

Global Energy Router Market Growth 2026-2032

<https://marketpublishers.com/r/G6D9834E362CEN.html>

Date: July 2026

Pages: 118

Price: US\$ 3,660.00 (Single User License)

ID: G6D9834E362CEN

Abstracts

The global Energy Router market size is predicted to grow from US\$ 397 million in 2025 to US\$ 603 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 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.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Energy Router 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 Energy Router.

This report presents a comprehensive overview, market shares, and growth opportunities of Energy Router market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single Port Energy Router

Multiport Energy Router

Segmentation by Architecture:

AC Based Energy Router

DC Based Energy Router

AC DC Hybrid Energy Router

Segmentation by Power Rating:

Power Rating: Below 50 kW

Power Rating: 50-200 kW

Power Rating: 200-1000 kW

Power Rating: Above 1000 kW

Segmentation by Application:

Industrial

Commercial

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.

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 Addressed in this Report

What is the 10-year outlook for the global Energy Router market?

What factors are driving Energy Router market growth, globally and by region?

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

How do Energy Router market opportunities vary by end market size?

How does Energy Router break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Energy Router Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Energy Router by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Energy Router by Country/Region, 2021, 2025 & 2032
- 2.2 Energy Router Segment by Type
 - 2.2.1 Single Port Energy Router
 - 2.2.2 Multiport Energy Router
 - 2.2.3 Energy Router Sales by Type
 - 2.2.3.1 Global Energy Router Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Energy Router Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Energy Router Sale Price by Type (2021-2026)
- 2.3 Energy Router Segment by Architecture
 - 2.3.1 AC Based Energy Router
 - 2.3.2 DC Based Energy Router
 - 2.3.3 AC DC Hybrid Energy Router
 - 2.3.4 Energy Router Sales by Architecture
 - 2.3.4.1 Global Energy Router Sales Market Share by Architecture (2021-2026)
 - 2.3.4.2 Global Energy Router Revenue and Market Share by Architecture (2021-2026)
 - 2.3.4.3 Global Energy Router Sale Price by Architecture (2021-2026)
- 2.4 Energy Router Segment by Power Rating
 - 2.4.1 Power Rating: Below 50 kW

2.4.2 Power Rating: 50-200 kW

2.4.3 Power Rating: 200-1000 kW

2.4.4 Power Rating: Above 1000 kW

2.4.5 Energy Router Sales by Power Rating

2.4.5.1 Global Energy Router Sales Market Share by Power Rating (2021-2026)

2.4.5.2 Global Energy Router Revenue and Market Share by Power Rating
(2021-2026)

2.4.5.3 Global Energy Router Sale Price by Power Rating (2021-2026)

2.5 Energy Router Segment by Application

2.5.1 Industrial

2.5.2 Commercial

2.5.3 Other

2.5.4 Energy Router Sales by Application

2.5.4.1 Global Energy Router Sale Market Share by Application (2021-2026)

2.5.4.2 Global Energy Router Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Energy Router Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Energy Router Breakdown Data by Company

3.1.1 Global Energy Router Annual Sales by Company (2021-2026)

3.1.2 Global Energy Router Sales Market Share by Company (2021-2026)

3.2 Global Energy Router Annual Revenue by Company (2021-2026)

3.2.1 Global Energy Router Revenue by Company (2021-2026)

3.2.2 Global Energy Router Revenue Market Share by Company (2021-2026)

3.3 Global Energy Router Sale Price by Company

3.4 Key Manufacturers Energy Router Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Energy Router Product Location Distribution

3.4.2 Players Energy Router Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ENERGY ROUTER BY GEOGRAPHIC REGION

4.1 World Historic Energy Router Market Size by Geographic Region (2021-2026)

- 4.1.1 Global Energy Router Annual Sales by Geographic Region (2021-2026)
- 4.1.2 Global Energy Router Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Energy Router Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Energy Router Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Energy Router Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Energy Router Sales Growth
- 4.4 APAC Energy Router Sales Growth
- 4.5 Europe Energy Router Sales Growth
- 4.6 Middle East & Africa Energy Router Sales Growth

5 AMERICAS

- 5.1 Americas Energy Router Sales by Country
 - 5.1.1 Americas Energy Router Sales by Country (2021-2026)
 - 5.1.2 Americas Energy Router Revenue by Country (2021-2026)
- 5.2 Americas Energy Router Sales by Type (2021-2026)
- 5.3 Americas Energy Router Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Energy Router Sales by Region
 - 6.1.1 APAC Energy Router Sales by Region (2021-2026)
 - 6.1.2 APAC Energy Router Revenue by Region (2021-2026)
- 6.2 APAC Energy Router Sales by Type (2021-2026)
- 6.3 APAC Energy Router Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

