

# Global Synchronous Generator Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Synchronous Generator market size is expected to reach \$ 2332 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global production capacity of synchronous generators is approximately 60,000 units, with actual production reaching about 50,000 units. The average global market price is around US\$ 30,000 per unit. Gross profit margins mainly range from 18% to 28%. A synchronous generator is an electrical machine that converts mechanical energy into electrical energy through electromagnetic induction, operating at a speed synchronized with the frequency of the power grid. The rotor magnetic field rotates at synchronous speed, ensuring a constant relationship between rotational speed and output frequency. Synchronous generators are widely used in thermal power plants, hydroelectric stations, nuclear facilities, wind power systems, and industrial power generation applications.

Upstream mainly includes electrical steel laminations, copper windings, insulation materials, bearings, forgings, excitation systems, and control equipment. Midstream focuses on generator design, rotor and stator manufacturing, assembly, balancing, insulation treatment, and performance testing, representing the core manufacturing and technical integration stage. Downstream applications cover power plants, renewable energy projects, industrial self-generation facilities, marine power systems, and distributed energy systems, extending to installation, commissioning, and long-term maintenance services.

The synchronous generator market is closely linked to global power generation investment and energy transition trends. Traditional thermal and hydro power plants remain key demand sources, particularly in developing regions where electricity

infrastructure expansion continues. Meanwhile, renewable energy integration, especially in large-scale hydropower and certain wind turbine configurations, supports stable demand for synchronous generators.

Grid stability requirements are also reinforcing their importance. Compared with asynchronous generation systems, synchronous generators provide inertia and reactive power support, contributing to frequency regulation and voltage stability. As power grids incorporate higher shares of intermittent renewable energy, the role of synchronous generation in maintaining grid reliability becomes increasingly critical. In addition, industrial self-generation and distributed energy projects are creating incremental demand. Overall, the market is expected to grow steadily, driven by both capacity additions and replacement of aging units.

This report studies the global Synchronous Generator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Synchronous Generator 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 Synchronous Generator that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Synchronous Generator total production and demand, 2021-2032, (Units)

Global Synchronous Generator total production value, 2021-2032, (USD Million)

Global Synchronous Generator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Synchronous Generator consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Synchronous Generator domestic production, consumption, key domestic manufacturers and share

Global Synchronous Generator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Synchronous Generator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Synchronous Generator production by Prime Mover, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Synchronous Generator 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 ABB, Wolong Electric Group, ANDRITZ, Ansaldo Energia, Elin Motoren, EvoTec Power, Ingeteam, Marelli Motori, Meidensha, MENZEL Elektromotoren, 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 Synchronous Generator 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 Prime Mover. 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 Synchronous Generator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Synchronous Generator Market, Segmentation by Type:

