

Global Grid-forming Energy Storage Converter Market Growth 2026-2032

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Abstracts

The global Grid-forming Energy Storage Converter market size is predicted to grow from US\$ 1761 million in 2025 to US\$ 10680 million in 2032; it is expected to grow at a CAGR of 29.5% from 2026 to 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.

United States market for Grid-forming Energy Storage Converter is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Grid-forming Energy Storage Converter is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Grid-forming Energy Storage Converter is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Grid-forming Energy Storage Converter players cover SMA Solar Technology, Tesla, Hitachi Energy, Siemens Energy, Gamesa Electric, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Grid-forming Energy Storage Converter Industry Forecast" looks at past sales and reviews total world Grid-forming Energy Storage Converter sales in 2025, providing a comprehensive analysis by region and market sector of projected Grid-forming Energy Storage Converter sales for 2026 through 2032. With Grid-forming Energy Storage Converter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Grid-forming Energy Storage Converter industry.

This Insight Report provides a comprehensive analysis of the global Grid-forming Energy Storage Converter landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Grid-forming Energy Storage Converter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Grid-forming Energy Storage Converter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Grid-forming Energy Storage Converter and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Grid-forming Energy Storage Converter.

This report presents a comprehensive overview, market shares, and growth opportunities of Grid-forming Energy Storage Converter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

- Two-Level Converters

- Three-Level Converters

- Modular Multilevel Converters

Segmentation by Grid Connection Voltage:

- Low-Voltage Converters

- Medium-Voltage Converters

- High-Voltage Converters

Segmentation by Rated Power:

- Small Power??500 kW?

- Medium Power?501?2500 kW?

- Large Power??2500 kW?

Segmentation by Application:

Frequency Support

Voltage Control

Black Start and Grid Restoration

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Grid-forming Energy Storage Converter market?

What factors are driving Grid-forming Energy Storage Converter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Grid-forming Energy Storage Converter market opportunities vary by end market size?

How does Grid-forming Energy Storage Converter break out by Type, by Application?

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