S&P Global
Commodity Insights

Cost Estimator for CCUS



The S&P Global Commodity Insights CCUS Cost Estimator is a pre-FEED cost estimation tool that enables the creation of early-stage cost estimates for Carbon Capture, Utilization and Storage projects, enabling investors and decision makers to base decisions on comprehensive and reliable data.

With increased focus on CCUS as a decarbonization pathway there has been a significant rise in the announcement of CCUS Projects globally. At the end of 2022, the Commodity Insights CCUS Project database had 400 projects. At the beginning of 2024 that number had grown to 933.

Why CCUS Cost Estimator

In assessing the economic viability of CCUS projects companies need to accurately estimate equipment, materials and services costs needed to build and operate projects early. Project location, emissions source, required processing, sequestration site properties, and procurement strategy and other factors have a significant role in determining the final project estimate.

Estimate reliability is key, and gathering and tracking, repeatedly, estimated cost of equipment, materials and services gives consistency to approximations.

Without producing reliable project estimates in a repeatable way any assessment of project options or prioritization cannot be trusted resulting in difficulties delivering project on budget. This would be critical in hitting planned targets and preparing for the emissions laws and costs anticipated from governments worldwide.

- Coming from the same development team as QUE$TOR; Cost and Supply Chain service CCUS Cost Estimator is based on trusted and proven tools and datasets.
- With its intuitive interface and comprehensive cost database its analytical capability can perform in the complex scenarios presented by CCUS projects
- It can be populated with project specific inputs and adjusted to model and estimate the cost of any given CCUS project.
- The detail project breakdown allows interrogation of estimates with the ability to modify properties and optimize design and development.

Workflow Enablement

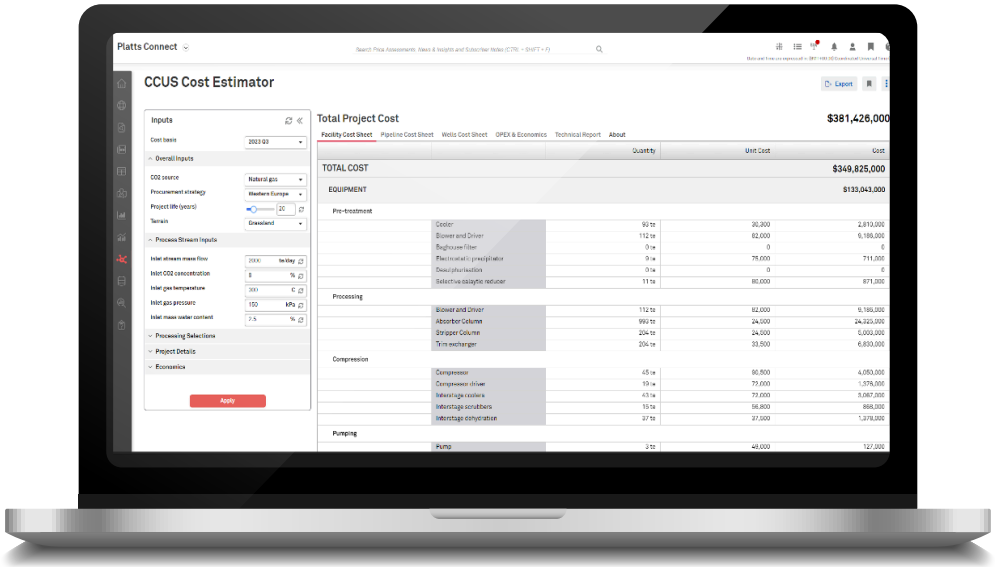
- CCUS Project Cost Assessment – progress projects with confidence in robust and comprehensive data.
- Assessment of additional CCUS Cost for an existing facility – in multiple environments
- Assessment of differing scenarios for CCUS developments tune-fine inputs to reflect changing conditions and priorities.

Coverage

Currently includes estimation for processing of flue gas, separation, compression, pumping and cooling of CO2 plus pipeline transportations and injection wells and includes up-to-date cost data globally.

Regional Cost Bases

- Africa
- Australasia
- Central and South America
- Central Asia
- China
- Eastern Europe
- North America
- Southeast Asia
- The Middle East
- Western Europe



Inputs

Project Inputs – including Cost basis, CO2 Source, Procurement Strategy (location), Project Life, and Terrain.

Process Stream Inputs – Including Inlet mass flow and CO2 Concentration (key cost drivers) plus temperature, pressure and water content.

Processing selections – selecting which equipment is needed including Pre-Cooler, Filtration, Compression, Dehydration, Pumping, and Post Cooling. Pipeline transport and Injection wells can also included to provide a more project level view beyond just the facility.

Project details – Such as Elevation, Export pressure, Compressor, Pump, and Pipeline, discharge pressures, Driver selection, number of wells, pipeline diameter and length, and CO2 removal extent

These can all be edited to tailor the estimate to the specific case dependent on how much Carbon Dioxide is to be removed from the steam and is a key tuning capability impacting cost scenarios.

CCUS Facility Cost Sheet

Accessibility/Database Updates

- CCUS Cost Estimator is accessible through Platts Connect/Scenario Manager.
- Data is updated twice a year.

This solution provides a simple to use pre-FEED CCUS project cost estimate tool to enable accurate, repeatable, and rapid estimation to facilitate reliable decision making.

Want to find out more?

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