

# Global Supercritical Carbon Dioxide Power Generation System Components Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Supercritical Carbon Dioxide Power Generation System Components market size is expected to reach \$ 325 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

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 studies the global Supercritical Carbon Dioxide Power Generation System

Components demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Supercritical Carbon Dioxide Power Generation System Components, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Supercritical Carbon Dioxide Power Generation System Components that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Supercritical Carbon Dioxide Power Generation System Components total market, 2021-2032, (USD Million)

Global Supercritical Carbon Dioxide Power Generation System Components total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Supercritical Carbon Dioxide Power Generation System Components total market, key domestic companies, and share, (USD Million)

Global Supercritical Carbon Dioxide Power Generation System Components revenue by player, revenue and market share 2021-2026, (USD Million)

Global Supercritical Carbon Dioxide Power Generation System Components total market by Type, CAGR, 2021-2032, (USD Million)

Global Supercritical Carbon Dioxide Power Generation System Components total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Supercritical Carbon Dioxide Power Generation System Components market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Supercritical Carbon Dioxide Power Generation System Components Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Supercritical Carbon Dioxide Power Generation System Components Market,  
Segmentation by Type:

Indirect-fired (heater/HTHX)

Waste-heat recovery (WHR)

Direct-fired oxy-combustion (Allam-type)

Global Supercritical Carbon Dioxide Power Generation System Components Market,  
Segmentation by Structure:

Single-shaft train

Multi-shaft train

Global Supercritical Carbon Dioxide Power Generation System Components Market,  
Segmentation by Pressure:

Medium Pressure

High Pressure

Global Supercritical Carbon Dioxide Power Generation System Components Market,  
Segmentation by Application:

Nuclear Reactor

Heat Recovery

CPS

Others

**Companies Profiled:**

Hanwha Power Systems

Lanzhou LS Heavy Equipment

Dongfang Electric

Echogen Power Systems

Southwest Research Institute (SwRI)

Key Questions Answered

1. How big is the global Supercritical Carbon Dioxide Power Generation System Components market?
2. What is the demand of the global Supercritical Carbon Dioxide Power Generation System Components market?
3. What is the year over year growth of the global Supercritical Carbon Dioxide Power Generation System Components market?
4. What is the total value of the global Supercritical Carbon Dioxide Power Generation System Components market?
5. Who are the Major Players in the global Supercritical Carbon Dioxide Power

Generation System Components market?

6. What are the growth factors driving the market demand?

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