Single Phase

Three Phase

## Global Synchronous Generator Market, Segmentation by Prime Mover:

Marine

Chemical

Mining

Others

## Companies Profiled:

ABB

Wolong Electric Group

ANDRITZ

Ansaldo Energia

Elin Motoren

EvoTec Power

Ingeteam

Marelli Motori

Meidensha

MENZEL Elektromotoren

Partzsch

TMEIC

WEG

Fenxi

Yihua Power

Kaijijeli

NTC China

**Key Questions Answered:**

1. How big is the global Synchronous Generator market?
2. What is the demand of the global Synchronous Generator market?
3. What is the year over year growth of the global Synchronous Generator market?
4. What is the production and production value of the global Synchronous Generator market?
5. Who are the key producers in the global Synchronous Generator market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Synchronous Generator Introduction
- 1.2 World Synchronous Generator Supply & Forecast
  - 1.2.1 World Synchronous Generator Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Synchronous Generator Production (2021-2032)
  - 1.2.3 World Synchronous Generator Pricing Trends (2021-2032)
- 1.3 World Synchronous Generator Production by Region (Based on Production Site)
  - 1.3.1 World Synchronous Generator Production Value by Region (2021-2032)
  - 1.3.2 World Synchronous Generator Production by Region (2021-2032)
  - 1.3.3 World Synchronous Generator Average Price by Region (2021-2032)
  - 1.3.4 North America Synchronous Generator Production (2021-2032)
  - 1.3.5 Europe Synchronous Generator Production (2021-2032)
  - 1.3.6 China Synchronous Generator Production (2021-2032)
  - 1.3.7 Japan Synchronous Generator Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Synchronous Generator Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Synchronous Generator Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Synchronous Generator Demand (2021-2032)
- 2.2 World Synchronous Generator Consumption by Region
  - 2.2.1 World Synchronous Generator Consumption by Region (2021-2026)
  - 2.2.2 World Synchronous Generator Consumption Forecast by Region (2027-2032)
- 2.3 United States Synchronous Generator Consumption (2021-2032)
- 2.4 China Synchronous Generator Consumption (2021-2032)
- 2.5 Europe Synchronous Generator Consumption (2021-2032)
- 2.6 Japan Synchronous Generator Consumption (2021-2032)
- 2.7 South Korea Synchronous Generator Consumption (2021-2032)
- 2.8 ASEAN Synchronous Generator Consumption (2021-2032)
- 2.9 India Synchronous Generator Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Synchronous Generator Production Value by Manufacturer (2021-2026)

- 3.2 World Synchronous Generator Production by Manufacturer (2021-2026)
- 3.3 World Synchronous Generator Average Price by Manufacturer (2021-2026)
- 3.4 Synchronous Generator Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Synchronous Generator Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Synchronous Generator in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Synchronous Generator in 2025
- 3.6 Synchronous Generator Market: Overall Company Footprint Analysis
  - 3.6.1 Synchronous Generator Market: Region Footprint
  - 3.6.2 Synchronous Generator Market: Company Product Type Footprint
  - 3.6.3 Synchronous Generator Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Synchronous Generator Production Value Comparison
  - 4.1.1 United States VS China: Synchronous Generator Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Synchronous Generator Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Synchronous Generator Production Comparison
  - 4.2.1 United States VS China: Synchronous Generator Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Synchronous Generator Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Synchronous Generator Consumption Comparison
  - 4.3.1 United States VS China: Synchronous Generator Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Synchronous Generator Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Synchronous Generator Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Synchronous Generator Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Synchronous Generator Production Value (2021-2026)

4.4.3 United States Based Manufacturers Synchronous Generator Production (2021-2026)

4.5 China Based Synchronous Generator Manufacturers and Market Share

4.5.1 China Based Synchronous Generator Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Synchronous Generator Production Value (2021-2026)

4.5.3 China Based Manufacturers Synchronous Generator Production (2021-2026)

4.6 Rest of World Based Synchronous Generator Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Synchronous Generator Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Synchronous Generator Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Synchronous Generator Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Synchronous Generator Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single Phase

5.2.2 Three Phase

5.3 Market Segment by Type

5.3.1 World Synchronous Generator Production by Type (2021-2032)

5.3.2 World Synchronous Generator Production Value by Type (2021-2032)

5.3.3 World Synchronous Generator Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY PRIME MOVER**

6.1 World Synchronous Generator Market Size Overview by Prime Mover: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Prime Mover

6.2.1 Marine

6.2.2 Chemical

6.2.3 Mining

#### 6.2.4 Others

### 6.3 Market Segment by Prime Mover

#### 6.3.1 World Synchronous Generator Production by Prime Mover (2021-2032)

#### 6.3.2 World Synchronous Generator Production Value by Prime Mover (2021-2032)

#### 6.3.3 World Synchronous Generator Average Price by Prime Mover (2021-2032)

## 7 COMPANY PROFILES

### 7.1 ABB

#### 7.1.1 ABB Details

#### 7.1.2 ABB Major Business

#### 7.1.3 ABB Synchronous Generator Product and Services

#### 7.1.4 ABB Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.1.5 ABB Recent Developments/Updates

#### 7.1.6 ABB Competitive Strengths & Weaknesses

### 7.2 Wolong Electric Group

#### 7.2.1 Wolong Electric Group Details

#### 7.2.2 Wolong Electric Group Major Business

#### 7.2.3 Wolong Electric Group Synchronous Generator Product and Services

#### 7.2.4 Wolong Electric Group Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.2.5 Wolong Electric Group Recent Developments/Updates

