Gas Turbine MRO Market Trends: Rising Demand in Power Generation & Aviation Industry

Gas Turbine MRO (Maintenance, Repair, Overhaul) Market Valuation USD 20.4 billion by 2032

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According to a new report published by Allied Market Research, The gas turbine MRO market size was valued at $14.5 billion in 2022, and is estimated to reach $20.4 billion by 2032, growing at a CAGR of 3.5% from 2023 to 2032.

Gas turbine MRO stands for Gas Turbine Maintenance, Repair, and Overhaul. It refers to the processes and activities involved in the maintenance, repair, and overhaul of gas turbines. Gas turbines are widely used in various industries, including aviation, power generation, and oil and gas, and they require regular maintenance to ensure they operate efficiently and safely.

> “Industrialization in emerging economies lead to increased energy demands and the expansion of gas turbine installations in various industries, fostering the need for MRO services.”
>
> *Allied Market Research*

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Asia-Pacific dominated the market in 2022. The Asian Pacific region is experiencing strong economic growth and increasing demand for energy.

Asia-Pacific countries are investing heavily in infrastructure projects, such as airports, ports, and power plants, which often utilize gas turbines.

Key players in the global gas turbine MRO industry report include Baker Hughes Company; Doosan Enerbility; Mitsubishi Heavy Industries, Ltd.; Kawasaki Heavy Industries, Ltd.; Siemens Energy AG; General Electric Company; Solar Turbines Incorporated; Ansaldo Energia SPA; Sulzer Ltd.; and Metalock Engineering.

Growth in demand for power generation is the major factor driving the market growth. The global demand for energy continues to rise, driven by population growth, urbanization, and industrialization.

Gas turbines are a popular choice for power generation due to their efficiency and relatively lower emissions compared to other fossil-fuel-based alternatives. With a focus on cleaner energy sources, many countries are transitioning from coal-fired power plants to natural gas-based power generation.

Key aspects of gas turbine MRO:

Maintenance: Regular maintenance is essential to keep gas turbines operating at peak performance. This includes activities such as inspecting components, changing filters, and performing routine checks on systems like fuel, oil, and air intake.

Repair: When a gas turbine component fails or shows signs of wear and tear, it may require repair. This can involve fixing or replacing damaged parts to restore the turbine's functionality.

Overhaul: Overhauls are more extensive maintenance procedures that involve disassembling the gas turbine, inspecting all components, and replacing or refurbishing worn or damaged parts. Overhauls are typically performed at scheduled intervals to ensure the long-term reliability of the turbine.

Inspection: Regular inspections, both visual and non-destructive testing, are critical to identify potential issues before they lead to costly breakdowns or accidents.

Gas turbines, which can run on natural gas, are a vital component of this shift, leading to a rise in gas turbine installations. Besides, gas turbines offer greater flexibility in power generation, making them suitable for meeting peak demand and providing backup power. This flexibility is particularly valuable in regions with intermittent renewable energy sources.

Advanced sensors and monitoring systems are used to continuously collect data from gas turbines, providing real-time insights into their health and performance. Analyzing this data using machine learning and predictive analytics allows for early detection of potential issues, enabling more proactive and predictive maintenance strategies.

Gas turbine operators and MRO service providers can remotely monitor and diagnose turbine performance using cloud-based platforms and secure communication technologies. Remote access to data allows for faster response times, efficient troubleshooting, and expert support without the need for on-site visits.

The report provides an extensive analysis of the current and emerging gas turbine MRO market trends and dynamics.

As per gas turbine MRO market analysis, by technology, the heavy duty segment was the highest revenue contributor to the market in 2022

As per gas turbine MRO market scope, based on type, the maintenance segment was the highest revenue contributor to the market in 2022

By provider type, the OEM segment dominated the market in 2022

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On the basis of end-use, the power generation segment was the highest revenue contributor to the market, growing with a CAGR of 3.3%.

Region wise, Asia-Pacific held the major share of the market in 2022

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achieve sustainable growth in their respective market domain.

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