

Global Bipolar Plates Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Bipolar Plates market size was valued at USD 478.6 million in 2023 and is forecast to a readjusted size of USD 1838.4 million by 2030 with a CAGR of 21.2% during review period.

Bipolar Plates are one of the core components of the fuel cells, which accounts for a large portion of the quality and cost of the battery pack. It is responsible for the functions of uniform distribution of reaction gas, conduction of current, and series of single cells. In order to meet these functional requirements, the ideal bipolar plate should have high thermal/electrical conductivity, corrosion resistance, low density, good mechanical properties, low cost, and easy processing. However, the current bipolar plates have problems such as poor corrosion resistance and conductivity, high production costs and short lifespan. Realizing the reasonable matching of the conductivity and corrosion resistance of the bipolar plate material, that is, achieving high corrosion resistance under the premise of ensuring reasonable conductivity, ensuring the service life of the entire system, is one of the key steps in the commercialization of fuel cells.

Global core bipolar plates manufacturers include Dana and Cell Impact. The top 5 companies hold a share about 45%. China is the largest market, with a share about 37%. In terms of product, Graphite is the largest segment, with a share about 60%. And in terms of application, the largest application is Proton Exchange Membrane Fuel Cells (PEMFC), followed by Solid Oxide Fuel Cells (SOFC).

The Global Info Research report includes an overview of the development of the Bipolar Plates industry chain, the market status of Proton Exchange Membrane Fuel Cells (PEMFC) (Graphite, Metal), Solid Oxide Fuel Cells (SOFC) (Graphite, Metal), and key enterprises in developed and developing market, and analysed the cutting-edge

technology, patent, hot applications and market trends of Bipolar Plates.

Regionally, the report analyzes the Bipolar Plates markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Bipolar Plates market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Bipolar Plates market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Bipolar Plates industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Pcs), revenue generated, and market share of different by Type (e.g., Graphite, Metal).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Bipolar Plates market.

Regional Analysis: The report involves examining the Bipolar Plates market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Bipolar Plates market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Bipolar Plates:

Company Analysis: Report covers individual Bipolar Plates manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial

performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Bipolar Plates. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Proton Exchange Membrane Fuel Cells (PEMFC), Solid Oxide Fuel Cells (SOFC)).

Technology Analysis: Report covers specific technologies relevant to Bipolar Plates. It assesses the current state, advancements, and potential future developments in Bipolar Plates areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Bipolar Plates market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Bipolar Plates market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Graphite

Metal

Composite

Market segment by Application

Proton Exchange Membrane Fuel Cells (PEMFC)

Solid Oxide Fuel Cells (SOFC)

Molten Carbonate Fuel Cells (MCFC)

Phosphoric Acid Fuel Cells (PAFC)

Others

Major players covered

Dana

Cell Impact

Schunk Group

Nisshinbo

FJ Composite

Ballard

ElringKlinger

VinaTech (Ace Creation)

LEADTECH International

SGL Carbon

Shanghai Hongfeng

Dongguan Jiecheng Graphite Products

Shanghai Hongjun

Shanghai Shenli

Shenzhen Jiayu

Anhui Mingtian

Guangdong Nation-Synergy

Hunan Zenpon

Shanghai Yoogole

Shanghai Zhizhen

Zhejiang Harog

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bipolar Plates product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bipolar Plates, with price, sales, revenue and global market share of Bipolar Plates from 2019 to 2024.

Chapter 3, the Bipolar Plates competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bipolar Plates breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Bipolar Plates market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bipolar Plates.

Chapter 14 and 15, to describe Bipolar Plates sales channel, distributors, customers, research findings and conclusion.

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