

Advanced Multi-Product Coal Utilization Byproduct Processing Plant

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A commercial-scale ash beneficiation demonstration plant will be constructed at LG&E's Ghent Power Station in Ghent, KY. The project is the collaborative effort between CEMEX, Inc, LG&E Energy, USDOE and the University of Kentucky Center for Applied Energy Research. as part of the USDOE's Clean Coal Power Initiative. The project will entail the design, construction and operation of a facility that will process approximately 200,000 tpy of excavated pond ash into several products including lightweight aggregate, pozzolan, and unburned carbon fuel.

The carbon fuel component is comprised of two distinct carbon products; coarse carbon (> 150 μm) recovered by density separation and fine carbon (< 150 μm) recovered by froth flotation. Results of pilot-scale testing (2 tph) of both of these processes will be described.

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