

Global New Energy Vehicle IGBT Market Research Report 2026(Status and Outlook)

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Abstracts

IGBT (Insulated Gate Bipolar Transistor) in new energy vehicles is a key power device used to control the electric drive system of electric vehicles. As a power semiconductor device, IGBT can achieve efficient power control and conversion in the electric drive system of electric vehicles. The main function of IGBT is to control the flow of current and voltage in the electric drive system of electric vehicles, thereby achieving speed control and torque output of the electric motor. It is often used in inverters in electric vehicles to convert DC power provided by the battery into AC power to drive the electric motor. The performance of IGBT directly affects the power performance, energy efficiency and stability of electric vehicles.

The global New Energy Vehicle IGBT market size was estimated at USD 4850.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 21.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global New Energy Vehicle IGBT market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global New

Energy Vehicle IGBT market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the New Energy Vehicle IGBT market.

Global New Energy Vehicle IGBT Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Mitsubishi Electric
Infineon Technologies (IR)
Fuji Electric
Semikron
Hitachi
ON Semiconductor (Fairchild)
ABB
IXYS Corporation
Starpower Semiconductor
CRRC
Vishay
MacMic
Silan
BYD

STMicroelectronics
Littelfuse
Rohm Semiconductor

Market Segmentation (by Type)

Below 600V
600-1200V
More than 1200Vy

Market Segmentation (by Application)

Motor Controller
On-Board Charger (OBC)
Car Air Conditioner
DC Charging Station

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the New Energy Vehicle IGBT Market
Overview of the regional outlook of the New Energy Vehicle IGBT Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the New Energy Vehicle IGBT Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of New Energy Vehicle IGBT, their output value, profit level, regional supply, production capacity layout, etc. from the

supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of New Energy Vehicle IGBT

1.2 Key Market Segments

1.2.1 New Energy Vehicle IGBT Segment by Type

1.2.2 New Energy Vehicle IGBT Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 NEW ENERGY VEHICLE IGBT MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global New Energy Vehicle IGBT Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global New Energy Vehicle IGBT Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 NEW ENERGY VEHICLE IGBT MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global New Energy Vehicle IGBT Product Life Cycle

3.3 Global New Energy Vehicle IGBT Sales by Manufacturers (2020-2025)

3.4 Global New Energy Vehicle IGBT Revenue Market Share by Manufacturers (2020-2025)

3.5 New Energy Vehicle IGBT Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global New Energy Vehicle IGBT Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 New Energy Vehicle IGBT Market Competitive Situation and Trends

3.8.1 New Energy Vehicle IGBT Market Concentration Rate

3.8.2 Global 5 and 10 Largest New Energy Vehicle IGBT Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 NEW ENERGY VEHICLE IGBT INDUSTRY CHAIN ANALYSIS

4.1 New Energy Vehicle IGBT Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF NEW ENERGY VEHICLE IGBT MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global New Energy Vehicle IGBT Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to New Energy Vehicle IGBT Market

5.7 ESG Ratings of Leading Companies

6 NEW ENERGY VEHICLE IGBT MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global New Energy Vehicle IGBT Sales Market Share by Type (2020-2025)

6.3 Global New Energy Vehicle IGBT Market Size by Type (2020-2025)

6.4 Global New Energy Vehicle IGBT Price by Type (2020-2025)

7 NEW ENERGY VEHICLE IGBT MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global New Energy Vehicle IGBT Market Sales by Application (2020-2025)
- 7.3 Global New Energy Vehicle IGBT Market Size (M USD) by Application (2020-2025)
- 7.4 Global New Energy Vehicle IGBT Sales Growth Rate by Application (2020-2025)

