



## Consortium for Energy, Economics and the Environment

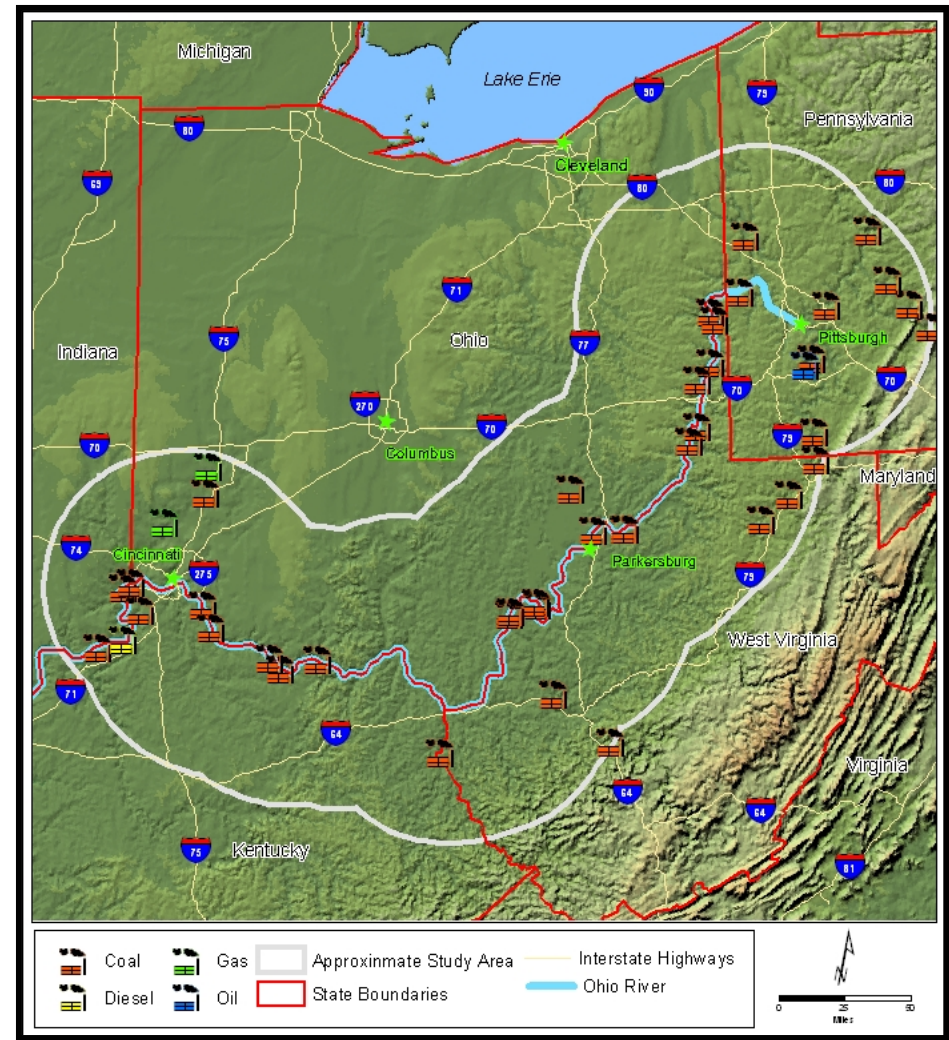
- Russ College of Engineering and Technology
- Voinovich Center for Leadership and Public Affairs
- Institute for Sustainable Energy and the Environment



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and the Environment

# The Consortium Vision

- State leader in solving energy and environmental problems
- Voice for the Ohio River Valley region



