

Mankato Energy Center

Location

Mankato, Minnesota

Fuel Resource

Natural Gas

Capacity

375 MW (345 MW expansion under construction)

Ownership

Southern Power



Southern Power announced the acquisition of the Mankato Energy Center in October 2016. The facility represents Southern Power's first generating asset within the Midcontinent ISO (MISO).

Mankato Energy Center is a natural gas-fired, 1x1 combined-cycle facility contracted with Northern States Power through 2026. An expansion to a 2x1 configuration is currently under development and is expected to be operational by June 2019 to serve an additional 20-year power purchase agreement with Northern States Power.

Size

Mankato will include two natural gas units – the existing 375 MW Mankato Energy Center I and the 345 MW Mankato Energy Center II expansion. When complete, the Mankato Energy Center will represent 720 MW of generating capacity.

Technology

Combined-cycle technology is one of the cleanest and most efficient methods of producing electricity. With this technology, the power plant's combustion turbines make electricity by burning natural gas. Waste heat from the turbines is captured and reused to drive a separate

steam turbine that produces additional electricity. Combined-cycle power plants produce high power outputs at high efficiencies and with low emissions. The Mankato combustion turbine produces electricity at 15,000 volts before being "stepped up" in a transformer to 115,000 volts for transmission, while the steam turbine produces electricity at 19,500 volts before being "stepped up" in a transformer to 345,000 volts for transmission. For the expansion, the combustion turbine will produce electricity at 16,500 volts which will be "stepped up" to 115,000 volts.

Economic Impact

Mankato Energy Center provides economic benefits to the city of Mankato, surrounding counties and the state of Minnesota. Nearby counties and the entire state also benefit by job availability and the economic development boost created by having immediate access to a reliable source of electric power.

Southern Power, a subsidiary of Southern Company, is a leading U.S. wholesale energy provider meeting the electricity needs of municipalities, electric cooperatives, investor-owned utilities and other energy customers. Southern Power and its subsidiaries own or have the right to own 47 facilities operating or under construction in 11 states with more than 12,800 MW of generating capacity in Alabama, California, Florida, Georgia, Maine, Minnesota, Nevada, New Mexico, North Carolina, Oklahoma and Texas.

Atlanta-based Southern Company is America's premier energy company, serving 9 million customers through its subsidiaries with clean, safe, reliable and affordable energy. With electric utilities in four states, natural gas distribution utilities in seven states, a competitive generation company serving wholesale customers across the country and a nationally recognized provider of customized energy solutions, as well as fiber optics and wireless communications, Southern Company and its subsidiaries are inventing America's energy future.

southernpowercompany.com