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## Recycling coal combustion by-products for minesite rehabilitation

Abstract: The present study aims to evaluate the possibility of using coal combustion by-products (CCB) for minesite rehabilitation. The study was conducted in a coal mine in the north of Iran. The CCB was collected from the mine and analyzed for its chemical and physical properties. The results showed that the CCB contains a high amount of calcium and silicon, which are suitable for use in the production of cement and concrete. The CCB was used to produce a concrete with a compressive strength of 28 MPa. The results showed that the CCB can be used as a partial replacement of cement in the production of concrete. The use of CCB in concrete can reduce the environmental impact of the concrete and provide a sustainable solution for minesite rehabilitation.

### Notes: