

Supercapacitor Market: Trends, Opportunities and Competitive Analysis [2024-2030]

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Abstracts

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Supercapacitor Market Trends and Forecast

The future of the global supercapacitor market looks promising with opportunities in the transportation, industrial, consumer electronics, and energy end use industries. The global supercapacitor market is expected to reach an estimated \$1,994.7 billion by 2030 with a CAGR of 14.9% from 2024 to 2030. The major drivers for this market are increasing production of electrical vehicles, growth in portable electronics, and superior properties of supercapacitors, such as high energy density, long lifecycles, and power stabilization, as compared to conventional power storage devices.

Lucintel forecasts that double layered capacitors will remain the largest product type segment over the forecast period due to the increasing usage of double layer capacitors in regenerative braking systems of electric vehicles.

Transportation is expected to remain the largest end use industry segment supported by the growing demand for supercapacitors in electric vehicles, which is the result of the growing need for fuel efficiency, power stabilization, enhanced vehicle performance, and extended long life expectancy.

APAC will remain the largest region due to increasing demand for supercapacitors in automotive, wind, solar, and consumer electronics industries, particularly in China, Japan, and South Korea.

APAC will remain the largest region in the Supercapacitor Market

1. United States: Companies like Maxwell Technologies and Ioxus are leading initiatives in the US market. The US government's investment in renewable energy storage drives demand for supercapacitors in electric vehicles and grid applications.

2. China: Chinese companies such as Ningbo CRRC New Energy Technology Co., Ltd. and Shenzhen Haobai Energy Technology Co., Ltd. dominate the market. China's government subsidies and incentives for electric vehicles propel the demand for supercapacitors in transportation.

3. Japan: Companies like Nippon Chemi-Con Corporation and NEC TOKIN Corporation are significant players in Japan. The Japanese government's focus on energy efficiency and renewable energy storage fosters innovation in supercapacitor technology.

4. South Korea: South Korean companies like LS Mtron and Skeleton Technologies are prominent in the market. South Korea's government investment in green technology and electric vehicles accelerates the adoption of supercapacitors in various applications.

5. Germany: Companies like Skeleton Technologies and Elbit Systems Deutschland GmbH operate in the German market. Germany's government initiatives to reduce carbon emissions and promote energy storage solutions drive the demand for supercapacitors.

A more than 150-page report is developed to help in your business decisions. A sample figure with some insights is shown below.

Supercapacitor Market by Segment

The study includes trends and forecast for the global supercapacitor market by product type, module, end use industry, and region, as follows:

Supercapacitor Market by Product Type [Value (\$B) Shipment Analysis from 2017 to 2028]:

Double Layered Capacitors

Pseudocapacitors

Hybrid Capacitors

Supercapacitor Market by Module [Value (\$B) Shipment Analysis from 2017 t%li%2028]:

Less than 25V

25-100V

Above 100V

Supercapacitor Market by End Use Industry [Value (\$B) Shipment Analysis from 2017 t%li%2028]:

Transportation

Industrial

Consumer Electronics

Energy

Others

Supercapacitor Market by Region [Value (\$B) Shipment Analysis from 2017 t%li%2028]:

North America

Europe

Asia Pacific

The Rest of the World

List of Supercapacitor Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies, supercapacitor companies cater to increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the supercapacitor companies profiled in this report include-

UCAP Power

Panasonic

CAP XX

Skeleton Technologies

LS Mtron

Nippon Chemi-Con

AVX

Korchip Corporation

Seiki Instrument

Recent Developments in the Supercapacitor Market

1. Advancements in Graphene-Based Supercapacitors: Graphene-based supercapacitors are garnering attention due to their high energy density, fast charging capabilities, and long cycle life. Researchers are making significant progress in developing scalable production methods and improving the performance of graphene-based supercapacitors for various applications, including energy storage systems, consumer electronics, and electric vehicles. Recent studies have demonstrated the potential of graphene-based materials to enhance the energy density and power density of supercapacitors, paving the way for commercialization in the near future.

