


Navigating The Future Of Carbon Management

Insights Into Biogenic CO₂, CCUS, And Shifting CO₂ Supply Dynamics In The UK

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Report Description



United Kingdom Carbon Dioxide Market Outlook

The United Kingdom carbon dioxide market attained a volume of **725.29 KMT** in 2023. The market is estimated to witness a CAGR of **1.64%** during 2024-2040 to reach a volume of **965.64 KMT** by 2040.



Key Players Covered In The Report



Carbon Capture, Utilization, and Storage (CCUS) Market Overview

In March 2023, the UK government committed **USD 24.88 billion** for CCUS technology development, aiming to capture **20-30 million** tonnes of CO2 annually by 2050. The CCUS project supports the UK's cluster sequencing process, with Hynet and East Coast Clusters in Track-1 and Acorn CCS and Viking CCS in Track-2.

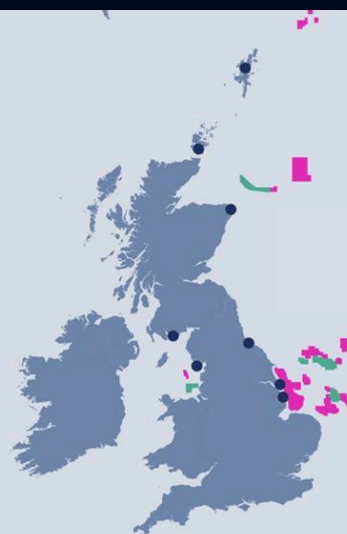


In May 2023, The UK And Denmark Signed An MoU To Collaborate On Net Zero, Including CCUS, Offshore Renewables, And Green Hydrogen.

In 2023, The NSTA Offered 20 Carbon Storage Licenses, Potentially Storing

30 Million

Tonnes Of CO2 Annually By 2030.



The UK Government Selected 8 Projects For Phase-2 CCUS Cluster Sequencing, Including Net Zero Teesside And HyNet Cluster Projects.

The Dispatchable Power Agreement (DPA) Launched In 2022 Supports Flexible CCS Power Generation, Prioritizing Renewable And Nuclear Dispatch.

Shifting CO2 Supply Dynamics in the UK

Natural gas accounts for 70% of ammonia production costs.

Price fluctuations in natural gas can make ammonia production unprofitable and affect CO2 supply.

The spike in natural gas prices began in mid-2020 due to international price increases.

The UK uses a market-based gas purchasing framework with hedged contracts and spot market options.

Many UK suppliers cannot pass on high costs to customers due to the OfGEM price cap.

2021

CF Fertilisers Supplied **60%** Of The UK's CO2 For Various Industries, Including Fizzy Drinks And Animal Stunning.

The Billingham Facility Was The UK's Largest Producer Of Ammonia, Ammonium Nitrate, And CO2.

2022 & 23

CF Fertilisers UK Temporarily Halted Ammonia Production At The Billingham Complex In August 2022 Due To Rising Natural Gas Prices.

The Plant Was Permanently Closed By Q3 2023 For The Same Reason.

2022 & 23

The Shutdown Of UK Ammonia Plants Has Increased Reliance On Imported CO2.

In 2023, The Netherlands, Belgium, Czech Republic, And Norway Supplied **89%** Of The UK's Imported CO2 By Value.

Biogenic CO2 Market Overview

Biogenic CO2, Released From Burning Recently Grown Fuels, Is Considered Climate Neutral.

Biogenic CO2 Emissions Are CO2 Neutral, As The Carbon Was Absorbed During Growth.

UK Companies Like Air Liquide And Ensus UK Ltd Are Producing Biogenic CO2 For Sustainability.



In July 2024, Air Liquide Announced It Would Supply Locally Produced Biogenic CO2 From Its Wisington Bioethanol Plant For Sustainability In Food, Pharmaceuticals, And Chemicals.



Ensus UK Ltd Produces Biogenic CO2 From CO2-Absorbing Raw Materials, With Nippon Gases Capturing And Liquefying It For Food And Healthcare Industries.



Green Create Produces Biogas Upgraded Into Bio-Methane, Bio LNG, And Renewable Energy, Capturing And Liquefying CO2 For Storage Using Membrane Separation Technology.

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