

Global Energy Router Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Energy Router market size is expected to reach \$ 621 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

An energy router is an integrated power electronics and control device for the energy internet and microgrids. It typically employs a multi-port bidirectional converter and a digital control system to achieve bidirectional power flow control and strategy-based allocation between distributed photovoltaic, energy storage, charging pile loads and the power grid. It also has power routing, information sensing, and scheduling coordination capabilities, and can be used in park microgrids, building energy management, DC distribution nodes, and source-grid-load-storage coordination scenarios. Global sales are projected to reach approximately 52,000 units in 2025, with an average selling price of approximately US\$7,800 per unit and a capacity utilization rate of approximately 68%. The upstream sector primarily consists of power semiconductor modules (IGBTs and SiC), driver and isolation devices, magnetic components, capacitors, resistors, sampling sensors, industrial control motherboards, communication modules, heat dissipation and structural components, as well as EMS software and control algorithm suppliers. Downstream sectors include microgrid system integrators, energy storage system integrators, photovoltaic and charging infrastructure integrators, industrial park operators, commercial building owners, grid-side distribution automation contractors, and new energy investment operators. The industry's gross profit margin is approximately 31%. In the product cost structure, power devices and modules account for approximately 28%, magnetic components and filter capacitors for approximately 16%, heat dissipation and structural components for approximately 10%, control boards, communication and sensors for approximately 15%, software and algorithm R&D amortization for approximately 12%, testing, certification and grid connection adaptation for approximately 7%, assembly and manufacturing costs for approximately 6%, and logistics, channel and management costs for approximately 6%. The demand list mainly

includes integrated power generation, grid, load and storage systems in industrial parks, DC power distribution and flexible interconnection, and integrated photovoltaic, energy storage and charging sites. Uninterrupted power supply and peak shaving for critical loads, as well as multi-energy complementary dispatch, are key areas of focus. Downstream customers include large industrial parks and data center operators, commercial real estate and large public building owners, energy storage and charging station investors and operators, microgrid EPC contractors and grid-side distribution automation integrators. Business opportunities arise from policies related to new power systems and distributed renewable energy consumption, the efficiency and power density improvements brought by DC power distribution and SiC power devices, and the changing demands of users for lower energy costs, higher power supply reliability, and smarter operation and maintenance experiences.

Energy routers are transitioning from demonstrative microgrid devices to large-scale engineering applications. Their core value is expanding from simple energy conversion to multi-port collaborative scheduling and grid-friendly interaction. With the increasing proportion of distributed renewable energy, the accelerated implementation of DC power distribution and integrated photovoltaic-storage-charging systems, and the growing demand for both power supply reliability and energy cost optimization, manufacturers with high-efficiency power device platforms, reliable grid-connected control algorithms, and maintainable software platforms will find it easier to create competitive advantages and secure continuous orders in industrial parks, buildings, and power distribution projects.

This report studies the global Energy Router production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Energy Router total production and demand, 2021-2032, (K Units)

Global Energy Router total production value, 2021-2032, (USD Million)

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

Global Energy Router consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Energy Router domestic production, consumption, key domestic manufacturers and share

Global Energy Router production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Energy Router production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Energy Router production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Energy Router 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 Hitachi, EnerSys, Xtra Power Tools, SolarEdge Technologies, Inc., Magnum, Jiangsu Linyang Energy, Qingdao Topscomm Communication, Anjie IoT Science and Technology, Modeling Tech, Shenzhen Elecod, 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 Energy Router market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Energy Router Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Energy Router Market, Segmentation by Type:

Single Port Energy Router

Multiport Energy Router

Global Energy Router Market, Segmentation by Architecture:

AC Based Energy Router

DC Based Energy Router

AC DC Hybrid Energy Router

Global Energy Router Market, Segmentation by Power Rating:

Power Rating: Below 50 kW

Power Rating: 50-200 kW

Power Rating: 200-1000 kW

Power Rating: Above 1000 kW

Global Energy Router Market, Segmentation by Application:

Industrial

Commercial

Other

Companies Profiled:

Hitachi

EnerSys

Xtra Power Tools

SolarEdge Technologies, Inc.

