



**Customer:** Delta Electricity  
**Location:** Mt Piper Power Station, Lithgow, NSW  
**Product:** Flyash  
**Date:** November 2008  
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### Requirements:

Delta Electricity approached Aerobelt to design and supply Aerobelt conveyors to replace the aging and unreliable enclosed belt conveyors used on site. Low maintenance costs and reduced power demand were key reasons the Aerobelt conveyors were selected for the project.

The conveyors had to:

- Provide a flyash discharge rate of up to 400 tph.
- The new conveyor had to fit inside most of the existing conveyor galleries.



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### Technical Information

Conveyors:	3
Belt width:	700mm
Length:	806m
Inclination:	0° to 4°
Capacity:	400 tph
Belt speed:	2.4 m/s
Drive Power:	37 kW
Fan Power:	7.5 kW
Prod. Density:	1.18 t/m <sup>3</sup>



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### **Solution:**

Aerobelt selected a 700mm wide belt system that could be assembled in the galleries while preserving existing gallery walkways. The existing support steelwork was modified to suit the new conveyors or new steelwork was provided if the conveyor route did not utilize the existing galleries.

Aerobelt were given the order to remove all the existing equipment, and install the three new conveyors including all the electrical, civil and mechanical installation works. This included the dry and wet commissioning.

Aerobelt also were awarded the contract to maintain the equipment for a period of two years after installation. During this time the Aerobelt maintenance expenditure was only five percent of the amount spent on the previous system over an equivalent period.



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