advanced Energy Storage Systems Market , By Flywheels (2013-2022) (\$MN)
- 4 Global Advanced Energy Storage Systems Market , By Thermal (2013-2022) (\$MN)
- 5 Global Advanced Energy Storage Systems Market , By Batteries (2013-2022) (\$MN)
- 6 Global Advanced Energy Storage Systems Market , By Lithium ION Battery Technology (2013-2022) (\$MN)
- 7 Global Advanced Energy Storage Systems Market , By NAS Battery Storage Technology (2013-2022) (\$MN)
- 8 Global Advanced Energy Storage Systems Market , By Flow Battery Energy Storage Technology (2013-2022) (\$MN)
- 9 Global Advanced Energy Storage Systems Market , By Compressed Air (2013-2022) (\$MN)
- 10 Global Advanced Energy Storage Systems Market , By CAES Energy Storage Technology (2013-2022) (\$MN)
- 11 Global Advanced Energy Storage Systems Market , By Molten Salt (2013-2022) (\$MN)
- 12 Global Advanced Energy Storage Systems Market , By Pumped Hydro Storage Technology (2013-2022) (\$MN)
- 13 Global Advanced Energy Storage Systems Market , By Super Capacitors Energy Storage Technology (2013-2022) (\$MN)
- 14 Global Advanced Energy Storage Systems Market , By Application (2013-2022) (\$MN)
- 15 Global Advanced Energy Storage Systems Market , By Grid Storage (2013-2022) (\$MN)
- 16 Global Advanced Energy Storage Systems Market , By Transportation (2013-2022) (\$MN)
- 17 Global Advanced Energy Storage Systems Market , By End User (2013-2022) (\$MN)
- 18 Global Advanced Energy Storage Systems Market , By Electric Vehicles (2013-2022) (\$MN)
- 19 Global Advanced Energy Storage Systems Market , By Residential & Non-Residential (2013-2022) (\$MN)
- 20 Global Advanced Energy Storage Systems Market , By Utility (2013-2022) (\$MN)
- 21 North America Advanced Energy Storage Systems Market , By Country (2013-2022)

(\$MN)

22 North America Advanced Energy Storage Systems Market , By Technology  
(2013-2022) (\$MN)

23 North America Advanced Energy Storage Systems Market , By Flywheels  
(2013-2022) (\$MN)

24 North America Advanced Energy Storage Systems Market , By Thermal (2013-2022)  
(\$MN)

25 North America Advanced Energy Storage Systems Market , By Batteries  
(2013-2022) (\$MN)

26 North America Advanced Energy Storage Systems Market , By Lithium ION Battery  
Technology (2013-2022) (\$MN)

27 North America Advanced Energy Storage Systems Market , By NAS Battery Storage  
Technology (2013-2022) (\$MN)

28 North America Advanced Energy Storage Systems Market , By Flow Battery Energy  
Storage Technology (2013-2022) (\$MN)

29 North America Advanced Energy Storage Systems Market , By Compressed Air  
(2013-2022) (\$MN)

30 North America Advanced Energy Storage Systems Market , By CAES Energy  
Storage Technology (2013-2022) (\$MN)

31 North America Advanced Energy Storage Systems Market , By Molten Salt  
(2013-2022) (\$MN)

32 North America Advanced Energy Storage Systems Market , By Pumped Hydro  
Storage Technology (2013-2022) (\$MN)

33 North America Advanced Energy Storage Systems Market , By Super Capacitors  
Energy Storage Technology (2013-2022) (\$MN)

34 North America Advanced Energy Storage Systems Market , By Application  
(2013-2022) (\$MN)

35 North America Advanced Energy Storage Systems Market , By Grid Storage  
(2013-2022) (\$MN)

36 North America Advanced Energy Storage Systems Market , By Transportation  
(2013-2022) (\$MN)

37 North America Advanced Energy Storage Systems Market , By End User  
(2013-2022) (\$MN)

38 North America Advanced Energy Storage Systems Market , By Electric Vehicles  
(2013-2022) (\$MN)

39 North America Advanced Energy Storage Systems Market , By Residential & Non-  
Residential (2013-2022) (\$MN)

40 North America Advanced Energy Storage Systems Market , By Utility (2013-2022)  
(\$MN)

- 41 Europe Advanced Energy Storage Systems Market , By Country (2013-2022) (\$MN)
- 42 Europe Advanced Energy Storage Systems Market , By Technology (2013-2022) (\$MN)
- 43 Europe Advanced Energy Storage Systems Market , By Flywheels (2013-2022) (\$MN)
- 44 Europe Advanced Energy Storage Systems Market , By Thermal (2013-2022) (\$MN)
- 45 Europe Advanced Energy Storage Systems Market , By Batteries (2013-2022) (\$MN)
- 46 Europe Advanced Energy Storage Systems Market , By Lithium ION Battery Technology (2013-2022) (\$MN)
- 47 Europe Advanced Energy Storage Systems Market , By NAS Battery Storage Technology (2013-2022) (\$MN)
- 48 Europe Advanced Energy Storage Systems Market , By Flow Battery Energy Storage Technology (2013-2022) (\$MN)
- 49 Europe Advanced Energy Storage Systems Market , By Compressed Air (2013-2022) (\$MN)
- 50 Europe Advanced Energy Storage Systems Market , By CAES Energy Storage Technology (2013-2022) (\$MN)
- 51 Europe Advanced Energy Storage Systems Market , By Molten Salt (2013-2022) (\$MN)
- 52 Europe Advanced Energy Storage Systems Market , By Pumped Hydro Storage Technology (2013-2022) (\$MN)
- 53 Europe Advanced Energy Storage Systems Market , By Super Capacitors Energy Storage Technology (2013-2022) (\$MN)
- 54 Europe Advanced Energy Storage Systems Market , By Application (2013-2022) (\$MN)
- 55 Europe Advanced Energy Storage Systems Market , By Grid Storage (2013-2022) (\$MN)
- 56 Europe Advanced Energy Storage Systems Market , By Transportation (2013-2022) (\$MN)
- 57 Europe Advanced Energy Storage Systems Market , By End User (2013-2022) (\$MN)
- 58 Europe Advanced Energy Storage Systems Market , By Electric Vehicles (2013-2022) (\$MN)
- 59 Europe Advanced Energy Storage Systems Market , By Residential & Non-Residential (2013-2022) (\$MN)
- 60 Europe Advanced Energy Storage Systems Market , By Utility (2013-2022) (\$MN)
- 61 Asia Pacific Advanced Energy Storage Systems Market , By Country (2013-2022) (\$MN)