7.1 Europe Energy Router by Country

7.1.1 Europe Energy Router Sales by Country (2021-2026)

7.1.2 Europe Energy Router Revenue by Country (2021-2026)

7.2 Europe Energy Router Sales by Type (2021-2026)

7.3 Europe Energy Router Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Energy Router by Country

8.1.1 Middle East & Africa Energy Router Sales by Country (2021-2026)

8.1.2 Middle East & Africa Energy Router Revenue by Country (2021-2026)

8.2 Middle East & Africa Energy Router Sales by Type (2021-2026)

8.3 Middle East & Africa Energy Router Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Energy Router

10.3 Manufacturing Process Analysis of Energy Router

10.4 Industry Chain Structure of Energy Router

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Energy Router Distributors

11.3 Energy Router Customer

12 WORLD FORECAST REVIEW FOR ENERGY ROUTER BY GEOGRAPHIC REGION

12.1 Global Energy Router Market Size Forecast by Region

12.1.1 Global Energy Router Forecast by Region (2027-2032)

12.1.2 Global Energy Router Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Energy Router Forecast by Type (2027-2032)

12.7 Global Energy Router Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Hitachi

13.1.1 Hitachi Company Information

13.1.2 Hitachi Energy Router Product Portfolios and Specifications

13.1.3 Hitachi Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Hitachi Main Business Overview

13.1.5 Hitachi Latest Developments

13.2 EnerSys

13.2.1 EnerSys Company Information

13.2.2 EnerSys Energy Router Product Portfolios and Specifications

13.2.3 EnerSys Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 EnerSys Main Business Overview

13.2.5 EnerSys Latest Developments

13.3 Xtra Power Tools

13.3.1 Xtra Power Tools Company Information

13.3.2 Xtra Power Tools Energy Router Product Portfolios and Specifications

13.3.3 Xtra Power Tools Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Xtra Power Tools Main Business Overview

- 13.3.5 Xtra Power Tools Latest Developments
- 13.4 SolarEdge Technologies, Inc.
 - 13.4.1 SolarEdge Technologies, Inc. Company Information
 - 13.4.2 SolarEdge Technologies, Inc. Energy Router Product Portfolios and Specifications
 - 13.4.3 SolarEdge Technologies, Inc. Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 SolarEdge Technologies, Inc. Main Business Overview
 - 13.4.5 SolarEdge Technologies, Inc. Latest Developments
- 13.5 Magnum
 - 13.5.1 Magnum Company Information
 - 13.5.2 Magnum Energy Router Product Portfolios and Specifications
 - 13.5.3 Magnum Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Magnum Main Business Overview
 - 13.5.5 Magnum Latest Developments
- 13.6 Jiangsu Linyang Energy
 - 13.6.1 Jiangsu Linyang Energy Company Information
 - 13.6.2 Jiangsu Linyang Energy Energy Router Product Portfolios and Specifications
 - 13.6.3 Jiangsu Linyang Energy Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Jiangsu Linyang Energy Main Business Overview
 - 13.6.5 Jiangsu Linyang Energy Latest Developments
- 13.7 Qingdao Topscomm Communication
 - 13.7.1 Qingdao Topscomm Communication Company Information
 - 13.7.2 Qingdao Topscomm Communication Energy Router Product Portfolios and Specifications
 - 13.7.3 Qingdao Topscomm Communication Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Qingdao Topscomm Communication Main Business Overview
 - 13.7.5 Qingdao Topscomm Communication Latest Developments
- 13.8 Anjie IoT Science and Technology
 - 13.8.1 Anjie IoT Science and Technology Company Information
 - 13.8.2 Anjie IoT Science and Technology Energy Router Product Portfolios and Specifications
 - 13.8.3 Anjie IoT Science and Technology Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Anjie IoT Science and Technology Main Business Overview
 - 13.8.5 Anjie IoT Science and Technology Latest Developments
- 13.9 Modeling Tech