8 NEW ENERGY VEHICLE IGBT MARKET SALES BY REGION

- 8.1 Global New Energy Vehicle IGBT Sales by Region
 - 8.1.1 Global New Energy Vehicle IGBT Sales by Region
 - 8.1.2 Global New Energy Vehicle IGBT Sales Market Share by Region
- 8.2 Global New Energy Vehicle IGBT Market Size by Region
 - 8.2.1 Global New Energy Vehicle IGBT Market Size by Region
 - 8.2.2 Global New Energy Vehicle IGBT Market Size by Region
- 8.3 North America
 - 8.3.1 North America New Energy Vehicle IGBT Sales by Country
 - 8.3.2 North America New Energy Vehicle IGBT Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe New Energy Vehicle IGBT Sales by Country
 - 8.4.2 Europe New Energy Vehicle IGBT Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific New Energy Vehicle IGBT Sales by Region
 - 8.5.2 Asia Pacific New Energy Vehicle IGBT Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America New Energy Vehicle IGBT Sales by Country
 - 8.6.2 South America New Energy Vehicle IGBT Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa New Energy Vehicle IGBT Sales by Region

8.7.2 Middle East and Africa New Energy Vehicle IGBT Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 NEW ENERGY VEHICLE IGBT MARKET PRODUCTION BY REGION

9.1 Global Production of New Energy Vehicle IGBT by Region(2020-2025)

9.2 Global New Energy Vehicle IGBT Revenue Market Share by Region (2020-2025)

9.3 Global New Energy Vehicle IGBT Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America New Energy Vehicle IGBT Production

9.4.1 North America New Energy Vehicle IGBT Production Growth Rate (2020-2025)

9.4.2 North America New Energy Vehicle IGBT Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe New Energy Vehicle IGBT Production

9.5.1 Europe New Energy Vehicle IGBT Production Growth Rate (2020-2025)

9.5.2 Europe New Energy Vehicle IGBT Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan New Energy Vehicle IGBT Production (2020-2025)

9.6.1 Japan New Energy Vehicle IGBT Production Growth Rate (2020-2025)

9.6.2 Japan New Energy Vehicle IGBT Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China New Energy Vehicle IGBT Production (2020-2025)

9.7.1 China New Energy Vehicle IGBT Production Growth Rate (2020-2025)

9.7.2 China New Energy Vehicle IGBT Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Mitsubishi Electric

10.1.1 Mitsubishi Electric Basic Information

- 10.1.2 Mitsubishi Electric New Energy Vehicle IGBT Product Overview
- 10.1.3 Mitsubishi Electric New Energy Vehicle IGBT Product Market Performance
- 10.1.4 Mitsubishi Electric Business Overview
- 10.1.5 Mitsubishi Electric SWOT Analysis
- 10.1.6 Mitsubishi Electric Recent Developments
- 10.2 Infineon Technologies (IR)
 - 10.2.1 Infineon Technologies (IR) Basic Information
 - 10.2.2 Infineon Technologies (IR) New Energy Vehicle IGBT Product Overview
 - 10.2.3 Infineon Technologies (IR) New Energy Vehicle IGBT Product Market Performance
 - 10.2.4 Infineon Technologies (IR) Business Overview
 - 10.2.5 Infineon Technologies (IR) SWOT Analysis
 - 10.2.6 Infineon Technologies (IR) Recent Developments
- 10.3 Fuji Electric
 - 10.3.1 Fuji Electric Basic Information
 - 10.3.2 Fuji Electric New Energy Vehicle IGBT Product Overview
 - 10.3.3 Fuji Electric New Energy Vehicle IGBT Product Market Performance
 - 10.3.4 Fuji Electric Business Overview
 - 10.3.5 Fuji Electric SWOT Analysis
 - 10.3.6 Fuji Electric Recent Developments
- 10.4 Semikron
 - 10.4.1 Semikron Basic Information
 - 10.4.2 Semikron New Energy Vehicle IGBT Product Overview
 - 10.4.3 Semikron New Energy Vehicle IGBT Product Market Performance
 - 10.4.4 Semikron Business Overview
 - 10.4.5 Semikron Recent Developments
- 10.5 Hitachi
 - 10.5.1 Hitachi Basic Information
 - 10.5.2 Hitachi New Energy Vehicle IGBT Product Overview
 - 10.5.3 Hitachi New Energy Vehicle IGBT Product Market Performance
 - 10.5.4 Hitachi Business Overview
 - 10.5.5 Hitachi Recent Developments
- 10.6 ON Semiconductor (Fairchild)
 - 10.6.1 ON Semiconductor (Fairchild) Basic Information
 - 10.6.2 ON Semiconductor (Fairchild) New Energy Vehicle IGBT Product Overview
 - 10.6.3 ON Semiconductor (Fairchild) New Energy Vehicle IGBT Product Market Performance
 - 10.6.4 ON Semiconductor (Fairchild) Business Overview
 - 10.6.5 ON Semiconductor (Fairchild) Recent Developments

