

Bechtel: Solid Fuel Experience



PROVEN TECHNOLOGY AND WORLDWIDE EXPERIENCE

Since the industrial revolution, coal has been the most widely used fuel for generating power. That's still true today in much of the world. And when it comes to building coal-fired power plants that are efficient, low-cost, and environmentally safe, one company stands above the rest—Bechtel.

The record speaks for itself. Bechtel has engineered and/or constructed more than 110 generating units fueled by pulverized coal (PC), with a total capacity exceeding 36,000 megawatts. Since the early 1980s, more than 25 Bechtel-delivered PC-units, each rated at greater than 250 megawatts, have begun commercial operation. Recent projects include Millmerran, a supercritical 800-megawatt, mine-mouth operation in Australia; the Meizhou Wan project—China's first wholly foreign-owned power plant; and the 400 megawatt Springerville plant in Arizona.

Bechtel continues to set the pace for the industry through its family of plant designs that combine Bechtel's proven technology with state-of-the-art engineering, instrumentation, emissions control, and construction techniques. Our designs cover all components of a PC plant, including coal boilers, condensing reheat steam turbine generators, flue gas particulate removal, condensers, and even coal delivery by barge, ship or rail. Our Circulating Fluidized Bed (CFB) combustion plants are highly suitable for burning low grade solid fuels such as lignite, waste coal, and petroleum coke. Designs are available in a range of sizes and configurations, providing turnkey solutions that offer high quality while keeping costs down and meeting the most stringent emissions requirements.

MAJOR NON-TURNKEY PROJECTS SINCE 1980

Plant	Project / MW	Com. Op.
Coal	Tennessee Eastman (USA)/32	1994
	Belle River 1 & 2 (USA)/1,300	1984/5
	Colstrip 3 & 4 (USA)/1,440	1984/5
	Muskogee 6 (USA)/522	1984
	Gojeong 1 & 2 (Korea)/1,000	1983
	Parish 8 (USA)/550	1983
	Nelson 6 (USA)/570	1982
	Rio Escondido (Mexico)/300	1981
	Boardman 1 (USA)/500	1980
	Coronado 2 (USA)/353	1980
IGCC	Polk County (USA)/250	1996
	Cool Water (USA)/100	1985

PROJECTS IN CONSTRUCTION

Plant	Project / MW
Coal	Elm Road (USA)/1230
	Trimble County (USA) 1 X 750
FGD	Sammis (USA)/2200

COMPLETED LUMP-SUM TURNKEY PROJECTS SINCE 1986

Plant	Project / MW	Com. Op.
Coal	Springerville (USA)/400	2006
	Millmerran (Australia) Supercritical 2 x 400	2001/2
	Meizhou Wan (China)/2 x 350	2001
	Quezon (Philippines)/440	1999
	Indiantown (USA)/330	1996
	Logan (USA)/230	1995
	Carney's Point (USA)/285	1994
	Beaver Valley (USA)/130	1987
	Deepwater (USA)/135	1986
	CFB	Red Hills (USA)/2 x 200
Colver (USA)/90		1995
Northampton (USA)/110		1995
Scrubgrass (USA)/80		1993
Morgantown (USA)/60		1992
Panther Creek (USA)/80		1992
Montana One (USA)/35		1990
Rumford (USA)/110		1990
Mt. Poso (USA)/55		1989
Gilberton (USA)/80		1988

DEVELOPMENT SUPPORT

- Economic, financial, and technical feasibility analysis
- Preliminary engineering
- Site selection
- Environmental studies and permitting
- Procurement support



STRENGTHS AND CAPABILITIES

- Full-service capabilities
- Global experience
- Turnkey project capabilities
- Management commitment to quality and safety
- Engineering expertise
- Worldwide procurement
- Construction and construction management skills
- Startup experience
- Cost and schedule performance
- Owner/Operator perspectives
- Project development capabilities
- Pre-engineered plant designs

BECHTEL POWER

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