

# Market Analysis and Technology Issue of Global Energy Storage System used Li-ion Battery (2020)

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## Abstracts

Lithium Secondary Batteries, will they dominate the ESS market?

In 2012, LIBs used in ESSs totaled 243MWh, forming a \$414 million market in 2012. Of the total LIB consumption, 62MWh was used in ESSs for general customers. 2012 was the first year when the subsidy program for residential and industrial ESSs began.

Currently, the LIB market for ESS applications can be divided into a subsidy-oriented consumer market, and the power grid market concentrating on demonstration projects. Beside the U.S., Japan, Europe, and China are also actively engaged in ESS demonstration projects using LIBs for large-scale power grids. For instance, demonstration projects led by U.S. DOE mostly employ LIB ESSs. In China, LIB manufacturers are playing a leading role in large-scale ESSs. In Korea, ESS products have been carried out in the Smart-grid Demonstration Complex, located at Jeju Island, Korea. Germany started an ESS program to promote deployment of residential ESSs this year.

The energy storage industry is rapidly growing in the world. From a technological aspect, LIBs, which have the largest number of applications, are under consideration. This report provides an overview of technological issues and current status and future development trends of each country and company as well as ESS market analysis and forecasts.

This report is intended to provide an insight to related companies and developers the market analysis and forecast as well as technological backgrounds for LIB ESSs, which are still under technology development stage.

### **Strong Points of this report**

LIB ESS market forecast by application

Intensive analysis of the LIB ESS market

Technological issues and solutions for ESSs

## Contents

### 1 OVERVIEW

- 1.1 Current Energy Status and Feasibility of Renewable Energy
- 1.2 Future Grid and ESS

### 2 VARIOUS ENERGY STORAGE TECHNOLOGIES

- 2.1 ESS Technologies
  - 2.1.1 Pumped Hydroelectric Storage
  - 2.1.2 Compressed Air Energy Storage, CAES
  - 2.1.3 Flywheel
  - 2.1.4 Superconducting Magnetic Energy Storage
  - 2.1.5 Electrochemical capacitor)
  - 2.1.6 Lead-Acid Battery
  - 2.1.7 Ni-based Battery
  - 2.1.8 Sodium Sulfur Battery, NaS
  - 2.1.9 Redox Flow Battery (RFB)
  - 2.1.10 Lithium Ion Battery (LIB)
- 2.2 ESS Battery Applications
  - 2.2.1 UPS System (Uninterruptible Power Supply System)
  - 2.2.2 Smart home system
  - 2.2.3 Ancillary service system
  - 2.2.4 Smart grid
  - 2.2.5 Renewable energy
    - 2.2.5.1 Photovoltaic system
    - 2.2.5.2 Wind power system
- 2.3 Performance issue of large LIBs for energy storage
  - 2.3.1 Energy Density
  - 2.3.2 Price
  - 2.3.3 Input/output
  - 2.3.4 Safety
  - 2.3.5 Service life

### 3 KEY ESS BATTERY MATERIAL ANALYSIS

- 3.1 Cathode
  - 3.1.1 Operating mechanisms and requirements

- 3.1.2 Layered cathode material
  - 3.1.2.1 LCO/NCA
  - 3.1.2.2 NCM ternary
- 3.1.3 Spinel cathode material
- 3.1.4 Olivine-based cathode material
- 3.2 Anode
  - 3.2.1 Graphite
  - 3.2.2 Amorphous carbon
  - 3.2.3 Metal anode
  - 3.2.4 Lithium Titanate:  $\text{Li}_4\text{Ti}_5\text{O}_{12}$
  - 3.2.5 Oxide-based high-potential anode
    - 3.2.5.1  $\text{Nb}_2\text{O}_5$
    - 3.2.5.2 Tungsten oxide ( $\text{WO}_2$ )
- 3.3 Electrolyte
  - 3.3.1 Overview
  - 3.3.2 Electrolyte components
    - 3.3.2.1 Organic solvent
    - 3.3.2.2 Lithium salt
    - 3.3.2.3 Additive
- 3.4 Separator
  - 3.4.1 Function of separator
  - 3.4.2 Basic properties of separator
  - 3.4.3 Trend in separator material development
  - 3.4.4 Separator manufacturing process
  - 3.4.5 Technology trend
  - 3.4.6 Technology trend by company
- 3.5 Future new-concept ESS battery
  - 3.5.1 Metal-air battery
    - 3.5.1.1 Zinc-Air Battery
    - 3.5.1.2 Aluminum-Air Battery
    - 3.5.1.3 Magnesium-Air Battery
    - 3.5.1.4 Lithium-Air Battery
  - 3.5.2 Na-ion battery (NIB)
  - 3.5.3 Magnesium Secondary Batteries

