

Steam Turbine MRO Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Service Type (Maintenance, Repair, Overhaul), By Service Provider (Original Equipment Manufacturers, Independent Service Providers, In-House), By Fuel Type (Coal, Natural Gas, Nuclear), By Capacity (Less than 300 MW, 300 MW to 599 MW, 600 MW and Above), By End-Use Industry (Power Generation, Oil and Gas, Others), By Region & Competition, 2021-2031F

<https://marketpublishers.com/r/S6A78A387C83EN.html>

Date: January 2026

Pages: 186

Price: US\$ 4,500.00 (Single User License)

ID: S6A78A387C83EN

Abstracts

The Global Steam Turbine MRO Market will grow from USD 20.51 Billion in 2025 to USD 28.51 Billion by 2031 at a 5.64% CAGR. Steam Turbine MRO encompasses the specialized maintenance, repair, and overhaul services required to ensure the operational reliability and extended service life of steam turbines in power generation and industrial applications.

Key Market Drivers

Aging Power Generation Infrastructure Requiring Life Extension is a primary force propelling the Global Steam Turbine MRO Market, as utilities increasingly opt to refurbish existing assets rather than incurring the high capital costs of new construction. This trend is particularly evident in mature economies where extending the operational timeline of coal and nuclear plants is essential for maintaining grid stability during the energy transition.

Key Market Challenges

The shortage of specialized technical labor constitutes a severe impediment to the growth of the Global Steam Turbine MRO Market, effectively capping the industry's capacity to service an aging infrastructure. Steam turbine maintenance entails high-precision engineering and complex diagnostic capabilities that rely heavily on tacit, experiential knowledge accumulated over decades.

Key Market Trends

Retrofitting Steam Turbines for Decarbonization and Efficiency is increasingly reshaping the market as operators seek to maximize the output of carbon-neutral assets without the capital expenditure of constructing new infrastructure. Unlike standard maintenance focused solely on reliability, these sophisticated modernization projects involve redesigning blade paths and internal components to significantly boost thermodynamic performance. This allows utilities to generate additional electricity without increasing fuel consumption or exceeding thermal limits, a critical factor for nuclear and biomass facilities.

Key Market Players

Siemens Energy AG

General Electric Company

Dongfang Turbine Company Limited

Bharat Heavy Electricals Limited

Mitsubishi Power Asia Pacific Pte. Ltd.

Shanghai Electric

Harbin Electric Company Limited

Elliott Group

Sulzer Ltd

Ansaldo Energia

Report Scope:

In this report, the Global Steam Turbine MRO Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Steam Turbine MRO Market, By Service Type:

Maintenance

Repair

Overhaul

Steam Turbine MRO Market, By Service Provider:

Original Equipment Manufacturers

Independent Service Providers

In-House

Steam Turbine MRO Market, By Fuel Type:

Coal

Natural Gas

Nuclear

Steam Turbine MRO Market, By Capacity:

Less than 300 MW

300 MW to 599 MW

600 MW and Above

Steam Turbine MRO Market, By End-Use Industry:

Power Generation

Oil and Gas

Others

Steam Turbine MRO Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Steam Turbine MRO Market.

Available Customizations:

Global Steam Turbine MRO Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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