Magnum

Jiangsu Linyang Energy

Qingdao Topscomm Communication

Anjie IoT Science and Technology

Modeling Tech

Shenzhen Elecod

Jingdian Ring Energy

Shanghai Nanyu Electric

DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY

TECHart Systems s.r.o.

TeknoCEA

Key Questions Answered:

1. How big is the global Energy Router market?
2. What is the demand of the global Energy Router market?
3. What is the year over year growth of the global Energy Router market?
4. What is the production and production value of the global Energy Router market?
5. Who are the key producers in the global Energy Router market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Energy Router Production Value by Manufacturer (2021-2026)

- 3.2 World Energy Router Production by Manufacturer (2021-2026)
- 3.3 World Energy Router Average Price by Manufacturer (2021-2026)
- 3.4 Energy Router Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Energy Router Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Energy Router in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Energy Router in 2025
- 3.6 Energy Router Market: Overall Company Footprint Analysis
 - 3.6.1 Energy Router Market: Region Footprint
 - 3.6.2 Energy Router Market: Company Product Type Footprint
 - 3.6.3 Energy Router 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: Energy Router Production Value Comparison
 - 4.1.1 United States VS China: Energy Router Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Energy Router Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Energy Router Production Comparison
 - 4.2.1 United States VS China: Energy Router Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Energy Router Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Energy Router Consumption Comparison
 - 4.3.1 United States VS China: Energy Router Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Energy Router Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Energy Router Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Energy Router Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Energy Router Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Energy Router Production (2021-2026)

4.5 China Based Energy Router Manufacturers and Market Share

4.5.1 China Based Energy Router Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Energy Router Production Value (2021-2026)

4.5.3 China Based Manufacturers Energy Router Production (2021-2026)

4.6 Rest of World Based Energy Router Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Energy Router Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Energy Router Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Energy Router Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Energy Router Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single Port Energy Router

5.2.2 Multiport Energy Router

5.3 Market Segment by Type

5.3.1 World Energy Router Production by Type (2021-2032)

5.3.2 World Energy Router Production Value by Type (2021-2032)

5.3.3 World Energy Router Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ARCHITECTURE

6.1 World Energy Router Market Size Overview by Architecture: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Architecture

6.2.1 AC Based Energy Router

6.2.2 DC Based Energy Router

6.2.3 AC DC Hybrid Energy Router

6.3 Market Segment by Architecture

6.3.1 World Energy Router Production by Architecture (2021-2032)

6.3.2 World Energy Router Production Value by Architecture (2021-2032)

6.3.3 World Energy Router Average Price by Architecture (2021-2032)

7 MARKET ANALYSIS BY POWER RATING

7.1 World Energy Router Market Size Overview by Power Rating: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Power Rating

7.2.1 Power Rating: Below 50 kW

7.2.2 Power Rating: 50-200 kW

7.2.3 Power Rating: 200-1000 kW

7.2.4 Power Rating: Above 1000 kW

7.3 Market Segment by Power Rating

7.3.1 World Energy Router Production by Power Rating (2021-2032)

7.3.2 World Energy Router Production Value by Power Rating (2021-2032)

7.3.3 World Energy Router Average Price by Power Rating (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Energy Router Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial

