

Grid-scale Batteries Market Research

FIVE-YEAR MARKET ANALYSIS AND TECHNOLOGY FORECAST THROUGH 2022

GRID-SCALE BATTERY STORAGE MARKET ON FIRE

The utility industry is in the midst of massive structural change and grid-scale battery storage is growing at an incredible rate as massive new battery factories emerge. Central generating plants are being shut down, and new generation is dominated by distributed renewable wind and solar and new, smaller natural gas generating plants.

As the penetration of renewable generation has increased, there is a mismatch between generation and load. In states like California and Hawaii, the solar generation is so strong during the day that fossil generation is nearly shut down. This requires fossil generators to ramp up from near zero to meet the evening peak load. Grid-scale battery systems have found several ways to provide value to a diverse range of stakeholders, while many new

suppliers are advancing the technology of storing electrical energy.

This report includes the latest trends in battery technology and explains why lithium batteries are dominating the market, but also describes which new battery chemistry technologies might eventually catch up to lithium. The report covers a wide range of suppliers and the deep connection to the many battery suppliers for electric vehicles.

The latest market drivers include utility deregulation, powering rural areas, improving grid reliability, ancillary services, and the impact of distributed energy generation. Learn about regional differences in the grid scale battery market.

For more information, please visit us at www.arcweb.com/market-studies/.

STRATEGIC ISSUES

This report provides strategies for both suppliers and buyers of grid-scale batteries. With a diverse array of end users, changing market regulations, changing government incentives, new power distributed generation technologies, new energy storage technologies, and new control and optimization technologies, there are a wide range of system architectures and value propositions.

The business models for grid scale batteries can be quite complex and early suppliers are building teams to secure a foothold in such a fast-growing new market.

Partnerships, acquisitions, new product developments, and fundamental advances in electrochemistry are driving a dynamic market landscape.

RESEARCH FORMAT

This research is available as an executive-level Market Analysis Report (PDF).

RESEARCH FOCUS AREAS

STRATEGIC ANALYSIS

- Major Trends
- Industry Trends
- Regional Trends
- Strategies for Success for Buyers and Product Suppliers

SCOPE

COMPETITIVE ANALYSIS

- Market Presence of Leading Battery Manufacturers
- Market Presence by kW/hr
- Market Presence by kW/hr for Grid Applications

Market Presence by Battery Type

- Lithium
- Vanadium-Redox
- Lead Acid
- Flywheel
- Other Flow Types
- Other Non-flow Types

MARKET FORECAST ANALYSIS

- Factors Contributing to Growth
- Factors Inhibiting Growth

Total Grid-scale Batteries Business

Shipments by Region

- North America
- Europe, Middle East, Africa
- Asia
- Latin America

Battery Storage Energy for Grid

Applications by Region

Battery Storage Power for Grid

Applications by Region

Shipments by Battery Type

- Lithium
- Vanadium-Redox
- Lead Acid
- Flywheel
- Other Flow Types
- Other Non-flow Types

INDUSTRY PARTICIPANTS

The research identifies and provides a brief profile on all relevant suppliers serving this market.

The Worldwide Grid-scale Battery Storage Market

