

# FleetWise Assessment Report

Company A



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Authorised by the Victorian Government, 121 Exhibition Street, Melbourne.



# FleetWise Assessment Report

## Introduction

This report assesses Company A's fleet performance in relation to a number of key FleetWise emissions and cost metrics. The data reported will be used as a benchmark to assess Company A's progress in reducing its fleet emissions during the course of the FleetWise program.

The main data contained in this report is the emissions assessment table on the following page. This table measures a number of key operational fleet characteristics, such as total kilometres travelled, fuel consumption, and fuel cost, as well as the environmental characteristics of the average fleet air quality score, total greenhouse gas emissions, and average greenhouse intensity. The data is broken down by both fuel and vehicle type in order to help participants identify the main sources of their emissions.

The emissions assessment is based on the fleet data provided to the Vic Department of Transport by Company A. It relates to the period July 2010 to July 2011.

While the approach to measuring emissions is robust, the Vic Department Transport has not independently verified the accuracy of the input data. On this basis, the emissions assessment data should only be used for the purpose of taking part in FleetWise.

## Summary of Company A's Fleet Baseline

As of July 2011 the main features of Company A's fleet were:

- Annual distance travelled – 5,227,261 kilometres, with around 94 per cent of this travel undertaken by passenger vehicles.
- Average fuel consumption – 8.38 kilometres per litre of fuel.
- The average fuel cost – \$0.168 per kilometre.
- Fleet-wide average Green Vehicle Guide air quality score – 5.67.
- Total annual greenhouse gas emissions attributable to the fleet – 1,593 tonnes, with around 93 per cent attributable to passenger vehicles.
- Average greenhouse intensity – 298 grams of CO<sub>2</sub> equivalent for every kilometre travelled, with passenger vehicles averaging 295 grams and commercial vehicles averaging 336 grams.

## Notes to the Assessment

The emissions assessment is based on the following considerations and assumptions:

- The data did not provide any indication of whether all of the vehicles listed were still operating at the reporting date, and there was no evidence of any fleet turnover. It has therefore been assumed that all of the vehicles listed were operating in the fleet at the reporting date.
- There were significant gaps in the annual kilometres travelled data, but the fuel consumption data appeared complete. The data gaps were corrected by extrapolating the fuel consumption data from similar vehicles in the fleet.

The FleetWise Emissions Assessment	July 11	Jan 09	Change
Operational Characteristics			
Vehicles in Operation at Reporting Date			
Passenger vehicles	231		
Commercial vehicles	16		
<b>Total</b>	<b>247</b>		
Annual Distance Travelled (kilometres)			
Passenger vehicles	4,904,541		
Commercial vehicles	322,720		
<b>Total</b>	<b>5,227,261</b>		
Annual Fuel Consumption (litres)			
Diesel	41,478		
Petrol	591,038		
<b>Total</b>	<b>623,516</b>		
Average Fuel Consumption (kilometres/litre)			
Diesel	8.31		
Petrol	8.39		
Fleet Average	8.38		
<b>Total Annual Fuel Cost</b>	<b>\$877,802</b>		
Average Fuel Cost (\$/kilometre)			
Diesel	\$0.186		
Petrol	\$0.167		
Fleet Average	\$0.168		

Total Energy Consumption (megajoules)	21,467,170		
Environmental Characteristics			
Air Quality (Ave Green Vehicle Guide Score)	5.67		
Annual Greenhouse Gas Emissions (tonnes)			
Passenger vehicles	1484		
Commercial vehicles	109		
<b>Total</b>	<b>1,593</b>		
Greenhouse Gas Emissions Intensity			
Passenger vehicles	295		
Commercial vehicles	336		
Fleet Average	298		

## Key Terms

Passenger Vehicles	The vehicles classified as passenger are sedans, wagons, hatchbacks, 4WDs and vans specifically designed to carry passengers.
Commercial Vehicles	The vehicles classified as commercial are all non-passenger vehicles below 3.5 tonnes tare. The assessment excludes medium and heavy-duty vehicles.
Vehicles in Operation	This figure indicates the number of vehicles that were operating in the fleet at the reporting date. The figure excludes any vehicles that were sold or written off during the reporting year, but the fuel used by any such vehicles has been incorporated in the greenhouse analysis.
Average Fuel Consumption	This figure has been obtained by dividing total fuel consumption for each fuel by the total kilometres travelled by vehicles powered by that fuel.
Average Fuel Cost	This figure has been obtained by dividing the total fuel cost for each fuel by the total distance travelled by vehicles powered by that fuel.
Energy Consumption	Total energy consumption was derived by calculating the total annual consumption of all transport fuels during the past twelve months.
Air Quality Score	This score measures the air pollution production rate of the current fleet, and represents an average of the individual air quality ratings for each vehicle within the fleet. Air quality ratings were derived from the Green Vehicle Guide. The rating is out of 10, with higher scores equating to lower average air pollution.
Greenhouse Gas Emissions	The annual greenhouse gas emissions for the fleet has been derived from the total fuel consumed over the past 12 months. This assessment considers the emissions generated by the direct combustion of the fuels only (on a full life cycle basis) and excludes embodied emissions. Emissions factors were derived from the 2008 National Greenhouse Accounts Factors produced by the Commonwealth Government.
Greenhouse Gas Emissions Intensity	This factor measures of the greenhouse gas production rate of the fleet, and has been obtained by dividing the total annual greenhouse gas emissions of the fleet by the total annual kilometres travelled.

## Disclaimer

The FleetWise emissions assessment has been derived from data supplied by the participating organisation (or its agent). It should be noted that this emissions assessment has not been supplemented by an independent audit of the accuracy of the data supplied. Therefore the Vic Department of Transport does not guarantee the accuracy of this data.