10.7 ABB

10.7.1 ABB Basic Information

10.7.2 ABB New Energy Vehicle IGBT Product Overview

10.7.3 ABB New Energy Vehicle IGBT Product Market Performance

10.7.4 ABB Business Overview

10.7.5 ABB Recent Developments

10.8 IXYS Corporation

10.8.1 IXYS Corporation Basic Information

10.8.2 IXYS Corporation New Energy Vehicle IGBT Product Overview

10.8.3 IXYS Corporation New Energy Vehicle IGBT Product Market Performance

10.8.4 IXYS Corporation Business Overview

10.8.5 IXYS Corporation Recent Developments

10.9 Starpower Semiconductor

10.9.1 Starpower Semiconductor Basic Information

10.9.2 Starpower Semiconductor New Energy Vehicle IGBT Product Overview

10.9.3 Starpower Semiconductor New Energy Vehicle IGBT Product Market

Performance

10.9.4 Starpower Semiconductor Business Overview

10.9.5 Starpower Semiconductor Recent Developments

10.10 CRRC

10.10.1 CRRC Basic Information

10.10.2 CRRC New Energy Vehicle IGBT Product Overview

10.10.3 CRRC New Energy Vehicle IGBT Product Market Performance

10.10.4 CRRC Business Overview

10.10.5 CRRC Recent Developments

10.11 Vishay

10.11.1 Vishay Basic Information

10.11.2 Vishay New Energy Vehicle IGBT Product Overview

10.11.3 Vishay New Energy Vehicle IGBT Product Market Performance

10.11.4 Vishay Business Overview

10.11.5 Vishay Recent Developments

10.12 MacMic

10.12.1 MacMic Basic Information

10.12.2 MacMic New Energy Vehicle IGBT Product Overview

10.12.3 MacMic New Energy Vehicle IGBT Product Market Performance

10.12.4 MacMic Business Overview

10.12.5 MacMic Recent Developments

10.13 Silan

10.13.1 Silan Basic Information

- 10.13.2 Silan New Energy Vehicle IGBT Product Overview
- 10.13.3 Silan New Energy Vehicle IGBT Product Market Performance
- 10.13.4 Silan Business Overview
- 10.13.5 Silan Recent Developments
- 10.14 BYD
 - 10.14.1 BYD Basic Information
 - 10.14.2 BYD New Energy Vehicle IGBT Product Overview
 - 10.14.3 BYD New Energy Vehicle IGBT Product Market Performance
 - 10.14.4 BYD Business Overview
 - 10.14.5 BYD Recent Developments
- 10.15 STMicroelectronics
 - 10.15.1 STMicroelectronics Basic Information
 - 10.15.2 STMicroelectronics New Energy Vehicle IGBT Product Overview
 - 10.15.3 STMicroelectronics New Energy Vehicle IGBT Product Market Performance
 - 10.15.4 STMicroelectronics Business Overview
 - 10.15.5 STMicroelectronics Recent Developments
- 10.16 Littelfuse
 - 10.16.1 Littelfuse Basic Information
 - 10.16.2 Littelfuse New Energy Vehicle IGBT Product Overview
 - 10.16.3 Littelfuse New Energy Vehicle IGBT Product Market Performance
 - 10.16.4 Littelfuse Business Overview
 - 10.16.5 Littelfuse Recent Developments
- 10.17 Rohm Semiconductor
 - 10.17.1 Rohm Semiconductor Basic Information
 - 10.17.2 Rohm Semiconductor New Energy Vehicle IGBT Product Overview
 - 10.17.3 Rohm Semiconductor New Energy Vehicle IGBT Product Market Performance
 - 10.17.4 Rohm Semiconductor Business Overview
 - 10.17.5 Rohm Semiconductor Recent Developments

