Global Advance Energy Storage and Fuel Cell Market, Analysis and Forecast 2016-2022; Focus on Li Ion, Flow, Molten Salt (Liquid Metal), Metal Air and Ultrabatteries

Description: The global advance energy storage market is expected to grow at a tremendous pace during the forecast period of 2016-2022. The increasing adoption of EVs, HVs and PHEVs as well as growing emphasis towards grid storage has led to the strong growth of market globally. The report is a compilation of various segments including market dynamics, market breakdown by technology type, by geography and by applications. The report also includes a detailed section on the fuel cell technology along with its market estimation and analysis. The report focuses on the overall advance energy storage market with respect to both installed capacity and revenue generated. Moreover, each technology type are further mapped as per their geographical markets and application verticals.

The report provides a detailed market analysis and forecast along with the recent trends influencing the markets. While highlighting the key driving and restraining forces for this market, the report also provides a detailed study of the future trends and developments of the market. It also examines the role of the leading market players involved in the industry including their corporate overview, financials, financial summary and SWOT analysis.

The report addresses the following key questions about the global high speed camera market:
- What the market size is in terms of revenue and installed capacity from 2016-2022 for the global advance energy storage market?
- Which are the dominant technologies in the global advance energy storage market along with their revenue and installed capacity?
- What is the market size in terms of revenue generated and capacity installed of different technology type with respect to application verticals and geographical presence in the global advance energy storage market?
- What are the different factors which are driving the market forward in the forecast period?
- What are the major factors challenging the growth of global advance energy storage market?
- What are the new strategies adopted by the existing market players to make a mark in the industry?
- Which regions will lead the global advance energy storage market by the end of the forecast period?
- What is the Global market size of the fuel cell technology both in terms of revenue and installed capacity?
- What are the market breakdown of the fuel cell technology by type, applications and geographical presence?

The company profiles section includes highlights of significant information about the key companies involved along with their corporate overview, financial summary, SWOT analysis, key strategies & developmental activities of recent years (2014-2016). Some of the key players are Panasonic Corp., LG Chem, Samsung SDI, NGK Insulators, Saft batteries, GS Yuasa, Shenzhen BAK, and Sumitomo Electric Corporation.

Contents:

1 Research Scope and Methodology
1.1 Scope of the Report
1.2 Global Advance Energy Storage Market Research Methodology
1.2.1 Assumptions and Limitations
1.2.2 Primary Research
1.2.3 Secondary Research
1.2.4 Data Triangulation
1.2.5 Data Analysing & Market Estimation

2 Market Dynamics
2.1 Introduction
2.2 Drivers
2.2.1 Increase in the adoption rate of EVs and PHEVs
2.2.2 Increase in deployment of Renewable Energy Projects
2.2.3 Technological Advancements in the Field of Energy Storage
2.3 Restraints
2.3.1 High Price Point
2.3.2 Performance Limitations
2.4 Opportunities
2.4.1 Opportunity to tap into Off Grid Storage
2.4.2 Demand for Household Energy Storage

3 Competitive Insights
3.1 Key Market Developments and Strategies
3.1.1 New Product Launch and Development
3.1.2 Partnerships, Joint Ventures and Collaborations
3.1.3 Mergers and Acquisitions
3.1.4 Others
3.2 Strategic Benchmarking
3.3 Industry Attractiveness
3.3.1 Pricing Analysis
3.3.2 Technical Comparison of Batteries
3.4 Future Trends and Developments
3.4.1 The power of photosynthesis being harnessed with the Bio Plant Pot
3.4.2 Development of gold nanowire batteries which do not need any replacement
3.4.3 Super battery which can offer flexible energy storage capabilities
3.4.4 Sodium-ion batteries are much cheaper and use the salt of the earth to recover desalinated water from seawater
3.4.5 Urine-powered batteries will charge the smart phones
3.5 R&D Analysis of Leading Players in the Global Advance Energy Market

4 Advance Energy Storage Market by Type
4.1 Assumptions & Limitations for Market Size Calculations
4.2 Market Overview
4.3 Lithium Ion Batteries
4.4 Flow Batteries
4.5 Molten Salt Batteries
4.5.1 Sodium Sulphur Battery
4.6 Metal Air Batteries
4.7 Ultrabatteries
4.8 Fuel Cells
4.8.1 Polymer exchange membrane fuel cell (PEMFC):
4.8.2 Solid Oxide Fuel Cells:
4.8.3 Molten Carbonate Fuel Cells:
4.8.4 Phosphoric Acid Fuel Cell:
4.9 Global Fuel Cell Market, by Applications 2016-2022

