

Coal Fired Power Generation Market Report by Type (Pulverized Coal Systems, Cyclone Furnace, and Others), End User (Residential, Commercial, Industrial), and Region 2024-2032

Market Report | 2024-08-10 | 135 pages | IMARC Group

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Report description:

The global coal fired power generation market size reached 2,162.5 GW in 2023. Looking forward, IMARC Group expects the market to reach 2,737.6 GW by 2032, exhibiting a growth rate (CAGR) of 2.6% during 2024-2032.

A coal fired power station is a type of thermal plant that utilizes the combustion of sub-bituminous and lower volatile coal to generate electricity. It functions by burning coal to generate thermal, mechanical, and electrical energy using various technologies. As coal is easily available and highly cost effective, it represents the most widely used source for electricity production across the globe. Coal fired power plants are also more reliable and safer than their nuclear counterparts.

The escalating demand for energy on account of rapid industrialization and the increasing dependence on electrification across the globe represents one of the key factors bolstering the market growth. However, coal fired power generation produces huge amounts of polluting gases, including carbon dioxide (CO₂) sulfur dioxide (SO₂) and nitrogen oxides (NO_x). Due to the rising environmental concerns, governing agencies of various countries, along with several energy companies, are investing heavily in research and development (R&D) projects to introduce clean coal technologies. For instance, researchers are developing power plants with carbon capture and storage (CCS) capabilities that offer a flexible and cost-effective solution to decarbonize the energy production process.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global coal fired power generation market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on type and end user.

Breakup by Type:

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- Pulverized Coal Systems
- Cyclone Furnace
- Others

Breakup by End User:

- Residential
- Commercial
- Industrial

Breakup by Region:

- North America
 - o□United States
 - o□Canada
- Asia Pacific
 - o□China
 - o□Japan
 - o□India
 - o□South Korea
 - o□Australia
 - o□Indonesia
 - o□Others
- Europe
 - o□Germany
 - o□France
 - o□United Kingdom
 - o□Italy
 - o□Spain
 - o□Russia
 - o□Others
- Latin America
 - o□Brazil
 - o□Mexico
 - o□Others
- Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being American Electric Power Company, China Huaneng Group Co. Ltd., Dominion Energy Solutions Inc., Duke Energy Corporation, Eskom Holdings SOC Ltd., Jindal India Thermal Power Limited, NTPC Limited, RWE Aktiengesellschaft, STEAG GmbH (Ksbg Kommunale Beteiligungsgesellschaft GmbH & Co. Kg) and Tenaga Nasional Berhad.

Key Questions Answered in This Report:

- How has the global coal fired power generation market performed so far and how will it perform in the coming years?
- What has been the impact of COVID-19 on the global coal fired power generation market?
- What are the key regional markets?
- What is the breakup of the market based on the type?
- What is the breakup of the market based on the end user?

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- What are the various stages in the value chain of the industry?
- What are the key driving factors and challenges in the industry?
- What is the structure of the global coal fired power generation market and who are the key players?
- What is the degree of competition in the industry?

Table of Contents:

1	Preface
2	Scope and Methodology
2.1	Objectives of the Study
2.2	Stakeholders
2.3	Data Sources
2.3.1	Primary Sources
2.3.2	Secondary Sources
2.4	Market Estimation
2.4.1	Bottom-Up Approach
2.4.2	Top-Down Approach
2.5	Forecasting Methodology
3	Executive Summary
4	Introduction
4.1	Overview
4.2	Key Industry Trends
5	Global Coal Fired Power Generation Market
5.1	Market Overview
5.2	Market Performance
5.3	Impact of COVID-19
5.4	Market Forecast
6	Market Breakup by Type
6.1	Pulverized Coal Systems
6.1.1	Market Trends
6.1.2	Market Forecast
6.2	Cyclone Furnace
6.2.1	Market Trends
6.2.2	Market Forecast
6.3	Others
6.3.1	Market Trends
6.3.2	Market Forecast
7	Market Breakup by End User
7.1	Residential
7.1.1	Market Trends
7.1.2	Market Forecast
7.2	Commercial
7.2.1	Market Trends
7.2.2	Market Forecast
7.3	Industrial
7.3.1	Market Trends
7.3.2	Market Forecast

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8 Market Breakup by Region

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

8.2.3.2 Market Forecast

8.2.4 South Korea

8.2.4.1 Market Trends

8.2.4.2 Market Forecast

8.2.5 Australia

8.2.5.1 Market Trends

8.2.5.2 Market Forecast

8.2.6 Indonesia

8.2.6.1 Market Trends

8.2.6.2 Market Forecast

8.2.7 Others

8.2.7.1 Market Trends

8.2.7.2 Market Forecast

8.3 Europe

8.3.1 Germany

8.3.1.1 Market Trends

8.3.1.2 Market Forecast

8.3.2 France

8.3.2.1 Market Trends

8.3.2.2 Market Forecast

8.3.3 United Kingdom

8.3.3.1 Market Trends

8.3.3.2 Market Forecast

8.3.4 Italy

8.3.4.1 Market Trends

8.3.4.2 Market Forecast

8.3.5 Spain

8.3.5.1 Market Trends

8.3.5.2 Market Forecast

8.3.6 Russia

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- 8.3.6.1 Market Trends
- 8.3.6.2 Market Forecast
- 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends
 - 8.4.2.2 Market Forecast
 - 8.4.3 Others
 - 8.4.3.1 Market Trends
 - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast
- 9 SWOT Analysis
 - 9.1 Overview
 - 9.2 Strengths
 - 9.3 Weaknesses
 - 9.4 Opportunities
 - 9.5 Threats
- 10 Value Chain Analysis
- 11 Porters Five Forces Analysis
 - 11.1 Overview
 - 11.2 Bargaining Power of Buyers
 - 11.3 Bargaining Power of Suppliers
 - 11.4 Degree of Competition
 - 11.5 Threat of New Entrants
 - 11.6 Threat of Substitutes
- 12 Price Analysis
- 13 Competitive Landscape
 - 13.1 Market Structure
 - 13.2 Key Players
 - 13.3 Profiles of Key Players
 - 13.3.1 American Electric Power Company
 - 13.3.1.1 Company Overview
 - 13.3.1.2 Product Portfolio
 - 13.3.1.3 Financials
 - 13.3.1.4 SWOT Analysis
 - 13.3.2 China Huaneng Group Co. Ltd.
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.2.3 SWOT Analysis

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- 13.3.3 Dominion Energy Solutions Inc.
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
- 13.3.4 Duke Energy Corporation
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.4.3 Financials
 - 13.3.4.4 SWOT Analysis
- 13.3.5 Eskom Holdings SOC Ltd.
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 SWOT Analysis
- 13.3.6 Jindal India Thermal Power Limited
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
- 13.3.7 NTPC Limited
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.7.3 Financials
 - 13.3.7.4 SWOT Analysis
- 13.3.8 RWE Aktiengesellschaft
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.8.3 Financials
 - 13.3.8.4 SWOT Analysis
- 13.3.9 STEAG GmbH (Ksbg Kommunale Beteiligungsgesellschaft GmbH & Co. KG)
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio
 - 13.3.9.3 Financials
- 13.3.10 Tenaga Nasional Berhad
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 Financials
 - 13.3.10.4 SWOT Analysis

Coal Fired Power Generation Market Report by Type (Pulverized Coal Systems, Cyclone Furnace, and Others), End User (Residential, Commercial, Industrial), and Region 2024-2032

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