

Inventions & Innovation Project Abstract

Process for Converting Waste Glass Fiber into Value-Added Products

Albacem, LLC is developing a technology that will enable the glass fiber industry to eliminate nearly 100% of its glass fiber production waste streams by converting them into viable, value-added products. With this technology, the glass industry can prevent the landfilling of about 250,000 tons of waste glass fiber annually.

Glass manufacturers will realize improved production efficiency by reducing process costs through the elimination of solid waste disposal costs and the creation of value-added, market-ready products. The technology will save a net amount of energy (estimated at 1.75 trillion Btu) consumed by eliminating the manufacture of material replaced by the processed waste glass. The technology also reduces the amount of CO₂, NO_x, and other air pollutants emitted from the manufacturer of the replaced product. The technology has been successfully demonstrated at bench-scale level. Pilot-scale equipment will be used for demonstration to glass manufacturers and to generate products for evaluation to potential customers.



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