



Coal Combustion Products Extension Program

The goal of this work is to increase the annual utilization tonnage of Ohio Coal Combustion Products (CCPs) from 3 million tons per year in 2008 to about 5.6 million tons by 2012, i.e. increase Ohio utilization rates from current 30% rate to 35% by 2012 despite a projected 60% increase in the annual production of CCPs.

The primary objective of the proposed CCP Extension Program is the development, assessment, and technology transfer of promising CCP use technologies (especially for FGD materials) for commercial and end-use sectors so as to increase the utilization rate of CCPs in Ohio to 35% or more by 2012.

The program addresses the needs of the CCP industry and advances the technically sound, environmentally friendly, and commercially competitive uses of CCPs in many interdisciplinary sustainable applications. The program aids the CCP industry through education, technology transfer, and outreach in its efforts to:

1. Expand use in proven areas,
2. Remove or reduce regulatory and perceptual barriers to use,
3. Develop new or under-used large-volume market applications, and
4. Place greater emphasis on sulfate & sulfite FGD byproducts utilization.



The project focuses on the sustainable high-volume uses of CCPs in construction, reclamation, infrastructure rehabilitation, manufacturing, and agricultural applications. It also further demonstrates leadership on the part of the university in working with the Ohio and United States Environmental Protection Agencies regarding the evolving regulatory framework pertaining to CCPs. In particular, the increased use of fly ash to replace cement will significantly reduce CO₂ emissions associated with the use of cement (one ton of fly ash replacing cement will reduce about one ton of CO₂ emissions).

The project duration is three years (June 1, 2009 to May 31, 2012). The program is co-funded by a strong coalition of CCP stakeholders including the Ohio Coal Development Office, The Ohio State University, Ohio coal-fired utilities, ash marketers, private businesses, trade and farming organizations.

For more information contact:

Tarunjit S. Butalia, Ph.D., P.E.
Research Scientist & Coal Combustion Products Coordinator
Department of Civil and Environmental Engineering and Geodetic Science
The Ohio State University
470 Hitchcock Hall, 2070 Neil Avenue
Columbus, Ohio 43210-1275
Tel: (614) 688-3408 (Work), (614) 395-9830 (Cell)
Fax: (614) 292-3780
Email: butalia.1@osu.edu
CCPOhio Web Page: <http://ccpohio.eng.ohio-state.edu>

