

Use of Coal Combustion Products in Virginia

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ABSTRACT

Coal-fired power plants in Virginia produced about 2.1 million tons of coal combustion products (CCP) in 1999. These CCPs consist of fly ash, bottom ash, boiler slag, and FGD (flue gas desulfurization) product.

In the early to mid 1990s, several companies, including Agglite Corporation, in the Hampton Roads area, were utilizing CCPs for various construction applications. Agglite utilized fly ash from Dominion Virginia Power - Chesapeake, mixed with Portland cement to produce a flowable fill for sub-base under concrete slabs at the Tidewater Tides Harbor Stadium in downtown Norfolk. Bottom ash, from this plant and power plants around Richmond, was and continues to be sized and marketed for concrete cinderblock in eastern, central, and northern Virginia. Construction Products Management, Inc. and VFL Technology now utilize Chesapeake and Dominion Virginia Power - Yorktown fly ash for structural fills.

ReUse Technology, Inc. utilizes fly ash from Cogentrix Energy, Inc. power plants for use in flowable fill and structural fills, some up to 40-feet high in central Virginia. The company also utilized ash from Yorktown, for use in local construction projects. This company, with a plant in North Carolina, also utilized FGD product from central and southwest Virginia power plants, for several years, to produce a pelletized FGD residue that made a spreadable Ca and S-rich soil amendment.

In the 21st century, Ceracrete Technologies, Inc., utilizing coal ash, FDG product, and other mining wastes is producing a concrete-like substance for a variety of construction and repair purposes.