8.2.2 Commercial

8.2.3 Other

8.3 Market Segment by Application

8.3.1 World Energy Router Production by Application (2021-2032)

8.3.2 World Energy Router Production Value by Application (2021-2032)

8.3.3 World Energy Router Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Hitachi

9.1.1 Hitachi Details

9.1.2 Hitachi Major Business

9.1.3 Hitachi Energy Router Product and Services

9.1.4 Hitachi Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Hitachi Recent Developments/Updates

9.1.6 Hitachi Competitive Strengths & Weaknesses

9.2 EnerSys

9.2.1 EnerSys Details

9.2.2 EnerSys Major Business

9.2.3 EnerSys Energy Router Product and Services

9.2.4 EnerSys Energy Router Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.2.5 EnerSys Recent Developments/Updates

9.2.6 EnerSys Competitive Strengths & Weaknesses

9.3 Xtra Power Tools

9.3.1 Xtra Power Tools Details

9.3.2 Xtra Power Tools Major Business

9.3.3 Xtra Power Tools Energy Router Product and Services

9.3.4 Xtra Power Tools Energy Router Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.3.5 Xtra Power Tools Recent Developments/Updates

9.3.6 Xtra Power Tools Competitive Strengths & Weaknesses

9.4 SolarEdge Technologies, Inc.

9.4.1 SolarEdge Technologies, Inc. Details

9.4.2 SolarEdge Technologies, Inc. Major Business

9.4.3 SolarEdge Technologies, Inc. Energy Router Product and Services

9.4.4 SolarEdge Technologies, Inc. Energy Router Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.4.5 SolarEdge Technologies, Inc. Recent Developments/Updates

9.4.6 SolarEdge Technologies, Inc. Competitive Strengths & Weaknesses

9.5 Magnum

9.5.1 Magnum Details

9.5.2 Magnum Major Business

9.5.3 Magnum Energy Router Product and Services

9.5.4 Magnum Energy Router Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.5.5 Magnum Recent Developments/Updates

9.5.6 Magnum Competitive Strengths & Weaknesses

9.6 Jiangsu Linyang Energy

9.6.1 Jiangsu Linyang Energy Details

9.6.2 Jiangsu Linyang Energy Major Business

9.6.3 Jiangsu Linyang Energy Energy Router Product and Services

9.6.4 Jiangsu Linyang Energy Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Jiangsu Linyang Energy Recent Developments/Updates

9.6.6 Jiangsu Linyang Energy Competitive Strengths & Weaknesses

9.7 Qingdao Topscmm Communication

9.7.1 Qingdao Topscmm Communication Details

9.7.2 Qingdao Topscmm Communication Major Business

9.7.3 Qingdao Topscmm Communication Energy Router Product and Services

9.7.4 Qingdao Topscomm Communication Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Qingdao Topscomm Communication Recent Developments/Updates

9.7.6 Qingdao Topscomm Communication Competitive Strengths & Weaknesses

9.8 Anjie IoT Science and Technology

9.8.1 Anjie IoT Science and Technology Details

9.8.2 Anjie IoT Science and Technology Major Business

9.8.3 Anjie IoT Science and Technology Energy Router Product and Services

9.8.4 Anjie IoT Science and Technology Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Anjie IoT Science and Technology Recent Developments/Updates

9.8.6 Anjie IoT Science and Technology Competitive Strengths & Weaknesses

9.9 Modeling Tech

9.9.1 Modeling Tech Details

9.9.2 Modeling Tech Major Business

9.9.3 Modeling Tech Energy Router Product and Services

9.9.4 Modeling Tech Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Modeling Tech Recent Developments/Updates

9.9.6 Modeling Tech Competitive Strengths & Weaknesses

9.10 Shenzhen Elecod

9.10.1 Shenzhen Elecod Details

9.10.2 Shenzhen Elecod Major Business

9.10.3 Shenzhen Elecod Energy Router Product and Services

9.10.4 Shenzhen Elecod Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Shenzhen Elecod Recent Developments/Updates

9.10.6 Shenzhen Elecod Competitive Strengths & Weaknesses

9.11 Jingdian Ring Energy

9.11.1 Jingdian Ring Energy Details

9.11.2 Jingdian Ring Energy Major Business

9.11.3 Jingdian Ring Energy Energy Router Product and Services

9.11.4 Jingdian Ring Energy Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Jingdian Ring Energy Recent Developments/Updates

