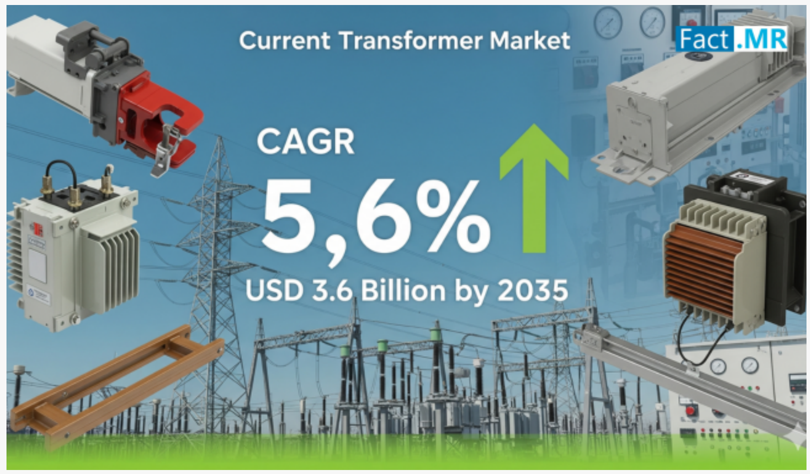
Current Transformer Market is Set to Globally Reach US$ 3.6 Billion at 5.6 % CAGR by 2035

Global Current Transformer Market poised for strong growth with rising energy demand, smart grids, and renewable energy integration.



ROCKVILLE, MD, UNITED STATES, September 5, 2025 /EINPresswire.com/ -- The global current transformer market is expected to grow from USD 2.1 billion in 2025 to USD 3.6 billion by 2035, registering a CAGR of 5.6% over the forecast period. This growth is fueled by increasing energy demand driven by industrial expansion, grid modernization, and the integration of renewable energy sources.

Current transformers play a critical role in efficient, real-time power monitoring, metering, protection, and control, making them essential for smart grid deployments and energy projects in emerging economies.

Key Drivers of the Current Transformer Market

Rising Electricity Demand: Rapid population growth and increasing electricity consumption—driven by a growing home-based workforce, businesses, and industrial sectors—are boosting the need for reliable power. With global electricity consumption reaching 24,398 terawatt-hours in 2022, robust monitoring solutions like current transformers, which convert primary current to secondary current for measurement and protection, have become indispensable, supporting market growth.

Smart Grid Development: The global push toward smart grids is driving demand for advanced current transformers. These devices are critical for grid automation, enabling real-time monitoring, fault detection, and improved system efficiency, while minimizing downtime and operational risks.

Renewable Energy Integration: The rapid expansion of wind and solar energy installations is further fueling market growth. Current transformers ensure stable and accurate current measurement under fluctuating output conditions, facilitating the safe and efficient integration of renewable energy into the power grid.

Regional Trends in the Current Transformer Market

North America: Grid modernization, digitalization, and smart sensors are driving demand for advanced current transformers, supporting renewable integration and smart grid projects.

Asia-Pacific: Rapid industrialization, urban growth, and electrification initiatives in countries like China, India, Japan, and South Korea are boosting transformer demand. Current transformers are essential for high- and medium-voltage networks, rural electrification, and smart grid development.

Europe: Adoption of renewable energy, decentralized grids, and electric mobility infrastructure is increasing transformer sales. Policies promoting decarbonization and grid upgrades are driving demand for smart, next-generation current transformers in Germany, the U.K., France, and the Nordics.

Middle East & Africa: Energy diversification and grid reliability projects, including solar and wind integration, are fueling market growth. Saudi Arabia, UAE, and African electrification initiatives are expanding the use of current transformers in industrial and rural applications.

Competitive Analysis

The current transformer market is highly competitive, with both global and regional players competing on price, quality, and innovation. Companies are investing in R&D, advanced materials, and precision manufacturing to strengthen their positions.

The rise of smart grids drives demand for CTs with high accuracy, digital communication, and remote monitoring, including split-core designs for retrofitting legacy systems.

In emerging economies, affordability is key, with local manufacturers offering cost-effective solutions for smaller applications. Meanwhile, premium suppliers focus on high-reliability CTs with long service life for grid protection and fault detection.

Key players in the market include GE Electric, Schneider Electric, ABB Limited., Siemens, CG Power and Industrial Solutions Limited, CGS Instrument Transformers, Continental Control System, Nissin Electric, VAC, Trench Group, Hammond Manufacturing, Dalian Huayi Electric Power Electric Appliances Co., Ltd., Appendix and other players.

Recent Developments

February 2024: Schneider Electric launched the EcoStruxure™ Transformer Expert service for businesses in the UK and Ireland, enhancing digital energy management and transformer monitoring capabilities.
February 2024: Siemens Energy announced a USD 150 billion investment to establish its first large power transformer (LPT) manufacturing and service facility in Charlotte, North Carolina, expanding its U.S. operations.

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Segmentation of Current Transformer Market

By Type :
Dry
Oil-immersed
Gas-insulated
By Construction :
Wound Type
Toroidal
Bar Type
Summation
By Core :
Solid Core
Split Core
By Voltage Rating :
Low Voltage
Medium Voltage
High Voltage
By Use Case :
Indoors
Outdoors
By Application :
Protection
Metering
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Editor’s Note:
This release is based exclusively on verified and factual market content derived from industry analysis by Fact.MR. No AI-generated statistics or speculative data have been introduced. This story is designed to support manufacturers, healthcare providers, and wellness brands in recognizing the current transformer market as a major growth and innovation sector for the coming decade.

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