+44 20 8123 2220
info@marketpublishers.com

Supercapacitor Market by Type (Double Layer Capacitors, Pseudocapacitors, Hybrid Capacitors), Electrode Material (Carbon, Metal Oxide, Conducting Polymers, Composites), Application (Automotive, Energy, Consumer Electronics) - Global Forecast to 2027

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Abstracts

The global supercapacitor market size is expected to grow from USD 472million in 2022 to USD 912million by 2027, at a CAGR of 14.1%. The growing need for energy conservation solutions and high storage capabilities in sectors such as automotive, energy and consumer electronics applications is driving the demand for super capacitors during the forecast period. Escalated usage of supercapacitors for development of wind turbines, grid energy storage systems, EVs/HEVs, railways/trains and aircrafts, smart wearables and so on are some of the major factors accelerating the growth of supercapacitor market.

COVID-19 has emerged as a global pandemic that has spread worldwide and disrupted various industries around the world. The prominent players across industries have been affected by this pandemic. The foreseeable decline in the growth of end-user industries may have a considerable direct impact on thesupercapacitor market.

“Double-layer capacitor segment toaccount for the larger share of market in 2022”

The double-layer capacitor segment is projected to account for the largest share of the supercapacitor market in 2022. These capacitors are used as an alternative to conventional batteries. They work excellently in all those applications where a stable supply of energy is required over a short period of time. Double-layer capacitors replace

conventional batteries in consumer electronics applications, such as smart wearables, computers, laptops, and foldable phones. These supercapacitors are a clean source of energy as opposed to conventional batteries; hence, several battery manufacturers are focused on expanding their product portfolio with the inclusion of double-layer capacitors.

“Automotive Industry is expected to grow at the highestCAGR of the supercapacitor market during the forecast period.”

The automotive segment is projected to hold the largest share of the supercapacitor market in 2022. The advent of electric vehicles is likely to create opportunities for supercapacitors in the automotive sector. Several automotive manufacturers across the world are eventually likely to switch from battery-powered electric vehicles to supercapacitor-powered electric vehicles owing to the high scalability and broad operating temperature range offered by supercapacitors. Hence, the automotive industry is expected to exhibit significant growth from 2022 to 2027.

“Asia Pacific is expectedto account for the largest share of market during the forecast period.”

Asia Pacific is expected to contribute the largest size of the supercapacitor market in 2022. Rapid industrialization and infrastructure development are driving the growth of consumer electronics and automotive industries in China, which is expected to increase the demand for supercapacitors in the region.

Break-up of the profiles ofprimary participants:

By Company Type –Tier 1 – 45%, Tier 2 – 30%, and Tier 3 – 25%

By Designation – C-level Executives – 40%, Directors – 35%, and Others – 25%

By Region– North America - 30%, Europe – 25%, Asia Pacific – 35%, and RoW – 10%

Research Coverage:

Thesupercapacitor markethas been segmentedinto type, electrode material, applicationand region. The supercapacitor market has been studied for North America,

Europe, AsiaPacific, and the Rest of the World (RoW).

Reasons to buy the report:

Illustrative segmentation, analysis, and forecast of the market based ontype, electrode material, application, and region have been conducted to give an overall view of thesupercapacitor market.

Avalue chain analysis has been performed to provide in-depth insightsinto the supercapacitor market.

The key drivers, restraints, opportunities, and challengespertaining to the supercapacitor markethave been detailed in this report.

The report includes adetailed competitive landscape of the market,along with key players, as well as an in-depth analysis of their revenues

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info@marketpublishers.com

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About

According to the changing and demanding global approach, energy resources and energy storage have become a keen area of interest of the major world powers and scientific communities. Supercapacitor has been in existence since many years. It has proved its applications in many domains in real-life.

The supercapacitor market is currently in its initiation phase and is expected to transition to the growth phase scaling billions of revenue in the years to come. The supercapacitor market is expected to scale to $XX million in 2020 at a CAGR of XX% from 2013 to 2020. The supercapacitor products market is estimated to reach $XX million in 2020 at a CAGR of XX% from 2013 to 2020 while the global supercapacitor material market is estimated to reach $XX million in 2020 at a CAGR of XX% from 2013 to 2020.

Surge in demand for flexible, transparent, and super performance offering reliable products from a number of application sectors such as primary application, energy application, and wireless application are expected to result in the explosive growth of the supercapacitor market from 2014. The most feasible markets for the supercapacitor market are holistically categorized as products, applications, and materials.

The major players of the supercapacitor ecosystem are Maxwell Technologies Inc. (U.S.), Nippon electrical Co. (Japan), Nesscap Co. Ltd. (Korea), Cap-XX (Australia), Axion Power International, Inc. (U.S.), and Panasonic Electronic Devices Co. Ltd. (Japan). The major raw material players which contribute the most in the overall market are Bluestone Global Tech, Ltd. (U.S.), DuPont (U.S.), Calgon Carbon Corporation (U.S.), Focus Graphite, Inc. (Canada), and Lomiko Metals (Canada), Inc. The table given below shows the estimated and forecast market value of the total supercapacitor segmented by product sector for the years 2013 to 2020.

The supercapacitor market by applications is expected to grow from $XX million in 2013 to $XX million in 2020, at an estimated CAGR of XX% from 2014 to 2020. The primary application market accounted for the largest share, that is, $XX million in 2013 and is expected to reach $XX million in 2020, at a CAGR of XX% from 2014 to 2020. Energy applications are the next biggest market for supercapacitor market by applications and accounted for $XX million in 2013 and are expected to reach $XX million in 2020, at a CAGR of XX% from 2014 to 2020.

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The primary applications entail consumer electronics and transport products, which are the major revenue generating segments of the industry and fuelling the growth of supercapacitors in their respective segments. The energy applications are also penetrating very fast in the ecosystem and are expected to be the second most attractive business segment across the forecast period.

The supercapacitor market by geography is expected to grow from $XX million in 2013 to $XX million in 2020, at an estimated CAGR of XX% from 2014 to 2020. The Americas market accounted for the largest share, that is, $XX million in 2013 and is expected to reach $XX million in 2020, at a CAGR of XX% from 2014 to 2020. Europe is the next biggest market for supercapacitor market by geography and accounted for $XX million in 2013 and is expected to reach $XX million in 2020, at a CAGR of XX% from 2014 to 2020.

Countries such as the U.S., the U.K., and Canada are earsplitting very fast in the ecosystem which is boosting the overall growth of the developed economies, especially Americas region. The international conglomerates such as Maxwell (U.S.), is accelerating the growth potential of the American region.

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