

# Global Activated Carbons for Supercapacitors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Activated Carbons for Supercapacitors market size was valued at US\$ 188 million in 2025 and is forecast to a readjusted size of US\$ 564 million by 2032 with a CAGR of 17.7% during review period.

Activated Carbons for Supercapacitors are carbon-based functional materials specifically designed for high-performance supercapacitor electrodes. They possess extremely high specific surface area, well-developed microporous and mesoporous structures, low ash content, good electrical conductivity, and stable physicochemical properties. They can significantly improve the ion adsorption/desorption efficiency of electrically double-layer capacitors (EDLCs) and lithium-ion capacitors (LICs), achieving high power density, rapid charge-discharge, and ultra-long cycle life, ranging from approximately 200,000 to 1 million cycles. The amount of electricity stored and released over its lifespan is approximately 6–10 times that of lithium-ion batteries of equivalent capacity. Supercapacitor carbon accounts for approximately 90% of the raw materials for capacitor electrodes and 30%–50% of the production cost, making it a key material for realizing commercial high-power energy storage. Its high purity, ultrafine particles, reasonable pore structure, and moderate apparent density make it irreplaceable in the manufacture of supercapacitors, high-performance batteries, and heavy metal recycling carriers. In recent years, with the rapid growth in demand from new energy vehicles, AI computing power, renewable energy grids, and industrial energy storage, the market for supercapacitor carbon has ushered in new expansion opportunities.

In 2025, the global production of activated carbons for supercapacitors is estimated at 6,375 tons, with a unit price of approximately US\$28,650 per ton and a gross profit margin of approximately 30%.

As a core material for high-performance supercapacitor electrodes, activated carbon for supercapacitors has experienced rapid development in recent years due to global energy structure transformation and energy storage system upgrades. Its high specific surface area, well-developed pore structure, and excellent conductivity enable it to achieve high power density, rapid charge-discharge, and ultra-long cycle life in electric double-layer capacitors and lithium-ion capacitors. With the rapid growth of new energy vehicles, China's new energy vehicle sales are expected to reach approximately 19 million units in 2026, driving a continuous increase in demand for supercapacitors in electric braking energy recovery and transient power compensation. The exponential explosion in AI computing power demand has led to significant growth in computing power energy storage demand, making supercapacitors crucial for ensuring the continuity and reliability of power supply to high-performance data centers. Furthermore, applications in industrial manufacturing, rail transportation, and renewable energy storage have further highlighted the strategic importance of activated carbon for supercapacitors in the global energy storage market. In addition, the cycle life of supercapacitors far exceeds that of traditional lithium batteries, exhibiting excellent performance in repeated charge-discharge and high-power transient scenarios, further strengthening the core value of the material.

Despite the enormous market potential, supply is constrained by limitations in raw materials (coconut shells, wood-based carbon sources) and production processes, making it difficult for actual shipments to quickly meet demand. This supply-demand imbalance is likely to persist in the short term. Downstream applications are becoming increasingly diversified, including new energy vehicles, industrial energy storage, rail transportation, data centers, and AI computing power. This is driving companies to improve production capacity and material performance, while also placing higher demands on cost control, cycle stability, and product consistency. Future market development will depend on technological innovation, capacity expansion, and the continued expansion of downstream applications.

This report is a detailed and comprehensive analysis for global Activated Carbons for Supercapacitors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global Activated Carbons for Supercapacitors market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Activated Carbons for Supercapacitors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Activated Carbons for Supercapacitors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Activated Carbons for Supercapacitors market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

## The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Activated Carbons for Supercapacitors
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Activated Carbons for Supercapacitors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Calgon Carbon (Kuraray), KEMET Corporation, Jacobi Carbons (Osaka Gas Chemicals), Heycarb Activated Carbon, Momentum Materials, Power Carbon Technology, UES (Ueda Environmental Solutions) Co., Ltd., MC Evolve Technologies Corporation, Norit Activated Carbon, Beihai Xingshi Carbon Material Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Activated Carbons for Supercapacitors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Biomass Activated Carbon

Resin Activated Carbon

Coal Activated Carbon

### Market segment by Pore Volume

Pore Volume  $\leq 1.0 \text{ cm}^3/\text{g}$

Pore Volume  $> 1.0 \text{ cm}^3/\text{g}$

### Market segment by Specific Surface Area

Specific Surface Area  $\leq 2000 \text{ m}^2/\text{g}$

Specific Surface Area

### Market segment by Specific Capacitance

Specific Capacitance  $>250 \text{ F/g}$

Specific Capacitance  $150\text{--}250 \text{ F/g}$

### Market segment by Application

New Energy Vehicles (NEV)

Industrial Energy Storage

Rail Transit

Others

#### Major players covered

Calgon Carbon (Kuraray)

KEMET Corporation

Jacobi Carbons (Osaka Gas Chemicals)

Heycarb Activated Carbon

Momentum Materials

Power Carbon Technology

UES (Ueda Environmental Solutions) Co., Ltd.

MC Evolve Technologies Corporation

Norit Activated Carbon

Beihai Xingshi Carbon Material Technology Co., Ltd.

Shanxi Meijin Energy Co., Ltd.

Fuzhou Yihuan Carbon Co., Ltd.

Fujian Yuanli

Hua County Dachaolin Real Estate Co., Ltd.

SinoSteel Group Maanshan Mining Research Institute Co., Ltd.

Aemcn

KBC Corporation, Ltd.

Zhejiang Apex Energy Technology Co., Ltd.

Shengquan Group

Fujian Xinsen Carbon Co., Ltd.

Bengbu Gifuli New Materials

Jiangsu PURESTAR Environmental Protection Technology Co., Ltd.

Guangdong Coal-based Carbon Materials Research Co., Ltd.

Xiamen TOB New Energy Technology Co., Ltd.

Guangdong Hanyan Activated Carbon Technology Co., Ltd.

BTR New Material Group Co., Ltd.

Poly Energy Holding Co., Ltd.

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 Activated Carbons for Supercapacitors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Activated Carbons for Supercapacitors, with price, sales quantity, revenue, and global market share of Activated Carbons for Supercapacitors from 2021 to 2026.

Chapter 3, the Activated Carbons for Supercapacitors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Activated Carbons for Supercapacitors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Activated Carbons for Supercapacitors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Activated Carbons for Supercapacitors.

Chapter 14 and 15, to describe Activated Carbons for Supercapacitors sales channel, distributors, customers, research findings and conclusion.

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