

BIOMASS/ALTERNATIVE FUELS

Bechtel has served our customers as the engineering, procurement, construction (EPC), and startup contractor of choice for a wide variety of biomass and alternative fuels based power generation and process steam facilities for nearly 60 years. These facilities have provided highly reliable and cost-efficient energy using circulating fluidized bed (CFB), and stoker-fired boiler combustion with state-of-the-art emissions control technologies.

And just as the industry has grown, so have we by bringing our tradition of excellence and proven track record to project execution while outpacing the field in employing innovative material handling, boiler firing, steam turbine, and emissions control technologies for a variety of biomass fuels such as wood-waste, agricultural by-products, along with municipal solid waste, and co-firing with waste coal.

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 technical support, environmental permitting, and technology selection to meet all regulatory and environmental standards.

HIGHLIGHTS

- » No. 1 power industry engineer and constructor for 13 consecutive years, as ranked by *Engineering News-Record* magazine
- » Completed more than 550 power plants generating over 226,000 MW
- » In 2010, more than 42 projects each achieved at least 1 million safe work hours across all industry business units

KEY PROJECTS

RUMFORD COGENERATION FACILITY

Overview: Bechtel provided project management, EPC, and startup services for this 85 MW, CFB boiler, cogeneration facility in Rumford, Maine. Bechtel added two new CFB boilers to the facility that co-fire biomass and coal to produce electricity and process steam.



NORTHAMPTON ENERGY

Overview: Bechtel provided project management, EPC, and startup services for this 98 MW, CFB boiler, cogeneration facility located in Northampton, Pennsylvania. The facility, which uses waste coal, produces electricity and process steam.



SOUTHERN MASSACHUSETTS RESOURCE RECOVERY FACILITY

Overview: Bechtel provided project management, EPC, startup, and operations services for this 53 MW, stoker boiler, waste-to-energy facility located in Rochester, Massachusetts. The facility turns about 1,900 tons of municipal solid waste per day into energy.



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