

Global Grid-Forming Controllers Market Growth 2026-2032

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Abstracts

The global Grid-Forming Controllers market size is predicted to grow from US\$ 499 million in 2025 to US\$ 1655 million in 2032; it is expected to grow at a CAGR of 18.5% from 2026 to 2032.

In 2025, global Grid-Forming Controllers production reached approximately 170 thousand units, with an average global market price of around USD 3000 per unit.

The gross profit margin of major companies in the industry was approximately 35%–55%.

In 2025, global production capacity of Grid-Forming Controllers was approximately 220 thousand units.

Grid-Forming Controllers are advanced power control devices that enable energy storage and power conversion systems to actively establish and regulate voltage, frequency, and phase rather than merely following an existing grid signal. They implement control functions such as virtual inertia, frequency response, voltage support, synchronization, and islanded operation. Products are primarily integrated into battery energy storage, renewable power plants, microgrids, and weak-grid power systems.

The industrial chain of Grid-Forming Controllers includes upstream processors, power control chips, sensors, communication modules, embedded software, algorithms, and electronic components; midstream covers control architecture development, hardware design, algorithm implementation, software integration, testing, and certification; downstream applications mainly include battery energy storage, renewable power plants, microgrids, utility grids, industrial power systems, and weak-grid environments.

United States market for Grid-Forming Controllers 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 Controllers 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 Controllers 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 Controllers players cover SMA Solar Technology AG, Hitachi Energy Ltd., Siemens Energy AG, GE Vernova Inc., Schneider Electric SE, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Grid-Forming Controllers 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 Controllers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Grid-Forming Controllers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Grid-Forming Controllers 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 Controllers.

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

Market Segmentation

Segmentation by Type:

Droop Control-based Controllers

Virtual Synchronous Machine Controllers

Virtual Oscillator Control-based Controllers

Segmentation by Controller Architecture:

Centralized Plant Controllers

Distributed Unit Controllers

Hierarchical Coordinated Controllers

Segmentation by Supported Plant Capacity:

Small-scale??10 MW?

Medium-scale??10–100 MW?

Large-scale??100 MW?

Segmentation by Application:

Voltage and Frequency Formation

Synthetic Inertia and Fast Frequency Response

Black Start and Weak-grid Stabilization

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 AG

Hitachi Energy Ltd.

Siemens Energy AG

GE Vernova Inc.

Schneider Electric SE

ABB Ltd.

Wartsila Corporation

Fluence Energy, Inc.

Tesla, Inc.

Nidec Conversion

Ingeteam S.A.

Power Electronics S.L.

Toshiba Energy Systems & Solutions Corporation

Mitsubishi Electric Corporation

LS ELECTRIC Co., Ltd.

Sungrow Power Supply Co., Ltd.

Huawei Digital Power Technologies Co., Ltd.

Sineng Electric Co., Ltd.

NR Electric Co., Ltd.

Shenzhen KSTAR Science and Technology Co., Ltd.

Kehua Data Co., Ltd.

CRRC Zhuzhou Institute Co., Ltd.

Shenzhen Hopewind Electric Co., Ltd.

Beijing HyperStrong Technology Co., Ltd.

XJ Electric Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Grid-Forming Controllers market?

What factors are driving Grid-Forming Controllers market growth, globally and by region?

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

How do Grid-Forming Controllers market opportunities vary by end market size?

How does Grid-Forming Controllers break out by Type, by Application?

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