#### 7.2.6 Wolong Electric Group Competitive Strengths & Weaknesses

### 7.3 ANDRITZ

#### 7.3.1 ANDRITZ Details

#### 7.3.2 ANDRITZ Major Business

#### 7.3.3 ANDRITZ Synchronous Generator Product and Services

#### 7.3.4 ANDRITZ Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.3.5 ANDRITZ Recent Developments/Updates

#### 7.3.6 ANDRITZ Competitive Strengths & Weaknesses

### 7.4 Ansaldo Energia

#### 7.4.1 Ansaldo Energia Details

#### 7.4.2 Ansaldo Energia Major Business

#### 7.4.3 Ansaldo Energia Synchronous Generator Product and Services

#### 7.4.4 Ansaldo Energia Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.4.5 Ansaldo Energia Recent Developments/Updates

- 7.4.6 Ansaldo Energia Competitive Strengths & Weaknesses
- 7.5 Elin Motoren
  - 7.5.1 Elin Motoren Details
  - 7.5.2 Elin Motoren Major Business
  - 7.5.3 Elin Motoren Synchronous Generator Product and Services
  - 7.5.4 Elin Motoren Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.5.5 Elin Motoren Recent Developments/Updates
  - 7.5.6 Elin Motoren Competitive Strengths & Weaknesses
- 7.6 EvoTec Power
  - 7.6.1 EvoTec Power Details
  - 7.6.2 EvoTec Power Major Business
  - 7.6.3 EvoTec Power Synchronous Generator Product and Services
  - 7.6.4 EvoTec Power Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.6.5 EvoTec Power Recent Developments/Updates
  - 7.6.6 EvoTec Power Competitive Strengths & Weaknesses
- 7.7 Ingeteam
  - 7.7.1 Ingeteam Details
  - 7.7.2 Ingeteam Major Business
  - 7.7.3 Ingeteam Synchronous Generator Product and Services
  - 7.7.4 Ingeteam Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.7.5 Ingeteam Recent Developments/Updates
  - 7.7.6 Ingeteam Competitive Strengths & Weaknesses
- 7.8 Marelli Motori
  - 7.8.1 Marelli Motori Details
  - 7.8.2 Marelli Motori Major Business
  - 7.8.3 Marelli Motori Synchronous Generator Product and Services
  - 7.8.4 Marelli Motori Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.8.5 Marelli Motori Recent Developments/Updates
  - 7.8.6 Marelli Motori Competitive Strengths & Weaknesses
- 7.9 Meidensha
  - 7.9.1 Meidensha Details
  - 7.9.2 Meidensha Major Business
  - 7.9.3 Meidensha Synchronous Generator Product and Services
  - 7.9.4 Meidensha Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 7.9.5 Meidensha Recent Developments/Updates
- 7.9.6 Meidensha Competitive Strengths & Weaknesses
- 7.10 MENZEL Elektromotoren
  - 7.10.1 MENZEL Elektromotoren Details
  - 7.10.2 MENZEL Elektromotoren Major Business
  - 7.10.3 MENZEL Elektromotoren Synchronous Generator Product and Services
  - 7.10.4 MENZEL Elektromotoren Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.10.5 MENZEL Elektromotoren Recent Developments/Updates
  - 7.10.6 MENZEL Elektromotoren Competitive Strengths & Weaknesses
- 7.11 Partzsch
  - 7.11.1 Partzsch Details
  - 7.11.2 Partzsch Major Business
  - 7.11.3 Partzsch Synchronous Generator Product and Services
  - 7.11.4 Partzsch Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.11.5 Partzsch Recent Developments/Updates
  - 7.11.6 Partzsch Competitive Strengths & Weaknesses
- 7.12 TMEIC
  - 7.12.1 TMEIC Details
  - 7.12.2 TMEIC Major Business
  - 7.12.3 TMEIC Synchronous Generator Product and Services
  - 7.12.4 TMEIC Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.12.5 TMEIC Recent Developments/Updates
  - 7.12.6 TMEIC Competitive Strengths & Weaknesses
- 7.13 WEG
  - 7.13.1 WEG Details
  - 7.13.2 WEG Major Business
  - 7.13.3 WEG Synchronous Generator Product and Services
  - 7.13.4 WEG Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 7.13.5 WEG Recent Developments/Updates
  - 7.13.6 WEG Competitive Strengths & Weaknesses
- 7.14 Fenxi
  - 7.14.1 Fenxi Details
  - 7.14.2 Fenxi Major Business
  - 7.14.3 Fenxi Synchronous Generator Product and Services
  - 7.14.4 Fenxi Synchronous Generator Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

