Long Duration Energy Storage Market SWOT Analysis by Leading Key Players: Form Energy, Fluence Energy, Primus Power

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Long Duration Energy Storage market

PUNE, MAHARASHTRA, INDIA, July 19, 2024 /EINPresswire.com/ -- According to HTF Market Intelligence, the Global Long Duration Energy Storage market to witness a CAGR of 42.5% during the forecast period (2024-2030). The Latest Released Long Duration Energy Storage Market Research assesses the future growth potential of the Long Duration Energy Storage market and provides information and useful statistics on market structure and size.

This report aims to provide market intelligence and strategic insights to help decision-makers make sound investment decisions and identify potential gaps and growth opportunities. Additionally, the report identifies and analyses the changing dynamics and emerging trends along with the key drivers, challenges, opportunities and constraints in the Long Duration Energy Storage market. The Long Duration Energy Storage market size is estimated to reach by USD 132.5 Billion at a CAGR of 42.5% by 2030. The report includes historic market data from 2019 to 2023. The Current market value is pegged at USD 23.46 Billion.

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>
> *Nidhi Bhawsar*

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The Major Players Covered in this Report: Fluence Energy (United States), Energy Vault (Switzerland), Form Energy (United States), ESS Inc. (United States), Highview Power (United Kingdom), Hydrostor (Canada), Primus Power (United States), Redflow Limited (Australia), Vionx Energy (United States), Lockheed Martin Energy (United States)

Definition:
Long Duration Energy Storage (LDES) refers to energy storage systems that can store energy for extended periods, typically ranging from several hours to days or even weeks. These systems are designed to provide sustained power output over long durations, making them crucial for balancing intermittent renewable energy sources like wind and solar, enhancing grid reliability, and enabling energy arbitrage.

Market Trends:
• Innovations in battery chemistry, such as flow batteries, solid-state batteries, and advanced lithium-ion batteries, are driving improvements in energy storage capacity and efficiency.
• As the share of renewable energy in the grid mix grows, the demand for long-duration storage solutions to manage intermittency and ensure a stable power supply is increasing.
• Governments and regulatory bodies are introducing policies and incentives to promote the adoption of LDES to meet climate goals and enhance grid resilience.

Market Drivers:
• Growing global energy consumption necessitates efficient and reliable energy storage solutions to meet peak demand and ensure supply security.
• The expansion of renewable energy installations increases the need for LDES to manage intermittency and provide a stable power supply.
• Advances in energy storage technologies improve efficiency, capacity, and lifespan, making LDES more viable and cost-effective.

Market Opportunities:
• LDES can provide grid services such as frequency regulation, peak shaving, and backup power, enhancing overall grid stability and reliability.
• Facilitates higher penetration of renewable energy sources by storing excess generation and supplying power during periods of low generation.
• Allows utilities and large consumers to store energy when prices are low and sell or use it when prices are high, creating economic benefits.

Market Challenges:
• The upfront capital expenditure for LDES systems can be substantial, posing a barrier to widespread adoption.
• Some LDES technologies are still in the early stages of development and may face technical

and scalability challenges.
• Inconsistent regulatory frameworks and policies across regions can hinder market growth and investment in LDES projects.

Market Restraints:
• The economic case for LDES can be challenging to justify without adequate incentives, subsidies, or revenue mechanisms.
• Short-duration energy storage solutions like lithium-ion batteries, which are currently more established and cost-competitive, can limit the market penetration of LDES.
• Dependence on specific raw materials and components can create supply chain bottlenecks and impact production and deployment.

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The titled segments and sub-sections of the market are illuminated below:
In-depth analysis of Long Duration Energy Storage market segments by Types: Pumped Hydroelectric Storage (PHS), Compressed Air Energy Storage (CAES), Redox Flow Batteries, Others
Detailed analysis of Long Duration Energy Storage market segments by Applications: Grid Balancing & Integration of Renewables, Transmission & Distribution System Support, Microgrids & Island Power Systems

Major Key Players of the Market: Fluence Energy (United States), Energy Vault (Switzerland), Form Energy (United States), ESS Inc. (United States), Highview Power (United Kingdom), Hydrostor (Canada), Primus Power (United States), Redflow Limited (Australia), Vionx Energy (United States), Lockheed Martin Energy (United States)

Geographically, the detailed analysis of consumption, revenue, market share, and growth rate of the following regions:
- The Middle East and Africa (South Africa, Saudi Arabia, UAE, Israel, Egypt, etc.)
- North America (United States, Mexico & Canada)
- South America (Brazil, Venezuela, Argentina, Ecuador, Peru, Colombia, etc.)
- Europe (Turkey, Spain, Turkey, Netherlands Denmark, Belgium, Switzerland, Germany, Russia UK, Italy, France, etc.)
- Asia-Pacific (Taiwan, Hong Kong, Singapore, Vietnam, China, Malaysia, Japan, Philippines, Korea, Thailand, India, Indonesia, and Australia).

