

INTEGRATED GASIFICATION COMBINED-CYCLE (IGCC)

Bechtel's extensive experience over the last three decades with the Integrated Gasification Combined-Cycle (IGCC) market has given us significant expertise in the technologies employed to provide reliable, affordable clean electricity. IGCC technology converts low-cost fuel, such as coal or coke, into synthetic gas that drives combustion turbines. We have remained at the forefront of IGCC technology by leading significant advancements toward the development of cleaner and more efficient power generation.

Through our innovation, technical resources, and comprehensive engineering, procurement, construction (EPC), and startup services, we add value in deploying this IGCC technology for our customers. IGCC also offers a phased construction and repowering option, which allows multiple-fuel flexibility and necessary economic viability. IGCC technology advances continue to improve efficiency and further reduce emissions, making it the technology of the 21st century.

Today's world is demanding cleaner, more efficient and more cost-effective power generation; and we are proud to provide customers the best combination of our technical resources, and our execution strength to provide dedicated value-added services to our customers.

HIGHLIGHTS

- » No. 1 power industry engineer and constructor for 12 consecutive years, as ranked by *Engineering News-Record* magazine
- » Nearly 1.1 billion global construction hours managed during past 5 years across all industry business units
- » In 2009, more than 53 projects achieved at least 1 million safe work hours across all industry business units

KEY PROJECTS

EDWARDSPORT INTEGRATED GASIFICATION COMBINED CYCLE PROJECT

Overview: Bechtel is providing project management, engineering, procurement, and construction management services for this 618 MW IGCC Project in Edwarsport, Indiana. Edwarsport is the first IGCC plant built in the U.S. since the mid-1990s. The project is scheduled for completion in 2012.



POLK POWER STATION – UNIT 1

Overview: Bechtel provided engineering, procurement, construction management, and startup services for the 250 MW IGCC plant in Polk County, Florida. The project received the 1997 Power Plant Award from Power Magazine. The project was completed in 1998.



COOL WATER COAL GASIFICATION PROJECT

Overview: Bechtel provided EPC services for the multiple-owner Cool Water Consortium led by Texaco and Southern California Edison (SCE). The 119 MW gasification project was located at SCE's Cool Water Generating Station near Barstow, California. The project was completed in 1989.



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