

## FIRST PUBLIC REPORT TEMPLATE

### Controlling Corporation

Murray Goulburn Co-operative Co. Limited

### 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 1 July 2006

End

30 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.**

Murray Goulburn assessed the first of its sites, Koroit, through the course of 2008. A site briefing was held at the start of the assessment with key site personnel, including the site manager, factory manager, key process and environmental managers, maintenance managers and various production personnel and consultants. The assessment method included a mass and energy balance across the production plant, followed by thorough individual process evaluation based on P&ID drawings. These evaluations were performed with a group of managers and employees with intimate process knowledge, and discussion was led by consultants and Murray Goulburn Energy Manager. This method was chosen as a way of familiarising/embedding the process into standard practice for future use in process evaluation and production planning.

The assessments have complied with the intent and key requirements of the Energy Efficiency Opportunities program.

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 $\pm 5\%$ ) **	Reasons for not achieving data accuracy to within $\pm 5\%$ **
Koroit	1.24 PJ		
<b>Total</b>	<b>1.24 PJ</b>		
<b>Total as a percentage of total energy use of the group covered by this report</b>	<b>23%</b>		

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

\*\* Data accuracy not within  $\pm 5\%$  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: Koroit

Table 1.3 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	20,446	18,333	38,779	±5% to ±30%
	Identified (accuracy > ±30%)	58	#	#	#	—
	**Total Identified	64	20,446	18,333	38,779	±5% to —
***Business Response	Under Investigation	58	#	#	#	—
	To be Implemented	3	19,808	18,333	38,141	±10% to ±30%
	Implementation Commenced	0	0	0	0	
	Implemented	3	638	0	638	±5% to ±15%
	Not to be Implemented	0	0	0	0	

# Of 67 potential opportunities initially identified, nine have been investigated in detail in 2008 and assigned an estimated energy savings within 30% accuracy. Of those, four were determined to be over a 4 year payback. One was still implemented to prove the technology, providing a 135GJ saving that is not included in the table because it is a 6.4 year payback (detailed in Opportunity 1). The remaining 58 potential opportunities will be investigated in detail in 2009.

\*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**

Installing technology improvement to eliminate bypass and recirculation in membrane plants, thus reducing absorbed electricity. This project was implemented as a test case to prove the validity of the equipment. Whilst there was a reduction in energy, the savings did not justify the expenditure and the payback period proved to be 6.4yrs.

### **Opportunity 2 \***

Recovery of waste heat to pre-heat incoming air supply to Spray Driers, reducing steam demand. This will take a current unused low grade heat source, and re-introduce the heat energy into the air supply. This has a greater than 2 year payback.

### **Opportunity 3 \*\***

Efficiency improvements in boiler control to maximise gas use and combustion efficiency. An Audit of the gas fired boilers demonstrated a range of inefficiencies. These inefficiencies once eliminated will mean more efficient combustion and a reduction in gas demand. This is a low cost measure and will have a payback of .25yrs

\*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

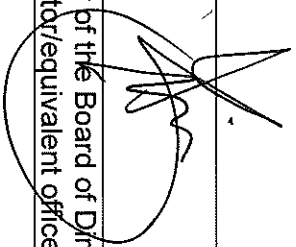
Reporting corporations may supply additional information that provides more context to the public report.

Murray Goulburn Co-operative has performed ongoing reviews of energy use relative to product output for many years. Many energy efficiency initiatives were identified and implemented as a result of participation in the Energy Efficiency Best practice programme and the Victorian EPA Audits. Energy teams were established and are participating in the Energy Efficiency Opportunities programme.

### 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*.

  
IAN BIRD COMPANY SECRETARY  
Chair of the Board of Directors/CEO/Managing Director/Equivalent officer (state position)