

# Global Lithium-Ion Battery Energy Storage Market

<https://marketpublishers.com/r/GC36F0B02C0BEN.html>

Date: December 2024

Pages: 138

Price: US\$ 3,475.00 (Single User License)

ID: GC36F0B02C0BEN

## Abstracts

Global Lithium-Ion Battery Energy Storage Market By System Scale (Small-Scale (Up to 100 kWh), Medium-Scale (100 kWh to 1 MWh), Large-Scale (Over 1 MWh)), By Technology (Lithium Iron Phosphate (LFP), Lithium Nickel Manganese Cobalt (NMC), Lithium Nickel Cobalt Aluminum Oxide (NCA)) By Usage (Grid Support, Backup Power, Off-Grid Power, Peak Shaving), By Application (Residential, Commercial & Industrial, Utility, Transportation) And By Geography – Covid-19 Impact Analysis, Post Covid Analysis, Opportunities, Trends And Forecast From 2020 to 2032

The Global Lithium-Ion Battery Energy Storage Market was valued at \$33.84 Billion in 2023 and is anticipated to grow at a CAGR of 21.42% from 2024 to 2034. This growth is attributed to several macro and microeconomic factors such as

Growing Demand for Electric Vehicles (EVs)

The growing demand for electric vehicles (EVs) is a significant driver for the global lithium-ion battery energy storage market. As the world transitions towards sustainable and eco-friendly transportation solutions, EVs are gaining popularity due to their zero-emission benefits and lower operating costs. Lithium-ion batteries are the preferred choice for powering EVs due to their high energy density, long cycle life, and rapid charging capabilities. The increasing demand for EVs is directly driving the need for high-performance lithium-ion batteries, propelling the growth of the energy storage market.

Further several factors restraining the market growth include

Limited Availability and Rising Costs of Raw Materials

One of the significant challenges facing the global lithium-ion battery energy storage market is the limited availability and rising costs of critical raw materials. Lithium, cobalt, nickel, and other key components are essential for producing high-performance lithium-ion batteries. However, the supply of these materials is concentrated in a few regions, making them vulnerable to geopolitical risks, supply chain disruptions, and price volatility. Additionally, the increasing demand for these materials from various industries, including electronics and renewable energy, is driving up prices. This can lead to increased production costs for lithium-ion batteries, potentially hindering market growth and affordability.

Advancements in battery technology and collaborations and alliances in the Lithium-Ion Battery Energy Storage market are expected to generate higher avenues during the forecast period.

In the wake of the COVID-19 pandemic, supply chain disruptions have led to supply shortages or lower demand in the Lithium-Ion Battery Energy Storage market. The pandemic has caused a decline in new orders and a corresponding decrease in System Scaleion.

This section will analyze how COVID-19 has impacted supply chains, leading to shortages and lower demand for Lithium-Ion Battery Energy Storage.

In terms of COVID-19 impact, the Lithium-Ion Battery Energy Storage market report also includes the following data points:

Impact on Lithium-Ion Battery Energy Storage market size

Operating Weights Trend, Preferences, and Budget Impact

Regulatory Framework/Outdoor Policies

Key Players' Strategy to Tackle Negative Impact/Post-COVID Strategies

Opportunity in the Lithium-Ion Battery Energy Storage market

Key Insight in the report:

The global Lithium-Ion Battery Energy Storage market report covers an executive

summary, market dynamics, COVID impact & post-COVID scenario, market size and forecast, competitive intelligence, market positioning, and Applications.

Our report covers extensive competitive intelligence which includes the following data points:

Business Overview

Business Segment Data

Financial Data

System Scale Segment Analysis and Specification

Recent Development and Company Strategy Analysis

SWOT Analysis

Lithium-Ion Battery Energy Storage Market Segmentation:

System Scale

Small-Scale (Up to 100 kWh)

Medium-Scale (100 kWh to 1 MWh)

Large-Scale (Over 1 MWh)

Technology

Lithium Iron Phosphate (LFP)

Lithium Nickel Manganese Cobalt (NMC)

Lithium Nickel Cobalt Aluminum Oxide (NCA)

Usage

Grid Support

Backup Power

Off-Grid Power

Peak Shaving

Application

Residential

Commercial & Industrial

Utility

Transportation

Region/ Countries Covered:

North America

US

Canada

Mexico

Europe

U.K.

Germany

France

Italy

Spain

BeNeLux

Russia

Rest of Europe

Asia Pacific

China

Japan

Australia

India

South Korea

Thailand

Indonesia

Philippines

Rest of Asia Pacific

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Egypt

South Africa

Rest of Middle East & Africa

Key Players Analyzed in the Report:

Contemporary Amperex Technology Co. Limited

Generac Power Systems Inc.

Tesla, Inc.

ABB Ltd

Siemens AG.

Panasonic Energy Co., Ltd.

SMA Solar Technology AG

Schneider Electric SE

Eaton Corporation plc

SAMSUNG SDI Co., Ltd.

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