



## Power Combined Cycle

**Client**  
Xcel Energy

**Location**  
St. Paul, Minnesota, USA

## High Bridge Project

CH2M HILL was selected to provide integrated engineering, procurement and construction (EPC) for the High Bridge combined cycle plant located on the banks of the Mississippi River in St. Paul, Minnesota.

The 2x1 MH1 501F plant is natural gas fueled and uses river water for direct cooling. The entire plant, which can be seen from downtown St. Paul, is enclosed in an aesthetically pleasing building.

"The High Bridge project will increase our St. Paul plant's generating capacity by a net 300 megawatts, while reducing air emissions--sulfur dioxides, nitrogen oxides and particulates--by more than 90 percent." said David Wilks, president of Xcel Energy Supply.

### Value Added

Examples of value CH2M HILL has brought to Xcel Energy on this project include:

- Accelerated schedule due to a unique execution plan that involved erecting most portions of the building first. This allowed for higher labor productivity on the turbine island during the winter months. The execution plan also addressed the challenges of working within a very small site.
- Unparalleled safety record for a power project in Minnesota. CH2M HILL received the VPP OSHA Award for achieving 250,000 man-hours without a lost time accident.
- Proven ability to manage labor and subcontractors in a union environment.

### Project Specifics

CH2M HILL executed the engineering and procurement for this project from its office in Atlanta, Georgia, and managed construction activities with an on-site construction management staff. More than 400 union craft personnel, as well as other subcontractors, were hired during the peak of project construction.

Shortly after the new combined cycle plant is operational, Xcel Energy will demolish the existing coal plant adjacent to the new power generation facility.

Construction began in Spring 2006, with commercial operation scheduled for May 2008.