5 Global Advance Energy Storage Market, by Geography
5.1 North America
5.2 Europe
5.3 APAC
5.4 Rest of the World

6 Global Advance Energy Storage Market, by Application
6.1 Consumer Electronics
6.2 Automotive
6.3 Grid Storage and Distribution

7 Company profiles
7.1 Panasonic Corporation
7.1.1 Company Overview
7.1.2 Financial Overview
7.1.2.1 Overall Financial
7.1.2.2 Geographic Revenue Mix
7.1.2.3 Business Segment Revenue Mix
7.1.2.4 Financial Summary
7.1.3 SWOT Analysis
7.2 AES Corporation
7.2.1 Company Overview
7.2.2 Corporate Summary
7.3 LG Chem
7.3.1 Company Overview
7.3.2 Financial Overview
7.3.2.1 Overall Financial
7.3.2.2 Geographic Revenue Mix
7.3.2.3 Business Segment Revenue Mix
7.3.2.4 Financial Summary
7.3.3 SWOT Analysis
7.4 Mitsubishi Heavy Industries
7.4.1 Company Overview
7.4.2 Financial Overview
7.4.2.1 Overall Financial
7.4.2.2 Geographic Revenue Mix
7.4.2.3 Business Segment Revenue Mix
7.4.2.4 Financial Summary
7.4.3 SWOT Analysis
7.5 Samsung SDI
7.5.1 Company Overview
7.5.2 Financial Overview
7.5.2.1 Overall Financial
7.5.2.2 Geographic Revenue Mix
7.5.2.3 Business Segment Revenue Mix
7.5.2.4 Financial Summary
7.5.3 SWOT Analysis
7.6 GS Yuasa
7.6.1 Company Overview
7.6.2 Financial Overview
7.6.2.1 Overall Financial
7.6.2.2 Geographic Revenue Mix
7.6.2.3 Business Segment Revenue Mix
7.6.2.4 Financial Summary
7.6.3 SWOT Analysis
7.7 Tianneng Power International Limited
7.7.1 Company Overview
7.7.2 Financial Overview
7.7.2.1 Overall Financial
7.7.2.2 Business Segment Revenue Mix
7.7.2.3 Financial Summary
7.7.3 SWOT Analysis
7.8 Tianjin Lishen Battery
7.8.1 Company Overview
7.8.2 Corporate Summary
7.9 Nuvera Fuel Cells, LCC
7.9.1 Company Overview
7.9.2 Corporate Summary
7.10 XALT Energy
7.10.1 Company Overview
7.10.2 Corporate Summary
7.11 Altergy
7.11.1 Company Overview
7.11.2 Corporate Summary
7.12 AMBRI
7.12.1 Company Overview
7.12.2 Corporate Summary
7.13 Posco Energy
7.13.1 Company Overview
7.13.2 Financial Overview
7.13.2.1 Overall Financial
7.13.3 Financial Summary
7.14 Fluidic Energy
7.14.1 Company Overview
7.14.2 Corporate Summary
7.15 Redflow Energy Storage
7.15.1 Company Overview
7.15.2 Financial Overview
7.15.2.1 Overall Financial
7.15.2.2 Financial Summary
7.15.3 SWOT Analysis
7.16 Primus Power
7.16.1 Company Overview
7.16.2 Corporate Summary
7.17 General Electric Company
7.17.1 Company Overview
7.17.2 Financial Overview
7.17.2.1 Overall Financial
7.17.2.2 Business Segment Revenue Mix
7.17.2.3 Geographic Revenue
7.17.2.4 Financial Summary
7.17.3 SWOT Analysis
7.18 Johnson Controls
7.18.1 Company Overview
7.18.2 Financial Overview
7.18.2.1 Overall Financial
7.18.2.2 Geographic Revenue
7.18.2.3 Business Segment Revenue Mix
7.18.3 Financial Summary
7.18.4 SWOT Analysis
7.19 Shenzhen BAK Battery Co., Ltd
7.19.1 Company Overview
7.19.2 Corporate Summary
7.20 Ballard Power Systems Inc.
7.20.1 Company Overview
7.20.2 Financials
7.20.2.1 Overall Financials
7.20.2.2 Geographic Revenue Mix
7.20.2.3 Business Segment Revenue Mix
7.20.3 Financial Summary
7.20.4 SWOT Analysis
7.21 Fuel Cell Energy
7.21.1 Company Overview
7.21.2 Financials
7.21.2.1 Overall Financials
7.21.2.2 Geographic Revenue Mix
7.21.2.3 Business Segment Revenue Mix
7.21.3 Financial Summary
7.21.4 SWOT Analysis
7.22 Saft Batteries
7.22.1 Company Overview
7.22.2 Financials
7.22.2.1 Overall Financials
7.22.2.2 Saft Batteries: Geographic Revenue
7.22.2.3 Business Segment Revenue Mix
7.22.3 Financial Summary
7.22.4 SWOT Analysis

