

FIRST PUBLIC REPORT TEMPLATE

Controlling Corporation

New South Wales Sugar Milling Co-operative 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

End

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.

Assessment for the NSW Sugar Milling Co-Operative commenced at the Harwood Mill and Refinery during 2008 utilising Technical personnel from its own staff and utilising an Engineering under-graduate student employed during semester breaks.

76 possible EEOs were identified via a site consultative process of key Technical and Production personnel and a rough cut assessment was made of the energy potentially able to be saved.

12 opportunities from the rough cut were evaluated and found not to have any energy saving potential. These were recorded as cancelled.

12 other opportunities had personnel assigned for data collection towards the commencement of an assessment process.

3 of these small projects requiring no capital were progressed and assessments completed in order to pilot a process of how to complete an assessment. A further 2 projects with significant nominal potential were commenced to develop a standard for a rigorous and comprehensive whole of business assessment process requiring capital investment

The process designed for consultation, data collection and analysis, and EEO identification and evaluation has fulfilled the criteria required under the relevant legislation. Likewise the systems established for communication and internal and external reporting are fully compliant. Corporate decision making processes are established and will demonstrate compliance pending consideration of any EEOs to be presented that require capital expenditure approval.

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 $\pm 5\%$ **
NSW Sugar Milling Cooperative Ltd Harwood Mill and Refinery	3,277,457 GJ		
Total	3,277,457 GJ		
Total as a percentage of total energy use of the group covered by this report	42%		

* 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: Harwood Mill and Refinery

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%)	5	914	284127	285041	±30%
	Identified (accuracy > ±30%)					
**Total Identified		5	914	284127	285041	±30%
***Business Response	Under Investigation	3	637	284127	284764	±30%
	To be Implemented					
	Implementation Commenced	1	277		277	
	Implemented					
Not to be Implemented		1				

*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 036	Improvements to the contact efficiency of the refinery condensers has reduced the demand for cooling water. This has reduced summer pump demand from 134.6kW to 117kW allowing an increase in the power available to export to the grid. This EEO has helped identify further potential improvements now under review for the 2009 assessment program. This EEO has been implemented
Opportunity 2 *	
EEO 032	The mill and refinery energy use for heating and cooling of offices and process control facilities identified an estimated electrical energy consumption of 2437GJ p.a. A plan to program all the newer split systems for operation only during hours of occupation and to retro fit timers to the older units for the same purpose is expected to yield 637GJ of electrical energy savings. Funding for this EEO is to be considered during our next budget period.
Opportunity 3 **	
EEO 004	The efficiency of the Harwood boiler can be improved by ~7% by the fitment of an economizer to preheat the feed-water, using the waste heat currently rejected via the flue. This reduces the fuel required to operate the boiler without reducing the steam output. This project is a capital intensive proposal requiring an initial commitment for expenditure to accurately cost an installed plant and define the accuracy of the expected energy and financial benefits and is therefore under investigation.
Opportunity 4	
EEO 019	The energy value of the fuel consumed in the Harwood boiler can be increased, by utilizing waste heat from the flue gas to reduce the moisture content of the biomass. This project is a capital, intensive proposal requiring an initial commitment for expenditure to accurately cost an installed plant and define the accuracy of the expected energy and financial benefits. This assessment did not yield a payback of <4 years but will be retained for further investigation.

*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*.

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