11 NEW ENERGY VEHICLE IGBT MARKET FORECAST BY REGION

- 11.1 Global New Energy Vehicle IGBT Market Size Forecast
- 11.2 Global New Energy Vehicle IGBT Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe New Energy Vehicle IGBT Market Size Forecast by Country
 - 11.2.3 Asia Pacific New Energy Vehicle IGBT Market Size Forecast by Region
 - 11.2.4 South America New Energy Vehicle IGBT Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of New Energy Vehicle IGBT by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global New Energy Vehicle IGBT Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of New Energy Vehicle IGBT by Type (2026-2035)

12.1.2 Global New Energy Vehicle IGBT Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of New Energy Vehicle IGBT by Type (2026-2035)

12.2 Global New Energy Vehicle IGBT Market Forecast by Application (2026-2035)

12.2.1 Global New Energy Vehicle IGBT Sales (K Units) Forecast by Application

12.2.2 Global New Energy Vehicle IGBT Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global New Energy Vehicle IGBT Market Size by Type (M USD)

Table 4. Global New Energy Vehicle IGBT Market Size by Application

Table 5. New Energy Vehicle IGBT Market Size Comparison by Region (M USD)

Table 6. Global New Energy Vehicle IGBT Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global New Energy Vehicle IGBT Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global New Energy Vehicle IGBT Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global New Energy Vehicle IGBT Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in New Energy Vehicle IGBT as of 2025)

Table 11. Global Market New Energy Vehicle IGBT Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global New Energy Vehicle IGBT Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. New Energy Vehicle IGBT Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global New Energy Vehicle IGBT Sales by Type (K Units)

Table 27. Global New Energy Vehicle IGBT Market Size by Type (M USD)

Table 28. Global New Energy Vehicle IGBT Sales (K Units) by Type (2020-2025)
Table 29. Global New Energy Vehicle IGBT Sales Market Share by Type (2020-2025)
Table 30. Global New Energy Vehicle IGBT Market Size (M USD) by Type (2020-2025)
Table 31. Global New Energy Vehicle IGBT Market Share by Type (2020-2025)
Table 32. Global New Energy Vehicle IGBT Price (USD/Unit) by Type (2020-2025)
Table 33. Global New Energy Vehicle IGBT Sales (K Units) by Application
Table 34. Global New Energy Vehicle IGBT Market Size by Application
Table 35. Global New Energy Vehicle IGBT Sales by Application (2020-2025) & (K Units)
Table 36. Global New Energy Vehicle IGBT Sales Market Share by Application (2020-2025)
Table 37. Global New Energy Vehicle IGBT Market Size by Application (2020-2025) & (M USD)
Table 38. Global New Energy Vehicle IGBT Market Share by Application (2020-2025)
Table 39. Global New Energy Vehicle IGBT Sales Growth Rate by Application (2020-2025)
Table 40. Global New Energy Vehicle IGBT Sales by Region (2020-2025) & (K Units)
Table 41. Global New Energy Vehicle IGBT Sales Market Share by Region (2020-2025)
Table 42. Global New Energy Vehicle IGBT Market Size by Region (2020-2025) & (M USD)
Table 43. Global New Energy Vehicle IGBT Market Size by Region (2020-2025)
Table 44. North America New Energy Vehicle IGBT Sales by Country (2020-2025) & (K Units)
Table 45. North America New Energy Vehicle IGBT Market Size by Country (2020-2025) & (M USD)
Table 46. Europe New Energy Vehicle IGBT Sales by Country (2020-2025) & (K Units)
Table 47. Europe New Energy Vehicle IGBT Market Size by Country (2020-2025) & (M USD)
Table 48. Asia Pacific New Energy Vehicle IGBT Sales by Region (2020-2025) & (K Units)
Table 49. Asia Pacific New Energy Vehicle IGBT Market Size by Region (2020-2025) & (M USD)
Table 50. South America New Energy Vehicle IGBT Sales by Country (2020-2025) & (K Units)
Table 51. South America New Energy Vehicle IGBT Market Size by Country (2020-2025) & (M USD)
Table 52. Middle East and Africa New Energy Vehicle IGBT Sales by Region (2020-2025) & (K Units)
Table 53. Middle East and Africa New Energy Vehicle IGBT Market Size by Region

