

Global Supercapacitor Market Size Study & Forecast, by Type (Double Layer, Hybrid Capacitors, Pseudo Capacitors) by End-User (Automotive, Power, Electronics, Medical, Aerospace, Others) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G6DF3D1A88F7EN.html>

Date: April 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G6DF3D1A88F7EN

Abstracts

Global Supercapacitor Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. A supercapacitor, also known as an ultracapacitor or electric double-layer capacitor (EDLC), is a type of energy storage device that bridges the gap between conventional capacitors and batteries. It stores energy through the separation of charge in an electrolyte solution, rather than through chemical reactions like batteries. This enables them to charge and discharge much faster than batteries and withstand a larger number of charge-discharge cycles. Moreover, the increasing adoption of electric vehicles, expansion of the electronics industry, rising demand for renewable energy solutions, and increasing utilization of supercapacitors in smart wearables that anticipated to create a lucrative demand for the market during the forecast period 2023-2030.

With the increasing adoption of electric vehicles worldwide, there's a growing demand for energy storage solutions that offer high power density and rapid charging capabilities. Supercapacitors are well-suited for applications like regenerative braking and providing power boosts in EVs, thus driving the growth of the supercapacitor market. According to The International Energy Agency, in 2019, the number of Battery Electric Vehicles (BEV) and Plug-in Hybrid Vehicles (PHEV) sold was 580,000 and 1,500,000, respectively. In 2022, the numbers reached 2,900,000 and 7,300,000, respectively. As a result, the growing demand for EVs is anticipated to propel lucrative opportunities for the market. Moreover, the rising applications of supercapacitors in the

aviation sector, and elevating use of supercapacitors as replacements for conventional batteries are anticipated to create a lucrative opportunity for the market. However, the high cost and constant requirement for periodic maintenance of supercapacitors, and volatility in raw material prices stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Supercapacitor Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing demand for electric vehicles, the growing renewable energy sector, supportive government initiatives and regulations, and rising investments in infrastructure development, particularly in sectors such as transportation, telecommunications, and industrial automation, which are creating opportunities for supercapacitor applications. Moreover, the Asia Pacific is expected to grow with the fastest growth rate during the forecast period, owing to factors such as the rapid growth in the renewable energy sector, growing electronics industry, supportive government initiatives and policies, and increasing focus on energy efficiency that anticipated to support the region market growth.

Major market players included in this report are:

Skeleton Technologies

IOXUS Inc.

AVX Corporation

Panasonic Corporation

CAP-XX Ltd.

Evans Capacitor Company

SPEL Technologies Private Limited

LS Mtron Ltd.

Nippon Chemi-Con Corporation

Korchip Corporation

Recent Developments in the Market:

In December 2021, Cornell Dubilier revealed that its subsidiary, CD Snow Hill, LLC, has completed the acquisition of NWL, Inc.'s capacitor manufacturing assets. This acquisition enhances Cornell Dubilier's offerings, particularly in the realm of custom high-voltage film capacitors tailored for pulsed power and power conversion applications. With these enhanced capabilities, the company is well-positioned to broaden its range of solutions catered to industrial, military, and medical clientele. Through this acquisition Cornell Dubilier expand its market presence and acquire new customers.

Global Supercapacitor Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, End-User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Double Layer

Hybrid Capacitors

Pseudo Capacitors

By End-User:

Automotive

Power

Electronics

Medical

Aerospace

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

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Rest of Middle East & Africa

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