

# **Global Automotive Supercapacitor Market: Focus On Technology, Supply Chain, Cost Structure, Materials, Motorsports Application, Kinetic Energy Recovery System, Starting Lighting and Ignition, And Propulsion System– Analysis and Forecast, 2018-2028**

<https://marketpublishers.com/r/G7224AE8C277EN.html>

Date: November 2018

Pages: 184

Price: US\$ 5,000.00 (Single User License)

ID: G7224AE8C277EN

## **Abstracts**

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The report constitutes of detailed analysis of the global automotive supercapacitor market in terms of various automotive sub-systems, automotive application types, and future scope in the electric vehicle technology. The global battery market is the parent market for supercapacitor type of energy management solution. It caters to the high-power requirement of vehicle on-board. The supercapacitor technology companies have worked extensively to develop an optimum between high-power ability and moderate energy density. The report discusses various system types such as starting, lighting and ignition systems, start-stop system, battery propulsion system, kinetic energy recovery system, and others for automotive applications. The report also explores various opportunities for existing supercapacitor technology in the automotive industry as well as innovative supercapacitor concepts, which could disrupt the li-ion battery market. A detailed analysis of the regional market ecosystem plays a vital role in determining a consumer mindset for selecting a service offering.

On-board electric power has been an important factor for a vehicle design. The growing need for efficient battery products for electric and hybrid vehicles has resulted in the innovation of supercapacitor-based battery solution. Supercapacitors are an alternative to high-power pulse battery, and also have longer shelf life in comparison to conventional technologies. The energy density of supercapacitors is lower than that of

batteries, but supercapacitors have higher power density. The key factors accelerating the growth of supercapacitors within the automotive domain are growing vehicle on-board electric power requirement, demand of electric vehicle, development of autonomous vehicle systems and telematics, and connected vehicle systems.

Major cost head in the supercapacitor assembly process is the technology research and development, which accounted for 55.0% of the overall supercapacitor assembly cost in 2018. The technology cost is expected to reduce as the market becomes matured with time. High level of innovation in terms of material science and module integration is likely to keep the costing slightly on the higher side during the forecast period 2018-2028.

Globally, the transportation industry is undergoing a restructuring, driving technology research, innovative mobility options, and collaborative company network. The competition in the automotive industry has scaled to such a dramatic level that collaboration of companies is the most sought out option for mutual co-existence. A high investment is directed for research and development by OEM, energy management companies, and venture capital firms to fuel the value chain of supercapacitor market. Regionally, the world is divided into Americas, EMEA, and APAC. Each region varies in terms of environmental conditions, governments regulation, and demography pressure.

The supercapacitor ecosystem has the presence of dominant energy management solution companies, pureplay companies, and startups. There are both private and public companies operating in the domain. A strong growth is expected for the emergence of private startup companies in the market during the period 2018-2028.

The report answers the following key questions in the context of the global automotive supercapacitor market:

What is automotive supercapacitor technology?

What is the cost structure of automotive supercapacitor product?

What major factors are expected to impact the market positively and negatively during 2018-2028?

What are the potential applications of supercapacitors in automotive technology?

What factors have influenced the market penetration of supercapacitor technology in key countries?

What is the role of autonomous vehicles and electric vehicle in the growth of supercapacitors?

What are the key materials that are utilized as supercapacitor electrodes?

What are the future opportunities for supercapacitor manufacturers?

What is the forecast global market value for the period 2018-2028?

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