List of Tables

Table 3.1 Key Product Launch and Development
Table 3.2 Partnerships, Joint Ventures and Collaborations
Table 3.18 Mergers and Acquisitions
Table 3.19 Others
Table 3.32 Technical Comparison of Battery Technologies
Table 4.1 Global Lithium Ion Batteries Market, 2016-2022
Table 4.2 Global Lithium Ion Batteries Market, By Application 2016-2022
Table 4.3 Global Lithium Ion Batteries Market, By Application 2016-2022
Table 4.4 Global Lithium Ion Batteries Market, By Geography 2016-2022
Table 4.5 Global Lithium Ion Batteries Market, By Geography 2016-2022
Table 4.6 Global Flow Batteries Market, 2016-2022
Table 4.7 Global Flow Batteries Market, By Application 2016-2022
Table 4.8 Global Flow Batteries Market, By Application 2016-2022
Table 4.9 Global Flow Batteries Market, By Geography 2016-2022
Table 4.10 Global Flow Batteries Market, By Geography 2016-2022
Table 4.11 Global Molten Salt Battery Market, 2016-2022
Table 4.12 Global Molten Salt Batteries Market, By Geography 2016-2022
Table 4.13 Global Molten Metal Batteries Market, By Geography 2016-2022
Table 4.14 Global Sodium Sulfur Batteries Market, 2016-2022
Table 4.15 Global Sodium Nickel Chloride Batteries Market, 2016-2022
Table 4.16 Global Metal Air Batteries Market, 2016-2022
Table 4.17 Global Metal Air Batteries Market, By Application 2016-2022
Table 4.18 Global Metal Air Batteries Market, By Application 2016-2022
Table 4.19 Global Metal Air Batteries Market, By Geography 2016-2022
Table 4.20 Global Metal Air Batteries Market, By Geography 2016-2022
Table 4.21 Global Ultra Batteries Market, 2016-2022
Table 4.22 Global Ultra Batteries Market, By Application 2016-2022
Table 4.23 Global Ultra Batteries Market, By Application 2016-2022
Table 4.24 Global Ultra Batteries Market, By Geography 2016-2022
Table 4.25 Global Ultra Batteries Market, By Geography 2016-2022
Table 4.26 Comparison of Different Fuel Cell Technologies
Table 4.27 Global Fuel Cell Market, 2016-2022
Table 4.28 Global PEM Fuel Cell Market, 2016-2022
Table 4.29 Global Solid Oxide Fuel Cell Market, 2016-2022
Table 4.30 Global Molten Carbonate Fuel Cell Market, 2016-2022
Table 4.31 Global Phosphoric Acid Fuel Cell Market, 2016-2022
Table 4.32 Global Fuel Cell Market, By Application (Capacity) 2016-2022
Table 4.33 Global Fuel Cell Market, By Application (Revenue) 2016-2022
Table 4.34 Global Fuel Cell Market, By Geography 2016-2022
Table 5.1 North America Advance Energy Storage Market, 2016-2022
Table 5.2 Europe Advance Energy Storage Market, 2016-2022
Table 5.3 APAC Advance Energy Storage Market, 2016-2022
Table 5.4 Rest of the World Advance Energy Storage Market, 2016-2022
Table 6.1 Advance Energy Storage Market for Consumer Electronics 2016-2022
Table 6.2 Advance Energy Storage Market for Automotive 2016-2022
Table 6.3 Advance Energy Storage Market for Grid Storage 2016-2022

