

Opportunities for Eco-friendly Sustainable Batteries

<https://marketpublishers.com/r/OD41EB8E1585EN.html>

Date: October 2019

Pages: 116

Price: US\$ 2,750.00 (Single User License)

ID: OD41EB8E1585EN

Abstracts

REPORT SCOPE:

This report reviews both the global and regional markets of ecofriendly, sustainable batteries across different end use industries. The report analyzes the current market status and trends and provides growth forecasts for the five-year period 2019 to 2024. BCC Research analyzes various battery chemistries, identifies major players and explores global regulatory scenarios and commercialization initiatives. Additionally, the report examines technology developers and manufacturers of advanced sustainable batteries, their products and technologies and the geographical product presence wherever data is available.

The global eco-friendly sustainable battery market is analyzed based on the following application industries -

Utility.

Electric vehicles.

Consumer electronics.

Further, the global eco-friendly sustainable battery market has been studied based on the following major markets -

North America (N.A.).

The United States (U.S).

European Union (EU).

Germany.

United Kingdom (U.K.).

Asia-Pacific (APAC).

China.

India.

Japan.

Australia.

Rest of the World (ROW).

United Arab Emirates (U.A.E.).

The report offers a detailed patent analysis with information on the strategic initiatives of market players within the past five years.

Estimated values used are based on manufacturers' total revenues. Projected and forecast revenue values are in U.S. dollars, unadjusted for inflation.

BCC Research found all lead acid batteries to be environmentally unsafe, thus they are not considered in market sizing. Traditional lithium ion batteries are also not considered eco-friendly sustainable batteries.

The report only accounts for secondary or rechargeable batteries. The report does not consider the heavy-duty electric vehicle battery market in determining the market size.

REPORT INCLUDES:

42 tables

A brief overview of the global market for eco-friendly sustainable batteries

Analyses of global market trends with data from 2018, estimates for 2019, and projections of compound annual growth rates (CAGRs) through 2024

Characterization and quantification of market potential for eco-friendly sustainable batteries by battery types, components, technology types, applications and geographical regions

Discussion of opportunities and challenges with respect to eco-friendly sustainable batteries, components and end-user industries

Information on government regulations, environmental concerns, current trends and technological updates that can shape future marketplace in this ever-expanding market

Patent analysis covering all major categories

Comprehensive company profiles of major market players, including A123 Systems LLC, Itochu Corp., LG Chem, Mitsubishi Corp. (MC) and Panasonic Corp.

Contents

CHAPTER 1 INTRODUCTION

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

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Importance of Batteries in Promoting Sustainability
An Efficient Way to Battle Greenhouse Gases (GHGs)
Negative Environmental Impact of Traditional Batteries
An Efficient Method to Store Excess Renewable Generation
Grid Balancing for Intermittent Renewables
Industry Structure
Major Application Areas
Utilities
Electric Vehicles
Battery Material Supply Chain Issues
Anode Materials
Cathode
Market Drivers
Increased Focus on Renewables
Utilities Speed Up Closure of Coal/Gas-Fired Power Plants
Support from Government
Support and Investment from Private Sectors
Advances in Auxiliary Technologies Strengthening the Innovation Ecosystem
Expanding Niche Application Market
Market Challenges
Scalability
High Cost

Threat of Substitution
Lack of Technical Know-how on Recyclability
Industry Trends
Recycling as a Boon for Sustainability
Cost Reduction is Another Name for Sustainability

CHAPTER 4 MARKET BREAKDOWN BY TECHNOLOGY TYPE

Wet-Cell Batteries
Lead-acid Batteries
Advanced Lead Carbon (ACL) Battery
Lithium Ion Batteries (LiBs)
Flow Batteries
Nickel-based Batteries
Solid-State Batteries
Lithium Polymer (Li-poly) Battery

CHAPTER 5 MARKET BREAKDOWN BY APPLICATION

Utility Grade Batteries
Consumer Electronics
Electric Vehicles (EVs)

CHAPTER 6 MARKET BREAKDOWN BY REGION

Overview
Market Opportunity by Major Region
North America (NA)
APAC
European Union (EU)
Others

