

# New Report Finds Investments to Clean And Modernize Power Plants Create New Jobs and Boost Economy in Michigan



*Recent reports evaluated the impact on Michigan under two Clean Air Act rules expected to be finalized by the EPA in 2011:*

- **Cross-State Air Pollution Rule:** Focuses on sulfur dioxide and nitrogen oxide emissions that drift downwind from 27 targeted states east of the Mississippi.
- **Toxics Rule (Utility MACT):** For the first time, sets limits on hazardous air pollutants such as mercury, arsenic, lead, and acid gases.

## Findings of the “New Jobs – Cleaner Air” Reports

### Job Creation

Installing modern pollution controls and building new power plants creates a wide array of skilled, high-paying installation, construction and professional jobs, including:

- Engineers
- Project Managers
- Electricians
- Pipefitters
- Boilermakers
- Millwrights
- Iron Workers

From the report: *New Jobs-Cleaner Air Part II: An Investment in American Businesses and American Jobs*<sup>1</sup>:

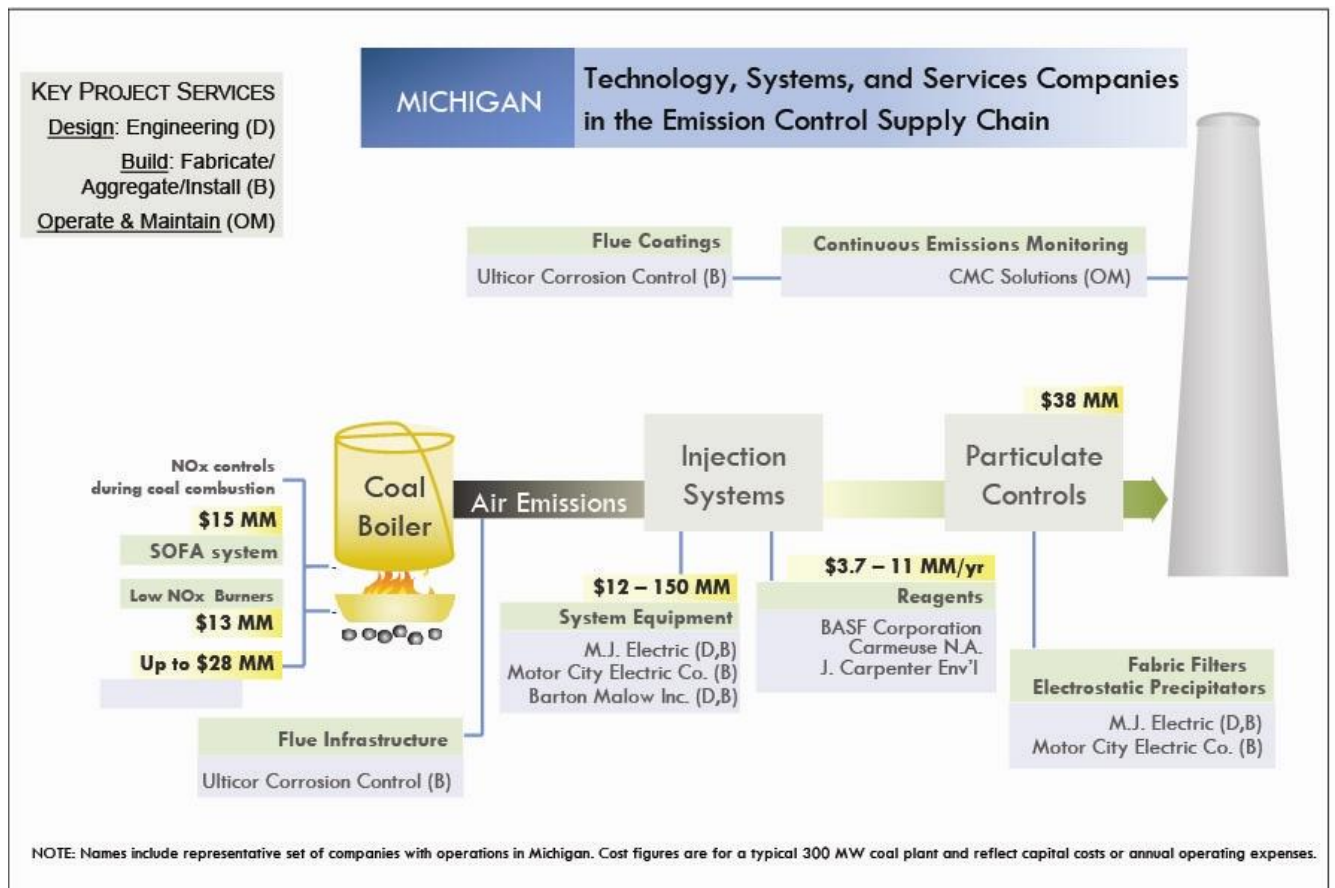
- 6.3B** Invested in pollution control equipment by 2015 in MI
- 62,200** Capital Investment jobs created in Michigan
- 987** Operation & Maintenance jobs created in Michigan
- 1,124** Operation & Maintenance job reduction in Michigan due to projected retirement of uneconomic, older, less-efficient coal plants

