

# SPECTS Vehicles Produce Less Emissions = Improved Environmental Performance

## General Access Non SPECTS vehicle

Average age\* of the NSW heavy vehicle fleet: 15 years



## SPECTS vehicle

Maximum age of vehicles permitted: 7 years



### Emissions\*\*

Particulate matter comprised of Carbon Monoxide/  
Hydrocarbons/Oxides of Nitrogen

The World Health Organisation (WHO) recognises that ambient (outdoor) pollution poses a major risk to the health of populations. Particulate matter with a diameter of 10 microns or less can penetrate the respiratory system and have been linked to the incidence of cardiovascular and respiratory diseases, as well as lung cancer. Lowering fuel emissions contributes to the overall reduction in air pollution and, therefore, the health risk to communities.

(Sources: <http://www.who.int/mediacentre/factsheets/fs313/en/> and Managing particles and improving air quality in NSW, NSW Environmental Protection Authority, 2013)

General Access  
Non SPECTS vehicle:

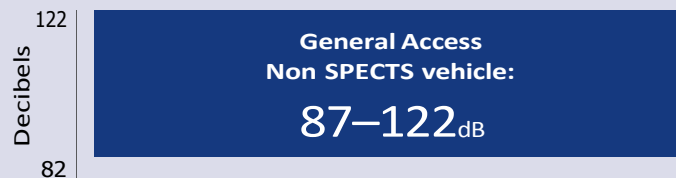
0.13g/kWh  
(Euro 3 engine)

↓ 84.61%  
reduction in emissions

SPECTS vehicle:  
0.02g/kWh  
(Euro 5 engine)

### Noise\*\*\*

Reversing alarm



SPECTS vehicle:  
82-112dB

↓ 5.7-8.2%  
reduction in noise levels

\* Based on the average age of a NSW registered heavy vehicle.

\*\* Based on emissions generated from a Euro 5 engine for a SPECTS vehicle and a Euro 3 engine for a General Access Non SPECTS vehicle, in accordance with Australian Design Standards.

\*\*\* Noise levels based on a University of NSW review of alarms for construction equipment. (Review of alternatives to 'beeper' alarms for construction equipment, University of NSW, 2009').