Disposal of Man-Made Waste from Ash Concrete in the Coal-Water Coal Cluster of the Housing and Communal Services

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Abstract: Increasing environmental safety is associated with reducing the negative technogenic impact on the environment and recycling industrial waste. As part of the implementation of the project for the innovative coal-water-coal cluster of housing and communal services, it is proposed to utilize ash waste from the combustion of the produced coal-water suspension as a fine additive in the production of heavy concrete. A formula for a concrete mixture with waste ash additives is presented. Tests were carried out on control samples of concrete and samples of ash concrete with the addition of ash from the combustion of coal-water suspension. The brand of the proposed ash concrete has been determined. When recycling fly ash in the ash concrete production, the consumption of Portland cement as a binder is reduced. The problem of minimizing the environmental load on the environment by recycling technogenic waste from the combustion of coal-water suspension has been solved.