*“Thousands of Michigan residents are more than qualified to fill the highly skilled jobs needed to design and install pollution controls and build new generation technologies. With our technical know-how and world-class workers, Michigan can be a leader in the global clean energy economy.”*

Thomas Reinke, Owner  
Self-Reliant Energy BD  
Fowlerville, Michigan

### The Supply Chain

An investment of \$6.3 billion in pollution control equipment by 2015 in Michigan requires the services and labor of numerous companies, from fabricators to engineers to technology providers.



### Michigan-Based Companies in the Power Plant Pollution Control Supply Chain

Company Name	Industry	Michigan presence
Barton Malow	Construction	Southfield (HQ)
BASF Corporation	Catalyst supplier	Wyandotte (branch)
Carmeuse North America	Catalyst supplier	Cedarville, River Rouge, Detroit, Rogers City (branches)
CMC Solutions Inc	Emissions monitoring	Wixom (HQ)
J Carpenter Environmental	Catalyst supplier	Muskegon (HQ)
M.J. Electric	Electric systems installer	Iron Mountain (HQ)
Motor City Electric Co.	Electric contractor	Detroit (HQ)
Ulticor Corrosion Control Inc	Component manufacturer	Clarkston (HQ)

**Download the Report - <http://www.ceres.org/epajobsreport>**

*Ceres is a leading coalition of investors, environmental groups and other public interest organizations working with companies to address sustainability challenges such as global climate change.*

## Michigan Findings from Other Reports

The “New Jobs – Cleaner Air” reports build on findings in other studies about the impact of EPA rules across the country, including Michigan.

### Costs of Current, Uncontrolled Downwind Pollution

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From the report: *Expensive Neighbors: The Hidden Cost of Harmful Pollution to Downwind Employers and Businesses*<sup>2</sup>

Harmful emissions, primarily from coal-fired power plants that have failed to install pollution controls, are carried hundreds of miles in the air stream, causing massive health and economic losses in downwind regions. So not implementing CSAPR costs states like Michigan millions of dollars in terms of lost jobs, income and tax revenue.

**2,312** Estimated jobs gained in Michigan post-CSAPR implementation annually

The longer the Transport Rule is not implemented, the longer **Michigan** will suffer annually from:

**2,312** lost jobs  
**Over \$304 million** of lost income  
**Over \$59 million** in lost tax revenue

### EPA Clean Air Standards Save Lives

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Coal power plant emissions caused annually<sup>3</sup>:

**487** hospital admissions in Michigan  
**1,097** heart attacks in Michigan

By implementing CSAPR<sup>4</sup>:

**1,056** pollution-related deaths avoided in Michigan annually

## For More Information

- New Jobs-Cleaner Air Part II: An Investment in American Businesses and American Jobs
- New Jobs-Cleaner Air Part I: Employment Effects under Planned Changes to EPA’s Air Pollution Rules  
**Download at:** <http://www.ceres.org/epajobsreport>
- The Toll from Coal: An Updated Assessment of Death and Disease from America's Dirtiest Energy Source  
**Download at:** <http://www.catf.us/resources/publications/view/138>
- Expensive Neighbors: The Hidden Cost of Harmful Pollution to Downwind Employer and Businesses  
**Download at:** <http://www.cleanair.org/DownwindPollutionHiddenCostStudy.pdf>

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<sup>1</sup> *New Jobs-Cleaner Air Part II: An Investment in American Businesses and American Jobs*, Ceres and ICAC, November 2011.

<sup>2</sup> *Expensive Neighbors: The Hidden Cost of Harmful Pollution to Downwind Employers and Businesses*, Dr. Charles Cicchetti, Ph.d; November 2010, Appendix E.

<sup>3</sup> *The Toll From Coal: An Updated Assessment of Death and Disease from America's Dirtiest Energy Source*, Clean Air Task Force, Conrad Schneider and Jonathan Banks; September 2010.

<sup>4</sup> *Expensive Neighbors: The Hidden Cost of Harmful Pollution to Downwind Employers and Businesses*, Dr. Charles Cicchetti, Ph.d; November 2010, Appendix E.