- 13.9.1 Modeling Tech Company Information
- 13.9.2 Modeling Tech Energy Router Product Portfolios and Specifications
- 13.9.3 Modeling Tech Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.9.4 Modeling Tech Main Business Overview
- 13.9.5 Modeling Tech Latest Developments
- 13.10 Shenzhen Elecod
 - 13.10.1 Shenzhen Elecod Company Information
 - 13.10.2 Shenzhen Elecod Energy Router Product Portfolios and Specifications
 - 13.10.3 Shenzhen Elecod Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Shenzhen Elecod Main Business Overview
 - 13.10.5 Shenzhen Elecod Latest Developments
- 13.11 Jingdian Ring Energy
 - 13.11.1 Jingdian Ring Energy Company Information
 - 13.11.2 Jingdian Ring Energy Energy Router Product Portfolios and Specifications
 - 13.11.3 Jingdian Ring Energy Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Jingdian Ring Energy Main Business Overview
 - 13.11.5 Jingdian Ring Energy Latest Developments
- 13.12 Shanghai Nanyu Electric
 - 13.12.1 Shanghai Nanyu Electric Company Information
 - 13.12.2 Shanghai Nanyu Electric Energy Router Product Portfolios and Specifications
 - 13.12.3 Shanghai Nanyu Electric Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Shanghai Nanyu Electric Main Business Overview
 - 13.12.5 Shanghai Nanyu Electric Latest Developments
- 13.13 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY
 - 13.13.1 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Company Information
 - 13.13.2 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Energy Router Product Portfolios and Specifications
 - 13.13.3 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Main Business Overview
 - 13.13.5 DFPOWER(BEIJING) SCIENCE AND TECHNOLOGY Latest Developments

13.14 TECHart Systems s.r.o.

13.14.1 TECHart Systems s.r.o. Company Information

13.14.2 TECHart Systems s.r.o. Energy Router Product Portfolios and Specifications

13.14.3 TECHart Systems s.r.o. Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 TECHart Systems s.r.o. Main Business Overview

13.14.5 TECHart Systems s.r.o. Latest Developments

13.15 TeknoCEA

13.15.1 TeknoCEA Company Information

13.15.2 TeknoCEA Energy Router Product Portfolios and Specifications

13.15.3 TeknoCEA Energy Router Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 TeknoCEA Main Business Overview

13.15.5 TeknoCEA Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Energy Router Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Energy Router Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Single Port Energy Router

Table 4. Major Players of Multiport Energy Router

Table 5. Global Energy Router Sales by Type (2021-2026) & (K Units)

Table 6. Global Energy Router Sales Market Share by Type (2021-2026)

Table 7. Global Energy Router Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Energy Router Revenue Market Share by Type (2021-2026)

Table 9. Global Energy Router Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of AC Based Energy Router

Table 11. Major Players of DC Based Energy Router

Table 12. Major Players of AC DC Hybrid Energy Router

Table 13. Global Energy Router Sales by Architecture (2021-2026) & (K Units)

Table 14. Global Energy Router Sales Market Share by Architecture (2021-2026)

Table 15. Global Energy Router Revenue by Architecture (2021-2026) & (\$ million)

Table 16. Global Energy Router Revenue Market Share by Architecture (2021-2026)

Table 17. Global Energy Router Sale Price by Architecture (2021-2026) & (US\$/Unit)

Table 18. Major Players of Power Rating: Below 50 kW

Table 19. Major Players of Power Rating: 50-200 kW

Table 20. Major Players of Power Rating: 200-1000 kW

Table 21. Major Players of Power Rating: Above 1000 kW

Table 22. Global Energy Router Sales by Power Rating (2021-2026) & (K Units)

Table 23. Global Energy Router Sales Market Share by Power Rating (2021-2026)

Table 24. Global Energy Router Revenue by Power Rating (2021-2026) & (\$ million)

Table 25. Global Energy Router Revenue Market Share by Power Rating (2021-2026)

Table 26. Global Energy Router Sale Price by Power Rating (2021-2026) & (US\$/Unit)

Table 27. Global Energy Router Sale by Application (2021-2026) & (K Units)

Table 28. Global Energy Router Sale Market Share by Application (2021-2026)

Table 29. Global Energy Router Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Energy Router Revenue Market Share by Application (2021-2026)

Table 31. Global Energy Router Sale Price by Application (2021-2026) & (US\$/Unit)

Table 32. Global Energy Router Sales by Company (2021-2026) & (K Units)

Table 33. Global Energy Router Sales Market Share by Company (2021-2026)