Objectives of the Report:
- -To carefully analyse and forecast the size of the Long Duration Energy Storage market by value and volume.
- -To estimate the market shares of major segments of the Long Duration Energy Storage

market.
- -To showcase the development of the Long Duration Energy Storage market in different parts of the world.
- -To analyse and study micro-markets in terms of their contributions to the Long Duration Energy Storage market, their prospects, and individual growth trends.
- -To offer precise and useful details about factors affecting the growth of the Long Duration Energy Storage market.
- -To provide a meticulous assessment of crucial business strategies used by leading companies operating in the Long Duration Energy Storage market, which include research and development, collaborations, agreements, partnerships, acquisitions, mergers, new developments, and product launches.

Global Long Duration Energy Storage Market Breakdown by Application (Grid Balancing & Integration of Renewables, Transmission & Distribution System Support, Microgrids & Island Power Systems) by Type (Pumped Hydroelectric Storage (PHS), Compressed Air Energy Storage (CAES), Redox Flow Batteries, Others) and by Geography (North America, South America, Europe, Asia Pacific, MEA)

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Key takeaways from the Long Duration Energy Storage market report:
– Detailed consideration of Long Duration Energy Storage market-particular drivers, Trends, constraints, Restraints, Opportunities, and major micro markets.
– Comprehensive valuation of all prospects and threats in the
– In-depth study of industry strategies for growth of the Long Duration Energy Storage market-leading players.
– Long Duration Energy Storage market latest innovations and major procedures.
– Favourable dip inside Vigorous high-tech and market latest trends remarkable the Market.
– Conclusive study about the growth conspiracy of Long Duration Energy Storage market for forthcoming years.

Major questions answered:
- What are influencing factors driving the demand for Long Duration Energy Storage near future?
- What is the impact analysis of various factors in the Global Long Duration Energy Storage market growth?
- What are the recent trends in the regional market and how successful they are?
- How feasible is Long Duration Energy Storage market for long-term investment?

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Major highlights from Table of Contents:
Long Duration Energy Storage Market Study Coverage:
- It includes major manufacturers, emerging player's growth story, and major business segments of Long Duration Energy Storage Market - Global Trend and Growth Outlook to 2030 market, years considered, and research objectives. Additionally, segmentation on the basis of the type of product, application, and technology.
- Long Duration Energy Storage Market - Global Trend and Growth Outlook to 2030 Market Executive Summary: It gives a summary of overall studies, growth rate, available market, competitive landscape, market drivers, trends, and issues, and macroscopic indicators.
- Long Duration Energy Storage Market Production by Region Long Duration Energy Storage Market Profile of Manufacturers-players are studied on the basis of SWOT, their products, production, value, financials, and other vital factors.
Key Points Covered in Long Duration Energy Storage Market Report:
- Long Duration Energy Storage Overview, Definition and Classification Market drivers and barriers
- Long Duration Energy Storage Market Competition by Manufacturers
- Long Duration Energy Storage Capacity, Production, Revenue (Value) by Region (2024-2030)
- Long Duration Energy Storage Supply (Production), Consumption, Export, Import by Region (2024-2030)
- Long Duration Energy Storage Production, Revenue (Value), Price Trend by Type {Pumped Hydroelectric Storage (PHS), Compressed Air Energy Storage (CAES), Redox Flow Batteries, Others}
- Long Duration Energy Storage Market Analysis by Application {Grid Balancing & Integration of Renewables, Transmission & Distribution System Support, Microgrids & Island Power Systems}
- Long Duration Energy Storage Manufacturers Profiles/Analysis Long Duration Energy Storage Manufacturing Cost Analysis, Industrial/Supply Chain Analysis, Sourcing Strategy and Downstream Buyers, Marketing
- Strategy by Key Manufacturers/Players, Connected Distributors/Traders Standardization, Regulatory and collaborative initiatives, Industry road map and value chain Market Effect Factors Analysis.

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About Author:
HTF Market Intelligence Consulting is uniquely positioned to empower and inspire with research and consulting services to empower businesses with growth strategies, by offering services with extraordinary depth and breadth of thought leadership, research, tools, events, and experience that assist in decision-making.

Nidhi bhawsar
HTF Market Intelligence Consulting Pvt. Ltd.
+ 1 507-556-2445
info@htfmarketreport.com
