



Mercury Control Demonstration Project

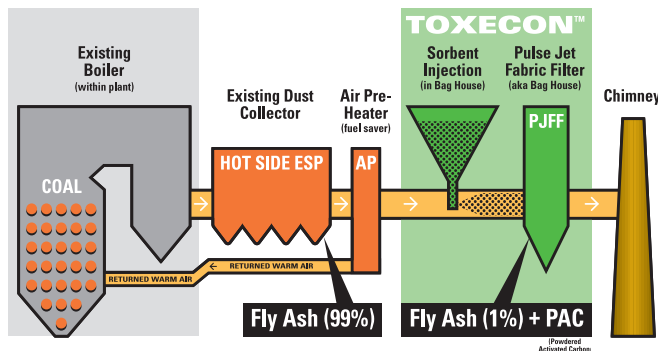


Project Overview

- \$53 million mercury removal demonstration project.
- We Energies and Department of Energy co-funding project.
- Executed as part of Clean Coal Power Initiative.
- Patented process developed by Electric Power Research Institute (EPRI).
- Largest project of its type currently treating flue gas from Western sub-bituminous coal-fired units totaling 270 MW.
- Installation completed in January 2006; initial results encouraging.

Toxecon™ Process

The TOXECON process uses a fabric filter in conjunction with sorbent injection to remove mercury and other emissions downstream of the plant's existing particulate-control device.



Partners & Associates

- U.S. Department of Energy – National Energy Technology Laboratory
- ADA-ES, Inc.
- Cummins & Barnard, Inc.
- Electric Power Research Institute (EPRI)
- Wheelabrator Air Pollution Control, Inc.
- Norit Americas
- Northland Electric
- Boldt Construction
- Jamar Company

We Energies Commitment

We are committed to meeting our customers' growing demand for reasonably priced electricity and improved environmental performance. To meet these goals, we will:

- Manage a diverse fuel mix that includes coal, natural gas, nuclear and renewable energy sources.
- Four years ago we committed to reduce our power plant mercury, nitrogen oxides and sulfur dioxide emissions by 50 percent or more by 2012.
- Comply with new Federal rules which require mercury reduction by 70 percent by 2018.

Project Goals

- Demonstrate mercury emission reductions of 70 – 90 percent.
- Reduce particulate emissions to 0.01 pounds per million BTU.
- Evaluate potential to reduce emissions of sulfur dioxide up to 70 percent and nitrogen oxides up to 30 percent.
- Develop technologies to allow reuse of sorbent mixture.
- Demonstrate a mercury continuous emission monitoring system.

