

Global Grid-forming Energy Storage Converter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Grid-forming Energy Storage Converter market size was valued at US\$ 1852 million in 2025 and is forecast to a readjusted size of US\$ 10362 million by 2032 with a CAGR of 27.8% during review period.

In 2025, global Grid-forming Energy Storage Converter production reached approximately 29,032 units, with an average global market price of around USD 62,000 per unit.

The gross profit margin of major companies in the industry is between 24.38%-43.76%.

In 2025, the global production capacity of Grid-forming Energy Storage Converter was approximately 38,200 units.

Grid-forming Energy Storage Converter is a power conversion device used in battery energy storage systems to actively establish voltage, frequency and grid reference in weak-grid, microgrid or renewable-heavy power systems. Unlike conventional grid-following converters, it can provide virtual inertia, fast frequency response, black start support, voltage regulation and grid stability functions. The product is mainly used in utility-scale energy storage, renewable power plants, microgrids, industrial energy systems and grid support projects. The market includes grid-forming PCS and converter units, but excludes battery cells, complete energy storage containers and ordinary grid-following inverters.

The industry chain includes power semiconductors, magnetic components, capacitors,

control boards, sensors, cooling systems, cabinets, protection devices, firmware and grid control algorithms. Midstream production covers power topology design, hardware assembly, control software development, thermal design, grid simulation testing, safety certification and system integration. Downstream demand comes from energy storage integrators, renewable power plants, utilities, microgrid developers, industrial parks and grid operators. Growth is driven by renewable penetration, weak-grid stability demand, energy storage deployment and rising requirements for grid-supporting power electronics.

This report is a detailed and comprehensive analysis for global Grid-forming Energy Storage Converter market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Grid-forming Energy Storage Converter market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Grid-forming Energy Storage Converter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Grid-forming Energy Storage Converter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Grid-forming Energy Storage Converter market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Grid-forming Energy Storage Converter

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 Grid-forming Energy Storage Converter market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SMA Solar Technology, Tesla, Hitachi Energy, Siemens Energy, Gamesa Electric, Schneider Electric, Sungrow Power Supply, Huawei, Sineng Electric, Kehua Data, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Grid-forming Energy Storage Converter market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Two-Level Converters

Three-Level Converters

Modular Multilevel Converters

Market segment by Grid Connection Voltage

Low-Voltage Converters

Medium-Voltage Converters

High-Voltage Converters

Market segment by Rated Power

Small Power??500 kW?

Medium Power?501?2500 kW?

Large Power??2500 kW?

Market segment by Application

Frequency Support

Voltage Control

Black Start and Grid Restoration

Other

Major players covered

SMA Solar Technology

Tesla

Hitachi Energy

Siemens Energy

Gamesa Electric

Schneider Electric

Sungrow Power Supply

Huawei

Sineng Electric

Kehua Data

Goldwind

Kstar

Zhicheng Champion

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Grid-forming Energy Storage Converter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Grid-forming Energy Storage Converter, with price, sales quantity, revenue, and global market share of Grid-forming Energy Storage Converter from 2021 to 2026.

Chapter 3, the Grid-forming Energy Storage Converter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Grid-forming Energy Storage Converter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Grid-forming Energy Storage Converter market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Grid-forming Energy Storage Converter.

Chapter 14 and 15, to describe Grid-forming Energy Storage Converter sales channel, distributors, customers, research findings and conclusion.

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