

Large and Advanced Battery Technology and Markets

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Abstracts

REPORT SCOPE:

This report begins with a discussion of general battery technology. The following categories of large and advanced batteries are discussed -

First-generation large and advanced battery systems.

Lead-acid batteries.

Nickel-cadmium batteries.

Next-generation large and advanced battery systems.

Nickel metal hydride batteries.

Lithium-ion batteries.

Lithium-polymer batteries.

Specialty large and advanced battery systems.

Silver-zinc secondary batteries.

Silver-cadmium secondary batteries.

Nickel-hydrogen secondary batteries.

Nickel-zinc batteries.

Metal-air batteries.

Emerging large and advanced battery systems.

Sodium-sulfur batteries.

High-temperature lithium batteries.

Redox and flow batteries.

Nickel-iron batteries.

Calcium-metal sulfide batteries.

Sodium-metal chloride batteries.

Lithium-sulfur batteries.

Next, the following markets are considered in this report -

Motive power: passenger vehicles, other ground and marine transport, and aviation.

Portable product power: personal electronics, hand tools and lawn care products, portable military/aerospace devices.

Stationary power: uninterruptible power supplies, emergency lighting, battery electricity storage

Emerging military and aerospace applications.

This report aims to define these market sectors, and will identify leading companies and analyze the markets (including a five-year market forecast). Finally, large-and advanced-

battery companies are outlined in the Company Profiles chapter.

REPORT INCLUDES:

52 data tables and 21 additional tables

An overview of the market for large and advanced battery technology, with discussion of first-generation, next-generation, specialty, and developmental systems

Analyses of the global market trends, with data from 2018, 2019 with projection of CAGR during 2024

Highlights of current and future market potential and a detailed analysis of the competitive environment, regulatory scenario, and drivers, challenges, and trends affecting market growth

Definitions of various systems, such as first-generation (lead-acid, nickel-cadmium), next-generation (nickel-metal hydride, lithium-ion, lithium-polymer), specialty (silver-zinc secondary, silver-cadmium, nickel-hydrogen, nickel-zinc, metal-air), and developmental (sodium-sulfur, high-temperature lithium, redox and flow, nickel-iron, calcium-metal sulfide, sodium-metal chloride, lithium-sulfur)

Evaluation of current market size, market forecast, and market share analysis of the leading suppliers of the industry

Comprehensive profiles of major players in the industry, including A123 Systems, Ambri, East Penn Manufacturing Co., General Motors, K2 Energy and Toshiba Corp.

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
BCC Custom Research
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Batteries
General Description
Large and Advanced Batteries
General Battery Characteristics
Voltage
Capacity
Shelf Life
Drain
Safety
Types of Large and Advanced Batteries
Lead-Acid Batteries
Nickel-Cadmium Batteries
Nickel Metal Hydride Batteries
Lithium-Ion and Lithium-Polymer Batteries
Specialty and Emerging Large and Advanced Batteries
Competing Energy Storage Systems
Capacitive Energy Storage
Nuclear Batteries
Superconducting Energy Storage
Compressed-Air Energy Storage
Fuel Cells

CHAPTER 4 MARKET BREAKDOWN BY APPLICATION

Motive Power Applications
Passenger Vehicles
Other Ground and Marine Transport
Aviation
Portable Devices
Personal Electronics
Portable Tool Batteries
Military Portable Applications
Stationary Applications
Uninterruptible Power Supply Batteries
Emergency Lighting Batteries
Battery Energy Storage Systems
Emerging Military Applications
Background
Market Summary
Large and Advanced Battery Market Summary

CHAPTER 5 LONG-TERM MARKET OUTLOOK

Trends in Existing Markets and Applications
New Opportunities
New Materials
New Fabrication Technologies

CHAPTER 6 COMPANY PROFILES

A123 SYSTEMS
AC DELCO
ADVANCED BATTERY CONCEPTS
ALL POWER BATTERY
AMBRI
AMPRIUS
ANZODE
APOLLO ENERGY SYSTEMS
AROTECH CORP.
BATTERY BUILDERS INC.