7.14.5 Fenxi Recent Developments/Updates

7.14.6 Fenxi Competitive Strengths & Weaknesses

## 7.15 Yihua Power

7.15.1 Yihua Power Details

7.15.2 Yihua Power Major Business

7.15.3 Yihua Power Synchronous Generator Product and Services

7.15.4 Yihua Power Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.15.5 Yihua Power Recent Developments/Updates

7.15.6 Yihua Power Competitive Strengths & Weaknesses

## 7.16 Kaijieli

7.16.1 Kaijieli Details

7.16.2 Kaijieli Major Business

7.16.3 Kaijieli Synchronous Generator Product and Services

7.16.4 Kaijieli Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.16.5 Kaijieli Recent Developments/Updates

7.16.6 Kaijieli Competitive Strengths & Weaknesses

## 7.17 NTC China

7.17.1 NTC China Details

7.17.2 NTC China Major Business

7.17.3 NTC China Synchronous Generator Product and Services

7.17.4 NTC China Synchronous Generator Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.17.5 NTC China Recent Developments/Updates

7.17.6 NTC China Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

8.1 Synchronous Generator Industry Chain

8.2 Synchronous Generator Upstream Analysis

8.2.1 Synchronous Generator Core Raw Materials

8.2.2 Main Manufacturers of Synchronous Generator Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Synchronous Generator Production Mode

8.6 Synchronous Generator Procurement Model

8.7 Synchronous Generator Industry Sales Model and Sales Channels

8.7.1 Synchronous Generator Sales Model

8.7.2 Synchronous Generator Typical Distributors

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World Synchronous Generator Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Synchronous Generator Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Synchronous Generator Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Synchronous Generator Production Value Market Share by Region (2021-2026)
- Table 5. World Synchronous Generator Production Value Market Share by Region (2027-2032)
- Table 6. World Synchronous Generator Production by Region (2021-2026) & (Units)
- Table 7. World Synchronous Generator Production by Region (2027-2032) & (Units)
- Table 8. World Synchronous Generator Production Market Share by Region (2021-2026)
- Table 9. World Synchronous Generator Production Market Share by Region (2027-2032)
- Table 10. World Synchronous Generator Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Synchronous Generator Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Synchronous Generator Major Market Trends
- Table 13. World Synchronous Generator Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
- Table 14. World Synchronous Generator Consumption by Region (2021-2026) & (Units)
- Table 15. World Synchronous Generator Consumption Forecast by Region (2027-2032) & (Units)
- Table 16. World Synchronous Generator Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Synchronous Generator Producers in 2025
- Table 18. World Synchronous Generator Production by Manufacturer (2021-2026) & (Units)
- Table 19. Production Market Share of Key Synchronous Generator Producers in 2025
- Table 20. World Synchronous Generator Average Price by Manufacturer (2021-2026) & (US\$/Unit)

