

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

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## Abstracts

The global Intelligent Energy Router market size is expected to reach \$ 432 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032). A smart energy router is an intelligent device that further integrates AI algorithms, cloud-edge collaborative control, and multi-port bidirectional power electronics technology on the basis of an energy router. It is used to achieve real-time sensing, autonomous decision-making, and optimized scheduling between distributed photovoltaic systems, energy storage, charging piles, loads, and the power grid. It possesses energy routing, status monitoring, fault diagnosis, and strategy optimization capabilities, and is widely used in park microgrids, commercial buildings, integrated photovoltaic-storage-charging systems, DC power distribution systems, data centers, critical load protection, and source-grid-load-storage collaborative scenarios. In 2025, global sales of smart energy routers were approximately 28,000 units, with an average unit price of approximately US\$9,500 and a capacity utilization rate of approximately 70%. The upstream mainly consists of SiC power modules, IGBTs and drive isolation devices, magnetic components, capacitors, resistors, sampling and metering sensors, industrial-grade control motherboards, communication modules, heat dissipation and structural components, as well as AI control software and EMS algorithm suppliers. The downstream includes microgrid system integrators, energy storage system integrators, photovoltaic and charging infrastructure integrators, data center and large park operators, and commercial real estate and public building owners. The market comprises grid-side distribution automation contractors and new energy investment operators. The industry's gross profit margin is approximately 34%. In terms of product cost structure, power devices and modules account for about 30%, magnetic devices, filters, and capacitors about 15%, heat dissipation and structural components about 10%, control boards, communication and metering sensors about 16%, software and AI algorithm R&D amortization about 12%, testing, certification, and grid connection

adaptation about 7%, assembly and manufacturing costs about 5%, and logistics, channel, and management costs about 5%. Demand lists primarily include integrated generation-grid-load-storage systems in industrial parks, DC distribution and flexible interconnection, integrated photovoltaic-storage-charging sites, data center and critical load assurance, peak-valley arbitrage and demand-side response, and multi-energy complementary dispatch. Downstream customers include large industrial park and data center operators, commercial real estate groups, energy storage and charging station investment operators, microgrid EPC contractors, and grid-side distribution automation integrators. Business opportunities stem from the driving forces of new power systems and distributed new energy consumption policies, the efficiency and size advantages of SiC devices and high-power-density topologies, AI and edge computing-enabled intelligent energy dispatch, and user demands for lower overall energy costs and higher power supply reliability. The demand for a smarter operation and maintenance experience is changing.

Smart energy routers are evolving from customized engineering devices to platform-based, intelligent core nodes. The focus of competition is shifting from hardware efficiency to algorithm capabilities, system-level scheduling, and operation and maintenance platform ecosystems. With the expansion of distributed new energy and energy storage and the advancement of new power system construction, manufacturers with high-power-density power electronics platforms, strong AI scheduling capabilities, and deep compatibility with the power grid and EMS will form significant technological and solution barriers in scenarios such as parks, buildings, and data centers, and obtain more stable long-term project orders.

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

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

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

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

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

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

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

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

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

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

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

This report profiles key players in the global Intelligent 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 Intelligent 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 Intelligent Energy Router Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Intelligent Energy Router Market, Segmentation by Type:

Single Port Energy Router

Multiport Energy Router

Global Intelligent Energy Router Market, Segmentation by Maximum DC Power:

Below 100 kW

100-120 kW

Above 120 kW

Global Intelligent Energy Router Market, Segmentation by Voltage Regulation Accuracy:

Less Than or Equal to 1%

Above 1%

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

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

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