*Ohio River Valley Region*





# Partners

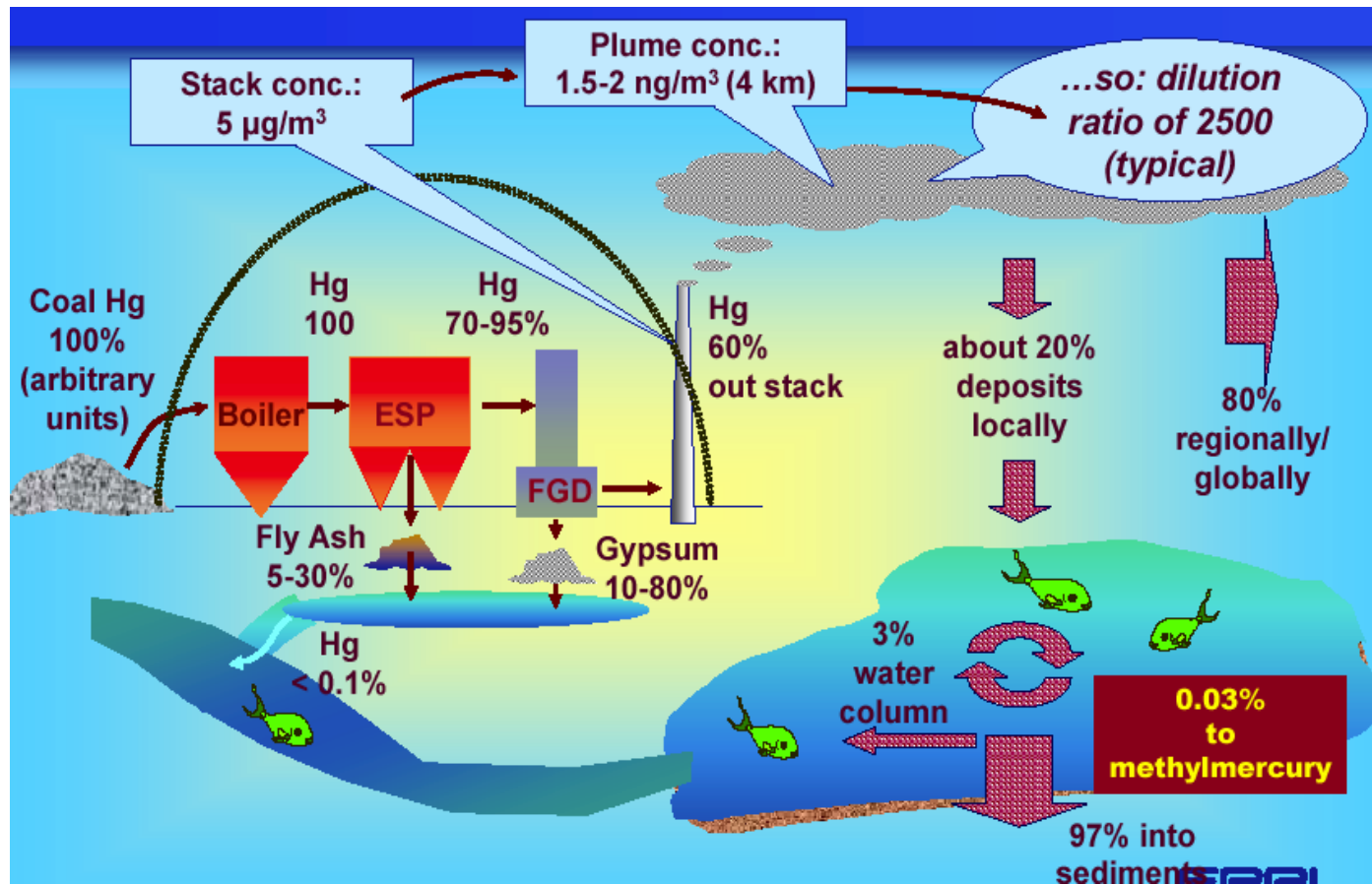
- Ohio EPA
- ODNR
- US EPA
- OAQDA
- Watershed groups
- Case Western, WVU
- DOE (NETL)
- Wayne Natl. Forest
- AEP, First Energy
- Consol Coal
- Rural Action
- Ohio Coal Research Consortium
- Army Corps





# Mercury Deposition

- Source identification
- Transport by air
- Deposition
- Fate in environment
- Source control technology





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# Environment: Water Quality



Coal refuse pile  
before reclamation...

