DemcoTECH Engineering undertook detailed concept studies and audits for the Matla and Tutuka power station fly ash, coarse ash and ash water return systems for South Africa’s national power utility, Eskom.

The studies included the expansion to Eskom’s ash dump at the Tutuka Power Station in Mpumalanga, South Africa, to cater for a planned additional 25 year life extension of the power station.

A dry ashing system was included, together with the scope covering all the geotechnical civil, mechanical and electrical requirements.

The extension included modification of the transfer houses as well as a novel transfer point to integrate the new and existing systems.

A detailed audit was carried out on the design of an ash handling plant for Matla Power Station, also in Mpumalanga, to improve efficiency, reduce operating costs and increase utilisation of the fly ash.

The study included time and motion studies, a design review of plant and components, plant performance testing, mass and water balances, simulation modelling of the processes, CAPEX and OPEX cost analysis and preparation of PFDs.

DemcoTECH Engineering is a specialist bulk materials handling and niche process plant company offering services from concept design through to project completion to the power generation, cement, mining, metallurgical, manufacturing and port handling industries. Services include conceptual design, feasibility studies, design, engineering, procurement, expediting, construction and commissioning. Plant supplied by DemcoTECH includes troughed conveyors, air-supported conveyors, pipe conveyors, slewing stackers, pivot boom conveyors and mobile conveyors.

**Fly Ash, Coarse Ash and Ash Water Return Systems for Eskom**

- **Client**: Eskom
- **Commodity**: Ash
- **Contract Type**: Design studies
- **Duration**: 2005 – 2011
- **Location**: Mpumalanga, South Africa

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