2. Integration of Supercapacitors in Renewable Energy Systems: Supercapacitors are being increasingly integrated into renewable energy systems such as solar and wind power plants to mitigate intermittency challenges and improve grid stability. By storing excess energy during periods of high generation and releasing it during times of low generation or high demand, supercapacitors help balance the supply and demand of electricity in renewable energy grids. Companies are developing innovative energy storage solutions that combine supercapacitors with batteries and other technologies to optimize renewable energy utilization and maximize system efficiency.

3. Expansion of Supercapacitor Production Capacity: Leading supercapacitor manufacturers are ramping up their production capacity to meet growing demand from various industries, including automotive, electronics, and industrial applications. Companies are investing in new manufacturing facilities, upgrading existing production lines, and forming strategic partnerships to expand their global footprint and enhance supply chain resilience. The expansion of production capacity is expected to support the mass adoption of supercapacitors in energy storage systems, transportation, and other emerging applications.

4. Research on Hybrid Supercapacitor-Battery Systems: Researchers are exploring hybrid supercapacitor-battery systems as a promising solution to address the limitations of conventional energy storage technologies. By combining the high power density of supercapacitors with the high energy density of batteries, hybrid systems offer the advantages of fast charging, long cycle life, and improved energy efficiency. Recent studies have demonstrated the feasibility of hybrid supercapacitor-battery configurations for various applications, including electric vehicles, portable electronics, and grid-scale energy storage.

Features of the Supercapacitor Market

Market Size Estimates: Supercapacitor market size estimation in terms of value (\$B)

Trend And Forecast Analysis: Market trends (2018-2023) and forecast (2024-2030) by various segments and regions.

Segmentation Analysis: Supercapacitor market size by various segments, such as by product type, module, end use industry, and region

Regional Analysis:Supercapacitor market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities:Analysis on growth opportunities in different product types, modules, end use industries, and regions for the supercapacitor market.

Strategic Analysis:This includes M&A, new product development, and competitive landscape for the supercapacitor market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q1. What is the supercapacitor market size?

Answer: The global supercapacitor market is expected to reach an estimated \$1,944.7 billion by 2030.

Q2. What is the growth forecast for supercapacitor market?

Answer: The global supercapacitor market is expected to grow with a CAGR of 14.9% from 2024 to 2030.

Q3. What are the major drivers influencing the growth of the supercapacitor market?

Answer: The major drivers for this market are increasing production of electrical vehicles, growth in portable electronics, and superior properties of supercapacitors, such as high energy density, long lifecycles, and power stabilization, as compared to conventional power storage devices.

Q4. What are the major segments for supercapacitor market?

Answer: The future of the supercapacitor market looks promising with opportunities in the transportation, industrial, consumer electronics, and energy industries.

Q5. Who are the key supercapacitor companies?

Answer: Some of the key supercapacitor companies are as follows:

UCAP Power

Panasonic

CAP XX Limited

Skeleton Technologies

LS Mtron

Nippon Chemi-Con

AVX, Korchip Corporation

Seik%li%Instrument

Q6. Which supercapacitor segment will be the largest in future?

Answer: Lucintel forecasts that double layered capacitors will remain the largest product type segment over the forecast period due to the increasing usage of double layer capacitors in regenerative braking systems of electric vehicles.

Q7. In supercapacitor market, which region is expected to be the largest in next 5 years?

Answer: APAC will remain the largest region due to increasing demand for supercapacitors in the automotive, wind, solar, and consumer electronics industries, particularly in China, Japan, and South Korea.

Q8. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1. What are some of the most promising, high-growth opportunities for the global

supercapacitor market by product type (double layered capacitors, pseudocapacitors, and hybrid capacitors), module (less than 25V, 25-100V, and above 100V), end use industry (transportation, industrial, consumer electronics, energy, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last five years and what has its impact been on the industry?

For any questions related to supercapacitor market or related supercapacitor companies, supercapacitor market size, supercapacitor market share, supercapacitor analysis, supercapacitor market growth, supercapacitor market research, write Lucintel analyst at email: helpdesk@lucintel.com we will be glad to get back to you soon.

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- 7.8: Seiko Instrument

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