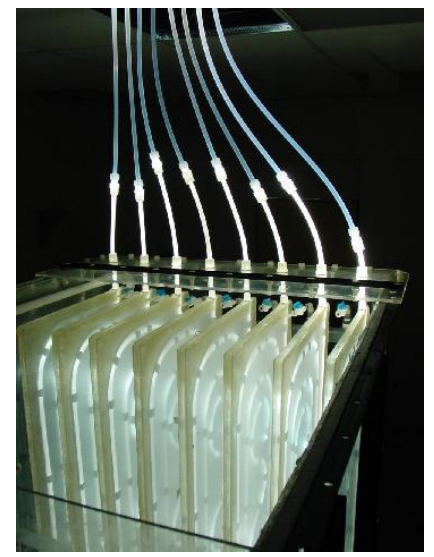
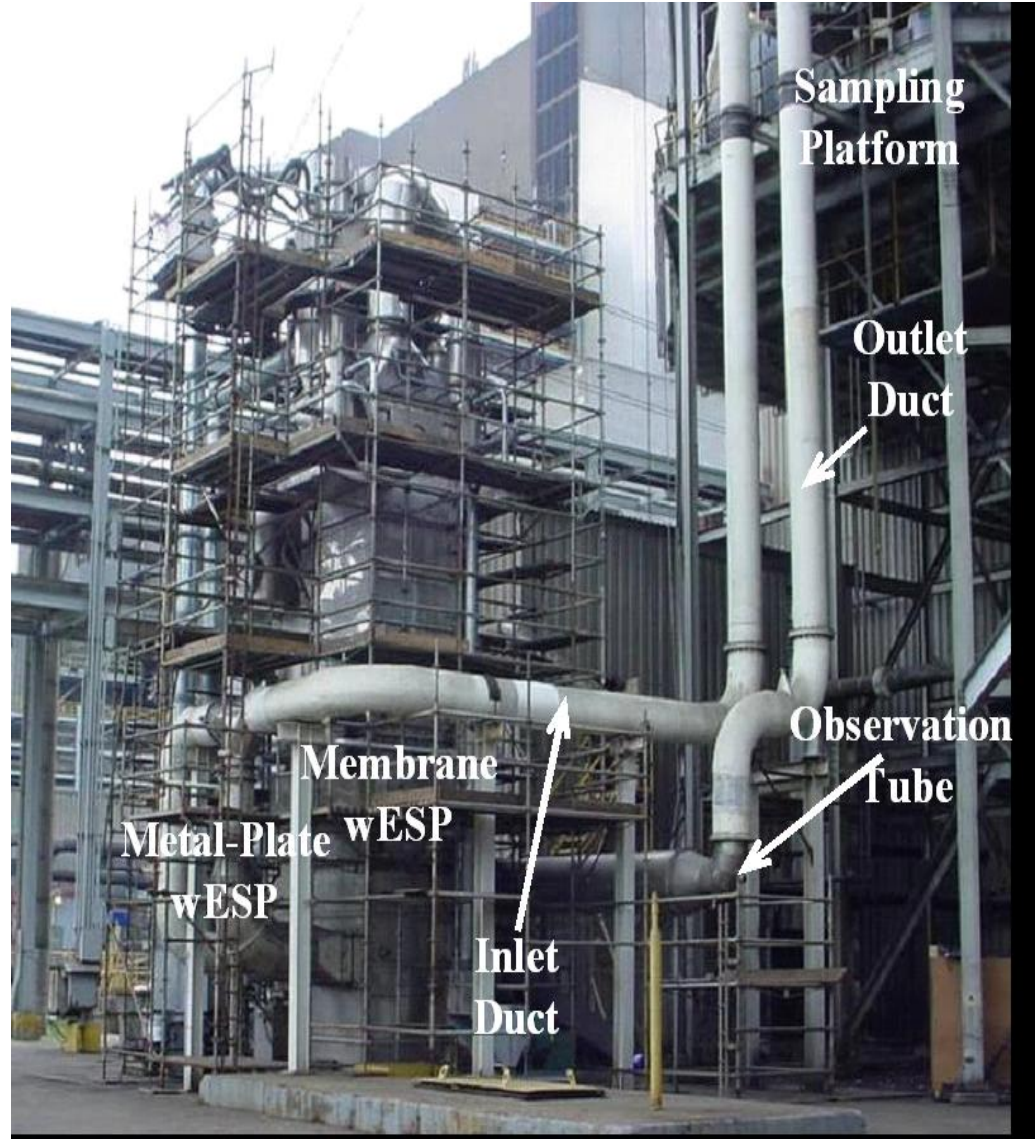


...and after.



