

DEVELOPMENT OF MANUFACTURING TECHNOLOGY FOR BRICK AND BLOCKS IN WISCONSIN UTILIZING RECYCLED MATERIALS

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ABSTRACT

The State of Wisconsin currently generates approximately 1.2 million tons of coal ash and 800,000 tons of used foundry sand per year, most of which is landfilled. The utilization options currently available for these materials lack practical economic use. Used foundry sand and coal ashes are also becoming more of a disposal problem due to shrinking landfill space and unknown future environmental and economic liability. The major aim of this project was technology development for production of concrete bricks, blocks, and paving stones, which would utilize by-product materials such as Class F fly ash, bottom ash, and used foundry sand generated in Wisconsin.