



# Mercury Control Demonstration Project

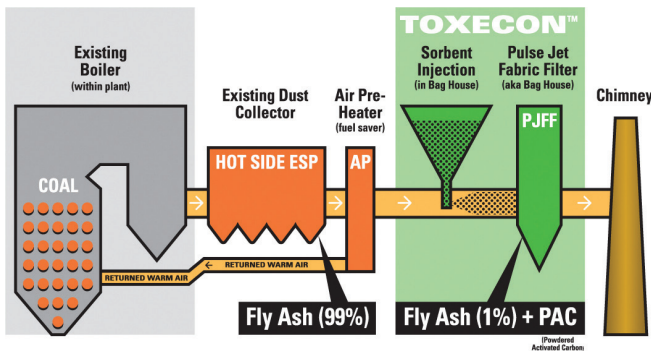


## Project Overview

- \$53 million mercury removal demonstration project.
- We Energies and Department of Energy co-funded 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.
- Performance demonstration period (January, 2006 – September, 2009) completed.
- TOXECON operation continues.

## 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

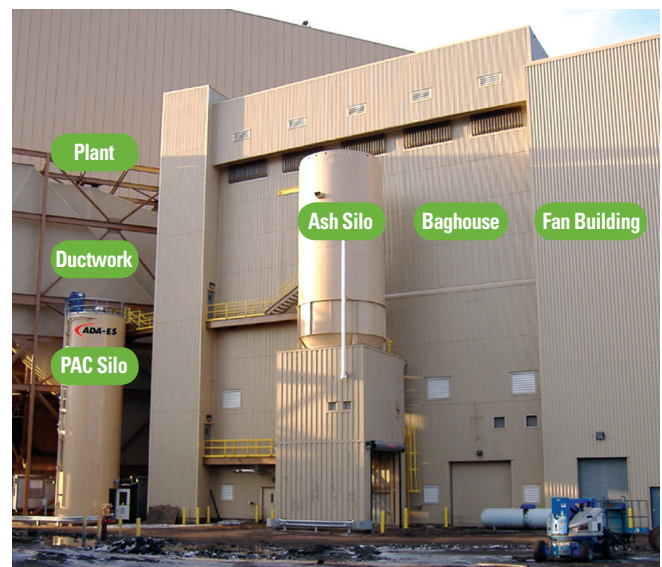
## We Energies Commitment

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.

We continue to evaluate technologies to reduce mercury emissions in anticipation of new Federal rules.

## 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.



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