9.11.6 Jingdian Ring Energy Competitive Strengths & Weaknesses

9.12 Shanghai Nanyu Electric

9.12.1 Shanghai Nanyu Electric Details

9.12.2 Shanghai Nanyu Electric Major Business

- 9.12.3 Shanghai Nanyu Electric Energy Router Product and Services
- 9.12.4 Shanghai Nanyu Electric Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Shanghai Nanyu Electric Recent Developments/Updates
- 9.12.6 Shanghai Nanyu Electric Competitive Strengths & Weaknesses
- 9.13 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY
 - 9.13.1 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Details
 - 9.13.2 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Major Business
 - 9.13.3 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Energy Router Product and Services
 - 9.13.4 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Recent Developments/Updates
 - 9.13.6 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Competitive Strengths & Weaknesses
- 9.14 TECHart Systems s.r.o.
 - 9.14.1 TECHart Systems s.r.o. Details
 - 9.14.2 TECHart Systems s.r.o. Major Business
 - 9.14.3 TECHart Systems s.r.o. Energy Router Product and Services
 - 9.14.4 TECHart Systems s.r.o. Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 TECHart Systems s.r.o. Recent Developments/Updates
 - 9.14.6 TECHart Systems s.r.o. Competitive Strengths & Weaknesses
- 9.15 TeknoCEA
 - 9.15.1 TeknoCEA Details
 - 9.15.2 TeknoCEA Major Business
 - 9.15.3 TeknoCEA Energy Router Product and Services
 - 9.15.4 TeknoCEA Energy Router Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 TeknoCEA Recent Developments/Updates
 - 9.15.6 TeknoCEA Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Energy Router Industry Chain
- 10.2 Energy Router Upstream Analysis
 - 10.2.1 Energy Router Core Raw Materials
 - 10.2.2 Main Manufacturers of Energy Router Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Energy Router Production Mode
- 10.6 Energy Router Procurement Model
- 10.7 Energy Router Industry Sales Model and Sales Channels
 - 10.7.1 Energy Router Sales Model
 - 10.7.2 Energy Router Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Energy Router Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Energy Router Production Value by Region (2021-2026) & (USD Million)

Table 3. World Energy Router Production Value by Region (2027-2032) & (USD Million)

Table 4. World Energy Router Production Value Market Share by Region (2021-2026)

Table 5. World Energy Router Production Value Market Share by Region (2027-2032)

Table 6. World Energy Router Production by Region (2021-2026) & (K Units)

Table 7. World Energy Router Production by Region (2027-2032) & (K Units)

Table 8. World Energy Router Production Market Share by Region (2021-2026)

Table 9. World Energy Router Production Market Share by Region (2027-2032)

Table 10. World Energy Router Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Energy Router Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Energy Router Major Market Trends

Table 13. World Energy Router Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Energy Router Consumption by Region (2021-2026) & (K Units)

Table 15. World Energy Router Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Energy Router Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Energy Router Producers in 2025

Table 18. World Energy Router Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Energy Router Producers in 2025

Table 20. World Energy Router Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Energy Router Company Evaluation Quadrant

Table 22. World Energy Router Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Energy Router Production Site of Key Manufacturer

Table 24. Energy Router Market: Company Product Type Footprint

Table 25. Energy Router Market: Company Product Application Footprint

Table 26. Energy Router Competitive Factors

Table 27. Energy Router New Entrant and Capacity Expansion Plans

Table 28. Energy Router Mergers & Acquisitions Activity

Table 29. United States VS China Energy Router Production Value Comparison, (2021

& 2025 & 2032) & (USD Million)

Table 30. United States VS China Energy Router Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Energy Router Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Energy Router Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Energy Router Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Energy Router Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Energy Router Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Energy Router Production Market Share (2021-2026)