Table 34. Global Energy Router Revenue by Company (2021-2026) & (\$ millions)
Table 35. Global Energy Router Revenue Market Share by Company (2021-2026)
Table 36. Global Energy Router Sale Price by Company (2021-2026) & (US\$/Unit)
Table 37. Key Manufacturers Energy Router Producing Area Distribution and Sales Area
Table 38. Players Energy Router Products Offered
Table 39. Energy Router Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 40. New Products and Potential Entrants
Table 41. Market M&A Activity & Strategy
Table 42. Global Energy Router Sales by Geographic Region (2021-2026) & (K Units)
Table 43. Global Energy Router Sales Market Share Geographic Region (2021-2026)
Table 44. Global Energy Router Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 45. Global Energy Router Revenue Market Share by Geographic Region (2021-2026)
Table 46. Global Energy Router Sales by Country/Region (2021-2026) & (K Units)
Table 47. Global Energy Router Sales Market Share by Country/Region (2021-2026)
Table 48. Global Energy Router Revenue by Country/Region (2021-2026) & (\$ millions)
Table 49. Global Energy Router Revenue Market Share by Country/Region (2021-2026)
Table 50. Americas Energy Router Sales by Country (2021-2026) & (K Units)
Table 51. Americas Energy Router Sales Market Share by Country (2021-2026)
Table 52. Americas Energy Router Revenue by Country (2021-2026) & (\$ millions)
Table 53. Americas Energy Router Sales by Type (2021-2026) & (K Units)
Table 54. Americas Energy Router Sales by Application (2021-2026) & (K Units)
Table 55. APAC Energy Router Sales by Region (2021-2026) & (K Units)
Table 56. APAC Energy Router Sales Market Share by Region (2021-2026)
Table 57. APAC Energy Router Revenue by Region (2021-2026) & (\$ millions)
Table 58. APAC Energy Router Sales by Type (2021-2026) & (K Units)
Table 59. APAC Energy Router Sales by Application (2021-2026) & (K Units)
Table 60. Europe Energy Router Sales by Country (2021-2026) & (K Units)
Table 61. Europe Energy Router Revenue by Country (2021-2026) & (\$ millions)
Table 62. Europe Energy Router Sales by Type (2021-2026) & (K Units)
Table 63. Europe Energy Router Sales by Application (2021-2026) & (K Units)
Table 64. Middle East & Africa Energy Router Sales by Country (2021-2026) & (K Units)
Table 65. Middle East & Africa Energy Router Revenue Market Share by Country (2021-2026)
Table 66. Middle East & Africa Energy Router Sales by Type (2021-2026) & (K Units)
Table 67. Middle East & Africa Energy Router Sales by Application (2021-2026) & (K Units)

Table 68. Key Market Drivers & Growth Opportunities of Energy Router
Table 69. Key Market Challenges & Risks of Energy Router
Table 70. Key Industry Trends of Energy Router
Table 71. Energy Router Raw Material
Table 72. Key Suppliers of Raw Materials
Table 73. Energy Router Distributors List
Table 74. Energy Router Customer List
Table 75. Global Energy Router Sales Forecast by Region (2027-2032) & (K Units)
Table 76. Global Energy Router Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 77. Americas Energy Router Sales Forecast by Country (2027-2032) & (K Units)
Table 78. Americas Energy Router Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 79. APAC Energy Router Sales Forecast by Region (2027-2032) & (K Units)
Table 80. APAC Energy Router Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 81. Europe Energy Router Sales Forecast by Country (2027-2032) & (K Units)
Table 82. Europe Energy Router Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 83. Middle East & Africa Energy Router Sales Forecast by Country (2027-2032) & (K Units)
Table 84. Middle East & Africa Energy Router Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 85. Global Energy Router Sales Forecast by Type (2027-2032) & (K Units)
Table 86. Global Energy Router Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 87. Global Energy Router Sales Forecast by Application (2027-2032) & (K Units)
Table 88. Global Energy Router Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 89. Hitachi Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors
Table 90. Hitachi Energy Router Product Portfolios and Specifications
Table 91. Hitachi Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 92. Hitachi Main Business
Table 93. Hitachi Latest Developments
Table 94. EnerSys Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors
Table 95. EnerSys Energy Router Product Portfolios and Specifications
Table 96. EnerSys Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit)

and Gross Margin (2021-2026)

Table 97. EnerSys Main Business

Table 98. EnerSys Latest Developments

Table 99. Xtra Power Tools Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors

