



# Environmental Improvement Projects Summary 1994-2009

## Installation of Bag House Filters(1994-1996) \$42M

Installed fabric filters that reduced particulate emissions from 125 to 15 milligrams per cubic meter.



## Fly ash dust removal system (1995 -2003) - \$21 M

Reduced the disposal area of the ash placement area by 30% and extended its life by 10 years through the implementation of a new method of disposal.



## Rehabilitation of Ash Bund (1997 – 2007) \$0.75M

Developed rehabilitation plans to mitigate erosion, improve drainage, attract bird life and improve the ecological and social value of the areas previously used to store ash.



## Upgrade Monitoring Equipment (2006 –2008) \$0.6M

Installed continuous operating in-line nitrogen oxide and particulate monitoring equipment. This ensures emissions are controlled to less than 1.6 grams of nitrogen dioxide and 0.08 grams of particulates per cubic meter.



## Energy efficient motors (2006) \$0.42 M

Installed three high efficiency 90 kW pulveriser motors which are 3% more efficient than the previous motors and reduced the overall carbon dioxide emissions by 544 tonnes / annum.



## Water usage reduction (1995 -2005)- \$0.39M

Developed a system where secondary treated sewerage water is reused resulting in domestic water savings of 200ML / annum.



## Water savings initiatives (2006) - \$50,000 / Yr

Developed in-house water savings systems which has resulted in the reduction of domestic potable water use by 25% or 185 ML / annum.



## Noise emission reductions (2006-2009) \$9.2M

Redesigned the induced draft fans to efficiently exhaust flue gases and reduce low frequency noise emissions.



## Coal handling modifications (2005-2008)-\$1.2M

Reduced airborne coal dust by modifying coal conveying and chute systems and reducing the height of falling coal streams.



## Waste management (2005-2006)-\$40,000/annum

Established practices to recycle solid and liquid wastes which reduced quantities dispatched to landfill by 800 tonnes / annum.



## Dust Reduction 2007 - 2008 – \$1.2M

Reduced airborne coal dust emissions by upgrading the coal receiving dust suppression systems.

This will be the first phase in the ultimate objective to eliminate coal dust emissions from the power station site.



# Ash removal efficiency (2008 – 2009)- \$4M

Designed and installed an ash hopper which has improved the efficiency of ash slurry removal and reduced the quantity of domestic water to remove ash spillages.

