

# Support for Continuous Emissions Monitoring System

## PLATTE RIVER POWER AUTHORITY

### PROJECT SUMMARY

The Platte River Power Authority needed database and software support for their customized continuous emissions monitoring system. Riverside Technology, inc. provided software development expertise to support and enhance Platte River Power Authority's continuous emissions monitoring system.

LOCATION  
Colorado, U.S.A.

PERIOD  
1998 – 2005

### PROJECT DETAILS

The Platte River Power Authority (PRPA) provides electricity to Northern Colorado cities. Beginning in 1998, Riverside Technology, inc. (Riverside) has provided the following services to the PRPA:

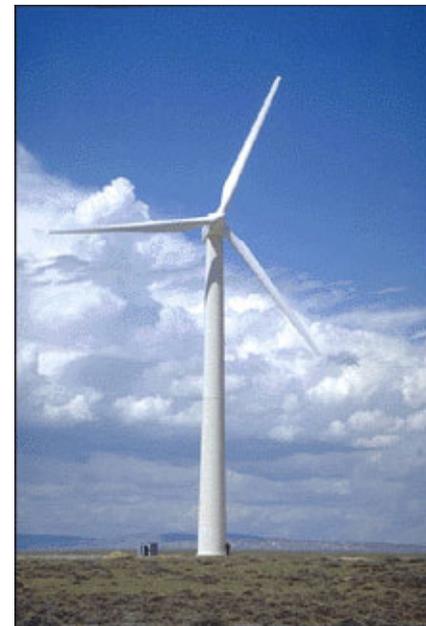
- Software development
- System integration
- Support
- Maintenance

Early project work included upgrading the Continuous Emissions Monitoring (CEM) system at the coal-fired Rawhide Energy Station to comply with new Environmental Protection Agency (EPA) reporting requirements. In particular, Riverside's experience with UNIX systems, INFORMIX database technology, real-time data collection, software development, and systems integration allowed Riverside to understand the complexities of Rawhide's real-time operations and implement appropriate upgrades. The result of the upgrades has been that PRPA's reports to the EPA have been free from reporting errors that were the result of the limitations in the previous system.

Riverside also performed a Y2K upgrade on Rawhide's CEM system in 1999. This work was complicated by making modifications to and testing the system while the plant was in operation. During a scheduled test, the entire plant was rolled forward to 2000 in order to test changes to the system. After successfully passing the test, the plant was returned to normal time, and the system was allowed to run through the actual change to 2000, with no loss of data in the CEM system. Riverside was available during this period to offer assistance as needed.

More recently, Riverside upgraded the CEM system for additional EPA requirements and provided support and maintenance for the CEM system on an annual basis. Riverside's office in Fort Collins allows on-site support of the Rawhide Energy Station, which is approximately twenty-five miles north of Fort Collins. In the course of several projects Riverside has enhanced the system documentation for the existing system, allowing existing and new PRPA staff to better understand how the software is configured and operates. Riverside has provided new software allowing the PRPA staff to perform daily operations more easily and review system data for possible errors and extreme values.

Riverside's enhancements to PRPA's CEM system and overall system support illustrate that although Riverside's corporate focus is generally on water resources, our services can be adapted to serve other industries, including those involving energy and natural resources. In addition to valuing PRPA as a client, Riverside values the fact that PRPA's Rawhide Energy Station is consistently one of the nation's cleanest facilities, and that PRPA has invested in alternative sources of energy such as wind power.



### RELATED PROJECTS

Upper Snake River Basin  
Forecast System

Consolidated Database Design  
and Data Management System  
for Northern Colorado

Development of Identified  
Projects & Processes Database  
for Colorado

RIVERSIDE

global science solutions

2950 E. Harmony Rd.

Suite 390

Fort Collins, CO

80528 USA

P: 970-484-7573

F: 970-484-7593

www.riverside.com