

# Biomass Handling & Fuel Generation

## Power Station Fly Ash System

### Overview

GAME were approached to design and manufacture an “S”-shaped, steep-angle, side-walled belt conveyor required to handle 140 tonnes per hour of fly ash and bed-bottom ash.

### Problem

The conveyor was required to handle 140 tonnes per hour of fly ash and bed-bottom ash on a 1000mm wide belt at the ‘Vojany’ power station in Slovakia.

In order for this large bulk conveyor to be transported safely and efficiently to Slovakia, it was supplied in pre-assembled modular sections, where each was loaded onto transporters and delivered to the site for final assembly.

### Solution

The product density, to be handled by the conveyor, ranges from between 0.7 and 1.48t/m<sup>3</sup>, with a maximum material temperature of 100°C.

The working conditions for the operation ranged from -20°C to +30°C.

The bottom section of the conveyor inclines at 30° for 22 metres, then lifts vertically for 16 metres and then travels 2 metres horizontally before delivery into a silo.

To ensure that the installation was completed efficiently and correctly GAME provided a comprehensive installation and commissioning manual.

### Result

Project was delivered on time to Slovakia ready for installation.

