

# Steam Turbine Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

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## Abstracts

The Global Steam Turbine Market, valued at USD 22.9 billion in 2023, is expected to grow at a steady CAGR of 3% from 2024 to 2032. This growth is largely driven by increasing demand for reliable and efficient electricity, especially in emerging economies, where new power plant construction is on the rise. Additionally, the modernization of existing infrastructure and the growing adoption of energy-efficient technologies further boost the market potential. Steam turbines transform thermal energy from pressurized steam into rotational mechanical energy, making them essential in power generation. Rising industrial power needs, along with the adoption of combined heat and power systems, are key drivers of market expansion.

The integration of advanced control systems further promotes the deployment of steam turbines, particularly in large-scale power generation, where high-capacity turbines are essential. Moreover, continuous investments in power infrastructure to meet increasing energy demands, along with ongoing technological advancements aimed at improving operational efficiency, are propelling the industry forward. The steam cycle turbine market is projected to grow at a CAGR of over 2.5% through 2032, driven by the global focus on reducing landfill waste and improving waste management. This trend is boosting the adoption of steam turbines, especially when combined with advanced algorithms that optimize operational cycles and efficiency.

Additionally, the deployment of these turbines is increasing across industries such as refining, petrochemicals, and steel, fueled by the growing emphasis on decarbonization and the adoption of alternative fuels and hybrid systems. In the U.S., the steam turbine market is expected to surpass USD 400 million by 2032. Growth in manufacturing facilities, in line with the adoption of efficient turbines across several industries, drives this expansion. The increasing use of steam turbines in geothermal and biomass-powered plants also contributes to market growth. Furthermore, government initiatives aimed at improving turbine efficiency, including investments in upgrades, repairs, and

emissions control technologies, are enhancing the market outlook.

## Contents

### Report Content

#### **CHAPTER 1 METHODOLOGY & SCOPE**

- 1.1 Market scope & definition
- 1.2 Market estimates & forecast parameters
- 1.3 Forecast calculation
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid
    - 1.4.2.2 Public

#### **CHAPTER 2 EXECUTIVE SUMMARY**

- 2.1 Industry 360° synopsis, 2021 - 2032

#### **CHAPTER 3 INDUSTRY INSIGHTS**

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
  - 3.3.1 Growth drivers
  - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
  - 3.5.1 Bargaining power of suppliers
  - 3.5.2 Bargaining power of buyers
  - 3.5.3 Threat of new entrants
  - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

#### **CHAPTER 4 COMPETITIVE LANDSCAPE, 2024**

- 4.1 Introduction
- 4.2 Strategic outlook
- 4.3 Innovation & sustainability landscape

## **CHAPTER 5 MARKET SIZE AND FORECAST, BY DESIGN, 2021 - 2032 (USD MILLION & MW)**

5.1 Key trends

5.2 Reaction

5.3 Impulse

## **CHAPTER 6 MARKET SIZE AND FORECAST, BY EXHAUST, 2021 - 2032 (USD MILLION & MW)**

6.1 Key trends

6.2 Condensing

6.3 Non-condensing

## **CHAPTER 7 MARKET SIZE AND FORECAST, BY FUEL, 2021 - 2032 (USD MILLION & MW)**

7.1 Key trends

7.2 Fossil fuel

7.3 Biomass

7.4 Geothermal

## **CHAPTER 8 MARKET SIZE AND FORECAST, BY END USE, 2021 - 2032 (USD MILLION & MW)**

8.1 Key trends

8.2 Industrial

8.2.1 Refinery

8.2.2 Chemical plant

8.2.3 Sugar plant

8.2.4 Pulp & paper

8.2.5 Others

8.3 Utility

## **CHAPTER 9 MARKET SIZE AND FORECAST, BY CAPACITY, 2021 - 2032 (USD MILLION & MW)**

9.1 Key trends

9.2 ? 3 MW

9.3 > 3 MW - 100 MW

9.4 > 100 MW

## **CHAPTER 10 MARKET SIZE AND FORECAST, BY TECHNOLOGY, 2021 - 2032 (USD MILLION & MW)**

10.1 Key trends

10.2 Steam cycle

10.3 Combined cycle

10.4 Cogeneration

## **CHAPTER 11 MARKET SIZE AND FORECAST, BY REGION, 2021 - 2032 (USD MILLION & MW)**

11.1 Key trends

11.2 North America

11.2.1 U.S.

11.2.2 Canada

11.2.3 Mexico

11.3 Europe

11.3.1 UK

11.3.2 France

11.3.3 Russia

11.3.4 Germany

11.3.5 Spain

11.3.6 Italy

11.4 Asia Pacific

11.4.1 China

11.4.2 Japan

11.4.3 South Korea

11.4.4 India

11.4.5 Australia

11.4.6 Indonesia

11.4.7 Malaysia

11.4.8 Thailand

11.5 Middle East & Africa

11.5.1 Saudi Arabia

11.5.2 UAE

- 11.5.3 Iran
- 11.5.4 Egypt
- 11.5.5 South Africa
- 11.5.6 Nigeria
- 11.5.7 Turkey
- 11.5.8 Morocco
- 11.6 Latin America
  - 11.6.1 Brazil
  - 11.6.2 Argentina
  - 11.6.3 Chile

## **CHAPTER 12 COMPANY PROFILES**

- 12.1 Ansaldo Energia
- 12.2 Bharat Heavy Electricals Limited
- 12.3 Chart Industries
- 12.4 Chola Turbo
- 12.5 Dongfang Turbine
- 12.6 Doosan Skoda Power
- 12.7 Ebara Elliott Energy
- 12.8 Fuji Electric
- 12.9 Hangzhou Turbine Power Group
- 12.10 Kawasaki Heavy Industries
- 12.11 MAN Energy Solutions
- 12.12 Mitsubishi Power
- 12.13 NCON Turbo Tech
- 12.14 Shin Nippon Machinery
- 12.15 Siemens Energy
- 12.16 Sumitomo Heavy Industries
- 12.17 Toshiba Energy Systems & Solutions
- 12.18 Trillium Flow Technologies
- 12.19 Triveni Turbine
- 12.20 Turbotech Precision Engineering

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