- Table 21. Global Synchronous Generator Company Evaluation Quadrant
- Table 22. World Synchronous Generator Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Synchronous Generator Production Site of Key Manufacturer
- Table 24. Synchronous Generator Market: Company Product Type Footprint
- Table 25. Synchronous Generator Market: Company Product Application Footprint
- Table 26. Synchronous Generator Competitive Factors
- Table 27. Synchronous Generator New Entrant and Capacity Expansion Plans
- Table 28. Synchronous Generator Mergers & Acquisitions Activity
- Table 29. United States VS China Synchronous Generator Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Synchronous Generator Production Comparison, (2021 & 2025 & 2032) & (Units)
- Table 31. United States VS China Synchronous Generator Consumption Comparison, (2021 & 2025 & 2032) & (Units)
- Table 32. United States Based Synchronous Generator Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Synchronous Generator Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Synchronous Generator Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Synchronous Generator Production (2021-2026) & (Units)
- Table 36. United States Based Manufacturers Synchronous Generator Production Market Share (2021-2026)
- Table 37. China Based Synchronous Generator Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Synchronous Generator Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Synchronous Generator Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Synchronous Generator Production, (2021-2026) & (Units)
- Table 41. China Based Manufacturers Synchronous Generator Production Market Share (2021-2026)
- Table 42. Rest of World Based Synchronous Generator Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Synchronous Generator Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Synchronous Generator Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Synchronous Generator Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Synchronous Generator Production Market Share (2021-2026)

Table 47. World Synchronous Generator Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Synchronous Generator Production by Type (2021-2026) & (Units)

Table 49. World Synchronous Generator Production by Type (2027-2032) & (Units)

Table 50. World Synchronous Generator Production Value by Type (2021-2026) & (USD Million)

Table 51. World Synchronous Generator Production Value by Type (2027-2032) & (USD Million)

Table 52. World Synchronous Generator Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Synchronous Generator Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Synchronous Generator Production Value by Prime Mover, (USD Million), 2021 & 2025 & 2032

Table 55. World Synchronous Generator Production by Prime Mover (2021-2026) & (Units)

Table 56. World Synchronous Generator Production by Prime Mover (2027-2032) & (Units)

Table 57. World Synchronous Generator Production Value by Prime Mover (2021-2026) & (USD Million)

Table 58. World Synchronous Generator Production Value by Prime Mover (2027-2032) & (USD Million)

Table 59. World Synchronous Generator Average Price by Prime Mover (2021-2026) & (US\$/Unit)

Table 60. World Synchronous Generator Average Price by Prime Mover (2027-2032) & (US\$/Unit)

Table 61. ABB Basic Information, Manufacturing Base and Competitors

Table 62. ABB Major Business

Table 63. ABB Synchronous Generator Product and Services

Table 64. ABB Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. ABB Recent Developments/Updates

Table 66. ABB Competitive Strengths & Weaknesses

Table 67. Wolong Electric Group Basic Information, Manufacturing Base and Competitors

Table 68. Wolong Electric Group Major Business

Table 69. Wolong Electric Group Synchronous Generator Product and Services

Table 70. Wolong Electric Group Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Wolong Electric Group Recent Developments/Updates

Table 72. Wolong Electric Group Competitive Strengths & Weaknesses

Table 73. ANDRITZ Basic Information, Manufacturing Base and Competitors

Table 74. ANDRITZ Major Business

Table 75. ANDRITZ Synchronous Generator Product and Services

Table 76. ANDRITZ Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. ANDRITZ Recent Developments/Updates

Table 78. ANDRITZ Competitive Strengths & Weaknesses

Table 79. Ansaldo Energia Basic Information, Manufacturing Base and Competitors

Table 80. Ansaldo Energia Major Business

Table 81. Ansaldo Energia Synchronous Generator Product and Services

Table 82. Ansaldo Energia Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. Ansaldo Energia Recent Developments/Updates