(2020-2025) & (M USD)

Table 54. Global New Energy Vehicle IGBT Production (K Units) by Region(2020-2025)

Table 55. Global New Energy Vehicle IGBT Revenue (US\$ Million) by Region
(2020-2025)

Table 56. Global New Energy Vehicle IGBT Revenue Market Share by Region
(2020-2025)

Table 57. Global New Energy Vehicle IGBT Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America New Energy Vehicle IGBT Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe New Energy Vehicle IGBT Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan New Energy Vehicle IGBT Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China New Energy Vehicle IGBT Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Mitsubishi Electric Basic Information

Table 63. Mitsubishi Electric New Energy Vehicle IGBT Product Overview

Table 64. Mitsubishi Electric New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Mitsubishi Electric Business Overview

Table 66. Mitsubishi Electric SWOT Analysis

Table 67. Mitsubishi Electric Recent Developments

Table 68. Infineon Technologies (IR) Basic Information

Table 69. Infineon Technologies (IR) New Energy Vehicle IGBT Product Overview

Table 70. Infineon Technologies (IR) New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Infineon Technologies (IR) Business Overview

Table 72. Infineon Technologies (IR) SWOT Analysis

Table 73. Infineon Technologies (IR) Recent Developments

Table 74. Fuji Electric Basic Information

Table 75. Fuji Electric New Energy Vehicle IGBT Product Overview

Table 76. Fuji Electric New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Fuji Electric Business Overview

Table 78. Fuji Electric SWOT Analysis

Table 79. Fuji Electric Recent Developments

Table 80. Semikron Basic Information

Table 81. Semikron New Energy Vehicle IGBT Product Overview

Table 82. Semikron New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Semikron Business Overview

Table 84. Semikron Recent Developments

Table 85. Hitachi Basic Information

Table 86. Hitachi New Energy Vehicle IGBT Product Overview

Table 87. Hitachi New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Hitachi Business Overview

Table 89. Hitachi Recent Developments

Table 90. ON Semiconductor (Fairchild) Basic Information

Table 91. ON Semiconductor (Fairchild) New Energy Vehicle IGBT Product Overview

Table 92. ON Semiconductor (Fairchild) New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. ON Semiconductor (Fairchild) Business Overview

Table 94. ON Semiconductor (Fairchild) Recent Developments

Table 95. ABB Basic Information

Table 96. ABB New Energy Vehicle IGBT Product Overview

Table 97. ABB New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. ABB Business Overview

Table 99. ABB Recent Developments

Table 100. IXYS Corporation Basic Information

Table 101. IXYS Corporation New Energy Vehicle IGBT Product Overview

Table 102. IXYS Corporation New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. IXYS Corporation Business Overview

Table 104. IXYS Corporation Recent Developments

Table 105. Starpower Semiconductor Basic Information

Table 106. Starpower Semiconductor New Energy Vehicle IGBT Product Overview

Table 107. Starpower Semiconductor New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Starpower Semiconductor Business Overview

Table 109. Starpower Semiconductor Recent Developments

Table 110. CRRC Basic Information

Table 111. CRRC New Energy Vehicle IGBT Product Overview

Table 112. CRRC New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. CRRC Business Overview

Table 114. CRRC Recent Developments

Table 115. Vishay Basic Information

Table 116. Vishay New Energy Vehicle IGBT Product Overview

Table 117. Vishay New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Vishay Business Overview

