

FIRST PUBLIC REPORT TEMPLATE

Controlling Corporation

Cootes Transport Group – International Energy Services

Period to which this report relates

(See sub-section 22(2) of the Act and Regulation 7.1 of the *Energy Efficiency Opportunities Regulations (the Regulations) 2006*)

Start

1st July 2007

End

30th June 2008

Part 1 - Summary of assessments conducted thus far

Table 1.1 - Description of the way in which the corporation has carried out its assessments and over what period was each assessment taken. A statement saying that the intent and key requirements of the Energy Efficiency Opportunities legislation have been met must be made.

- Interview with relevant 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 month period for the financial year 2007/2008 including: fuel consumption data; electricity consumption data; and fuel and electricity contract information.
 - Collection of performance parameters for a 12 month period for the financial year 2007/2008 to assist with developing Key Performance Indicators (KPIs) including: staff numbers and quantity of product delivered.
 - Undertake a site audit at the Cootes's largest depot, Dandenong, Victoria, accompanied by a member of the site team in order to develop (or further develop) a list of energy saving opportunities for non-vehicle energy;
 - Analysis of energy consumption data and development of an energy mass balance which will take the form of a breakdown of energy end use;
 - Development of Key Performance Indicators (KPIs) for management reporting. KPIs to be based on energy consumption compared to performance parameters; and
- Development of recommendations to improve data collection including a program for measuring fuel efficiency at a depot level and improvements to KPI reporting

Outcomes for this element are

- Key business priorities and plans that could influence or impact on energy use and the energy assessment were identified;
- Key site processes and activities that use energy were identified;
- Data was collected for a 12 month period;
- An energy-mass balance was developed and data was analysed;
- Energy performance KPIs were determined; and

Measures for improving data collection were identified

Table 1.2 - Group member/business unit/key activity/site that have been assessed	Energy use per annum in the year the assessment is completed *	Energy data accuracy (if not within ±5%) **	Reasons for not achieving data accuracy to within ±5% **
Cooles Transport Group – Transport Energy	1,036,285 gj		(see paragraph 5(b) of Schedule 4 of the Regulations)
Cooles Transport – Stationary energy	2,820 gj		
Total	1,039,105 gj		
Total as a percentage of total energy use of the group covered by this report	94%		

* Energy Bandwidth may only be used if approved in the Assessment and Reporting Schedule

** Data accuracy not within ± 5% can only be included if approved in the Assessment and Reporting Schedule

Part 2 - Outcomes of and business response to opportunities that have been identified and evaluated for each group member, business unit, key activity or site assessed
 (See paragraphs 3-6 of Schedule 4 and Schedule 6 of the Regulations)

Group member/business unit/key activity/site >0.5 PJ name : Cootes Transport Group _____

Outcomes of assessment	Status of Opportunities	Number of Opportunities	Estimated energy savings per annum by payback period (GJ)		Total estimated energy savings per annum (GJ)	* Accuracy range (%)
			0 - < 2 years	2 - ≤ 6 years		
	Identified (accuracy ≤ ±30%)	10	18793	62555	81348	15
	Non Vehicle Identified (accuracy > ±30%)	6	10439	2994	13433	20
	**Total Identified	16	29232	65549	94781	
***Business Response	Under Investigation	6	13734			
	To be Implemented	1	807			
	Implementation Commenced	3		48483		
	Implemented	4	18793			
	Not to be Implemented > 4yrs	2		12964		

*The accuracy range for projected or actual costs, benefits and energy savings.

**You must ensure that this row is the sum of the two rows above it.

*** The data contained in each row of the business response area must total to the data contained in the 'Total Identified' row.

Note: An opportunity is any potential change to a system, activity or piece of equipment that:

- is identified during an EEO assessment;
- is consistent with legal requirements such as OHS, and
- may result in energy savings projects with payback periods of 4 years or less.

Details of at least three significant opportunities found through EEO assessments

(See paragraph 7 of Schedule 4 of the Regulations)

Details must include a brief description of the opportunity and may optionally include details of the costs of implementation, energy/dollar savings and any other benefits (such as greenhouse reductions).

Table 1.4

Opportunity 1

EEO-2: 10 x Repowering units with poor fuel efficiency

ADR 80 Detroit engines have been identified as high fuel users, as the engines wear out they are being replaced with more fuel efficient CAT powerplants. A saving of around 90,000 litres per annum of diesel has been identified. Engine replacements commenced in December 2006 with three engines already replaced and a further six scheduled for replacement in the next 18 months.

Savings and Costing Summary	
Annual Energy Saving	3,474 GJ/annum
Annual Cost Saving	135,532 \$/annum
Estimated Capital Cost	500,000 \$
Simple Payback Period	3.7 years

Status of EEO – Implemented in December 2006, and ongoing

Opportunity 2 *

One diesel truck was converted to LNG on a trial basis in Victoria, however terminal access was refused due to major hazards risk. The LNG kit was removed and two alternative trucks were converted in Western Australia, where there are better resources and available re-fuelling depots.

Savings and Costing Summary	
Annual Energy Saving	40,361 GJ/annum
Annual Cost Saving	170,000 \$/annum
Estimated Capital Cost	1,000,000 \$
Simple Payback Period	5.9 years

Trial on the original truck was identified as a failure. Refuelling facilities are still non-existent in the Eastern States, restricting growth in LNG conversions.

Opportunity 3 **

EEO-8: Reduction in engine revolutions - truck specifications

Vehicles specifications were thoroughly reviewed by IES in 2003. A matrix was completed comparing trip times/truck engine load and fuel usage. It was resolved that IES should trial lowering engine RPM by operating a taller set of gears. The net effect was a reduction in fuel burn of approx 6-8%. All new units introduced operate with optimum differential gears. The new ADR 80/03 engines run slower again, due to a higher and different HP map. New vehicles are running at lower RPM for past 3yrs - new units same to apply.

Savings and Costing Summary		
Annual Energy Saving	7,720	GJ/annum
Annual Cost Saving	280,000	\$/annum
Estimated Capital Cost	0	\$
Simple Payback Period	0	years

*If there are less than three significant opportunities, provide details of those identified.

**If no significant opportunities have been identified in the assessment, a statement to this effect.

Part 3 - Voluntary Contextual Information

Reporting corporations may supply additional information that provides more context to the public report. Such information may include:

- Energy use and energy saved by energy type, as greenhouse gas emissions, as an indicator, or as an index;
- Energy savings achieved in the period 2000-2005;
- Opportunities with a greater than four year payback and the business response;
- Changes in total energy use/energy use indicator broken down to include causes of increase or decrease;
- Energy use and energy efficiency opportunities presented in dollars; and
- Other contextual information about the corporation's energy use and management.

Part 4 - Declaration

(See paragraph 8 of Schedule 4 of the Regulations and paragraph 22(4)(c) of the Act)

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 *Energy Efficiency Opportunities Act 2006* and *Energy Efficiency Opportunities Regulations 2006*.



Chair of the Board of Directors/CEO/Managing Director/Equivalent officer (state position)