

HVDC Capacitor Market to Cross USD 22.47 Billion by 2032, at 14.23% CAGR | SNS Insider

Market is expanding with demand for efficient power transmission, driven by renewable energy integration, grid stability, and advance in high-voltage technology

AUSTIN, TX, UNITED STATES, February 19, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

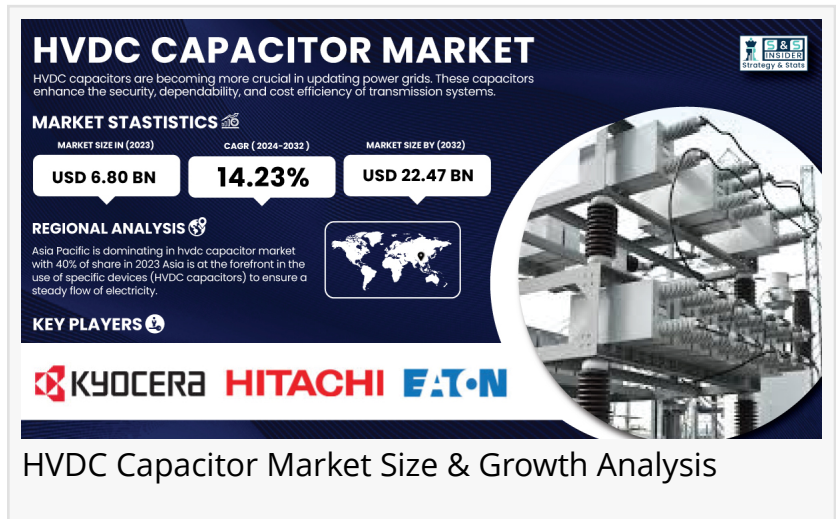
As Per the SNS Insider, "The [HVDC Capacitor Market Size](#) was valued at

USD 6.80 Billion in 2023 and is

expected to reach USD 22.47 Billion by 2032 and grow at a CAGR of 14.23% over the forecast period 2024-2032."

This growth is primarily fueled by the increasing implementation of high-voltage direct current (HVDC) transmission technology, is driven from its application in HVDC (high voltage direct current) for the improvement of grid reliability and long-distance power transmission with minimal losses. The growing integration of renewable energy, particularly from wind and solar sources, is furthering the demand for HVDC systems, as a result, increasing capacitor adoption. Governments across the globe are spending heavily on smart grid infrastructure, aging power networks, and clean energy initiatives, etc. which further facilitates market growth. The trend towards rapid industrialization and urbanization, coupled with the increasing necessity of energy-efficient solutions, is fuelling the need for improved capacitor technologies. Also, advancements in capacitor materials and manufacturing techniques are improving performance, durability, and cost-effectiveness, leading to their increased industry adoption. With the world moving more towards energy efficiency, sustainability, and resilient power infrastructure, the HVDC capacitor market is set to witness steady and strong growth over the coming years.

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SWOT Analysis of Key Players as follows:

- Hitachi Ltd. (Japan)
- General Electric (US)
- TDK Corporation (Japan)
- Eaton (US)
- KYOCERA Corporation (Japan)
- YAGEO Corporation (Taiwan)
- Vishay Intertechnology Inc. (US)
- General Atomics (US)
- International Capacitors S.A. (Spain)
- ELECTRONICON Kondensatoren GmbH (Germany)
- Sieyuan Electric Co. Ltd. (China)
- Kunshan GuoLi Electronic Technology Co. Ltd. (China)
- Condis (Switzerland)
- samwha Capacitor Group (South Korea)
- API Capacitors(UK)

Key Market Segmentation:

By Product, Plastic Film Capacitors Dominating and Ceramic Capacitors Fastest Growing

Plastic Film Capacitors hold the leading position in the market. These capacitors are preferred for power supply applications, energy storage, and various consumer electronics due to their substantial ratings and reliability in uses on a large scale. They are the most adopted type across the globe due to their long-established use in mechanical industries such as automotive and industrial machinery.

Ceramic Capacitors is the fastest-growing segment over the forecast period 2024-2032, due to their versatility, compact size, and widespread use in applications like consumer electronics, automotive, telecommunications, and industrial equipment. Their ability to handle high-frequency applications and their cost-effectiveness in mass production contribute to their rapid adoption.

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By Technology, Line-Commutated Converter (LCC) and Voltage-Source Converter (VSC) Fastest Growing

Line-Commutated Converter (LCC) HVDC remains the dominant segment in the HVDC Capacitor market as it has been widely adopted for several high-power long-distance transmission projects because of its established performance. LCC systems are widely utilized in large power transfer employing thyristors in connecting remote renewable energy sources to urban centers.

Voltage-Source Converter (VSC) HVDC is the fastest-growing segment over the forecast period 2024-2032, due to the development of advanced capabilities such as the offshore wind farm, multi-terminal system, and underground or underwater cable transmission. Flexible, blackstart capable, and providing reactive power compensation and insulated-gate bipolar transistors (IGBT)-based VSC systems are the newer technology. As the demand for renewable energy integration and grid interconnections rises, VSC HVDC is rapidly gaining adoption, particularly in Europe and Asia-Pacific, where energy transition efforts are accelerating.

By Installation, Enclosed Rack Capacitor Banks and Open Rack Capacitor Banks Fastest Growing

Enclosed Rack Capacitor Banks dominates the HVDC Capacitor Market, due to their offer superior protection, safety and flexibility for placement in commercial and industrial settings. These banks are commonly used for power factor correction, voltage regulation, and reactive power compensation in substations and large-scale applications.

Open Rack Capacitor Banks are the fastest-growing segment over the forecast period 2024-2032, preferred for their simplicity, cost-effectiveness, and ease of installation in situations where space isn't a constraint. These systems are increasingly adopted for grid expansion, particularly in regions with growing energy demands and where quick deployment is essential. Their growing popularity, especially in developing economies, highlights their role in meeting rising energy demands efficiently.

North America Leads, Asia-Pacific Accelerates: Dynamics Driving Growth in the HVDC Capacitor Market

In the HVDC Capacitor Market, North America Region dominates, Due to its developed infrastructure and strong demand for energy efficiency and grid modernization, North America is the leader in the capacitor bank market. Fueling industrial and commercial energy consumption translating to demand for power factor correction, voltage regulation, and reactive power compensation grid services reinforces its description as the leading domain. Powered by cutting-edge technology and a heightened focus on keeping the grid running, North America remains the market's heavyweight.

Asia-Pacific emerges as the fastest-growing region over the forecast period 2024-2032. Driven by rapid industrialization, urban expansion, and rising energy demands, the region is experiencing a surge in capacitor bank adoption. The expansion of renewable energy sources and the need for enhanced grid stability, especially in countries like China and India, are fueling this growth. Asia-Pacific is set to play a pivotal role in shaping the future of the capacitor bank market.

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