BATTERY SYSTEMS INC.
BELL CITY BATTERIES
BOLLORE GROUP
BYD CO. LTD.
CHINA BAK BATTERY INC.
CROWN BATTERY MANUFACTURING CO.
CSB BATTERY
DELTRAN BATTERY TENDER
DENCHI POWER LTD.
DOUGLAS BATTERY MANUFACTURING CO.
DYNO BATTERY INC.
EAST PENN MANUFACTURING CO.
ELECTROVAYA
ENERDEL
EVEREXCEED INDUSTRIAL CO. LTD.
EXIDE TECHNOLOGIES
FARASIS ENERGY
FIAMM ENERGY TECHNOLOGY, S.P.A
FLUX POWER
FURUKAWA BATTERY CO.
GAIA-AKKU
GENERAL MOTORS
GOLDEN ENERGY FUEL CELL CO. LTD.
GP BATTERIES INTERNATIONAL LTD.
HIGHPOWER INTERNATIONAL
INDUSTRIAL BATTERY ENGINEERING
IQ POWER
JOHNSON CONTROLS
JOHNSON MATTHEY BATTERY SYSTEMS
K2 ENERGY
LG CHEMICAL
MAXELL HOLDINGS, LTD.
MICROVAST POWER SYSTEMS LTD.
MINING CORP. OF BOLIVIA (COMIBOL)
MINMAX ENERGY TECHNOLOGY CO. LTD.
MITSUBISHI CORP.
NAMIL BATTERY
NANTENERGY
NEC CORP.

NEXCELL BATTERY CO.
NGK INSULATORS LTD.
ODYNE SYSTEMS LLC.
PANASONIC
OVONIC BATTERY CO.
POLYPLUS BATTERY CO.
POWER JAPAN PLUS
PRIMEARTH EV ENERGY
QUALLION LLC
SAFT
SAKTI3
SAMSUNG SDI
SION POWER
SOLIDENERGY
SONY CORP.
SUPERIOR BATTERY MANUFACTURING
SWIFT INDUSTRIAL POWER
TESLA INC.
TIANJIN LISHEN BATTERY JOINT-STOCK CO. LTD.
TOSHIBA CORP.
TROJAN BATTERY CO.
UNIENERGY TECHNOLOGIES
U.S. BATTERY MANUFACTURING CO.
VALENCE TECHNOLOGY INC.
VIZN ENERGY SYSTEMS
XALT ENERGY LLC
YARDNEY (LITHION, ALUPOWER)
YUASA CORP.
ZAF ENERGY SYSTEMS
ZENTRIC INC.

CHAPTER 7 BATTERY R&D ORGANIZATIONS

List Of Tables

LIST OF TABLES

Summary Table: Global Market for Large and Advanced Batteries, by Application, Through 2024

Table 1: Large and Advanced Battery Systems

Table 2: Lead-Acid Battery Companies

Table 3: Global Market for Large and Advanced Lead-Acid Batteries, by Application, Through 2024

Table 4: Nickel-Cadmium Battery Companies

Table 5: Global Market for Large and Advanced Nickel-Cadmium Batteries, by Application, Through 2024

Table 6: Nickel Metal Hydride Battery Companies

Table 7: Global Market for Large and Advanced Nickel Metal Hydride Batteries, by Application, Through 2024

Table 8: Conductive Polymer Battery Energy Densities

Table 9: Lithium-Based Battery Companies

Table 10: Global Market Projections for Large and Advanced Lithium Battery, by Application, Through 2024

Table 11: Silver Battery Companies

Table 12: Benefits Comparison of Nickel Zinc High Discharge Battery vs. Other Battery Types

Table 13: Summary of Aluminum-Air Battery Developments

Table 14: Summary of Zinc-Air Battery Developments

Table 15: Summary of Lithium-Air Battery Developments

Table 16: Metal-Air Battery Companies

Table 17: Summary of Sodium-Sulfur Battery Developments

Table 18: Redox Flow Battery Companies

Table 19: Global Market for Specialty and Emerging Large and Advanced Batteries, by Application, Through 2024

Table 20: Comparison between Capacitive Energy Storage and Large Electrochemical Storage Batteries

Table 21: Comparison of Capacitor, Ultracapacitor and Battery Characteristics

Table 22: Major Fuel Cell Technologies

Table 23: Likely, Optimistic and Pessimistic Scenarios for Battery-Powered Electric Vehicles

Table 24: Global Market for Large and Advanced Batteries Used in Electric Passenger Vehicles, by Type of Battery, Through 2024

Table 25: Global Market Shares of Large and Advanced Batteries Used in Electric Passenger Vehicles, by Type of Battery, 2018-2024

Table 26: Global Market for Large and Advanced Batteries Used in Electric Passenger Vehicles, by Region, Through 2024

Table 27: Global Market Shares of Large and Advanced Batteries Used in Electric Passenger Vehicles, by Region, 2018-2024

Table 28: Other Types of Electric Ground and Marine Transport

Table 29: Global Market for Large and Advanced Batteries for Other Types of Ground and Marine Transport, by Type of Battery, Through 2024

Table 30: Global Market Shares of Large and Advanced Batteries for Other Types of Ground and Marine Transport, by Type of Battery, 2018-2024

