

Global Long Duration Thermal Energy Storage Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our latest research, the global Long Duration Thermal Energy Storage market size will reach USD 2019 million in 2031, growing at a CAGR of 6.6% over the analysis period.

Long Duration Thermal Energy Storage (LDTES) is a technology that stores energy in the form of heat or cold for extended periods—typically from several hours to days or even weeks—and then converts it back into electricity or useful heat when needed. This is achieved by heating or cooling a storage medium such as molten salts, rocks, sand, or phase change materials (PCMs) using excess renewable electricity or industrial waste heat. When demand rises or generation drops, the stored thermal energy is released directly as heat or converted back to electricity using turbines or heat engines. LDTES systems are particularly valuable for industrial decarbonization, district heating, and integrating renewables, offering low cost, long life, and the ability to bridge multi-day or seasonal energy gaps in a sustainable way.

This report is a detailed and comprehensive analysis for global Long Duration Thermal Energy Storage market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Long Duration Thermal Energy Storage market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Long Duration Thermal Energy Storage market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Long Duration Thermal Energy Storage market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Long Duration Thermal Energy Storage market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Long Duration Thermal Energy Storage
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Long Duration Thermal Energy Storage market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MAN Energy Solutions, Malta, Build to Zero, Kyoto Group, Hyme Energy, Pintail Power, Rpow, Acciona, Kraftblock, Magaldi, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Long Duration Thermal Energy Storage market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Salt Energy Storage

Others

Market segment by Application

Utilities

Industrial

Residential and Commercial

Transportation

Others

Market segment by players, this report covers

MAN Energy Solutions

Malta

Build to Zero

Kyoto Group

Hyme Energy

Pintail Power

Rpow

Acciona

Kraftblock

Magaldi

Brenmiller Energy

EnergyNest

Echogen Power

Dongfang Electric Corporation

Zhejiang Xizi Energy Conservation Service

Shouhang High-Tech Energy

Shanghai Electric Power Generation Group

Shandong SUNWAY Chemical Group

East China Engineering Science and Technology

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Long Duration Thermal Energy Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Long Duration Thermal Energy Storage, with revenue, gross margin, and global market share of Long Duration Thermal Energy Storage from 2020 to 2025.

Chapter 3, the Long Duration Thermal Energy Storage competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with

revenue and market share for key countries in the world, from 2020 to 2025. and Long Duration Thermal Energy Storage market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Long Duration Thermal Energy Storage.

Chapter 13, to describe Long Duration Thermal Energy Storage research findings and conclusion.

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