Table 37. China Based Energy Router Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Energy Router Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Energy Router Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Energy Router Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Energy Router Production Market Share (2021-2026)

Table 42. Rest of World Based Energy Router Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Energy Router Production Value, (2021-2026) & (USD Million)

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

Table 45. Rest of World Based Manufacturers Energy Router Production, (2021-2026) & (K Units)

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

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

Table 48. World Energy Router Production by Type (2021-2026) & (K Units)

Table 49. World Energy Router Production by Type (2027-2032) & (K Units)

- Table 50. World Energy Router Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Energy Router Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Energy Router Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Energy Router Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Energy Router Production Value by Architecture, (USD Million), 2021 & 2025 & 2032
- Table 55. World Energy Router Production by Architecture (2021-2026) & (K Units)
- Table 56. World Energy Router Production by Architecture (2027-2032) & (K Units)
- Table 57. World Energy Router Production Value by Architecture (2021-2026) & (USD Million)
- Table 58. World Energy Router Production Value by Architecture (2027-2032) & (USD Million)
- Table 59. World Energy Router Average Price by Architecture (2021-2026) & (US\$/Unit)
- Table 60. World Energy Router Average Price by Architecture (2027-2032) & (US\$/Unit)
- Table 61. World Energy Router Production Value by Power Rating, (USD Million), 2021 & 2025 & 2032
- Table 62. World Energy Router Production by Power Rating (2021-2026) & (K Units)
- Table 63. World Energy Router Production by Power Rating (2027-2032) & (K Units)
- Table 64. World Energy Router Production Value by Power Rating (2021-2026) & (USD Million)
- Table 65. World Energy Router Production Value by Power Rating (2027-2032) & (USD Million)
- Table 66. World Energy Router Average Price by Power Rating (2021-2026) & (US\$/Unit)
- Table 67. World Energy Router Average Price by Power Rating (2027-2032) & (US\$/Unit)
- Table 68. World Energy Router Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Energy Router Production by Application (2021-2026) & (K Units)
- Table 70. World Energy Router Production by Application (2027-2032) & (K Units)
- Table 71. World Energy Router Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Energy Router Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Energy Router Average Price by Application (2021-2026) & (US\$/Unit)
- Table 74. World Energy Router Average Price by Application (2027-2032) & (US\$/Unit)
- Table 75. Hitachi Basic Information, Manufacturing Base and Competitors
- Table 76. Hitachi Major Business
- Table 77. Hitachi Energy Router Product and Services

Table 78. Hitachi Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Hitachi Recent Developments/Updates

Table 80. Hitachi Competitive Strengths & Weaknesses

Table 81. EnerSys Basic Information, Manufacturing Base and Competitors

Table 82. EnerSys Major Business

Table 83. EnerSys Energy Router Product and Services

Table 84. EnerSys Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. EnerSys Recent Developments/Updates

Table 86. EnerSys Competitive Strengths & Weaknesses

Table 87. Xtra Power Tools Basic Information, Manufacturing Base and Competitors

Table 88. Xtra Power Tools Major Business

Table 89. Xtra Power Tools Energy Router Product and Services

Table 90. Xtra Power Tools Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Xtra Power Tools Recent Developments/Updates

Table 92. Xtra Power Tools Competitive Strengths & Weaknesses

Table 93. SolarEdge Technologies, Inc. Basic Information, Manufacturing Base and Competitors

Table 94. SolarEdge Technologies, Inc. Major Business

Table 95. SolarEdge Technologies, Inc. Energy Router Product and Services

Table 96. SolarEdge Technologies, Inc. Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. SolarEdge Technologies, Inc. Recent Developments/Updates

Table 98. SolarEdge Technologies, Inc. Competitive Strengths & Weaknesses

Table 99. Magnum Basic Information, Manufacturing Base and Competitors

Table 100. Magnum Major Business

Table 101. Magnum Energy Router Product and Services

Table 102. Magnum Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Magnum Recent Developments/Updates

