

PUBLIC REPORT TEMPLATE

Controlling Corporation

Cootes Transport Group – International Energy Services

Period to which this report relates

Start 1st July 2008

End 30th June 2009

Part 1 – Information on assessments completed to date

Table 1.1 – Description of the way in which the Corporate Group (or part of it) has carried out its assessments

- Interviewed staff in order to ascertain; business plans; current energy saving opportunities identified for vehicle energy; current energy data collection and reporting systems; data completeness measures; data gaps, and data collection assumptions;
- Collection of vehicle (transport) and non-vehicle (stationary) energy billing data for a **12 mth period** for the financial year **2008/2009** including: fuel consumption data; electricity consumption data.
- Assessment of opportunities and data for a 12mth period, was for the FY 09
- Developed Key Performance Indicators (KPIs) including: staff numbers and quantity of product delivered for the period FY 09.
- Site audit's carried out at the 2 largest depots, Dandenong & Spotswood , Victoria, to develop (or further develop) a list of energy saving opportunities for non-vehicle energy;
- Developed an improved data collection, for transport energy - including a program for measuring fuel efficiency at a depot level and improvements to KPI reporting for engine emissions

Table 1.2 – Energy use assessed

Group member and/or business unit and/or key activity and/or site that has had an assessment completed by the end of this reporting period.	Period over which assessment was undertaken ¹	Energy use per annum in GJ ² in the current reporting year
Cootes Transport Group – Transport Energy	1st July 2008 – 30 th June 2009	999818 gj
Cootes Transport – Stationary Energy	1st July 2008 – 30 th June 2009	1672.29 gj
Total energy assessed		1,001,490.29 gj
Total energy use of the group in the current reporting year		1,001,490.29 gj
Total energy assessed expressed as a percentage of total current energy use		100%

1. This should be the start and finish date (month and year) for the assessment (planned assessment dates were nominated in Table 3.1 of the approved ARS).
2. Energy Bandwidth may only be used if approved in the Assessment and Reporting Schedule.

Part 1 – Information on assessments completed to date (continued)

Table 1.3 – Accuracy of energy use data		
Entity	% achieved	Reasons for not achieving data accuracy to within $\pm 5\%$

Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

Part 2A - New Assessments completed during the reporting period

Name of Group member or business unit or key activity or site: Cootes Transport Group

Amount of energy assessed which generated the results below (and is reported in Table 1.2)

1,001,490.29	GJ
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Table 2.1 – Opportunities assessed to an accuracy of ±30% or better

Status of opportunities identified		Number of opportunities	Estimated energy savings per annum by payback period (GJ)			Total estimated energy savings per annum (GJ)
			0 – < 2 years	2 – ≤ 4 years	> 4 years	
Outcomes of assessment*	Total Identified	1		2522.60		2522.60
	Business Response*					
	Under Investigation	1		2522.60		2522.60
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					

Name of Group member or business unit or key activity or site: Cootes Transport Group

Amount of energy assessed which generated the results below (and is reported in Table 1.2)

	GJ
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Table 2.2 - Opportunities assessed to an accuracy of worse than ±30%

Status of opportunities identified		Number of opportunities	Estimated energy savings per annum by payback period (GJ)			Total estimated energy savings per annum (GJ)
			0 – < 2 years	2 – ≤ 4 years	> 4 years	
Outcomes of assessment	Total Identified					
Business Response	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					

Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

Part 2B - Update of assessments originally reported in previous reporting periods

Name of Group member or business unit or key activity or site: Cootes Transport Group

Amount of energy assessed which generated the results below (and is reported in Table 1.2)

1,001,490.29	GJ
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Table 2.3 - Opportunities assessed to an accuracy of $\pm 30\%$ or better

Status of opportunities identified		Number of opportunities	Estimated energy savings per annum by payback period (GJ)			Total estimated energy savings per annum (GJ)
			0 – < 2 years	2 – ≤ 4 years	> 4 years	
Outcomes of assessment*	Total Identified	9	15512	14400	40360	70272
Business Response*	Under Investigation	3			40360	40360
	To be Implemented	1	1616			1616
	Implementation Commenced	1	7720			7720
	Implemented	4	6176	14400		20576
	Not to be Implemented					

Name of Group member or business unit or key activity or site: _____

Amount of energy assessed which generated the results below (and is reported in Table 1.2)

	GJ
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Table 2.4 - Opportunities assessed to an accuracy of worse than $\pm 30\%$

Status of opportunities identified		Number of opportunities	Estimated energy savings per annum by payback period (GJ)			Total estimated energy savings per annum (GJ)
			0 – < 2 years	2 – ≤ 4 years	> 4 years	
Outcomes of assessment*	Total Identified					
Business Response*	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					

Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

Part 2C - Details of at least three significant opportunities found through EEO assessments

Table 2.5 – Description of 3 significant opportunities

Opportunity 1
EEO 1 – repowering of units with poor fuel. The conversion of engines has commenced and is ongoing as engines wear out. The original plan was to convert with CAT engines, this plan has now changed due to Caterpillar exiting the Australian market . Evaluations are currently underway for an alternative engine – this EEO is currently ongoing
Opportunity 2
EEO 2 - LNG conversions – three units were converted to LNG, some mixed results resulted in one unit being removed. The unit that was removed proved to be unreliable and inefficient. A number of factors has resulted in this program being placed in the “under investigation”. 1. The lack of re-fuelling facilities. 2, the departure of CAT from the Australian markets has meant that “aftermarket” conversions are difficult. 3. LNG will be further evaluated once an online truck OEM is able to better prove the technology
Opportunity 3
EEO 8 – Reduction in engine RPM. This opportunity is ongoing and has proved to be of great benefit. As vehicles are replaced units will be replaced with lower top gear engines RPM.
Opportunity 4
A new Opportunity has been identified and is currently being reviewed – the use of Green tyres. Green tyres are providing fuel savings, however they do come with a higher capital cost, hence the payback period is yet to be confirmed. On initial investigation we believe a fuel saving of around 2% can be achieved, in certain applications. 2% of diesel burn 4,868,619 lts or 2,522 gj. These savings will only be identified in longer distance cartage.

Part 3 - Voluntary Contextual Information

Table 3.1 – Contextual Information

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Table 3.2 – Energy use expressed in Greenhouse Gas emissions and as an energy use indicator

Period of energy use _____ to _____

Name of group member/ business unit/ key activity/site	Energy use pa (GJ)	Energy use pa (GGE)	Energy use as an indicator*
Total			


Table 3.3 - Opportunities assessed to an accuracy of ±30% or better (\$ value)

Status of opportunities identified		Number of opportunities	Estimated energy savings per annum by payback period (\$)			Total estimated energy savings per annum (\$)
			0 – < 2 years	2 – ≤ 4 years	> 4 years	
Outcomes of assessment*	Total Identified					
Business Response*	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					

Part 3 - Voluntary Contextual Information (continued)

Table 3.4 – Changes in energy use as an indicator			
Name of group member/ business unit/ key activity/site	Current energy use as an indicator	Previous energy use as an indicator	Reasons for change
Total			

Part 4 - Declaration

Table 4.1 - Declaration of accuracy and compliance (mandatory information)	
<p>The information included in this report has been reviewed and noted by the board of directors and is to the best of my knowledge, correct and in accordance with the <i>Energy Efficiency Opportunities Act 2006</i> and <i>Energy Efficiency Opportunities Regulations 2006</i>.</p>	
	<p>Chief Executive Officer</p>
<p>Date 30/6/2009</p>	