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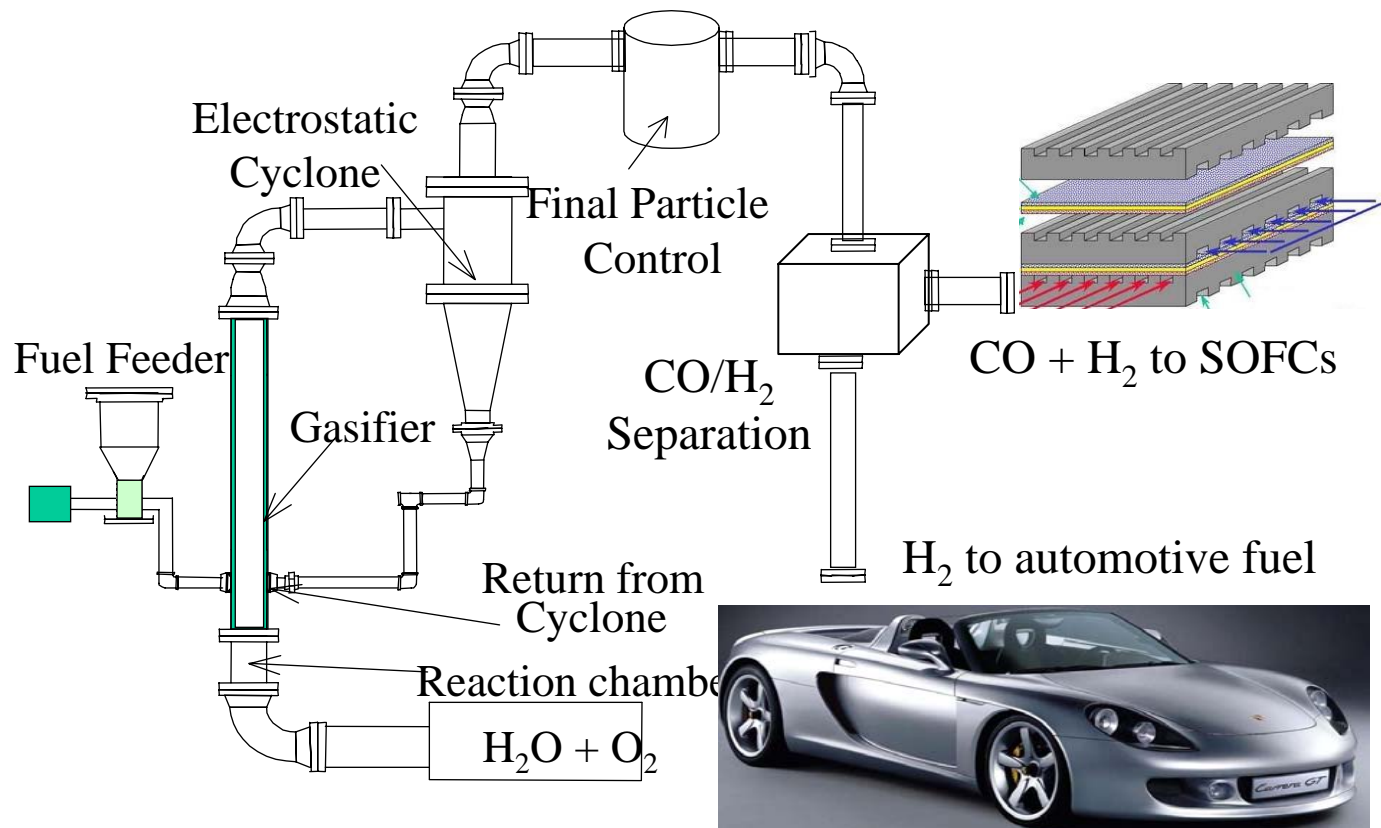
# Pollution Control