List of Figures

Figure 1 Global Advance Energy Storage Market by Revenue 2016-2022
Figure 2 Global Advance Energy Storage Market by Installed Capacity 2016-2022
Figure 3 Global Advance Energy Storage Market Snapshot, 2015-2022
Figure 4 Global Advance Energy Storage Market by Type, 2015-2022
Figure 5 Advance Energy Storage Market Share for 2015 and 2022, by Application
Figure 6 Global Advance Energy Storage Market, by Geography
Figure 1.1 Global Advance Energy Storage Market Scope
Figure 1.2 Report Design
Figure 1.3 Primary Interviews Breakdown, by Player, Designation, and Region
Figure 1.4 Sources of Secondary Research
Figure 1.5 Data Triangulation
Figure 1.6 Top Down & Bottom Up Approach
Figure 2.1 Global High Speed Camera Market Dynamics
Figure 3.1 Strategic Benchmarking of Key Developments
Figure 3.2 Pricing Analysis of Different Battery Technologies
Figure 4.1 Advance Energy Storage Market, by Type, 2015 and 2022
Figure 4.2 Global Lithium-ion Battery, by Geography 2016-2022
Figure 4.3 Global Flow Battery Market, by Geography 2016-2022
Figure 4.4 Molten Salt Battery
Figure 4.5 Metal Air Battery Market, by Geography
Figure 4.6 Global Fuel Cell Market by Geography
Figure 5.1 Global Advance Energy Storage Market Growth Rate by Geography
Figure 5.2 North America Advance Energy Storage Market
Figure 5.3 Europe Advance Energy Storage Market, 2016-2022
Figure 5.4 APAC Advance Energy Storage Market, 2016-2022
Figure 5.5 APAC Advance Energy Storage Market, 2016-2022
Figure 6.1 Global Advance Energy Storage Market, by Application 2015-2022
Figure 7.2 Panasonic Corporation: Overall Financials 2014-2016
Figure 7.3 Panasonic Corporation: Geographic Revenue Mix, 2014-2016
Figure 7.4 Panasonic Corporation: Business Segment Revenue Mix 2014-2016
Figure 7.5 LG Chem Corporation: Overall Financials 2013-2015
Figure 7.6 LG Chem Corporation: Geographic Revenue Mix, 2013-2015
Figure 7.7 LG Chem Corporation: Business Segment Revenue Mix 2013-2015
Figure 7.8 Overall Financials: Mitsubishi Heavy Industries 2013-2015
Figure 7.9 Mitsubishi Heavy Industries: Geographic Revenue Mix, 2013-2015
Figure 7.10 Mitsubishi Heavy Industries: Business Segment Revenue Mix, 2013-2015
Figure 7.11 Overall Financial: Samsung SDI 2013-2015
Figure 7.12 Samsung SDI: Geographic Revenue Mix, 2013-2015
Figure 7.13 Samsung SDI: Business Segment Revenue Mix, 2013-2015
Figure 7.14 Overall Financial: GS Yuasa 2014-2016
Figure 7.15 GS Yuasa: Geographic Revenue Mix, 2013-2015
Figure 7.16 GS Yuasa: Business Segment Revenue Mix, 2013-2015
Figure 7.17 Overall Financial: Tianeng Power International Limited 2013-2015
Figure 7.18 Tianeng Power International Limited: Business Segment Revenue Mix, 2013-2015
Figure 7.19 Overall Financial: Posco Energy 2014-2015
Figure 7.20 Overall Financial: Redflow Energy Storage 2013-2015
Figure 7.21 Overall Financial: General Electric Company 2013-2015
Figure 7.22 GE Renewable Energy: Business Segment Revenue Mix, 2013-2015
Figure 7.23 GE: Geographic Revenue
Figure 7.24 Overall Financial: Johnson Controls 2013-2015
Figure 7.25 Johnson Controls: Geographic Revenue
Figure 7.26 Johnson Controls: Business Segment Revenue Mix, 2013-2015
Figure 7.27 Overall Financials: Ballard Power Systems Inc. 2013-2015
Figure 7.28 Geographic Revenue Mix 2013-2014
Figure 7.29 Geographic Revenue Mix 2015
Figure 7.30 Business Segment Revenue Mix 2015
Figure 7.31 Overall Financial, 2013-2015
Figure 7.32 Geographic Revenue Mix, 2013-2015
Figure 7.33 Segment Revenue Mix, 2013-2015
Figure 7.34 Overall Financials: Saft Batteries 2013-2015
Figure 7.35 Saft Batteries: Geographic Revenue 2013-2015
Figure 7.36 Saft Batteries: Business Segment Revenue Mix, 2013-2015
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

| Product Name: | Global Advance Energy Storage and Fuel Cell Market, Analysis and Forecast 2016-2022; Focus on Li Ion, Flow, Molten Salt (Liquid Metal), Metal Air and Ultrabatteries |
| Web Address: | http://www.researchandmarkets.com/reports/4041045/ |
| Office Code: | SC2GWXX9 |

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 4199</td>
</tr>
<tr>
<td>Hard Copy:</td>
<td>USD 4499 + USD 56 Shipping/Handling</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License:</td>
<td>USD 5850</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>USD 7500</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.
* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr</th>
<th>Mrs</th>
<th>Dr</th>
<th>Miss</th>
<th>Ms</th>
<th>Prof</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: __________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:

(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World