ROLE OF COAL COMBUSTION PRODUCTS IN SUSTAINABLE CONSTRUCTION MATERIALS
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ABSTRACT

Over one hundred million tonnes of coal combustion products are produced annually in the United States [1]. CCPs represent incombustible, inorganic, materials left after combustion of coal in conventional and/or advanced clean-coal technology combustors. These include fly ash, bottom ash, boiler slag, and flue gas desulfurization (FGD) products from pulverized coal and advanced clean-coal technology combustors. This paper describes various coal combustion products produced, typical test protocol used for testing, analysis, and evaluation of CCPs, as well as the current best recycling use options for these materials. Materials, productions, properties, and potential applications in the manufacture of emerging materials for sustainable construction, as well as environmental impact are also briefly discussed.