Table 119. Vishay Recent Developments

Table 120. MacMic Basic Information

Table 121. MacMic New Energy Vehicle IGBT Product Overview

Table 122. MacMic New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. MacMic Business Overview

Table 124. MacMic Recent Developments

Table 125. Silan Basic Information

Table 126. Silan New Energy Vehicle IGBT Product Overview

Table 127. Silan New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 128. Silan Business Overview

Table 129. Silan Recent Developments

Table 130. BYD Basic Information

Table 131. BYD New Energy Vehicle IGBT Product Overview

Table 132. BYD New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 133. BYD Business Overview

Table 134. BYD Recent Developments

Table 135. STMicroelectronics Basic Information

Table 136. STMicroelectronics New Energy Vehicle IGBT Product Overview

Table 137. STMicroelectronics New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 138. STMicroelectronics Business Overview

Table 139. STMicroelectronics Recent Developments

Table 140. Littelfuse Basic Information

Table 141. Littelfuse New Energy Vehicle IGBT Product Overview

Table 142. Littelfuse New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. Littelfuse Business Overview

Table 144. Littelfuse Recent Developments

Table 145. Rohm Semiconductor Basic Information

Table 146. Rohm Semiconductor New Energy Vehicle IGBT Product Overview

Table 147. Rohm Semiconductor New Energy Vehicle IGBT Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 148. Rohm Semiconductor Business Overview

Table 149. Rohm Semiconductor Recent Developments

Table 150. Global New Energy Vehicle IGBT Sales Forecast by Region (2026-2035) & (K Units)

Table 151. Global New Energy Vehicle IGBT Market Size Forecast by Region (2026-2035) & (M USD)

Table 152. North America New Energy Vehicle IGBT Sales Forecast by Country (2026-2035) & (K Units)

Table 153. North America New Energy Vehicle IGBT Market Size Forecast by Country (2026-2035) & (M USD)

Table 154. Europe New Energy Vehicle IGBT Sales Forecast by Country (2026-2035) & (K Units)

Table 155. Europe New Energy Vehicle IGBT Market Size Forecast by Country (2026-2035) & (M USD)

Table 156. Asia Pacific New Energy Vehicle IGBT Sales Forecast by Region (2026-2035) & (K Units)

Table 157. Asia Pacific New Energy Vehicle IGBT Market Size Forecast by Region (2026-2035) & (M USD)

Table 158. South America New Energy Vehicle IGBT Sales Forecast by Country (2026-2035) & (K Units)

Table 159. South America New Energy Vehicle IGBT Market Size Forecast by Country (2026-2035) & (M USD)

Table 160. Middle East and Africa New Energy Vehicle IGBT Sales Forecast by Country (2026-2035) & (Units)

Table 161. Middle East and Africa New Energy Vehicle IGBT Market Size Forecast by Country (2026-2035) & (M USD)

Table 162. Global New Energy Vehicle IGBT Sales Forecast by Type (2026-2035) & (K Units)

Table 163. Global New Energy Vehicle IGBT Market Size Forecast by Type (2026-2035) & (M USD)

Table 164. Global New Energy Vehicle IGBT Price Forecast by Type (2026-2035) & (USD/Unit)

Table 165. Global New Energy Vehicle IGBT Sales (K Units) Forecast by Application (2026-2035)

