

Utilization of Ohio Coal Combustion Products

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ABSTRACT

Ohio generates approximately 10 million tons of Coal Combustion Products (CCPs) annually, and utilizes about 20% of them in various application technologies. The remaining 80% are typically disposed in landfills or surface impoundments. Ohio generates a significant amount of wet FGD material (3.8 million tons) annually. Many of these CCPs, if treated and applied properly, can be low-cost substitutes for conventional raw materials in highway and related civil engineering applications, reclamation uses, manufacturing industry, and agricultural applications. The market research study summary presented in this paper focuses on CCPs generated in the state of Ohio and their existing and future utilization potential. Potential high volume uses for FGD materials exist in highway and related civil engineering applications throughout the state, reclamation in the eastern third of the state, and wallboard manufacture. High value markets exist for CCP uses in the manufacturing industry. Agricultural uses generally will be low volume and low value uses for the CCP provider. However, they are attractive low cost alternatives that are generating increased interest and demand by the agricultural community. Significant environmental benefits from mine reclamation work can result due to reduction in acid mine drainage and sedimentation problems. The key to the success of CCP utilization will be to maintain and expand the volume of current CCP use application technologies and to develop high volume, high value new innovative uses for FGD and fly ash. Complete electronic version of the Ohio CCP marketing research report may be downloaded from <http://ccpohio.eng.ohio-state.edu/ccpohio>