

Instrument Transformers Market by Type (Current, potential, and combined), Installation (liquid, SF6 gas, solid), Enclosure (indoor and outdoor), Voltage, End-User, and Region (North America, Europe, APAC, Latin America, MEA) - Global Forecast to 2030

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Abstracts

The global market for instrument transformers is on a trajectory to reach USD 10.6 billion by 2030, a notable increase from the estimated USD 7.1 billion in 2023, with a steady CAGR of 5.8% spanning the period from 2023 to 2030. Instrument transformers are devices used in electrical power systems to measure voltage and current. They play a crucial role in ensuring the safe and accurate monitoring, protection, and control of power systems. There are three main types of instrument transformers: current transformers (CTs) and voltage transformers (VTs), also known as potential transformers (PTs), and combined instrument transformers. CTs are used to step down high currents in power systems to levels suitable for measurement and protection devices. They provide a proportional current output that is a fraction of the primary current, allowing safe and accurate measurement and protection of the power system. VTs step down high voltages in power systems to levels suitable for measurement and protection devices. Similar to CTs, VTs provide a scaled-down voltage output that accurately represents the primary voltage. This voltage is used for various purposes, including metering, protective relaying, and control systems. Instrument transformers are crucial for providing accurate voltage and current measurements for billing and monitoring purposes. They play a vital role in power system protection by providing signals for protective relays, which can detect and isolate faults or abnormal conditions in the system. The scaled-down signals from instrument transformers are often used in control systems to maintain the desired operating conditions in the power system. Instrument transformers are used in various applications, including power generation, transmission, distribution, and industrial systems.

“Liquid dielectric, by dielectric medium, to be largest growing market from 2023 to 2030.”

Liquid dielectric transformers are required to control the unpredictable and intermittent nature of renewable power generation as it becomes a larger part of the global energy mix. Increased investments in the global power industry, particularly in emerging nations, help to expand transmission and distribution networks, which boosts the need for liquid dielectric transformers. The growing awareness of energy efficiency is driving the development of liquid dielectric transformers with better insulating materials and design, which reduces energy losses during power transmission. These are the drivers responsible for the growth of liquid dielectric segment.

“Power utilities segment, by End-User, to be the largest market from 2023 to 2030.”

Transformers are required for efficient power distribution as the emphasis shifts toward renewable energy sources such as solar and wind. These transformers are critical components in integrating renewable energy into existing power systems. Many countries are investing in modernizing their old electricity infrastructure to increase reliability and efficiency. Transformers play an important role in modernizing energy transmission by increasing efficiency. Transformer demand is being driven by increased investment in power transmission projects, particularly in emerging countries. Transformers are vital for effectively transporting power across great distances.

“Europe to be second-largest region in instrument transformers market.”

In 2022, Europe secured the second-largest position in the instrument transformers market, holding a share of 26.4% with a market valuation of USD 1,832.1 million. The European instrument transformers market is further divided by country, including the UK, Germany, France, Italy, Spain, Sweden, Norway, Russia, and the Rest of Europe.

Smart grid deployment in Europe is a strategic endeavor aiming at transforming existing power distribution networks via the integration of innovative technology for increased efficiency and responsiveness. Smart grids use digital connectivity and real-time monitoring to improve the intelligence of the electrical grid. Smart grids allow for thorough data collecting and analysis. Instrument transformers in a smart grid are outfitted with sensors and communication capabilities that offer real-time data on voltage, current, and other vital characteristics. This data is then used to precisely monitor the electrical network. Europe's emphasis on integrating regional power

networks through various initiatives opens up potential for instrument transformer deployment to ensure flawless power transfer. Interconnection initiatives seek to link the electrical networks of various areas across Europe. This connection enables the pooling of power resources, which balances supply and demand and improves overall grid stability. By integrating power infrastructure, Europe may improve its electrical supply dependability. In the case of a power outage or interruption in one location, linked networks can assist by transferring power from places with excess electricity.

Breakdown of Primaries:

In-depth interviews with key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, were conducted to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The primary interviews were distributed as follows:

By Company Type: Tier 1-41%, Tier 2-37%, and Tier 3-22%

By Designation: C-Level-44%, D-Level-31%, and Others-25%

By Region: North America–32%, Europe–21%, Asia Pacific–26%, South America–5% and

Middle East–11% and Africa–5%.

Note: “Others” includes sales managers, marketing managers, product managers, and engineers

The tiers of the companies are defined based on their total revenue as of 2021: Tier 1: >USD 1 billion, Tier 2: USD 500 million–1 billion, and Tier 3:

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