

CASE STUDY

Large Mid-West Power Company Achieves Heat Rate Improvements

Challenge

When a large mid-west power company committed itself to reducing emissions and improving efficiencies through an agreement with the Sierra Club, they began investigating what carbon reduction efforts they could put into place to reach their goals. They wanted to find new ways to improve efficiency and reduce their heat rate.

Solution

After evaluating several vendor technologies, the customer chose to apply EtaPRO Performance & Condition Monitoring System across their fleet. They chose EtaPRO because of its fully integrated VirtualPlant models of the boiler and turbine cycles, the feature-rich online monitoring software, and EtaPRO's extensive experience deploying fleet-wide monitoring solutions.

Impact

- The system found a growing number of reheater tubes that were running at higher-than-normal temperature, prompting a retuning of reheat temperature controls
- Fleet-wide implementation of EtaPRO increased management's ability to focus on plant performance.



When we looked at the whole fleet, we wanted to go with the best technology available. We wanted a solution that was robust and flexible to handle all our plants, and we knew EtaPRO was the right answer.

—Principal Performance Engineer

RESULTS

The coal fleet achieved a year-over-year heat rate improvement of **1%–2%.**

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