

Global CO₂ Capture Solvents and Sorbents Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global CO₂ Capture Solvents and Sorbents market size is predicted to grow from US\$ 1859 million in 2025 to US\$ 6421 million in 2032; it is expected to grow at a CAGR of 18.7% from 2026 to 2032.

CO₂ capture solvents and sorbents are functional materials used to selectively capture CO₂ from flue gas, natural gas, syngas or air. Major types include amine solvents, blended solvents, physical absorbents, solid sorbents and MOF materials. Key performance metrics include CO₂ capacity, selectivity, regeneration energy, impurity tolerance, corrosion control and long-term stability.

Carbon capture projects are moving from demonstration to industrial deployment, and high-emission industries such as cement, steel, hydrogen, power and waste incineration need capture materials with lower energy consumption, higher stability and better tolerance to complex flue gases. Amine solvents remain the mainstream route, but degradation, corrosion and regeneration energy are driving development of blended solvents, solid sorbents and structured materials.

Market growth depends on carbon pricing, subsidies, storage infrastructure and project financing. Material suppliers need to provide not only solvents or sorbents, but also compatibility with process packages, engineering design and operation systems. Future high-value products will concentrate in low-energy solvents, contamination-tolerant sorbents, MOF materials and direct-air-capture materials.

LPI (LP Information)' newest research report, the 'CO₂ Capture Solvents and Sorbents Industry Forecast' looks at past sales and reviews total world CO₂ Capture Solvents and Sorbents sales in 2025, providing a comprehensive analysis by region and market

sector of projected CO₂ Capture Solvents and Sorbents sales for 2026 through 2032. With CO₂ Capture Solvents and Sorbents sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CO₂ Capture Solvents and Sorbents industry.

This Insight Report provides a comprehensive analysis of the global CO₂ Capture Solvents and Sorbents landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on CO₂ Capture Solvents and Sorbents portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CO₂ Capture Solvents and Sorbents market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CO₂ Capture Solvents and Sorbents and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global CO₂ Capture Solvents and Sorbents.

This report presents a comprehensive overview, market shares, and growth opportunities of CO₂ Capture Solvents and Sorbents market by product type, application, key players and key regions and countries.

Segmentation by Type:

Solid Sorbents

Liquid Sorbents

Segmentation by Source:

Post-Combustion Capture Materials

Pre-Combustion Capture Materials

Direct Air Capture Sorbents

Other

Segmentation by Structure:

Pellet Sorbents

Membrane-Sorbent Hybrids

Other

Segmentation by Application:

Power Plants

Cement Plants

Steel Mills

Hydrogen Production

Waste Incineration

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

BASF

Shell Catalysts & Technologies

Mitsubishi Heavy Industries

Carbon Clean

Aker Carbon Capture

Honeywell

Fluor

Svante

Clariant

Linde

Sinopec

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