

# **Europe Carbon Capture and Storage Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034**

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### **Abstracts**

Europe Carbon Capture And Storage Market, valued at USD 1.2 billion in 2024, is set to grow at an impressive CAGR of 24% from 2025 to 2034, driven by accelerating efforts to decarbonize industries and meet stringent climate targets. With an urgent global focus on reducing greenhouse gas emissions, CCS is rapidly emerging as a critical solution across energy, industrial, and manufacturing sectors.

Government initiatives such as carbon pricing mechanisms and subsidies are catalyzing significant investments in CCS projects, while public and private partnerships are fostering innovation and scalability. The integration of CCS with renewable energy strategies and the growing demand for blue hydrogen and bioenergy with carbon capture and storage (BECCS) further highlights the market's transformative potential. Shared infrastructure within industrial clusters is enabling cost efficiencies and encouraging collaborative approaches, positioning CCS as a cornerstone in Europe's transition to a low-carbon economy.

Advancements in capture technologies, including chemical absorption and membrane-based systems, are enhancing operational efficiency and driving cost reductions, making CCS more accessible to diverse industries. The post-combustion capture technology segment is on track to generate USD 14 billion by 2034, reflecting its rising popularity for reducing emissions in energy-intensive processes. The ability of post-combustion methods to retrofit existing plants provides a competitive edge over pre-combustion technologies, making them a preferred choice for industries looking to achieve emission targets without significant infrastructure overhauls. Increasing energy demands from oil and gas operations and continuous funding in post-combustion technology underscore its importance as a long-term solution for industrial



#### decarbonization.

The power generation sector is set to grow at a robust CAGR of 26% by 2034, underscoring the vital role of CCS in mitigating emissions from fossil fuel-based power plants. By implementing CCS, power plants can continue leveraging affordable fossil fuels while significantly reducing their carbon footprint. Beyond power generation, high-emission sectors such as cement and chemical manufacturing are also witnessing a surge in carbon capture initiatives, presenting lucrative growth opportunities for the market.

The UK, a frontrunner in Europe's CCS landscape, is projected to reach USD 9 billion by 2034, bolstered by strong government policies and ambitious net-zero emission goals by 2050. Initiatives such as the Carbon Capture, Usage, and Storage (CCUS) Action Plan and substantial funding allocations are accelerating the development of large-scale CCS projects, particularly in power generation and heavy industries. The UK is also advancing hydrogen production using CCS technologies, positioning itself as a leader in low-carbon energy solutions and strengthening its influence in the global CCS market.

This exponential growth in Europe's carbon capture and storage market reflects the region's commitment to sustainability and technological innovation, paving the way for a greener, more resilient future.



### **Contents**

#### **CHAPTER 1 METHODOLOGY & SCOPE**

- 1.1 Market scope & definitions
- 1.2 Market estimates & forecast parameters
- 1.3 Forecast calculation
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid
    - 1.4.2.2 Public

#### **CHAPTER 2 INDUSTRY INSIGHTS**

- 2.1 Industry ecosystem analysis
- 2.2 Regulatory landscape
- 2.3 Industry impact forces
  - 2.3.1 Growth drivers
  - 2.3.2 Industry pitfalls & challenges
- 2.4 Growth potential analysis
- 2.5 Porter's analysis
  - 2.5.1 Bargaining power of suppliers
  - 2.5.2 Bargaining power of buyers
  - 2.5.3 Threat of new entrants
  - 2.5.4 Threat of substitutes
- 2.6 PESTEL analysis

### **CHAPTER 3 COMPETITIVE LANDSCAPE, 2024**

- 3.1 Introduction
- 3.2 Strategic outlook
- 3.3 Innovation & sustainability landscape

## CHAPTER 4 MARKET SIZE AND FORECAST, BY TECHNOLOGY, 2021 – 2034 (MTPA, USD BILLION)

- 4.1 Key trends
- 4.2 Pre combustion



- 4.3 Post combustion
- 4.4 Oxy-fuel combustion

# CHAPTER 5 MARKET SIZE AND FORECAST, BY APPLICATION, 2021 – 2034 (MTPA, USD BILLION)

- 5.1 Key trends
- 5.2 Oil and gas
- 5.3 Chemical processing
- 5.4 Power generation
- 5.5 Others

## CHAPTER 6 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2034 (MTPA, USD BILLION)

- 6.1 Key trends
- 6.2 UK
- 6.3 Germany
- 6.4 Denmark
- 6.5 Sweden

### **CHAPTER 7 COMPANY PROFILES**

- 7.1 Air Products
- 7.2 Aker Solutions
- 7.3 Chevron
- 7.4 Dakota Gasification
- 7.5 Equinor
- 7.6 Exxon Mobil
- 7.7 Fluor
- 7.8 General Electric
- 7.9 Halliburton
- 7.10 Linde
- 7.11 Mitsubishi Heavy
- 7.12 NRG Energy
- 7.13 Shell
- 7.14 Siemens
- 7.15 SLB
- 7.16 Sulzer



### 7.17 TotalEnergies



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