

PUBLIC REPORT TEMPLATE

Controlling Corporation

Murray Goulburn Co-operative Co. Limited

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

Continued the process started the previous year. More information sessions across the company held, and a company wide system for assessing resource improvement opportunities (RIO) for Energy, Waste & Water has been developed and implemented, with all improvement opportunities identified and held in a data base for managed action. Each of the manufacturing sites has a Resource Improvement responsibility, managed within the Waste, Yield and Environment group. Significant work has been carried out to streamline access to resource billing data from the internal accounting management systems. The next two largest sites commenced assessments.

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
Koroit	July 07 to December 08	1,106,252
Leongatha	November 08 to December 09	888,322
Maffra	April 09 to December 09	858,144
Total energy assessed		2,852,718
Total energy use of the group in the current reporting year		5,376,795
Total energy assessed expressed as a percentage of total current energy use		53%

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 $\pm 5\%$
Koroit	95%	
Leongatha	95%	
Maffra	95%	

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: Leongatha

Energy use of the entity during the current reporting period

888,322	GJ
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Table 2.1. Leongatha – 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	2	nil	32,000	1,614	33,614
Business Response*	Under Investigation	nil				
	To be Implemented	nil				
	Implementation Commenced	1	nil	32,000	nil	32,000
	Implemented	1	nil	nil	1,614	1,614
	Not to be Implemented	nil				

Table 2.2. Leongatha - 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	30				
Business Response	Under Investigation	26				Energy assessments still underway
	To be Implemented	nil				
	Implementation Commenced	4				Energy assessments still underway
	Implemented	nil				
	Not to be Implemented	nil				

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: Maffra

Energy use of the entity during the current reporting period

858,144	GJ
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Table 2.1.Maffra – 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 – \leq 4 years	> 4 years	
Outcomes of assessment*	Total Identified	1		25,858		25,858
Business Response*	Under Investigation	nil				
	To be Implemented	nil				
	Implementation Commenced	1	nil	25,858	nil	25,858
	Implemented	nil				
	Not to be Implemented	nil				

Table 2.2.Maffra - 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 – \leq 4 years	> 4 years	
Outcomes of assessment	Total Identified	57				
Business Response	Under Investigation	53				Energy assessments still underway
	To be Implemented	nil				
	Implementation Commenced	nil				
	Implemented	2				Energy assessments still underway
	Not to be Implemented	2				Energy assessments still underway

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: Koroit

Energy use of the entity during the current reporting period

1,106,252	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 – \leq 4 years	> 4 years	
Outcomes of assessment*	Total Identified	16 (6)	51,724 (20,446)	10,941 (18,333)	187 (135)	62,851 (38,779)
Business Response*	Under Investigation	nil (nil)				nil (nil)
	To be Implemented	1 (3)	24,951 (19,808)	nil (18,333)	nil (nil)	24,951 (38,141)
	Implementation Commenced	6 (nil)	3,435 (nil)	10,704 (nil)	nil (nil)	14,139 (nil)
	Implemented	2 (3)	1,405 (638)	nil (nil)	128 (135)	1,533 (638)
	Not to be Implemented	7 (nil)	21,933 (nil)	237 (nil)	59 (nil)	22,228 (nil)

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 – \leq 4 years	> 4 years	
Outcomes of assessment*	Total Identified	83 (58)				Energy assessments still underway
Business Response*	Under Investigation	57 (58)				Energy assessments still underway



	To be Implemented	1 (nil)				Energy assessments still underway (nil)
	Implementation Commenced	nil (nil)				nil (nil)
	Implemented	4 (nil)				Energy assessments still underway (nil)
	Not to be Implemented	21 (nil)				Energy assessments still underway (nil)

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
Boiler control. Audits of boilers found improvement available by improved combustion parameters, elimination of economiser bypass, recovery of more hot condensates, further audits will be performed on the installation of a new boiler in the new year. Expected saving of 24,951 GJ p.a.
Opportunity 2
Reconfiguring equipment so that when running on lower duty products, unnecessary elements of the equipment are bypassed. This is expected to reduce steam use by 910 GJ p.a., and will have savings in pump energy and cleaning costs.
Opportunity 3
Refrigeration plant upgrade. By decommissioning two old refrigeration plants and re-assigning their duty to existing, more efficient plants, 1,881 GJ p.a. of electrical energy is saved.
Opportunity 4

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)

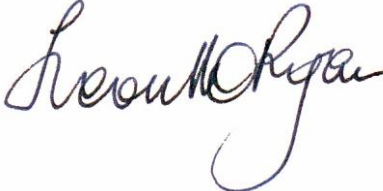
Status of opportunities identified		Number of opportunities	Estimated energy savings per annum by payback period (\$)			Total estimated energy savings per annum (\$)
			0 – < 2 years	2 – ≤ 4 years	> 4 years	
Outcomes of assessment*	Total Identified					
Business Response*	Under Investigation					
	To 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>Corporate Energy Manager</p>