

Global Compressed Air Energy Storage Units Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G87B71D786B0EN.html>

Date: June 2026

Pages: 145

Price: US\$ 4,480.00 (Single User License)

ID: G87B71D786B0EN

Abstracts

The global Compressed Air Energy Storage Units market size is expected to reach \$ 147 million by 2032, rising at a market growth of 11.0% CAGR during the forecast period (2026-2032).

Compressed Air Energy Storage Units (CAES Units) are energy storage systems that use electricity to compress air and store it in underground caverns, pressure vessels, or other storage structures. When electricity is needed, the compressed air is released, heated if necessary, and expanded through turbines or generators to produce power. CAES units are mainly used for grid-scale energy storage, renewable energy integration, peak shaving, backup power, and power system balancing, offering long-duration storage capability and relatively large storage capacity compared with many battery-based systems. In 2025, global Compressed Air Energy Storage Units production reached approximately 41 units, with an average global market price of around 1.6 million USD/unit. The production capacity for Compressed Air Energy Storage Units in 2025 was approximately 50 units. The typical gross profit margin for Compressed Air Energy Storage Units between 20% and 40%.

The Compressed Air Energy Storage Units market is expanding as power grids require more long-duration energy storage to support renewable energy integration, grid stability, and peak-load management. Market growth is driven by rising wind and solar deployment, increasing demand for large-scale non-lithium energy storage, and government support for grid flexibility projects. Compared with lithium-ion batteries, CAES offers advantages in long storage duration, large capacity, lower degradation risk, and potential cost competitiveness for utility-scale applications, although its deployment is still limited by geological requirements, high upfront investment, and relatively complex system engineering.

This report studies the global Compressed Air Energy Storage Units production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

U.S. VS China: Compressed Air Energy Storage Units domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Compressed Air Energy Storage Units 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 Hydrostor, APEX CAES, Storelectric, Keep Energy Systems, Corre Energy, AirBattery, Highview Power, BaroMar, Sherwood Power, ALACAES, 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 Units 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 Units Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Compressed Air Energy Storage Units Market, Segmentation by Type:

Diabatic

Adiabatic

Isothermal

Global Compressed Air Energy Storage Units Market, Segmentation by Storage Form:

Underground

Underwater

Above Ground

Global Compressed Air Energy Storage Units Market, Segmentation by Application:

Grid Management

Renewable Energy Integration

Others

Companies Profiled:

Hydrostor

APEX CAES

Storelectric

Keep Energy Systems

Corre Energy

AirBattery

Highview Power

BaroMar

Sherwood Power

ALACAES

Enairys Powertech

Powerphase

Brayton Energy

Siemens Energy

Everllence

Ingersoll Rand

KOBE STEEL

Doosan Skoda Power

Green-Y Energy AG

SHAANGU

Key Questions Answered:

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

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