- 62 Asia Pacific Advanced Energy Storage Systems Market , By Technology (2013-2022) (\$MN)
- 63 Asia Pacific Advanced Energy Storage Systems Market , By Flywheels (2013-2022) (\$MN)
- 64 Asia Pacific Advanced Energy Storage Systems Market , By Thermal (2013-2022) (\$MN)
- 65 Asia Pacific Advanced Energy Storage Systems Market , By Batteries (2013-2022) (\$MN)
- 66 Asia Pacific Advanced Energy Storage Systems Market , By Lithium ION Battery Technology (2013-2022) (\$MN)
- 67 Asia Pacific Advanced Energy Storage Systems Market , By NAS Battery Storage Technology (2013-2022) (\$MN)
- 68 Asia Pacific Advanced Energy Storage Systems Market , By Flow Battery Energy Storage Technology (2013-2022) (\$MN)
- 69 Asia Pacific Advanced Energy Storage Systems Market , By Compressed Air (2013-2022) (\$MN)
- 70 Asia Pacific Advanced Energy Storage Systems Market , By CAES Energy Storage Technology (2013-2022) (\$MN)
- 71 Asia Pacific Advanced Energy Storage Systems Market , By Molten Salt (2013-2022) (\$MN)
- 72 Asia Pacific Advanced Energy Storage Systems Market , By Pumped Hydro Storage Technology (2013-2022) (\$MN)
- 73 Asia Pacific Advanced Energy Storage Systems Market , By Super Capacitors Energy Storage Technology (2013-2022) (\$MN)
- 74 Asia Pacific Advanced Energy Storage Systems Market , By Application (2013-2022) (\$MN)
- 75 Asia Pacific Advanced Energy Storage Systems Market , By Grid Storage (2013-2022) (\$MN)
- 76 Asia Pacific Advanced Energy Storage Systems Market , By Transportation (2013-2022) (\$MN)
- 77 Asia Pacific Advanced Energy Storage Systems Market , By End User (2013-2022) (\$MN)
- 78 Asia Pacific Advanced Energy Storage Systems Market , By Electric Vehicles (2013-2022) (\$MN)
- 79 Asia Pacific Advanced Energy Storage Systems Market , By Residential & Non-Residential (2013-2022) (\$MN)
- 80 Asia Pacific Advanced Energy Storage Systems Market , By Utility (2013-2022) (\$MN)
- 81 RoW Advanced Energy Storage Systems Market , By Country (2013-2022) (\$MN)

- 82 RoW Advanced Energy Storage Systems Market , By Technology (2013-2022) (\$MN)
- 83 RoW Advanced Energy Storage Systems Market , By Flywheels (2013-2022) (\$MN)
- 84 RoW Advanced Energy Storage Systems Market , By Thermal (2013-2022) (\$MN)
- 85 RoW Advanced Energy Storage Systems Market , By Batteries (2013-2022) (\$MN)
- 86 RoW Advanced Energy Storage Systems Market , By Lithium ION Battery Technology (2013-2022) (\$MN)
- 87 RoW Advanced Energy Storage Systems Market , By NAS Battery Storage Technology (2013-2022) (\$MN)
- 88 RoW Advanced Energy Storage Systems Market , By Flow Battery Energy Storage Technology (2013-2022) (\$MN)
- 89 RoW Advanced Energy Storage Systems Market , By Compressed Air (2013-2022) (\$MN)
- 90 RoW Advanced Energy Storage Systems Market , By CAES Energy Storage Technology (2013-2022) (\$MN)
- 91 RoW Advanced Energy Storage Systems Market , By Molten Salt (2013-2022) (\$MN)
- 92 RoW Advanced Energy Storage Systems Market , By Pumped Hydro Storage Technology (2013-2022) (\$MN)
- 93 RoW Advanced Energy Storage Systems Market , By Super Capacitors Energy Storage Technology (2013-2022) (\$MN)
- 94 RoW Advanced Energy Storage Systems Market , By Application (2013-2022) (\$MN)
- 95 RoW Advanced Energy Storage Systems Market , By Grid Storage (2013-2022) (\$MN)
- 96 RoW Advanced Energy Storage Systems Market , By Transportation (2013-2022) (\$MN)
- 97 RoW Advanced Energy Storage Systems Market , By End User (2013-2022) (\$MN)
- 98 RoW Advanced Energy Storage Systems Market , By Electric Vehicles (2013-2022) (\$MN)
- 99 RoW Advanced Energy Storage Systems Market , By Residential & Non-Residential (2013-2022) (\$MN)
- 100 RoW Advanced Energy Storage Systems Market , By Utility (2013-2022) (\$MN)

## I would like to order

Product name: Advanced Energy Storage System - Global Market Outlook (2015-2022)

Product link: <https://marketpublishers.com/r/A9EA740F1ABEN.html>

Price: US\$ 4,150.00 (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/A9EA740F1ABEN.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