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
Consortium Background

History

• Consortium I (1990-1995)
  ➢ Focus was SOx
• Consortium II (1996-2000)
  ➢ Foci were SOx, NOx, and air toxics
• Consortium III (2000-2004)
  ➢ Foci were CO$_2$, SOx, NOx, air toxics, PM2.5
• Consortium IV (2004-present)
  ➢ Focus is CO$_2$, gasification, and fuel cells
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
Technical Goals & Objectives

Consortium IV Year 2 Goals

• Goal A: Improve or reduce environmental emissions from coal combustion.

• Goal B: Evaluate CO$_2$ reduction methods which can be applied in Ohio.

• Goal C: Coal as a Feedstock for Hydrogen or Syngas and Coal Fuel Cells
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.
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
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.*
For more information

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