

PROJECT FACTS

UNIVERSITY OF KENTUCKY CENTER FOR APPLIED ENERGY RESEARCH

The **Environmental and Coal Technologies** research group investigates all aspects of coal combustion by-product utilization (flyash).

As such, it generates information for the transfer of new ideas to benefit the innovative utilization, handling, storage and disposal of CCBs.

In addition, work related to mercury-related research is carried out in this group.

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ENVIRONMENTAL AND COAL TECHNOLOGIES

The University of Kentucky Environmental and Coal Technologies research group develops construction materials from coal combustion by-products

The ECT group develops products and processes that manufacture construction materials from CCB's such as cements, grouts, wallboard, masonry blocks, fillers, etc. Expertise includes:

- Production and application of special cements
- Characterization of hydration phases
- Formulation and characterization of FGD by-products in cementitious systems
- Elimination of storage ponds
- Low energy/Low-CO₂ cement development
- Special engineering materials
- Modified Portland cement and clinkerless cement
- Comprehensive utilization of slag, fly ash, bottom ash, FGD gypsum, red much and other industrial wastes

