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Less fuel and cleaner air

FUELSTAR Fuel Combustion Technology Ltd manufactures an in-line fuel-borne combustion catalyst that reduces fuel consumption, lowers emissions and prolongs engine life.

The product has been sold by Fuelstar for 14 years for use in cars but it is only in relatively recent times that the product has been developed for use in commercial and industrial applications.

“The most important thing about this technology is that it can reduce fuel consumption by 10 per cent and simultaneously bring about a 30 per cent reduction in pollutants,” said managing director, Ian Cornelius.

He said the product has a five-year life and the cost of it would be recovered at least ten times over. It can be applied to all engine sizes and can be installed with minimum shut-down.

The product is suitable for underground mining operations, where it can substantially reduce the emission of nitrogen oxide and particulate matter.

It is made from stainless steel and meets all relevant standards. The product has been successfully tested by a laboratory of the California Air Resource Board and is sold in various overseas countries.

Case study - fleet 50 mine dump trucks

Usage per annum = 12 hours/day, 6 days/wk, 40 weeks/yr = 2880 hours/truck or 144,000 engine hours for the fleet.

Life of product = 5 years

Fuel usage = 150 litres/hr or 21.6 million litres/yr = 108 million litres over 5 years

Fuel cost (Australia) = AUD\$1.10/litre = AUD\$118.8 million

Fuel saving at 10% = AUD\$11.88 million

Cost of fit out = 50 dump trucks at AUD\$5,000 installed = AUD\$250,000.

Therefore the cost is recovered 47.5 times over.

Breakeven = fuel saving of 0.21%.

Payback period assuming 10% saving = 38 days

Reduction in greenhouse gas at 2.7kgs of carbon dioxide/litre of fuel = 29,160 tonnes

For more information log onto www.fuelstar.com or telephone Ian Cornelius on 0408 527 391.