

Global Carbon Capture Patent Intelligence 2026 – Strategic Analysis of Patent Landscape, Innovation Trends, Intellectual Property, Technology Domains, and Future Outlook

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Abstracts

The Global Carbon Capture Patent Intelligence report provides an in-depth analysis of the intellectual property landscape within the global carbon capture industry by evaluating patent filing activities, technology innovation trends, patent ownership, research activities, and emerging innovation domains. The report enables organizations to monitor technology leadership, assess competitive intellectual property positions, identify licensing opportunities, and support strategic decisions related to research, product development, and technology commercialization.

The study examines global patent portfolios across post-combustion capture, pre-combustion capture, oxy-combustion, direct air capture (DAC), chemical absorption, physical absorption, advanced solvents, solid sorbents, adsorption, membrane separation, chemical looping, and next-generation carbon capture technologies. It also analyzes patent filing trends, leading patent holders, technology domains, citation analysis, geographic distribution, and emerging innovators to provide actionable intelligence on the evolving carbon capture innovation ecosystem. Patent studies show substantial activity across CCUS, with recent research identifying advanced membranes, CO₂ solidification, and electrocatalytic CO₂ conversion among important emerging technology pathways.

The report further highlights patent commercialization opportunities, licensing activities, research collaborations, and future technology directions to help organizations strengthen innovation strategies and intellectual property portfolios.

Key Coverage

Carbon capture patent landscape

Patent filing trends

Technology domain analysis

Leading patent holders

Patent portfolio benchmarking

Geographic patent distribution

Citation analysis

Licensing landscape

White-space opportunities

Future patent outlook

Target Audience

Chief Intellectual Property Officers (CIPOs)

Intellectual Property (IP) Teams

Patent Attorneys & Patent Analysts

Research & Development (R&D) Teams

Carbon Capture Technology Strategy Teams

Innovation Management Teams

Carbon Capture Technology Developers

Industrial Decarbonization Companies

Power Generation Companies

Oil & Gas and Energy Companies

Cement, Steel & Chemicals Companies

Carbon Management & CCUS Companies

Engineering, Procurement & Construction (EPC) Companies

Technology Scouting Teams

Licensing & Technology Transfer Teams

Universities & Research Institutions

Government & Research Organizations

Investment & Venture Capital Firms

What This Report Offers

Comprehensive carbon capture patent landscape assessment

Patent filing and publication trend analysis

Leading patent holder and assignee benchmarking

Patent portfolio comparison

Carbon capture technology domain and innovation hotspot analysis

Citation and inventor analysis

Geographic patent intelligence

Patent expiry analysis

Licensing landscape assessment

Freedom-to-operate overview

White-space and opportunity identification

Emerging carbon capture innovator tracking

Future carbon capture patent outlook

Key Companies Covered (Illustrative)

Exxon Mobil Corporation

Shell plc

Mitsubishi Heavy Industries, Ltd.

Honeywell International Inc.

Baker Hughes Company

Fluor Corporation

SLB

Aker Solutions ASA

Linde plc

Air Liquide S.A.

Air Products and Chemicals, Inc.

Carbon Clean Solutions Limited

Svante Inc.

Climeworks AG

And other leading patent holders and industry participants.

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12.7 SLB

12.8 Aker Solutions ASA

12.9 Linde plc

12.10 Air Liquide S.A.

12.11 Air Products and Chemicals, Inc.

12.12 Carbon Clean Solutions Limited

12.13 Svante Inc.

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12.15 Carbon Engineering Ltd.

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