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Ohio Coal Research Consortium

www.ohiocoal.org

University research sponsored by
**Ohio Coal Development Office of the
Ohio Air Quality Development Authority**

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Consortium Background

Purpose

- Address technical problems of Ohio coal end-users
- Improve technologies that enable continued or expanded use of Ohio coal
- Generate innovative research in coal use
- Train a future supply of Ohio-based scientists
- Promote cooperation in coal-related research



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Consortium Background

History

- Consortium I (1990-1995)
 - Focus was SO_x
- Consortium II (1996-2000)
 - Foci were SO_x, NO_x, and air toxics
- Consortium III (2000-2004)
 - Foci were CO₂, SO_x, NO_x, air toxics, PM_{2.5}
- Consortium IV (2004-present)
 - Focus is CO₂, gasification, and fuel cells



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Internet Homepage www.ohiocoal.org



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BURN OHIO COAL

[Ohio Air Quality and Coal Research Symposium Website](#)

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Consortium Structure

- Ohio Coal Development Office
 - Funds the consortium
 - Guides all activities, including periodic review
- Consortium Administration
 - Lead investigator – manages subcontracts
 - Reviews all activities and manages web page
 - Pursues cooperative research efforts
- Steering Committee
 - Lead investigators provide input to OCDO
- Consortium Review Committee
 - Recommends all funding
 - Monitors projects and acts as mentors



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Technical Goals & Objectives

Consortium IV Year 2 Goals

- Goal A: Improve or reduce environmental emissions from coal combustion.
- Goal B: Evaluate CO₂ reduction methods which can be applied in Ohio.
- Goal C: Coal as a Feedstock for Hydrogen or Syngas and Coal Fuel Cells



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Consortium Efforts

Ohio Air Quality and Coal Research Symposium

- Provide discussion of coal and air quality research in Ohio and how to benefit Ohio's economy.
- Solicit input from the major Ohio utilities, EPRI, state and federal agencies and legislative aides regarding the direction of work
- Focus research efforts to optimize resources and promote synergy among the researchers.
- Coordinate efforts to leverage existing funding to enhance research efforts within Ohio.



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Consortium Efforts

Federal Projects

- The consortium has obtained (in the last five years) federal grants for coal-related research
 - Three USEPA grants
 - Eleven USDOE grants
 - One National Science Foundation grant
- Total grant expenditures exceeds \$6.4 million



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Conclusions

- Commitment to research excellence
- Consortium derives great benefits from OCDO
- Value of Consortium Review Committee
- Breaking new ground
 - Expanded collaborations
 - Increased intellectual property development
 - Increased federal and industrial research
 - Public policy and legislative action



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Note: Views expressed here are not necessarily those of the Ohio Coal Development Office.



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