Table 84. Ansaldo Energia Competitive Strengths & Weaknesses

Table 85. Elin Motoren Basic Information, Manufacturing Base and Competitors

Table 86. Elin Motoren Major Business

Table 87. Elin Motoren Synchronous Generator Product and Services

Table 88. Elin Motoren Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. Elin Motoren Recent Developments/Updates

Table 90. Elin Motoren Competitive Strengths & Weaknesses

Table 91. EvoTec Power Basic Information, Manufacturing Base and Competitors

Table 92. EvoTec Power Major Business

Table 93. EvoTec Power Synchronous Generator Product and Services

Table 94. EvoTec Power Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. EvoTec Power Recent Developments/Updates

Table 96. EvoTec Power Competitive Strengths & Weaknesses

Table 97. Ingeteam Basic Information, Manufacturing Base and Competitors

- Table 98. Ingeteam Major Business
- Table 99. Ingeteam Synchronous Generator Product and Services
- Table 100. Ingeteam Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 101. Ingeteam Recent Developments/Updates
- Table 102. Ingeteam Competitive Strengths & Weaknesses
- Table 103. Marelli Motori Basic Information, Manufacturing Base and Competitors
- Table 104. Marelli Motori Major Business
- Table 105. Marelli Motori Synchronous Generator Product and Services
- Table 106. Marelli Motori Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 107. Marelli Motori Recent Developments/Updates
- Table 108. Marelli Motori Competitive Strengths & Weaknesses
- Table 109. Meidensha Basic Information, Manufacturing Base and Competitors
- Table 110. Meidensha Major Business
- Table 111. Meidensha Synchronous Generator Product and Services
- Table 112. Meidensha Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 113. Meidensha Recent Developments/Updates
- Table 114. Meidensha Competitive Strengths & Weaknesses
- Table 115. MENZEL Elektromotoren Basic Information, Manufacturing Base and Competitors
- Table 116. MENZEL Elektromotoren Major Business
- Table 117. MENZEL Elektromotoren Synchronous Generator Product and Services
- Table 118. MENZEL Elektromotoren Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 119. MENZEL Elektromotoren Recent Developments/Updates
- Table 120. MENZEL Elektromotoren Competitive Strengths & Weaknesses
- Table 121. Partzsch Basic Information, Manufacturing Base and Competitors
- Table 122. Partzsch Major Business
- Table 123. Partzsch Synchronous Generator Product and Services
- Table 124. Partzsch Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 125. Partzsch Recent Developments/Updates
- Table 126. Partzsch Competitive Strengths & Weaknesses
- Table 127. TMEIC Basic Information, Manufacturing Base and Competitors
- Table 128. TMEIC Major Business
- Table 129. TMEIC Synchronous Generator Product and Services

- Table 130. TMEIC Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 131. TMEIC Recent Developments/Updates
- Table 132. TMEIC Competitive Strengths & Weaknesses
- Table 133. WEG Basic Information, Manufacturing Base and Competitors
- Table 134. WEG Major Business
- Table 135. WEG Synchronous Generator Product and Services
- Table 136. WEG Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 137. WEG Recent Developments/Updates
- Table 138. WEG Competitive Strengths & Weaknesses
- Table 139. Fenxi Basic Information, Manufacturing Base and Competitors
- Table 140. Fenxi Major Business
- Table 141. Fenxi Synchronous Generator Product and Services
- Table 142. Fenxi Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 143. Fenxi Recent Developments/Updates
- Table 144. Fenxi Competitive Strengths & Weaknesses
- Table 145. Yihua Power Basic Information, Manufacturing Base and Competitors
- Table 146. Yihua Power Major Business
- Table 147. Yihua Power Synchronous Generator Product and Services
- Table 148. Yihua Power Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 149. Yihua Power Recent Developments/Updates
- Table 150. Yihua Power Competitive Strengths & Weaknesses
- Table 151. Kaijieli Basic Information, Manufacturing Base and Competitors
- Table 152. Kaijieli Major Business
- Table 153. Kaijieli Synchronous Generator Product and Services
- Table 154. Kaijieli Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 155. Kaijieli Recent Developments/Updates
- Table 156. Kaijieli Competitive Strengths & Weaknesses
- Table 157. NTC China Basic Information, Manufacturing Base and Competitors
- Table 158. NTC China Major Business
- Table 159. NTC China Synchronous Generator Product and Services
- Table 160. NTC China Synchronous Generator Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 161. NTC China Recent Developments/Updates
- Table 162. NTC China Competitive Strengths & Weaknesses

