

Global Compressed Air Energy Storage (CAES) Turbocompressors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Compressed Air Energy Storage (CAES) Turbocompressors market size is expected to reach \$ 972 million by 2032, rising at a market growth of 17.1% CAGR during the forecast period (2026-2032).

Compressed Air Energy Storage turbocompressors are a class of large dynamic rotating machines installed on the charging side of compressed air energy storage power plants to convert electrical energy into compressed-air pressure energy. The equipment continuously draws in and compresses air through high-speed rotating impellers, enabling the air to reach the pressure and flow requirements of underground salt caverns, artificial caverns, abandoned mines, lined rock caverns, or high-pressure gas storage facilities. The research scope mainly covers axial compressors, single-shaft centrifugal compressors, integrally geared centrifugal compressors, axial-centrifugal combined compressors, and compressor trains formed by multiple units connected in series or parallel. A typical product consists of the compressor body, impellers, rotor, casing, bearings, gearbox, coupling, main drive motor, lubrication system, sealing system, anti-surge system, inlet control device, condition monitoring device, and control system.

The operating process generally includes air filtration, low-pressure compression, intercooling or compression heat recovery, medium- and high-pressure compression, final-stage cooling, and high-pressure air delivery. Adiabatic systems focus on retaining and storing the heat generated during compression, while isothermal and near-isothermal systems reduce compression power consumption through enhanced intercooling. Non-combustion systems require dynamic coordination between the compressor and the thermal storage, air storage, and expansion power generation

sections. Key specifications include rated flow rate, suction pressure, discharge pressure, overall pressure ratio, shaft power, number of stages, single-stage efficiency, overall machine efficiency, operating range, surge margin, start-up and shutdown time, vibration level, noise level, continuous operating duration, and design life. Large-scale products can reach flow rates ranging from several hundred thousand to approximately one million cubic meters per hour, while some high-pressure models can achieve discharge pressures at the hundred-bar level. The equipment must also withstand frequent start-stop cycles, rapid load ramping, and long-term cyclic operation.

These products are mainly used in renewable-energy-integrated storage on the generation side, independent storage on the grid side, shared energy storage, peak shaving and frequency regulation, reserve capacity, and long-duration power balancing. They are core pieces of equipment in large compressed air energy storage power plants, directly affecting charging capacity, system efficiency, reliability, and unit investment cost. Based on estimates derived from publicly disclosed project unit volumes, equipment contract values, production and delivery schedules, and global supplier revenue models, global shipments of turbocompressors for compressed air energy storage were approximately 80 units in 2025. The industry average price was about USD 3.85 million per unit, and the industry average gross margin was approximately 28% to 35%.

Compressed Air Energy Storage turbocompressors occupy a central position in the long duration energy storage equipment value chain. The upstream segment includes alloy steel, stainless steel, large castings and forgings, impeller and rotor materials, high precision bearings, gears, seals, electric motors, starting and variable speed equipment, lubrication systems, sensors, and industrial control components. Large rotor forgings, complex impellers, high speed gears, and reliable bearing systems have a particularly strong influence on manufacturing lead time and supply security. The midstream segment covers aerodynamic design, compressor stage development, impeller machining, rotor balancing, casing manufacturing, train assembly, mechanical testing, and control system integration. Suppliers must combine expertise in axial compression, centrifugal compression, integrally geared transmission, rotor dynamics, high pressure sealing, anti surge protection, and coordinated operation of several compressor casings. The downstream segment consists mainly of energy storage project developers, electric utilities, grid operators, renewable energy bases, and large industrial users. Orders are normally project based, technically customized, capital intensive, and delivered in a limited number of large batches. Consequently, industry value is concentrated in aerodynamic intellectual property, wide operating range, mechanical reliability, system controls, and lifetime service capability rather than in

conventional mechanical assembly.

The global supply structure is characterized by a small number of qualified turbomachinery groups and a geographic distribution of orders that closely follows the location of large energy storage projects. European suppliers retain deep experience in integrally geared compressors, combined axial and centrifugal arrangements, and early utility scale compressed air storage installations. North American activity is increasingly organized around advanced compressed air storage developments in which project developers, equipment companies, investors, and engineering partners cooperate before final construction approval. China has developed the most active recent manufacturing environment because several large salt cavern and mined cavern projects have entered equipment procurement, production, testing, and commissioning. This has accelerated the establishment of domestic aerodynamic development, component manufacturing, full train testing, and project delivery capabilities. The regional shift is not simply a transfer toward lower manufacturing cost. It is being driven by project concentration, local engineering knowledge, access to heavy manufacturing facilities, test capacity, and the ability to coordinate equipment with underground storage construction. Corporate restructuring and consolidation within the turbomachinery sector are also concentrating compressor assets within broader energy technology platforms, enabling closer integration among compression, electric drive, control, expansion, generation, and long term service activities.