Table 31: Global Market for Large and Advanced Batteries for Other Types of Ground and Marine Transport, by Region, Through 2024

Table 32: Global Market Shares of Large and Advanced Batteries for Other Types of Ground and Marine Transport, by Region, 2018-2024

Table 33: Global Market for Large and Advanced Aviation Batteries, by Type of Battery, Through 2024

Table 34: Global Market Shares of Large and Advanced Aviation Batteries, by Type of Battery, 2018-2024

Table 35: Global Market for Large and Advanced Aviation Batteries, by Region, Through 2024

Table 36: Global Market Shares of Large and Advanced Aviation Batteries, by Region, 2018-2024

Table 37: Global Market for Large and Advanced Portable Computer, Tablet, Smartphone, and Wearable Batteries, by Type of Battery, Through 2024

Table 38: Global Market Shares of Large and Advanced Portable Computer, Tablet, Smartphone, and Wearable Batteries, by Type of Battery, 2018-2024

Table 39: Global Market for Large and Advanced Portable Computer, Tablet, Smartphone, and Wearable Batteries, by Region, Through 2024

Table 40: Global Market Shares of Large and Advanced Portable Computer, Tablet, Smartphone, and Wearable Batteries, by Region, 2018-2024

Table 41: Global Market for Large and Advanced Hand Tool and Lawn Care Product Battery by Type of Battery, Through 2024

Table 42: Global Market Shares of Large and Advanced Hand Tool and Lawn Care Product Battery, by Type of Battery, 2018-2024

Table 43: Global Market for Large and Advanced Hand Tool and Lawn Care Product Battery, by Region, Through 2024

Table 44: Global Market Shares of Large and Advanced Hand Tool and Lawn Care Produce Battery, by Region, 2018-2024

Table 45: Global Market for Large and Advanced Portable Military Products, by Type of Battery, Through 2024

Table 46: Global Market Shares of Large and Advanced Portable Military Products, by Type of Battery, 2018-2024

Table 47: Global Market for Large and Advanced Portable Military Products, by Region, Through 2024

Table 48: Global Market Shares of Large and Advanced Portable Military Products, by Region, 2018-2024

Table 49: Global Market for UPS Batteries, by Type of Battery, Through 2024

Table 50: Global Market Shares of UPS Batteries, by Type of Battery, 2018-2024

Table 51: Global Market for UPS Batteries, by Region, Through 2024

Table 52: Global Market Shares of UPS Batteries, by Region, 2018-2024

Table 53: Global Market for Large and Advanced Emergency Lighting Battery, by Type of Battery, Through 2024

Table 54: Global Market Shares of Large and Advanced Emergency Lighting Battery, by Type of Battery, 2018-2024

Table 55: Global Market for Large and Advanced Emergency Lighting Battery, by Region, Through 2024

Table 56: Global Market Shares of Large and Advanced Emergency Lighting Battery, by Region, 2018-2024

Table 57: Technologies for Large-Scale Energy Storage

Table 58: Global Market for Large and Advanced Remote and Renewable Energy Storage Batteries, by Type of Battery, Through 2024

Table 59: Global Market Shares of Large and Advanced Remote and Renewable Energy Storage Batteries, by Type of Battery, 2018-2024

Table 60: Global Market for Large and Advanced Remote and Renewable Energy Storage Batteries, by Region, Through 2024

Table 61: Global Market Shares of Large and Advanced Remote and Renewable Energy Storage Batteries, by Region, 2018-2024

Table 62: Global Market for Large and Advanced Military Batteries Used in UGVs, by Type of Battery, Through 2024

Table 63: Global Market Shares of Large and Advanced Military Batteries Used in UGVs, by Type of Battery, 2018-2024

Table 64: Global Market for Large and Advanced Military Batteries, by Region, Through 2024

Table 65: Global Market Shares of Large and Advanced Military Batteries, by Region, 2018-2024

Table 66: Global Market for Large and Advanced Batteries, by Type of Battery, Through 2024

Table 67: Global Market Shares of Large and Advanced Batteries, by Type of Battery, 2018-2024

Table 68: Global Market for Large and Advanced Batteries, by Application, Through 2024

Table 69: Global Market Shares of Large and Advanced Batteries, by Application, 2018-2024

Table 70: Global Market for Large and Advanced Batteries, by Region, Through 2024

Table 71: Global Market Shares of Large and Advanced Batteries, by Region, 2018-2024

Table 72: Long-Range Trends in Existing Markets for Large and Advanced Batteries

List Of Figures

LIST OF FIGURES

Summary Figure: Global Market for Large and Advanced Batteries, by Type of Battery, 2018-2024

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