CHAPTER 7 PATENT REVIEW/NEW DEVELOPMENTS

Patent Review by Year
Patent Review by Country
Patent Review by Technology Type

CHAPTER 8 COMPANY PROFILES

Opportunities for Eco-friendly Sustainable Batteries

24M TECHNOLOGIES INC.
A123 SYSTEM LLC
AMBRI INC.
AMERICAN MANGANESE INC.
BENAN ENERGY TECHNOLOGY (SHANGHAI) CO. LTD.
BLUE SOLUTIONS CANADA INC.
BYD CO. LTD.
CELL-CON INC.
COMTEMPORARY AMPEREX TECHNOLOGY LTD. (CATL)
CYMBET CORP.
ENVISION AUTOMOTIVE ENERGY SUPPLY CORP. (AESC)
FARADION LTD.
FLUENCE ENERGY LLC
INFLUIT ENERGY LLC
IONIC MATERIALS INC.
ITOCHU CORP.
LG CHEM
MITSUBISHI CORP. (MC)
NANTENERGY INC.
NEC ENERGY SOLUTIONS (NEC ES)
NGK INSULATORS LTD.
OXIS ENERGY LTD.
PANASONIC CORP.
PRIMUS POWER
RETRIEV TECHNOLOGIES
SAFT GROUPE SA
SAMSUNG SDI CO. LTD.
SILA NANO TECHNOLOGIES INC.
SK INNOVATION CO. LTD.
SOLIDPOWER
SUMITOMO METAL MINING CO. LTD.
TESLA
TOSHIBA INTERNATIONAL CORP.
UMICORE GROUP
VRB ENERGY
ZAF ENERGY SYSTEMS INC.

CHAPTER 9 APPENDIX: LIST OF ACRONYMS/ABBREVIATIONS

List Of Tables

LIST OF TABLES

Summary Table: Global Market for Eco-friendly Batteries, by Application, Through 2024

Table 1: Global Annual CO2 Emission, by Region, Through 2019

Table 2: Sustainable Battery Manufacturers, 2019

Table 3: Advanced LiB Cathode Active Materials Average Price, 2017 and 2018

Table 4: Global Renewable Energy Generation, by Region, Through 2018

Table 5: CO2 Emission per Million Btu of Energy Produced for Various Fuels

Table 6: Global Electricity Generation from Renewables, by Region, Through 2018

Table 7: Manufacturing Costs of Different Advanced LiB Battery Pack, 2019

Table 8: Average Pricing Index for Battery Raw Materials, by Type, Through 2019

Table 9: Global Market for Eco-friendly Sustainable Batteries, by Technology Type, Through 2024

Table 10: Some Significant Wet-Cell Battery Technologies

Table 11: Some Significant Solid-State battery Technologies

Table 12: Global Market for Eco-friendly Sustainable Batteries, by Sub-Technology Category, Through 2024

Table 13: Global Market for Eco-friendly Sustainable Battery Storage Technologies in Utility Applications, by Battery Type, Through 2024

Table 14: Global Market for Eco-friendly Sustainable Battery Storage Technologies in Utility Applications, by Battery Technology Sub-type, Through 2024

Table 15: Global Market for Eco-friendly Sustainable Batteries in Utility Applications, by End User, Through 2024

Table 16: Global Market for Eco-friendly Sustainable Batteries in Utility Applications, by Region, Through 2024

Table 17: Global Market for Eco-friendly Sustainable Batteries for Consumer Electronics, by Technology Type, Through 2024

Table 18: Global Market for Eco-friendly Sustainability Batteries for Consumer Electronics, by Region, Through 2024

Table 19: Global Market for Eco-friendly Sustainable Batteries for Electric Vehicles, by Battery Type, Through 2024

Table 20: Global Market for Eco-friendly Sustainable Batteries for Electric Vehicles, by Battery Type, Through 2024

Table 21: Battery Performance Comparison of EVs

Table 22: Global Market for Eco-friendly Sustainability Batteries for EVs, by Region, Through 2024