Demand is led by grid connected independent storage and large renewable energy developments that require long duration balancing, while shared storage facilities, reused mines, industrial energy systems, and regional reserve capacity provide additional opportunities. Salt caverns remain an attractive option for very large projects because they can offer substantial storage volume and relatively stable pressure behaviour. Mined caverns and lined rock caverns broaden geographic availability but require greater investment in excavation, sealing, water management, and underground engineering. Compressor technology is moving away from combinations of conventional industrial machines toward purpose designed trains with large flow capacity, high overall pressure ratios, broad operating ranges, rapid starts, and repeated cycling capability. Axial stages can be used for very large low pressure flow, while centrifugal and integrally geared stages provide medium and high pressure compression with effective intercooling. Control architecture is also evolving from individual machine automation toward coordinated train starting, load distribution, digital condition monitoring, remote diagnostics, and predictive maintenance. As individual storage projects become larger, competition will increasingly focus on efficiency, availability, operating flexibility, starting performance, lifetime cost, and service support rather than

on basic manufacturing capability alone.

The policy environment is supporting a transition from demonstration projects toward broader commercial deployment. Growing renewable penetration, demand for longer storage duration, electricity market reform, capacity compensation, and increasing requirements for grid flexibility provide the principal foundations for future investment. Public policy has continued to support compressed air storage through pilot projects, first equipment programmes, green technology demonstrations, and mechanisms intended to improve coordination across the storage value chain. Capital expenditure is likely to concentrate in regions that combine suitable underground storage conditions, substantial renewable generation, and a clear need for grid regulation. Investment in new manufacturing bases, full scale test facilities, large rotor production, high pressure casing capacity, and digital control platforms should gradually improve delivery capability and reduce project risk. Nevertheless, industry development remains exposed to long permitting periods, underground engineering uncertainty, high initial investment, project financing conditions, utilization levels, and the availability of stable electricity market revenues. Some announced developments may therefore be delayed, redesigned, or cancelled. Sustainable competitive advantage will depend on verified project performance, system efficiency, schedule certainty, financing compatibility, and dependable operation across the full equipment life cycle. Suppliers with proven large project references and complete train engineering capabilities are consequently expected to capture an increasing share of future orders.

Report Scope

This report studies the global Compressed Air Energy Storage (CAES) Turbocompressors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Compressed Air Energy Storage (CAES) Turbocompressors 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 Compressed Air Energy Storage (CAES) Turbocompressors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Compressed Air Energy Storage (CAES) Turbocompressors total production and demand, 2021-2032, (Units)

Global Compressed Air Energy Storage (CAES) Turbocompressors total production value, 2021-2032, (USD Million)

Global Compressed Air Energy Storage (CAES) Turbocompressors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Compressed Air Energy Storage (CAES) Turbocompressors consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Compressed Air Energy Storage (CAES) Turbocompressors domestic production, consumption, key domestic manufacturers and share

Global Compressed Air Energy Storage (CAES) Turbocompressors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Compressed Air Energy Storage (CAES) Turbocompressors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Compressed Air Energy Storage (CAES) Turbocompressors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Compressed Air Energy Storage (CAES) Turbocompressors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Xi'an Shaangu Power Co., Ltd., Shenyang Blower Works Group Corporation, Everllence SE, Siemens Energy AG, Baker Hughes Company, Zhongchu Guoneng (Beijing) Technology Co., Ltd., New JCM Group Co., Ltd., Atlas Copco AB, 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 Compressed Air Energy Storage (CAES) Turbocompressors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, 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 Compressed Air Energy Storage (CAES) Turbocompressors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Compressed Air Energy Storage (CAES) Turbocompressors Market, Segmentation by Type:

Axial Compressors

Centrifugal Compressors

Others

Global Compressed Air Energy Storage (CAES) Turbocompressors Market, Segmentation by Discharge Pressure Class:

Low-pressure Class Below 4 MPa

Medium-pressure Class 4 to 8 MPa

High-pressure Class 8 to 12 MPa

Ultra-high-pressure Class Above 12 MPa

Global Compressed Air Energy Storage (CAES) Turbocompressors Market, Segmentation by Rated Flow Class:

Below 100,000 m³/h

100,000 to 300,000 m³/h

300,000 to 600,000 m³/h

Above 600,000 m³/h

Global Compressed Air Energy Storage (CAES) Turbocompressors Market, Segmentation by Power Rating:

Below 100 MW

100 to Below 300 MW

300 to Below 500 MW

500 MW and Above

Global Compressed Air Energy Storage (CAES) Turbocompressors Market, Segmentation by Application:

Renewable Energy Integration

Grid-side Independent Energy Storage

Shared Energy Storage

Others

Companies Profiled:

Xi'an Shaangu Power Co., Ltd.

Shenyang Blower Works Group Corporation

Everllence SE

Siemens Energy AG

Baker Hughes Company

Zhongchu Guoneng (Beijing) Technology Co., Ltd.

New JCM Group Co., Ltd.

Atlas Copco AB

Key Questions Answered:

1. How big is the global Compressed Air Energy Storage (CAES) Turbocompressors market?
2. What is the demand of the global Compressed Air Energy Storage (CAES) Turbocompressors market?
3. What is the year over year growth of the global Compressed Air Energy Storage (CAES) Turbocompressors market?
4. What is the production and production value of the global Compressed Air Energy Storage (CAES) Turbocompressors market?
5. Who are the key producers in the global Compressed Air Energy Storage (CAES) Turbocompressors market?
6. What are the growth factors driving the market demand?

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