

The word "Ohio" in a stylized red font with a white outline, set against a background of wind turbines on a green hill under a blue sky.

Ohio Bipartisan  
Job Stimulus Plan



The Ohio State University Department of Civil & Environmental Engineering & Geodetic Science **FACT SHEET**



*Existing site conditions at Conesville demonstration project site*

## Advanced Energy Job Stimulus Program

A key component of Ohio's program to create new jobs and encourage economic development, the \$150 million Advanced Energy Job Stimulus Program is designed to support new technology projects on a fast track toward commercialization. As part of the \$1.57 billion job stimulus package signed into law by Governor Ted Strickland in June 2008, the goal of the program is to employ Ohio workers in the advanced energy jobs of the future.



## Project Name: Coal Combustion Products Extension Program

### Project Location:

Columbus, Ohio (Franklin County)

### Applicant Information:

The Department of Civil & Environmental Engineering & Geodetic Science at The Ohio State University is one of the nation's leading research organizations in its field.

This project will be led by two principal investigators: Dr. William Wolfe and Dr. Tarunjit S. Butalia of the Department of Civil & Environmental Engineering & Geodetic Science. Drs. Wolfe and Butalia have worked separately and together as co-investigators on a variety of clean coal technology projects that have received Ohio Coal Development Office (OCDO) funding over the years.

Drs. Wolfe and Butalia have been leaders in responding to environmental concerns over the beneficial uses of coal combustion byproducts. They received the "C2P2" Research Award from the U.S. Environmental Protection Agency for their work to demonstrate the beneficial use of coal combustion products in infrastructure rehabilitation.

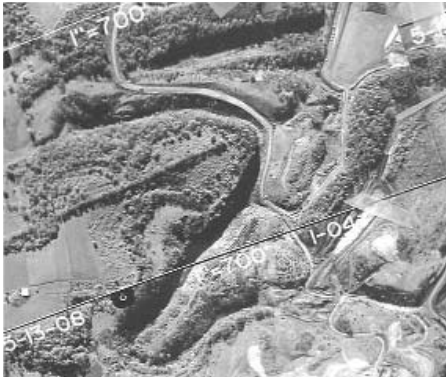
The Ohio State University and OCDO are joined in this project by several industrial sponsors, including Ohio utilities, coal combustion industry trade groups and marketers and other private sector stakeholders.

### Project Description:

This project's primary goal is to continue OCDO's long-standing support of the Coal Combustion Products Extension Program at The Ohio State University. The program identifies responsible, productive and beneficial uses of coal combustion products (CCP). In the coming years there is an anticipated dramatic increase in flue gas desulfurization (FGD) solids as more sulfur scrubbers come on line at Ohio coal-based power plants. A specific goal is to increase the beneficial use of FGD solids from the current 3.5 million tons annually to as many as 6 million tons by 2015.

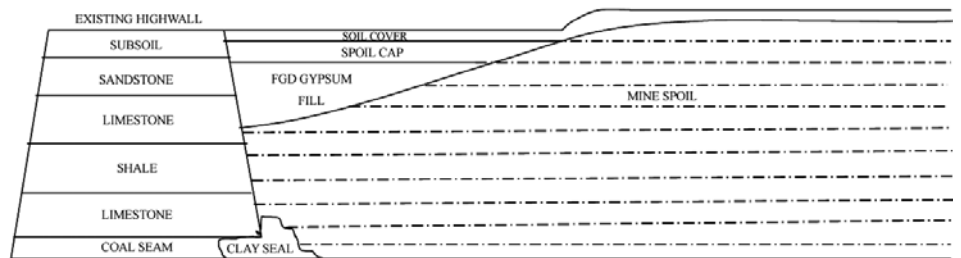
The project will focus on the sustainable high-volume uses of CCPs in construction, reclamation, infrastructure rehabilitation and other civil engineering and agricultural applications. It will provide leadership on the part of the university and OCDO working with the Ohio and United States Environmental Protection Agencies regarding the evolving regulatory framework pertaining to CCPs.

*Continued on back*



Location of Cardinal demonstration project

### Cardinal Demonstration Project Schematic



**Funding Request:** \$325,000

**Approved Funding:** \$324,717

**Total Project Investment:** \$830,276

**Jobs Created:** 1 new part-time job created and 1 full-time job retained

**Primary Application of Technology:** Beneficial use of coal combustion by-products as raw materials in construction, reclamation, infrastructure rehabilitation and other civil engineering and agricultural applications



**Mark R. Shanahan**

Governor's Energy Advisor and  
Executive Director, Ohio Air Quality  
Development Authority

Ohio Air Quality Development Authority  
50 W. Broad Street, Suite 1718  
Columbus, Ohio 43215  
614-224-3383



**Dr. Tarunjit S. Butalia**

Research Scientist

The Ohio State University Department  
of Civil & Environmental Engineering  
& Geodetic Science  
119B Bolz Hall  
2036 Neil Ave.  
Columbus, OH 43210  
614-622-3408