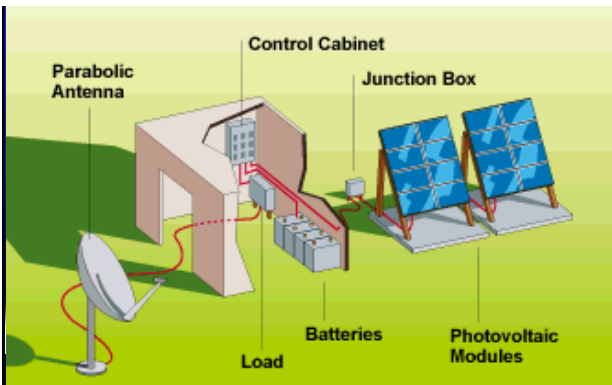


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# Energy



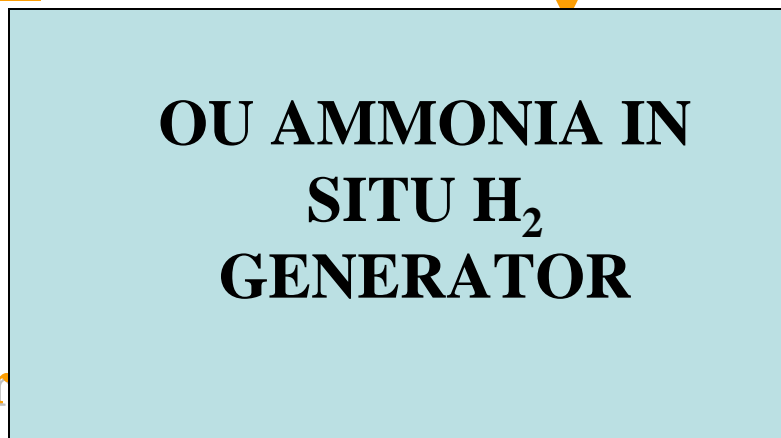
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Clean energy supply



Clean water



N<sub>2</sub>

NH<sub>3</sub>+H<sub>2</sub>O

(Waste water)

