

# Global Supercritical Carbon Dioxide Power Generation System Components Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Supercritical Carbon Dioxide Power Generation System Components market size was valued at US\$ 165 million in 2025 and is forecast to a readjusted size of US\$ 325 million by 2032 with a CAGR of 10.4% during review period.

Supercritical CO<sub>2</sub> power generation system components are the specialized turbomachinery and heat-transfer hardware that enable a closed-loop sCO<sub>2</sub> Brayton-type power cycle to convert high-temperature heat into electricity. Typical component sets include a high-speed turbine/expander and compressor train, compact high-pressure recuperators (often printed-circuit heat exchangers), coolers/condensers, pumps, valves and piping designed for high pressures, plus seals, bearings, and control/protection systems. These components are engineered to operate around and above CO<sub>2</sub>'s critical point, where density changes sharply with temperature and pressure, placing stringent demands on mechanical integrity and thermal performance. Supercritical CO<sub>2</sub> power generation system components are transitioning from demonstration validation to engineering maturity, with key components proven in operation but still supplied mainly on a customized, small-batch basis, and large-scale standardized deployment yet to be realized.

Demand is primarily driven by (i) efficiency and footprint advantages of sCO<sub>2</sub> cycles versus conventional steam systems for certain temperature ranges, (ii) decarbonization pathways that benefit from compact, water-lean power blocks and improved heat recovery, and (iii) the transition from pilot validation to repeatable deployments as flagship demonstrations mature. Programs such as DOE-backed STEP (10 MWe scale) and early commercial waste-heat-to-power deployments are proving operability and

accelerating supplier qualification, which directly pulls demand for turbines, compressors, compact recuperators, and high-pressure balance-of-plant components.

This report is a detailed and comprehensive analysis for global Supercritical Carbon Dioxide Power Generation System Components market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Supercritical Carbon Dioxide Power Generation System Components market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Supercritical Carbon Dioxide Power Generation System Components market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Supercritical Carbon Dioxide Power Generation System Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Supercritical Carbon Dioxide Power Generation System Components market shares of main players, in revenue (\$ Million), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Supercritical Carbon Dioxide Power Generation System Components

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Supercritical Carbon Dioxide Power Generation System Components market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hanwha Power Systems, Lanzhou LS Heavy Equipment, Dongfang Electric, Echogen Power Systems, Southwest Research Institute (SwRI), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market segmentation**

Supercritical Carbon Dioxide Power Generation System Components market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Indirect-fired (heater/HTHX)

Waste-heat recovery (WHR)

Direct-fired oxy-combustion (Allam-type)

#### Market segment by Structure

Single-shaft train

Multi-shaft train

#### Market segment by Pressure

Medium Pressure

High Pressure

### Market segment by Application

Nuclear Reactor

Heat Recovery

CPS

Others

### Market segment by players, this report covers

Hanwha Power Systems

Lanzhou LS Heavy Equipment

Dongfang Electric

Echogen Power Systems

Southwest Research Institute (SwRI)

### Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Supercritical Carbon Dioxide Power Generation System Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Supercritical Carbon Dioxide Power Generation System Components, with revenue, gross margin, and global market share of Supercritical Carbon Dioxide Power Generation System Components from 2021 to 2026.

Chapter 3, the Supercritical Carbon Dioxide Power Generation System Components competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Supercritical Carbon Dioxide Power Generation System Components market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Supercritical Carbon Dioxide Power Generation System Components.

Chapter 13, to describe Supercritical Carbon Dioxide Power Generation System Components research findings and conclusion.

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