Table 166. Global New Energy Vehicle IGBT Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of New Energy Vehicle IGBT
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global New Energy Vehicle IGBT Market Size (M USD), 2025-2035
- Figure 5. Global New Energy Vehicle IGBT Market Size (M USD) (2020-2035)
- Figure 6. Global New Energy Vehicle IGBT Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. New Energy Vehicle IGBT Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global New Energy Vehicle IGBT Product Life Cycle
- Figure 13. New Energy Vehicle IGBT Sales Share by Manufacturers in 2025
- Figure 14. Global New Energy Vehicle IGBT Revenue Share by Manufacturers in 2025
- Figure 15. New Energy Vehicle IGBT Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market New Energy Vehicle IGBT Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by New Energy Vehicle IGBT Revenue in 2025
- Figure 18. Industry Chain Map of New Energy Vehicle IGBT
- Figure 19. Global New Energy Vehicle IGBT Market PEST Analysis
- Figure 20. Global New Energy Vehicle IGBT Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global New Energy Vehicle IGBT Market Share by Type
- Figure 27. Sales Market Share of New Energy Vehicle IGBT by Type (2020-2025)
- Figure 28. Sales Market Share of New Energy Vehicle IGBT by Type in 2025
- Figure 29. Market Share of New Energy Vehicle IGBT by Type (2020-2025)
- Figure 30. Market Share of New Energy Vehicle IGBT by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global New Energy Vehicle IGBT Market Share by Application

Figure 33. Global New Energy Vehicle IGBT Sales Market Share by Application (2020-2025)

Figure 34. Global New Energy Vehicle IGBT Sales Market Share by Application in 2025

Figure 35. Global New Energy Vehicle IGBT Market Share by Application (2020-2025)

Figure 36. Global New Energy Vehicle IGBT Market Share by Application in 2025

Figure 37. Global New Energy Vehicle IGBT Sales Growth Rate by Application (2020-2025)

Figure 38. Global New Energy Vehicle IGBT Sales Market Share by Region (2020-2025)

Figure 39. Global New Energy Vehicle IGBT Market Size by Region (2020-2025)

Figure 40. North America New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America New Energy Vehicle IGBT Sales Market Share by Country in 2024

Figure 43. North America New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America New Energy Vehicle IGBT Market Size by Country in 2024

Figure 45. U.S. New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada New Energy Vehicle IGBT Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada New Energy Vehicle IGBT Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico New Energy Vehicle IGBT Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico New Energy Vehicle IGBT Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe New Energy Vehicle IGBT Sales Market Share by Country in 2024

Figure 53. Europe New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe New Energy Vehicle IGBT Market Size by Country in 2024

Figure 55. Germany New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific New Energy Vehicle IGBT Sales and Growth Rate (K Units)

Figure 66. Asia Pacific New Energy Vehicle IGBT Sales Market Share by Region in 2024

Figure 67. Asia Pacific New Energy Vehicle IGBT Market Size by Region in 2024

Figure 68. China New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia New Energy Vehicle IGBT Sales and Growth Rate

(2020-2025) & (K Units)

Figure 77. Southeast Asia New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America New Energy Vehicle IGBT Sales and Growth Rate (K Units)

Figure 79. South America New Energy Vehicle IGBT Sales Market Share by Country in 2024

Figure 80. South America New Energy Vehicle IGBT Market Size and Growth Rate (M USD)

Figure 81. South America New Energy Vehicle IGBT Market Size by Country in 2024

Figure 82. Brazil New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa New Energy Vehicle IGBT Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa New Energy Vehicle IGBT Sales Market Share by Region in 2024

Figure 90. Middle East and Africa New Energy Vehicle IGBT Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa New Energy Vehicle IGBT Market Size by Region in 2024

Figure 92. Saudi Arabia New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa New Energy Vehicle IGBT Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa New Energy Vehicle IGBT Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global New Energy Vehicle IGBT Production Market Share by Region (2020-2025)

Figure 103. North America New Energy Vehicle IGBT Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe New Energy Vehicle IGBT Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan New Energy Vehicle IGBT Production (K Units) Growth Rate (2020-2025)

Figure 106. China New Energy Vehicle IGBT Production (K Units) Growth Rate (2020-2025)

Figure 107. Global New Energy Vehicle IGBT Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global New Energy Vehicle IGBT Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global New Energy Vehicle IGBT Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global New Energy Vehicle IGBT Market Share Forecast by Type (2026-2035)

Figure 111. Global New Energy Vehicle IGBT Sales Forecast by Application (2026-2035)

Figure 112. Global New Energy Vehicle IGBT Market Share Forecast by Application (2026-2035)

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