

Capacitor Bank Market Set for \$6.8 Billion Surge by 2033, Driven by Renewable Integration & Grid Efficiency

Capacitor bank market set to hit \$6.8 Bn by 2033 (CAGR 4.8%) driven by renewable grid needs, voltage stability & industrial demand.

WILMINGTON, DE, UNITED STATES,
June 25, 2025 /EINPresswire.com/ --

According to a new report published by Allied Market Research, the global [capacitor bank market](#) size was valued at \$4.3 billion in 2023 and is poised to grow to \$6.8 billion by 2033, at a steady 4.8% CAGR from 2024 through 2033. This growth is fueled by the expansion of renewable energy, rising industrial demand, and the need for voltage stability and power factor correction across electrical grids.



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Allied Market Research

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□ What Are Capacitor Banks?

A capacitor bank is an assembly of capacitors connected in series or parallel to store and discharge electrical energy. These critical grid devices:

Correct power factor,

Stabilize voltage across networks,

Reduce transmission losses,

Increase overall power efficiency.

By injecting reactive power into the grid, capacitor banks help utilities maintain optimal voltage and decrease energy waste, especially critical for commercial and industrial users.

□ Market Drivers Transforming Demand

□ Renewable Energy Integration

As renewable penetration from solar and wind scales up, utilities are faced with fluctuating power outputs. Capacitor banks enable operators to manage variable production by balancing reactive power, mitigating voltage spikes or dips. Countries like Australia and India are investing heavily in clean grid tech—Australia's Clean Energy Fund has bolstered power efficiency initiatives that include capacitor banks, while India's L&T is deploying hybrid control systems across solar and wind farms. These trends strongly support capacitor bank demand.

□ Competing Technologies: STATCOM & SVC

However, Static VAR Compensators (SVCs) and STATCOMs are gaining momentum. Offering real-time voltage regulation and faster response times, these power-electronics solutions challenge traditional capacitor banks. Modern grid modernization plans increasingly favor these smarter, dynamic alternatives, creating competitive pressure for capacitor bank manufacturers. India's [POWERGRID](#) installed a major STATCOM at Lucknow in late 2023, signaling a shift toward digital reactive power systems.

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□ Market Segmentation & Growth Areas

□ Voltage Classes

10kV–69kV: Fastest-growing segment (~5.1% CAGR). Ideal for regional transmission where voltage dips are common.

Other categories include <1kV, 1–10kV, and >69kV.

□ Capacitor Types

Internally Fused: Fastest growth at ~5.0% CAGR due to reduced downtime and automated fault tolerance.

Also includes externally fused and fuse less banks.

□□ Installations

Metal-Enclosed Substations: Leading the segment with highest growth for compact, safe, low-maintenance deployment.

Also includes pole-mounted and open-air substations.

□ Applications

Power Factor Correction, Industrial Loads, Harmonic Filtering, and more.

The industrial segment captured over 25% market share in 2023, reflecting high demand across manufacturing, automation, and utilities.

□ Regional Insights

Asia-Pacific emerged dominant (over one-third market share), driven by rapid industrialization, renewable grid builds, and large-scale solar and wind farms.

Europe, North America, and LAMEA also show steady growth fueled by grid upgrades and renewable targets.

□ Leading Players & Innovation Highlights

Major players in the capacitor bank market include ABB, Siemens, Toshiba, Hitachi, Vishay, Eaton, Circutor, Enerlux, and Comar Condensatori.

□ Recent Innovations

Powerside launched Pole-MVar—a compact, pole-mounted harmonic filter capacitor bank ideal for distribution networks.

Kyocera AVX introduced high-capacity supercapacitor banks meeting UL standards in 2023.

These innovations address evolving grid dynamics, enhancing power quality, energy efficiency, and space savings.

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□ Key Market Trends & Insights

The 10–69□kV voltage segment accounted for more than a third of market value in 2023 and

remains dominant, driven by distribution-level optimization.

The industrial application segment maintains a strong share, growing at ~5.1% CAGR, supported by manufacturing growth and automation.

The star-connection type continues to lead, offering balanced voltage distribution and reliability.

[Asia-Pacific's dominance](#) is expected to continue, supported by infrastructure expansion and increasing renewable penetration.

□ Final Take

The capacitor bank market is experiencing robust growth thanks to the global clean energy transition and grid modernization efforts. With a projected CAGR of 4.8% and a target of \$6.8 billion by 2033, the market is well-positioned to meet growing demands for voltage stability, reactive power compensation, and industrial power quality.

However, the rise of intelligent, power-electronics-based alternatives such as STATCOMs poses a competitive challenge. Success will depend on technology adaptation and innovation within conventional capacitor bank designs.

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