

Global Grid-forming Energy Storage Converter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Grid-forming Energy Storage Converter market size is expected to reach \$ 10362 million by 2032, rising at a market growth of 27.8% CAGR during the forecast period (2026-2032).

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 studies the global Grid-forming Energy Storage Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Grid-forming Energy Storage Converter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Grid-forming Energy Storage Converter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Grid-forming Energy Storage Converter total production and demand, 2021-2032, (Units)

Global Grid-forming Energy Storage Converter total production value, 2021-2032, (USD Million)

Global Grid-forming Energy Storage Converter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Grid-forming Energy Storage Converter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Grid-forming Energy Storage Converter domestic production, consumption, key domestic manufacturers and share

Global Grid-forming Energy Storage Converter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Grid-forming Energy Storage Converter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Grid-forming Energy Storage Converter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Grid-forming Energy Storage Converter market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Grid-forming Energy Storage Converter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Grid-forming Energy Storage Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Grid-forming Energy Storage Converter Market, Segmentation by Type:

Two-Level Converters

Three-Level Converters

Modular Multilevel Converters

Global Grid-forming Energy Storage Converter Market, Segmentation by Grid Connection Voltage:

Low-Voltage Converters

Medium-Voltage Converters

High-Voltage Converters

Global Grid-forming Energy Storage Converter Market, Segmentation by Rated Power:

Small Power??500 kW?

Medium Power?501?2500 kW?

Large Power??2500 kW?

Global Grid-forming Energy Storage Converter Market, Segmentation by Application:

Frequency Support

Voltage Control

Black Start and Grid Restoration

Other

Companies Profiled:

SMA Solar Technology

Tesla

Hitachi Energy

Siemens Energy

Gamesa Electric

Schneider Electric

Sungrow Power Supply

Huawei

Sineng Electric

Kehua Data

Goldwind

Kstar

Zhicheng Champion

Key Questions Answered:

1. How big is the global Grid-forming Energy Storage Converter market?
2. What is the demand of the global Grid-forming Energy Storage Converter market?
3. What is the year over year growth of the global Grid-forming Energy Storage Converter market?
4. What is the production and production value of the global Grid-forming Energy Storage Converter market?
5. Who are the key producers in the global Grid-forming Energy Storage Converter market?
6. What are the growth factors driving the market demand?

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