Table 163. Global Key Players of Synchronous Generator Upstream (Raw Materials)

Table 164. Global Synchronous Generator Typical Customers

Table 165. Synchronous Generator Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Synchronous Generator Picture

Figure 2. World Synchronous Generator Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Synchronous Generator Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Synchronous Generator Production (2021-2032) & (Units)

Figure 5. World Synchronous Generator Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Synchronous Generator Production Value Market Share by Region (2021-2032)

Figure 7. World Synchronous Generator Production Market Share by Region (2021-2032)

Figure 8. North America Synchronous Generator Production (2021-2032) & (Units)

Figure 9. Europe Synchronous Generator Production (2021-2032) & (Units)

Figure 10. China Synchronous Generator Production (2021-2032) & (Units)

Figure 11. Japan Synchronous Generator Production (2021-2032) & (Units)

Figure 12. Synchronous Generator Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Synchronous Generator Consumption (2021-2032) & (Units)

Figure 15. World Synchronous Generator Consumption Market Share by Region (2021-2032)

Figure 16. United States Synchronous Generator Consumption (2021-2032) & (Units)

Figure 17. China Synchronous Generator Consumption (2021-2032) & (Units)

Figure 18. Europe Synchronous Generator Consumption (2021-2032) & (Units)

Figure 19. Japan Synchronous Generator Consumption (2021-2032) & (Units)

Figure 20. South Korea Synchronous Generator Consumption (2021-2032) & (Units)

Figure 21. ASEAN Synchronous Generator Consumption (2021-2032) & (Units)

Figure 22. India Synchronous Generator Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Synchronous Generator by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Synchronous Generator Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Synchronous Generator Markets in 2025

Figure 26. United States VS China: Synchronous Generator Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Synchronous Generator Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Synchronous Generator Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Synchronous Generator Production Market Share 2025

Figure 30. China Based Manufacturers Synchronous Generator Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Synchronous Generator Production Market Share 2025

Figure 32. World Synchronous Generator Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Synchronous Generator Production Value Market Share by Type in 2025

Figure 34. Single Phase

Figure 35. Three Phase

Figure 36. World Synchronous Generator Production Market Share by Type (2021-2032)

Figure 37. World Synchronous Generator Production Value Market Share by Type (2021-2032)

Figure 38. World Synchronous Generator Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. Air-cooled

Figure 40. Hydrogen-cooled

Figure 41. Water-cooled

Figure 42. Hydro generator

Figure 43. Steam turbine generator

Figure 44. Gas turbine generator

Figure 45. Diesel generator

Figure 46. World Synchronous Generator Production Value by Prime Mover, (USD Million), 2021 & 2025 & 2032

Figure 47. World Synchronous Generator Production Value Market Share by Prime Mover in 2025

Figure 48. Marine

Figure 49. Chemical

Figure 50. Mining

Figure 51. Others

Figure 52. World Synchronous Generator Production Market Share by Prime Mover (2021-2032)

Figure 53. World Synchronous Generator Production Value Market Share by Prime Mover (2021-2032)

Figure 54. World Synchronous Generator Average Price by Prime Mover (2021-2032) & (US\$/Unit)

Figure 55. Synchronous Generator Industry Chain

Figure 56. Synchronous Generator Procurement Model

Figure 57. Synchronous Generator Sales Model

Figure 58. Synchronous Generator Sales Channels, Direct Sales, and Distribution

Figure 59. Methodology

Figure 60. Research Process and Data Source

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