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Description:

Global Super Capacitor Energy Storage System Market Research Report, by Type (Electric Double-Layer Capacitor, Pseudo Capacitor), Memory (Residential, Non-Residential, Utility, Electric Vehicle), Region (North America, Europe, Asia-Pacific, RoW) — Forecast till 2023

Market Synopsis of Global Super Capacitor Energy Storage System Market

Market Scenario:
The demand of global supercapacitor energy storage system is rapidly increasing due to the increase demand for hybrid vehicles. The other factors boosting the supercapacitor energy storage system due to utilization in a number of applications like renewable energy power generation, power systems, and others.

Super capacitors energy storage systems are rapidly being adopted in the market in the recent years mostly in the automotive sector. The start-stop super capacity technology used in the US by the General Motors and Mercedes is becoming dominant and is boosting the growth of super capacitors energy storage market. Moreover, the increase in the demand for wind renewable energy is expected to boost the super capacitor energy storage system.

The super capacitor energy storage system is used in various applications like consumer electronics, computer, and communication applications. Super capacitors help increase the battery cell life by maintaining slow and shallow charge and discharge. The advancement in the material technology, the use of graphene and other compounds will gain traction in the coming years and will add fuel in the growth of super capacity energy storage system market. Moreover, the increasing demand for smartphones and energy harvesting are some of the drivers of the super capacitor energy storage system market.

However, the growing adoption of lithium titanate batteries in automotive and energy harvesting for IoT applications may hamper the growth of global super capacitor energy storage systems market.

Key Players:

Some of the key players of global super capacitor energy storage system market includes Ioxus, Inc.(US), Mouser Electronics, Inc. (US), Nesscap Co. (US), Murata Manufacturing Co. (Japan), Panasonic (Japan), Adafruit Industries (US), AVX Corporation (US), Cornell Dubilier (US), Eaton Corporation (US), Nichicon (Japan) among others.

The Murata Manufacturing Co. offers a wide range of super capacitor energy storage systems to meet consumer demand for mobile devices with greater efficiency and functionality. The company offers three super capacitor energy storage systems— DMT series, DMF series, DMH series. DMT series has wide range of features such as wide operational capability, temperature range, and high reliability. The DMH series are used in slim devices such as wearable devices and smart cards.

Segmentation:

The global super capacitors energy storage system market is segmented on the basis of type, memory, and region.

By type, the market is segmented into electric double-layer capacitors, pseudo capacitors, and others. Murata's electric double-layer capacitors (ELDC) offers much higher energy storage and power density which is ideal for various applications which requires pulse loads like LED flash, audio
circuits, power amplifiers, and smart meters.

By memory, the market is segmented into residential, non-residential, utility, and electric vehicle among others.

By region, the market is segmented into North America, Europe, Asia-Pacific, and the rest of the world.

**Regional Analysis:**
The geographical analysis of global super capacitors energy storage system market is studied for North America, Europe, Asia-Pacific, and the rest of the world.

North America holds the largest market share among other regions due to the presence of leading players in the market such as Ioxus Inc., Mouser Electronics, Nesscap Co., Adafruit Industries, AVX Corporation, Cornell Dubilier, Eaton Corporation due to the presence of early technology adopters in this region.

Asia-Pacific is expected to reach the highest CAGR in the global super capacitor energy storage market among other regions due to the rise in the Chinese supercapacitor manufacturers which are displacing western companies domestically in recent years. This region is expected to remain dominant, throughout the forecast period (2018–2023).

**Target Audience:**
- Battery energy storage system manufacturers
- Battery energy storage system providers
- Energy storage research institutions
- Government and research organizations
- Grid operators
- Research organizations and consulting companies
- Solid-state battery, electrochemical capacitor, and other energy storage technology manufacturers
- Technology standard organizations, forums, alliances, and associations
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