Table 104. Magnum Competitive Strengths & Weaknesses

Table 105. Jiangsu Linyang Energy Basic Information, Manufacturing Base and Competitors

Table 106. Jiangsu Linyang Energy Major Business

Table 107. Jiangsu Linyang Energy Energy Router Product and Services

Table 108. Jiangsu Linyang Energy Energy Router Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Jiangsu Linyang Energy Recent Developments/Updates

Table 110. Jiangsu Linyang Energy Competitive Strengths & Weaknesses

Table 111. Qingdao Topscomm Communication Basic Information, Manufacturing Base and Competitors

Table 112. Qingdao Topscomm Communication Major Business

Table 113. Qingdao Topscomm Communication Energy Router Product and Services

Table 114. Qingdao Topscomm Communication Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Qingdao Topscomm Communication Recent Developments/Updates

Table 116. Qingdao Topscomm Communication Competitive Strengths & Weaknesses

Table 117. Anjie IoT Science and Technology Basic Information, Manufacturing Base and Competitors

Table 118. Anjie IoT Science and Technology Major Business

Table 119. Anjie IoT Science and Technology Energy Router Product and Services

Table 120. Anjie IoT Science and Technology Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Anjie IoT Science and Technology Recent Developments/Updates

Table 122. Anjie IoT Science and Technology Competitive Strengths & Weaknesses

Table 123. Modeling Tech Basic Information, Manufacturing Base and Competitors

Table 124. Modeling Tech Major Business

Table 125. Modeling Tech Energy Router Product and Services

Table 126. Modeling Tech Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Modeling Tech Recent Developments/Updates

Table 128. Modeling Tech Competitive Strengths & Weaknesses

Table 129. Shenzhen Elecod Basic Information, Manufacturing Base and Competitors

Table 130. Shenzhen Elecod Major Business

Table 131. Shenzhen Elecod Energy Router Product and Services

Table 132. Shenzhen Elecod Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Shenzhen Elecod Recent Developments/Updates

Table 134. Shenzhen Elecod Competitive Strengths & Weaknesses

Table 135. Jingdian Ring Energy Basic Information, Manufacturing Base and Competitors

Table 136. Jingdian Ring Energy Major Business

Table 137. Jingdian Ring Energy Energy Router Product and Services

Table 138. Jingdian Ring Energy Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Jingdian Ring Energy Recent Developments/Updates

Table 140. Jingdian Ring Energy Competitive Strengths & Weaknesses

Table 141. Shanghai Nanyu Electric Basic Information, Manufacturing Base and Competitors

Table 142. Shanghai Nanyu Electric Major Business

Table 143. Shanghai Nanyu Electric Energy Router Product and Services

Table 144. Shanghai Nanyu Electric Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Shanghai Nanyu Electric Recent Developments/Updates

Table 146. Shanghai Nanyu Electric Competitive Strengths & Weaknesses

Table 147. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Basic Information, Manufacturing Base and Competitors

Table 148. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Major Business

Table 149. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Energy Router Product and Services

Table 150. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Recent Developments/Updates

Table 152. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Competitive Strengths & Weaknesses

Table 153. TECHart Systems s.r.o. Basic Information, Manufacturing Base and Competitors

Table 154. TECHart Systems s.r.o. Major Business

Table 155. TECHart Systems s.r.o. Energy Router Product and Services

Table 156. TECHart Systems s.r.o. Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 157. TECHart Systems s.r.o. Recent Developments/Updates

Table 158. TECHart Systems s.r.o. Competitive Strengths & Weaknesses

Table 159. TeknoCEA Basic Information, Manufacturing Base and Competitors

Table 160. TeknoCEA Major Business

Table 161. TeknoCEA Energy Router Product and Services

Table 162. TeknoCEA Energy Router Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. TeknoCEA Recent Developments/Updates

