



## Power

### Combined Cycle/EPC

**Client**  
Energy Capital Partners

**Location**  
Rensselaer, New York, USA

## Empire Generating Project

CH2M HILL was awarded a contract for the new, environmentally-friendly Besicorp/Empire combined cycle power plant in Rensselaer, New York. CH2M HILL is performing integrated engineering, procurement and construction for the 535 megawatt power plant with a peaking capacity of 635 megawatts. Total projected cost for the project is more than \$500 million.

The new power station is designed to produce up to 210,000 lb./hr. of steam that will be used for the adjacent Empire State Newsprint project. Once operating, this power station will be one of the cleanest and lowest noise producers of comparable plants throughout the country.

Engineering for the project is currently underway and construction has mobilized. Equipment installation for the new power station is scheduled to begin early in 2008, with planned commercial operation in February 2010.

The new power station includes two GE 7FA combustion turbines, two Alstom three-pressure heat recovery steam generators and one GE D-11 reheat steam turbine. The plant is fueled by natural gas and intermittently by low sulfur fuel oil. The combustion turbines and the steam turbine are enclosed in a building.

The project scope includes a 345 kV switchyard, 8 miles of 345 kV transmission line, a 16-inch diameter gas line for 4.5 miles, and a 28-inch diameter grey water pipeline from Albany County's sewage treatment facility under the Hudson River.