Table 23: Annual CO2 Emission in North America, by Country, Through 2018

Table 24: North American Market for Eco-friendly Sustainability Batteries, by Application, Through 2024
Table 25: Annual CO2 Emission in APAC, by Country, Through 2018
Table 26: APAC Market for Eco-friendly Sustainability Batteries, by Application, Through 2024
Table 27: Annual CO2 Emission in the EU, by Country, Through 2018
Table 28: EU Market for Eco-friendly Sustainability Batteries, by Application, Through 2024
Table 29: Patent Review of Sustainable Battery Technologies 2014-2018
Table 30: BYD Co. Ltd.: Company Financials, Through 2018
Table 31: CATL: Company Financials, Through 2018
Table 32: Itochu Corp.: Company Financials, Through 2018
Table 33: LG Chem: Company Financials, Through 2018
Table 34: NGK Insulators Ltd.: Company Financials, Through 2018
Table 35: Panasonic Corp.: Company Financials, Through 2018
Table 36: Samsung SDI Co. Ltd.: Company Financials, Through 2018
Table 37: SK Innovation Co. Ltd.: Company Financials, Through 2018
Table 38: Sumitomo Metal Mining Co. Ltd.: Company Financials, Through 2018
Table 39: Umicore Group: Company Financials, Through 2018
Table 40: Acronyms/Abbreviations Used in This Report
Table 41: Glossary of Terms Used in This Report

List Of Figures

LIST OF FIGURES

Summary Figure: Global Market for Eco-friendly Batteries, by Application, 2018-2024

Figure 1: Average Emission from Different Vehicle Technologies

Figure 2: Global Cobalt Demand, 2018 and 2024

Figure 3: Global Demand Share of Cobalt, by End-Use Application, 2018

Figure 4: Global Demand Share of Cobalt, by End-Use Application, 2024

Figure 5: Global Cobalt Price Annual Average, 2016-2019

Figure 6: Global Market Shares of Eco-friendly Sustainable Batteries, by Sub-Technology Category, 2019

Figure 7: Global Market Shares of Eco-friendly Sustainable Batteries, by Sub-Technology Category, 2024

Figure 8: Global Market Shares of Utility-Grade Batteries, by Major Technology, 2019

Figure 9: Global Market Shares of Utility-grade Operational Batteries, by Technology Sub-type, 2019

Figure 10: Global Market Shares of Eco-friendly Sustainable Batteries for Electric Vehicles, by Battery Type, 2019

Figure 11: Global Market Shares of Eco-friendly Sustainable Batteries for Electric Vehicles, by Battery Type, 2024

Figure 12: Global Market for Sustainable Batteries for Electric Vehicles, by Technology Sub-type, 2019-2024

Figure 13: Global Market Shares of Utility-grade Operational Battery Storage Capacity, by Region, 2019

Figure 14: North American Market for Eco-friendly Sustainability Batteries, by Application, 2018-2024

Figure 15: North American Market Shares of Utility-grade Operational Battery Storage Capacity, by Major Technologies, 2019

Figure 16: North American Market Shares of Utility-grade Operational Battery Storage Capacity, by Sub-Technologies, 2019

Figure 17: APAC Market for Eco-friendly Sustainability Batteries, by Application, 2018-2024

Figure 18: APAC Market Shares of Utility-grade Operational Battery Storage Capacity, by Country, 2019

Figure 19: APAC Market Shares of Utility-grade Operational Battery Storage Capacity, by Technology, 2019

Figure 20: APAC Market Shares of Utility-grade Operational Battery Storage Capacity, by Sub-technology, 2019

Figure 21: EU Market for Eco-friendly Sustainability Batteries, by Application, 2018-2024

Figure 22: EU Market Shares of Utility-grade Operational Battery Storage Capacity, by Country, 2019

Figure 23: EU Market Shares of Utility-grade Operational Battery Storage Capacity, by Major Technology, 2019

Figure 24: EU Market Shares of Utility-grade Operational Battery Storage Capacity, by Sub-Technology, 2019

Figure 25: Number of Patents Granted for Sustainable Battery Technologies, 2014-2018

Figure 26: Number of Published Battery Patents That Focus on Recycling, 2014-2018

Figure 27: Shares of Published Battery Patents That Focus on Recycling, by Country, 2014-2018

Figure 28: Shares of Published Battery Patents That Focus on Recycling, by Technology Type, 2014-2018

I would like to order

Product name: Opportunities for Eco-friendly Sustainable Batteries

Product link: <https://marketpublishers.com/r/OD41EB8E1585EN.html>

Price: US\$ 2,750.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/OD41EB8E1585EN.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