Table 100. Xtra Power Tools Energy Router Product Portfolios and Specifications

Table 101. Xtra Power Tools Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Xtra Power Tools Main Business

Table 103. Xtra Power Tools Latest Developments

Table 104. SolarEdge Technologies, Inc. Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors

Table 105. SolarEdge Technologies, Inc. Energy Router Product Portfolios and Specifications

Table 106. SolarEdge Technologies, Inc. Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. SolarEdge Technologies, Inc. Main Business

Table 108. SolarEdge Technologies, Inc. Latest Developments

Table 109. Magnum Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors

Table 110. Magnum Energy Router Product Portfolios and Specifications

Table 111. Magnum Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Magnum Main Business

Table 113. Magnum Latest Developments

Table 114. Jiangsu Linyang Energy Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors

Table 115. Jiangsu Linyang Energy Energy Router Product Portfolios and Specifications

Table 116. Jiangsu Linyang Energy Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Jiangsu Linyang Energy Main Business

Table 118. Jiangsu Linyang Energy Latest Developments

Table 119. Qingdao Topscomm Communication Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors

Table 120. Qingdao Topscomm Communication Energy Router Product Portfolios and Specifications

Table 121. Qingdao Topscomm Communication Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Qingdao Topscomm Communication Main Business

Table 123. Qingdao Topscomm Communication Latest Developments
Table 124. Anjie IoT Science and Technology Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors
Table 125. Anjie IoT Science and Technology Energy Router Product Portfolios and Specifications
Table 126. Anjie IoT Science and Technology Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 127. Anjie IoT Science and Technology Main Business
Table 128. Anjie IoT Science and Technology Latest Developments
Table 129. Modeling Tech Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors
Table 130. Modeling Tech Energy Router Product Portfolios and Specifications
Table 131. Modeling Tech Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 132. Modeling Tech Main Business
Table 133. Modeling Tech Latest Developments
Table 134. Shenzhen Elecod Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors
Table 135. Shenzhen Elecod Energy Router Product Portfolios and Specifications
Table 136. Shenzhen Elecod Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 137. Shenzhen Elecod Main Business
Table 138. Shenzhen Elecod Latest Developments
Table 139. Jingdian Ring Energy Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors
Table 140. Jingdian Ring Energy Energy Router Product Portfolios and Specifications
Table 141. Jingdian Ring Energy Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 142. Jingdian Ring Energy Main Business
Table 143. Jingdian Ring Energy Latest Developments
Table 144. Shanghai Nanyu Electric Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors
Table 145. Shanghai Nanyu Electric Energy Router Product Portfolios and Specifications
Table 146. Shanghai Nanyu Electric Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 147. Shanghai Nanyu Electric Main Business
Table 148. Shanghai Nanyu Electric Latest Developments
Table 149. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors

Table 150. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Energy Router Product Portfolios and Specifications

Table 151. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Main Business

Table 153. DFPOWER(BEIJING) SCIENCE AND

TECHNOLOGY Latest Developments

Table 154. TECHart Systems s.r.o. Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors

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

Table 156. TECHart Systems s.r.o. Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 157. TECHart Systems s.r.o. Main Business

Table 158. TECHart Systems s.r.o. Latest Developments

Table 159. TeknoCEA Basic Information, Energy Router Manufacturing Base, Sales Area and Its Competitors

Table 160. TeknoCEA Energy Router Product Portfolios and Specifications

Table 161. TeknoCEA Energy Router Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 162. TeknoCEA Main Business

Table 163. TeknoCEA Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Energy Router
- Figure 2. Energy Router Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Energy Router Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Energy Router Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Energy Router Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Energy Router Sales Market Share by Country/Region (2025)
- Figure 10. Energy Router Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Single Port Energy Router
- Figure 12. Product Picture of Multiport Energy Router
- Figure 13. Global Energy Router Sales Market Share by Type in 2026
- Figure 14. Global Energy Router Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of AC Based Energy Router
- Figure 16. Product Picture of DC Based Energy Router
- Figure 17. Product Picture of AC DC Hybrid Energy Router
- Figure 18. Global Energy Router Sales Market Share by Architecture in 2026
- Figure 19. Global Energy Router Revenue Market Share by Architecture (2021-2026)
- Figure 20. Product Picture of Power Rating: Below 50 kW
- Figure 21. Product Picture of Power Rating: 50-200 kW
- Figure 22. Product Picture of Power Rating: 200-1000 kW
- Figure 23. Product Picture of Power Rating: Above 1000 kW
- Figure 24. Global Energy Router Sales Market Share by Power Rating in 2026
- Figure 25. Global Energy Router Revenue Market Share by Power Rating (2021-2026)
- Figure 26. Energy Router Consumed in Industrial
- Figure 27. Global Energy Router Market: Industrial (2021-2026) & (K Units)
- Figure 28. Energy Router Consumed in Commercial
- Figure 29. Global Energy Router Market: Commercial (2021-2026) & (K Units)
- Figure 30. Energy Router Consumed in Other
- Figure 31. Global Energy Router Market: Other (2021-2026) & (K Units)
- Figure 32. Global Energy Router Sale Market Share by Application (2025)
- Figure 33. Global Energy Router Revenue Market Share by Application in 2026
- Figure 34. Energy Router Sales by Company in 2026 (K Units)

