



FIRST PUBLIC REPORT

Controlling Corporation

BGC (Australia) Pty Ltd

Period to which this report relates

Start 01/07/2006

End

30/12/2008

Part 1 - Summary of assessments conducted thus far

BGC (Australia) Pty Ltd completed two Energy Efficiency Opportunity (EEO) assessments by the end of December 2008.

Division: Plasterboard

Production facility and distribution

Period of assessment: January 2008 to December 2008

BGC Plasterboard manufactures plasterboard, cornice and special plasters for the residential and commercial building sector. The EEO assessment was conducted over a 12 month period using three years of available energy, operation and production records. The process of assessment followed that prescribed in the Department of Resources, Energy and Tourism's EEO Assessment Handbook (2006) and Energy Savings and Measurement Guide (2008). Consultants were engaged to assist with various parts of the process to establish a best practice model of assessment which can be applied to subsequent assessments. The intent and requirements of the six key elements of the Energy Efficiency Opportunities Program have been met.

Division: Contracting

Dump trucks

Period of Assessment: April 2008 to December 2008

BGC Contracting provides plant and services to major civil engineering and mining projects. The EEO assessment was conducted over a 9 month period using two years of available energy, operation and production records. A sample of dump trucks used at different locations were assessed as representative of the broader population of dump truck energy use. The process of assessment followed that prescribed in the Department of Resources, Energy and Tourism's EEO Assessment Handbook (2006) and Energy Savings and Measurement Guide (2008). Consultants were engaged to assist with various parts of the process to establish a best practice model of assessment which can be applied to subsequent assessments. The intent and requirements of the six key elements of the Energy Efficiency Opportunities Program have been met.

Group members that have been assessed	Energy use per yr in the yr the assessment is completed
Plasterboard	0.27PJ – 0.32PJ
Contracting	0.70PJ – 0.85PJ
Total	0.97PJ – 1.17PJ
Total as a percentage of total energy use of the Group covered by this report	28% – 34%

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

Group member: Plasterboard

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 – ≤ 4 years			
Outcomes of assessment	Identified (accuracy ≤ ±30%)	19	6,780	1,540	8,320	≤ ±30%
	Identified (accuracy > ±30%)	2	29,010	-	29,010	> ±30%
	Total Identified	21	35,790	1,540	37,330	> ±30%
Business Response	Under Investigation	4	0	1,540	1,540	> ±30%
	To be Implemented	14	4,690	-	4,690	≤ ±30%
	Implementation Commenced	3	31,100	-	31,100	> ±30%
	Implemented	-	-	-	-	-
	Not to be Implemented	-	-	-	-	-

Details of three significant opportunities found through EEO assessment

Opportunity 1
Dryer efficiency
Improve plasterboard dryer efficiency to a targeted level through maintenance and staged replacement of under capacity heat exchange components and seals, and further Investigate waste heat recovery options.
Opportunity 2
Lightweight cornice production
Reduce the product density of cornice production to an optimal level and hence save energy used to evaporate excess water from the production process.
Opportunity 3
Reduce defects in product
Quality assurance training and improved production techniques will be reinforced through an employee assessment and monitoring process and investment in plant to achieve a target reduction in reject product and associated labour, raw material and energy savings.


Group member: Contracting

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 – ≤ 4 years		
Outcomes of assessment	Identified (accuracy ≤ ±30%)	6	127,355	-	≤ ±30%
	Identified (accuracy > ±30%)	-	-	-	-
	Total Identified	6	127,355	127,355	≤ ±30%
Business Response	Under Investigation	1	5,530	-	≤ ±30%
	To be Implemented	3	42,815	-	≤ ±30%
	Implementation Commenced	1	36,250	-	≤ ±30%
	Implemented	-	-	-	-
	Not to be Implemented	1	42,760	-	> ±30%

Details of three significant opportunities found through EEO assessment

<p>Opportunity 1</p> <p>Idle Time Management</p> <p>Broaden idle time analysis through time and motion study at specific sites and set targets to decrease idle time through technology considerations such as auxiliary power units and management techniques such as 'staggered starts' and monitoring of driver performance.</p>
<p>Opportunity 2</p> <p>Light Weight Dump Bodies</p> <p>Fit all new dump trucks with light weight dump bodies and retro fit all old trucks with light weight dump bodies when standard dump body requires replacement. The light weight bodies have several benefits including less tyre wear, increased payload, lower lifecycle cost of drive train and power units, reduced empty vehicle weight, reduced fuel consumption, faster cycle times.</p>
<p>Opportunity 3</p> <p>Operator Training</p> <p>Implement a training module to educate, train and assess dump truck drivers on operating techniques to reduce fuel consumption.</p>

Part 3 – Declaration

<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 Energy Efficiency Opportunities Act 2006 and Energy Efficiency Opportunities Regulations 2006.</p>	 <p>Managing Director</p>
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