

Custom Databases

Features:


- Assessment of best available technology for any project (considering, flue gas composition, size of plant, location, industry, available energy source, etc.)
- In-house costing model for specific use cases
- Identification of similar case studies deployed or to be constructed globally
- Profiles of technology providers/ developers

Data points:

- 100+ carbon capture technologies from 8 technology families
- 600+ organizations (developers, suppliers, and users)
- 700+ projects (that feed data to our cost calculator)

Carbon Capture and Storage

Carbon capture and storage (CCS) is an important approach for mitigating climate change. This database contains information about large-scale projects and research in the field of CCS including technologies, technology providers, and projects. The data can be used to inform decisions about how to best implement CCS technologies.




Carbon Capture Cost Calculator

The cost of a carbon capture plant can vary greatly depending on various factors such as location, concentration of CO2 in the flue gas, size of plant, etc. This tool will help you to approximately calculate the cost of capture per ton of CO2, CAPEX and OPEX of a carbon capture plant based on your needs.


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[OPEN CALCULATOR](#)


Technology Database



Technologies



Projects



Providers

Q. Type here to search

APPLICATION TYPE: APPLICATION...

TECHNOLOGY TYPE: TECHNO...


TECHNOLOGY READINESS: TECHNOLOGY...

EFFICIENCY: EFFICIENCY

INDUSTRY: INDUSTRY

SUB-INDUSTRY: SUB-INDUSTRY

FLUE GAS CO2 CONCENTRATION: FLUE GAS CO...




Shell

Cansolv

Solvent-Based Systems - Liquid absorption

Post-Combustion

EFFICIENCY 90%




Fluor

Econoamine FG Plus

Solvent-Based Systems - Liquid absorption

Post-Combustion

EFFICIENCY 90%




Mitsubishi Heavy Industries (MHI), Korea Electric Power Corporation (KEPCO)

Advanced KM CDR Process (KS-21 Solvent)

Solvent-Based Systems - Liquid absorption

Post-Combustion

EFFICIENCY 90%




BASF, Linde

OASE® blue

Solvent-Based Systems - Liquid absorption

Post-Combustion

EFFICIENCY 90%




CO2 Capsol

Capsol EoP

Solvent-Based Systems - Liquid absorption

Post-Combustion

EFFICIENCY 90%




Saipem

CO2 Solutions

Solvent-Based Systems - Liquid absorption

Post-Combustion

EFFICIENCY 80%




FuelCell Energy

Molten Carbonate Fuel Cell

Fuel Cells

Post-Combustion

EFFICIENCY 90%




NET Power

NET Power Cycle

Oxy-fuel Combustion

Post-Combustion

EFFICIENCY 97%



Aker Carbon Capture

Advanced Carbon Capture process

Solvent-Based Systems - Liquid absorption

Post-Combustion

EFFICIENCY 90%

Advanced Carbon Capture process

PROVIDER: Aker Carbon Capture

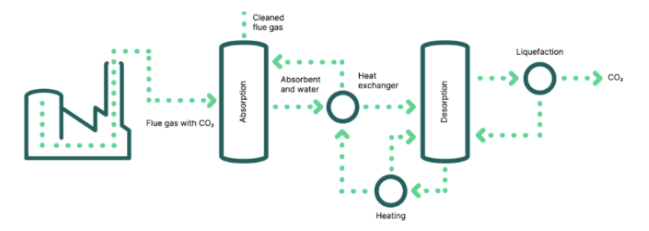
APPLICATION TYPE: Post-Combustion

TECHNOLOGY TYPE: Solvent-Based Systems - Liquid absorption

EFFICIENCY: 90%

INDUSTRY: Chemicals, Oil & Gas

SUB-INDUSTRY: Chemicals



FLUE GAS: CO2 CONCENTRATION: Low (1-5%), Medium (5-10%), High (10-15%), Very High (>15%)

LEVELIZED COST OF CAPTURE (\$/T CO2): \$61.00

ADDITIONAL COST INFORMATION: 40-90 €/tonCO2

PROJECT	PARTICIPANTS	COUNTRY
Klemetsrud Waste to Energy Plant	ABB Norge, Hitachi Zosen Inova	Norway
Runcom CCS	Viridor	United Kingdom
Net Zero Teesside - CCGT Facility	Aker Solutions, Altrad Babcock, Siemens Energy	United Kingdom
Norcem Brevik	HeidelbergCement (Lehigh Cement)	Norway

Net Zero Teesside - CCGT Facility

Gas-fired power station

The Net Zero Teesside - CCGT Facility (previously Clean Gas Project) will use natural gas to generate power via a Combined Cycle Gas Turbine (CCGT) gas-fired generating station. The Facility forms part of the Northern Endurance Partnership's East Coast Cluster. Alternative name of the project if "Teesside Collective Industrial CCS Project".

COUNTRY	STATUS	CATEGORY
United Kingdom	-	Commercial CCS Facility

PLANT TYPE	PLANT SIZE	PLANT SIZE (UNITS)
Stationary	860.00	Megawatt

FLOWRATE (TPD)	CO2 CAPTURED	CO2 CAPTURED (UNITS)
High: >1,000 tpd	2000000.0	Metric Tons per Year

CO2 CONCENTRATION IN FLUE GAS	LEVEL COST OF CAPTURE (\$/T CO2)	PROJECT COST (USD)
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