## **4 ESS BATTERY SYSTEM TECHNOLOGY ANALYSIS**

- 4.1 Battery pack design
  - 4.1. ESS battery pack structure

- 4.1.2 Engineering considerations for battery pack design
- 4.1.3 Battery pack manufacturing technology
- 4.1.4 Battery pack evaluation technology
- 4.2 BMS technology
  - 4.2.1 Technology trend
    - 4.2.1.1 Technology trend and level Overseas
    - 4.2.1.2 Technology trend and level Korea
  - 4.2.2 Design technology
- 4.3 Operation technology
  - 4.3.1 SOC and SOH prediction technology
  - 4.3.2 Cell Balancing technology
- 4.4 PCS technology
  - 4.4.1 PCS overview
  - 4.4.2 PCS operation technology
    - 4.4.2.1 Stabilization of renewable energy output
    - 4.4.2.2 Load Leveling
    - 4.4.2.3 Self-driving mode
    - 4.4.2.4 stand-alone operation

## **5 LIBS FOR ESS APPLICATIONS: MANUFACTURER ANALYSIS**

- 5.1 Korea
  - 5.1.1 Samsung SDI
  - 5.1.2 LG Chemical
  - 5.1.3 SK Innovation
  - 5.1.4 Kokam
- 5.2 Japan
  - 5.2.1 Panasonic (Sanyo)
  - 5.2.2 Sony
  - 5.2.3 GS YUASA
  - 5.2.4 Toshiba
  - 5.2.5 Mitsubishi Heavy Industries
  - 5.2.6 Shin-Kobe Electric Machinery
  - 5.2.7 Hitachi/Hitachi Maxwell and Hitachi Vehicle Energy
  - 5.2.8 NEC Energy Device
- 5.3 USA
  - 5.3.1 Altair Nanotechnologies
  - 5.3.2 A123 system
  - 5.3.3 AES

- 5.3.4 Dow Kokam
- 5.3.5 Ener
- 5.3.6 SEEO
- 5.4 China
  - 5.4.1 BYD
  - 5.4.2 ATL
  - 5.4.3 China BAK Battery
  - 5.4.4 Lishen
  - 5.4.5 Calib
  - 5.4.6 Advanced Battery Technologies (ABAT)
- 5.5 EU
  - 5.5.1 Saft
  - 5.5.2 Litec
  - 5.5.3 Electrovaya

## **6 ESS R&D TREND BY COUNTRY**

- 6.1 Korea
- 6.2 Japan
- 6.3 USA
- 6.4 EU
- 6.5 China

## **7 ESS PROGRAM BY COUNTRY**

- 7.1 Korea
- 7.2 Japan
- 7.3 USA
  - 7.3.1 Subsidy programs in USA
  - 7.3.2 U.S. Federal policies and support schemes
  - 7.3.3 California's ESS policy and support schemes
- 7.4 Europe

## **8 LIB ESS MARKET FORECAST**

- 8.1. Lithium ion Battery ESS installation analysis (based on USA)
- 8.2 ESS Market Status (USA)
- 8.3 ESS installation case analysis
- 8.4 ESS Market Segmentation

## 8.5 Lithium ion battery Market Factor Analysis

8.5.1. Lithium ion Battery Technology Position

8.5.2. LIB ESS Cost

8.5.3. Lithium ion Battery demonstration and application cases

8.5.4. Lithium ion Battery SWOT Analysis

8.5.5 ESS market analysis in Japan

## 8.6 LIB ESS Market Forecast

### Appendix

1) ESS PRODUCTS AVAILABLE IN JAPAN

2) ESS PRODUCT AVAILABLE IN GERMANY

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