Table 164. TeknoCEA Competitive Strengths & Weaknesses

Table 165. Global Key Players of Energy Router Upstream (Raw Materials)

Table 166. Global Energy Router Typical Customers

Table 167. Energy Router Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Energy Router Picture

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

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

Figure 4. World Energy Router Production (2021-2032) & (K Units)

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

Figure 6. World Energy Router Production Value Market Share by Region (2021-2032)

Figure 7. World Energy Router Production Market Share by Region (2021-2032)

Figure 8. North America Energy Router Production (2021-2032) & (K Units)

Figure 9. Europe Energy Router Production (2021-2032) & (K Units)

Figure 10. China Energy Router Production (2021-2032) & (K Units)

Figure 11. Japan Energy Router Production (2021-2032) & (K Units)

Figure 12. Energy Router Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Energy Router Consumption (2021-2032) & (K Units)

Figure 15. World Energy Router Consumption Market Share by Region (2021-2032)

Figure 16. United States Energy Router Consumption (2021-2032) & (K Units)

Figure 17. China Energy Router Consumption (2021-2032) & (K Units)

Figure 18. Europe Energy Router Consumption (2021-2032) & (K Units)

Figure 19. Japan Energy Router Consumption (2021-2032) & (K Units)

Figure 20. South Korea Energy Router Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Energy Router Consumption (2021-2032) & (K Units)

Figure 22. India Energy Router Consumption (2021-2032) & (K Units)

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

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

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

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

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

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

Figure 29. United States Based Manufacturers Energy Router Production Market Share 2025

Figure 30. China Based Manufacturers Energy Router Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Energy Router Production Market Share 2025

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

Figure 33. World Energy Router Production Value Market Share by Type in 2025

Figure 34. Single Port Energy Router

Figure 35. Multiport Energy Router

Figure 36. World Energy Router Production Market Share by Type (2021-2032)

Figure 37. World Energy Router Production Value Market Share by Type (2021-2032)

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

Figure 39. World Energy Router Production Value by Architecture, (USD Million), 2021 & 2025 & 2032

Figure 40. World Energy Router Production Value Market Share by Architecture in 2025

Figure 41. AC Based Energy Router

Figure 42. DC Based Energy Router

Figure 43. AC DC Hybrid Energy Router

Figure 44. World Energy Router Production Market Share by Architecture (2021-2032)

Figure 45. World Energy Router Production Value Market Share by Architecture (2021-2032)

Figure 46. World Energy Router Average Price by Architecture (2021-2032) & (US\$/Unit)

Figure 47. World Energy Router Production Value by Power Rating, (USD Million), 2021 & 2025 & 2032

Figure 48. World Energy Router Production Value Market Share by Power Rating in 2025

Figure 49. Power Rating: Below 50 kW

Figure 50. Power Rating: 50-200 kW

Figure 51. Power Rating: 200-1000 kW

Figure 52. Power Rating: Above 1000 kW

Figure 53. World Energy Router Production Market Share by Power Rating (2021-2032)

Figure 54. World Energy Router Production Value Market Share by Power Rating (2021-2032)

Figure 55. World Energy Router Average Price by Power Rating (2021-2032) & (US\$/Unit)

Figure 56. World Energy Router Production Value by Application, (USD Million), 2021 & 2025 & 2032

- Figure 57. World Energy Router Production Value Market Share by Application in 2025
- Figure 58. Industrial
- Figure 59. Commercial
- Figure 60. Other
- Figure 61. World Energy Router Production Market Share by Application (2021-2032)
- Figure 62. World Energy Router Production Value Market Share by Application (2021-2032)
- Figure 63. World Energy Router Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 64. Energy Router Industry Chain
- Figure 65. Energy Router Procurement Model
- Figure 66. Energy Router Sales Model
- Figure 67. Energy Router Sales Channels, Direct Sales, and Distribution
- Figure 68. Methodology
- Figure 69. Research Process and Data Source

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