

PUBLIC REPORT TEMPLATE

Controlling Corporation

Alex Fraser Pty Ltd

Period to which this report relates

Start 1 July 2008

End 30 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

Alex Fraser Pty Ltd (The Alex Fraser Group) is 75% owned by the Swire Group, a multinational, multi-disciplined business group that recognises its responsibility as a corporate citizen to continually strive to lessen the impact of its activities on the environment. The Alex Fraser Group has a long history of resource recovery and reuse. Our primary business activity is the recycling of construction and demolition material into high-grade civil construction materials. This activity recovers precious resources and dramatically reduces the carbon footprint of major projects.

The Alex Fraser Group has committed itself to the Energy Efficiency Program and the intent and key requirements of the Energy Efficiency Opportunities have been met. The energy assessment followed the key requirements of the program.

The Assessment Report makes use of energy use data generated by the company's accounting system. A multi-disciplinary team including members from General Management, Finance, Projects and Human Resources examined the activities responsible for the largest consumption of energy. In 2008-09 the group completed construction of two state of the art recycling plants in Melbourne. Both plants successfully proved one of the opportunities identified in the 2007-08 report: a telescopic radial stacker for handling finished product and avoiding diesel consumption from an earthmoving loader. Two other plant design innovations have been identified and implemented in the 2008-09 period: a plant feeder system and direct connection of the primary plant to a secondary processing plant, both eliminating diesel consumption from an earthmoving loader. A further opportunity has been identified in the period: improving efficiency of truck movements by increasing on-highway truck payloads.

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
Queensland Recycling Pty Ltd	1 July 2007 – 30 June 2008	37,660.00
Recycling Industries Pty Ltd	1 July 2007 – 30 June 2008	75,921.00
Total energy assessed		113,581.00
Total energy use of the group in the current reporting year		193,711.00
Total energy assessed expressed as a percentage of total current energy use		59%



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 $\pm 5\%$
Queensland Recycling Pty Ltd	95%	
Recycling Industries Pty Ltd	95%	

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

Part 2A - New Assessments completed during the reporting period

No new assessments in the period.

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: Recycling Industries Pty Ltd

Energy use of the entity during the current reporting period

75,921

GJ

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	2007-08	6	9,634	4,938		14,572
		2008-09	3	2,406			2,406
Business Response*	Under Investigation	2007-08					
		2008-09	1	129			129
	To be Implemented	2007-08					
		2008-09	1	607			607
	Implementation Commenced	2007-08					
		2008-09					
	Implemented	2007-08	3	6,656	150		6,806
		2008-09	1	1,670			1,670
	Not to be Implemented	2007-08	3	2,978	4,788		7,766
		2008-09					

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
<p><i>Eliminating diesel consumption from earthmoving equipment by installing an “apron feeder” at the Clayton concrete recycling plant.</i></p> <p>Incorporation of a feeder system to replace an earth ramp negates the need for a second front end loader, reduces the travel distance from stockpile to plant and allows loader to operate on level ground. Energy consumption for this process will drop from 3,740 GJ to 1,690 GJ a year.</p>
Opportunity 2
<p><i>Eliminating diesel consumption from earthmoving equipment by connecting the finished product stacker at the Clayton concrete recycling plant to the “pug mill” secondary processing plant.</i></p> <p>Linking the stacker from the crushing plant directly to the pugmill at our Clayton recycling plant has eliminated one front end loader for 503 hours per annum, resulting in annual savings of 607 GJ. Previously a front end loader was required to pick up finished product from a stockpile and load it into the pugmill.</p>
Opportunity 3
<p><i>Increasing efficiency of on-highway truck movements by increasing payload per movement.</i></p> <p>A “Performance Based Assessment” process will be done on 2 on-highway trucks to evaluate whether payload could be increased from 33.5 tonnes to between 38 and 41 tonnes per movement. This opportunity is anticipated to reduce energy use by 129 GJ per annum.</p>

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>Peter Murphy Chief Operating Officer</p>
	<p>15 January 2010</p>