- Figure 35. Global Energy Router Sales Market Share by Company in 2026
- Figure 36. Energy Router Revenue by Company in 2026 (\$ millions)
- Figure 37. Global Energy Router Revenue Market Share by Company in 2026
- Figure 38. Global Energy Router Sales Market Share by Geographic Region (2021-2026)
- Figure 39. Global Energy Router Revenue Market Share by Geographic Region in 2026
- Figure 40. Americas Energy Router Sales 2021-2026 (K Units)
- Figure 41. Americas Energy Router Revenue 2021-2026 (\$ millions)
- Figure 42. APAC Energy Router Sales 2021-2026 (K Units)
- Figure 43. APAC Energy Router Revenue 2021-2026 (\$ millions)
- Figure 44. Europe Energy Router Sales 2021-2026 (K Units)
- Figure 45. Europe Energy Router Revenue 2021-2026 (\$ millions)
- Figure 46. Middle East & Africa Energy Router Sales 2021-2026 (K Units)
- Figure 47. Middle East & Africa Energy Router Revenue 2021-2026 (\$ millions)
- Figure 48. Americas Energy Router Sales Market Share by Country in 2026
- Figure 49. Americas Energy Router Revenue Market Share by Country (2021-2026)
- Figure 50. Americas Energy Router Sales Market Share by Type (2021-2026)
- Figure 51. Americas Energy Router Sales Market Share by Application (2021-2026)
- Figure 52. United States Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 53. Canada Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Mexico Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Brazil Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 56. APAC Energy Router Sales Market Share by Region in 2026
- Figure 57. APAC Energy Router Revenue Market Share by Region (2021-2026)
- Figure 58. APAC Energy Router Sales Market Share by Type (2021-2026)
- Figure 59. APAC Energy Router Sales Market Share by Application (2021-2026)
- Figure 60. China Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Japan Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 62. South Korea Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Southeast Asia Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 64. India Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Australia Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 66. China Taiwan Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Europe Energy Router Sales Market Share by Country in 2026
- Figure 68. Europe Energy Router Revenue Market Share by Country (2021-2026)
- Figure 69. Europe Energy Router Sales Market Share by Type (2021-2026)
- Figure 70. Europe Energy Router Sales Market Share by Application (2021-2026)
- Figure 71. Germany Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 72. France Energy Router Revenue Growth 2021-2026 (\$ millions)

- Figure 73. UK Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 74. Italy Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Russia Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Middle East & Africa Energy Router Sales Market Share by Country (2021-2026)
- Figure 77. Middle East & Africa Energy Router Sales Market Share by Type (2021-2026)
- Figure 78. Middle East & Africa Energy Router Sales Market Share by Application (2021-2026)
- Figure 79. Egypt Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 80. South Africa Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Israel Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Turkey Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 83. GCC Countries Energy Router Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Manufacturing Cost Structure Analysis of Energy Router in 2026
- Figure 85. Manufacturing Process Analysis of Energy Router
- Figure 86. Industry Chain Structure of Energy Router
- Figure 87. Channels of Distribution
- Figure 88. Global Energy Router Sales Market Forecast by Region (2027-2032)
- Figure 89. Global Energy Router Revenue Market Share Forecast by Region (2027-2032)
- Figure 90. Global Energy Router Sales Market Share Forecast by Type (2027-2032)
- Figure 91. Global Energy Router Revenue Market Share Forecast by Type (2027-2032)
- Figure 92. Global Energy Router Sales Market Share Forecast by Application (2027-2032)
- Figure 93. Global Energy Router Revenue Market Share Forecast by Application (2027-2032)

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