

CARBON CAPTURE

Bechtel is at the forefront of one of the biggest challenges facing the energy industry today—carbon capture, storage, and use. Our extensive experience of the Oil, Gas & Chemicals and Power market has given us significant expertise in the technologies employed to capture and transport carbon dioxide (CO₂). We are actively leveraging our knowledge and skills to develop scalable and economical, customer-oriented, solutions to the carbon challenge.

More than 110 yrs, we have provided our customers unmatched value by evaluating and applying new processes and technologies to industry challenges. Today, our industry-recognized technical experts are using this proven approach to systematically assess current and new technologies to arrive at the best solutions for achieving optimum plant performance, CO₂ capture, and beneficial use.

Bechtel has a long track record of managing both large and small-scale projects including many industry firsts. We are focusing our innovation, our technical resources, and our execution strength to provide dedicated value-added services for our customers facing the carbon challenge.

HIGHLIGHTS

- » After 60 years of experience in the oil, gas, and chemical production and refining industry we have become experts in acid gas treating and removal systems that use amines or physical solvents
- » Built more than 40 amine-based CO₂/H₂S removal systems for Liquefied Natural Gas (LNG) plants, gas processing plants, and petroleum refineries
- » Providing EPCM services for the 630 MW Edwardsport IGCC project, the first US IGCC in a decade, with pre-combustion carbon capture readiness

KEY PROJECTS

KÅRSTØ CARBON CAPTURE FACILITY

Overview: Bechtel performed conceptual and front-end engineering and design (FEED) work for a CO₂ capture facility in Kårstø, Norway. The facility is designed to capture CO₂ from a new 420 MW combined-cycle power plant under construction.



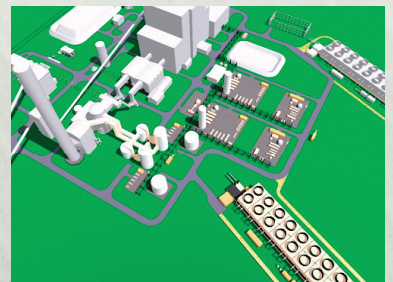
EUROPEAN TEST CENTRE MONGSTAD

Overview: Bechtel performed FEED work for a CO₂ capture pilot plant in Mongstad, Norway, in 2008. The work centered on removing CO₂ emissions from power generation and oil refinery facilities and included design basis; process equipment, and physical arrangement; environmental, safety, and health evaluation; and methodology for construction, startup, operation, and testing programs.



ELECTRIC POWER RESEARCH INSTITUTE

Overview: Nexant/Bechtel is helping the Electric Power Research Institute (EPRI) conduct engineering and economic assessments of technologies and processes for capturing CO₂ and other emissions from coal-fired power plants. Along with finding ways to improve plant performance, this valuable work identifies the best approaches to retrofit existing plants with CO₂ capture technologies.



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