Hydrogen  
production



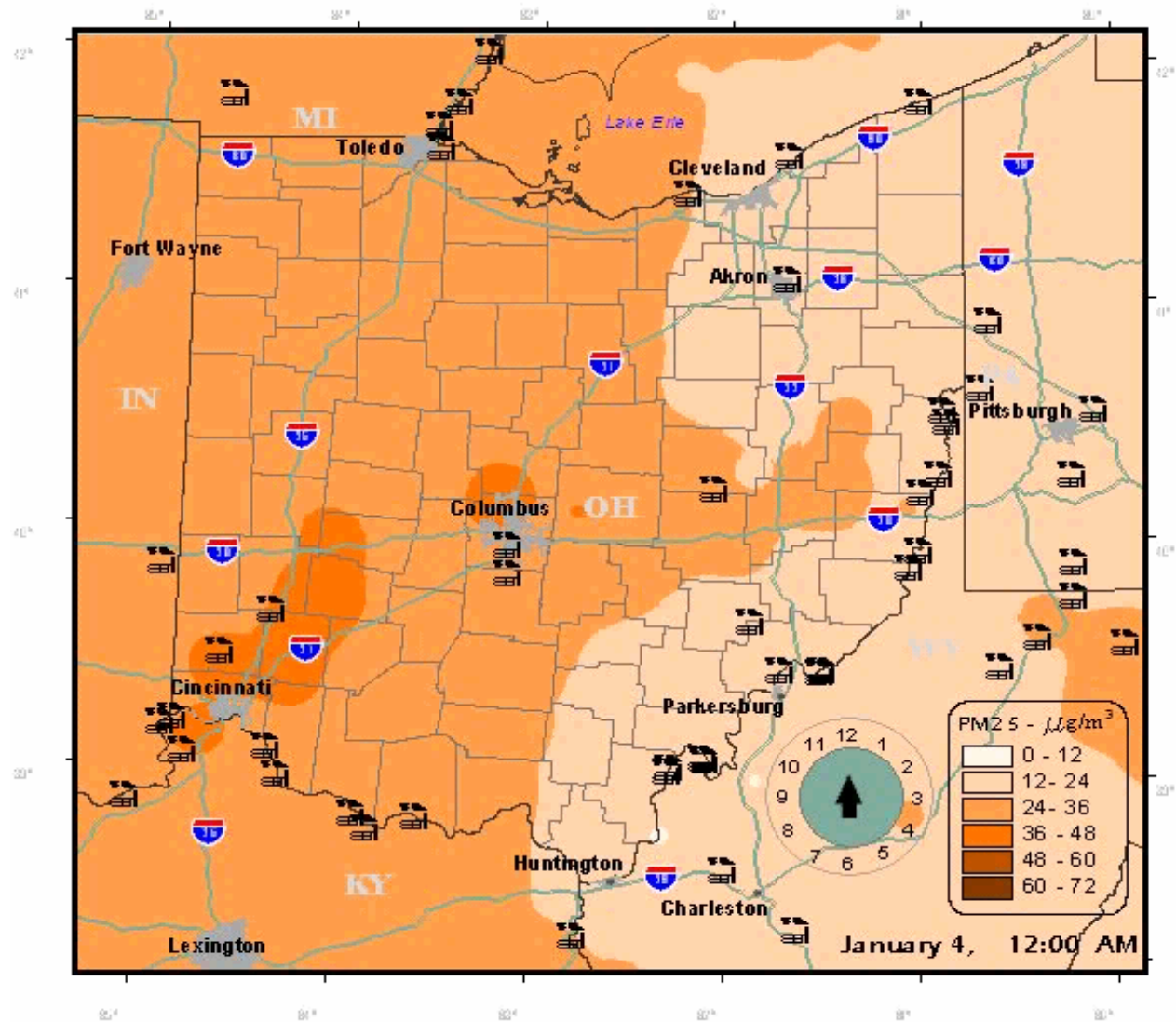
Energy  
recovery





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# Environment: Air Quality Modeling

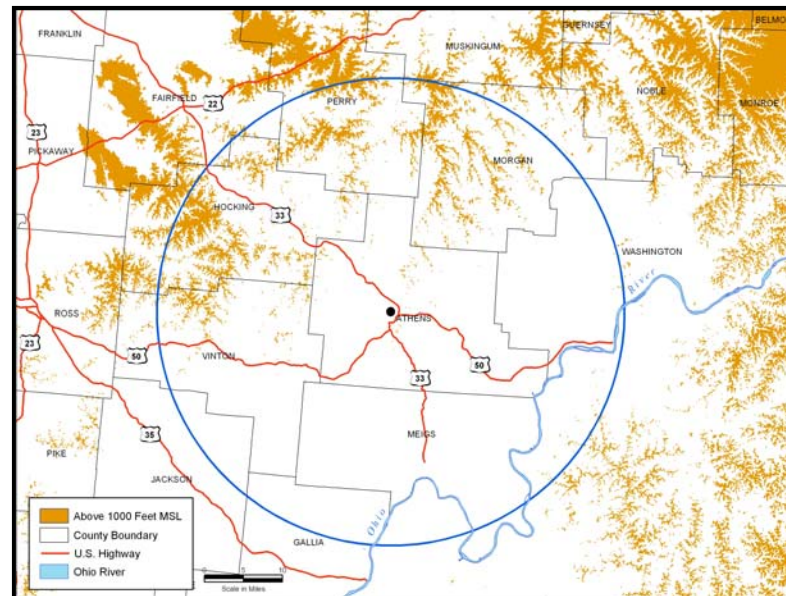




# Environment: Air Quality Monitoring



- Mercury
- Metals
- PM2.5
- Ozone
- NOx
- SO2
- CO
- Ammonia
- Meteorological Variables





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# The Consortium Vision

- Voice for the Ohio River Valley Region
- Support business, environmental groups and policy makers in technology transfer, data collection and analysis, and project work
- State leader in solving energy and environmental problems
- Regional Job Development





# The Future

- Regional Awareness
- Future Gen
- CO<sub>2</sub>
- “Mini Research Campus”

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**OHIO AIR QUALITY & COAL RESEARCH SYMPOSIUM**  
December 2-3, 2004 • Athens, Ohio

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The Ohio Air Quality and Coal Research Symposium highlights advances in air quality research and is a catalyst for interaction among Ohio researchers, organizations and policy-makers concerned about the state's air quality. This year's event has expanded, combining the annual Ohio Air Quality Symposium and the annual Ohio Coal Research Consortium's Coal Research Forum to create the largest event of its type in the state. The event includes presentations from researchers, a poster competition/exhibit for students and guest speakers.

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