

## FIRST PUBLIC REPORT TEMPLATE

### Controlling Corporation

(or part of the Corporate Group authorised to report separately – see sections 22A and 22B of the *Energy Efficiency Opportunities Act (the Act) 2006*)

### 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

31 December 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.**

Cadbury Schweppes has welcomed the Energy Efficiency Opportunities (EEO) Regulations as timely guidance on managing our energy use. The Regulations will assist Cadbury to meet our stated Global target of reducing carbon emissions by 50% by 2020.

Cadbury completed it's first EEO assessment at Ringwood, using the six key elements of the EEO Regulations as waypoints in our EEO assessment. Cadbury ensured the assessment:

1. Maintained leadership support for the assessment and improvement of energy use
2. Involved a range of skilled and experienced people, and people with a direct and indirect influence on energy use
3. Ensured energy use information is appropriate, comprehensive and accurately measured and analysed
4. Undertook a rigorous process to identify, investigate, and evaluate energy efficiency opportunities with paybacks of four years or less
5. Kept decision makers informed of or directly involved in the assessment and implementation of energy efficiency opportunities.
6. Communicated the outcomes of the assessment and the investment decisions made regarding the opportunities identified and proposed business response, to senior management, the board and personnel involved.

Cadbury has met the intent and key requirements of the Energy Efficiency Opportunities legislation.

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 (GJ) *	Energy data accuracy (if not within ±5%) **	Reasons for not achieving data accuracy to within ±5% **
Ringwood Site	<b>184,317</b>	Within ±5%	
<b>Total</b>	<b>184,317</b>		
<b>Total as a percentage of total energy use of the group covered by this report</b>	<b>16%</b>		

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

\*\* Data accuracy not within ± 5% can only be included 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, 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: \_\_\_\_\_ No sites use greater than 0.5 PJ \_\_\_\_\_

Outcomes of assessment	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%)	0	0	0	0	
	Identified (accuracy > ±30%)	15	200	10,000	10,200	+or – 50%
***Business Response	**Total Identified	15	200	10,000	10,200	+ or – 50%
	Under Investigation	20	0	17,000	17,000	+ or – 100%
	To be Implemented	12	200	10,000	10,200	+ or – 50%
	Implementation Commenced	0	0	0	0	
	Implemented	3	0	Not measurable	Not measurable	
	Not to be Implemented	0	0	0	0	

\*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

A significant energy saving was identified in our ammonia chilling system. A small part of the process requires chilling at -10°C, so the whole loop is set to this temperature. By separating the chilling system into two separate loops and running the larger loop at a slightly warmer temperature, we recognised a significant energy saving opportunity. Also, splitting the chilling loops could provide extra redundancy in our process chilling to allow for expected increases in production.

### Opportunity 2 \*

A significant energy saving was identified in the conveyors that transport finished product to our palletising hall. The conveyors do not switch off automatically when no product is on them. Fitting a simple system of sensors to switch the conveyors off when product has not run for a short time is a significant energy saving opportunity.

### Opportunity 3 \*\*

The energy balance conducted at the Ringwood site reported some unexpected energy uses in some parts of the factory. Checking the metering, electrical single line diagram, and uses of energy in these areas will help to improve accuracy of the energy balance, as well as potentially uncovering further energy saving opportunities.

\*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:

- The sites in the table below account for just over 90% of energy use in Cadbury Schweppes Australia. The table shows the % difference in energy use since registering for EEO and reporting energy use in financial year 2005/06.

Table 1.5	Change in Energy use as a % of 2005/06 levels
Claremont Site	-8%
Ringwood Site	-36%
Tullamarine Site	-1%
Scoresby Site	13%
St Kilda Road head office (including company car use)	-9%
Huntingwood site	-9%
Liverpool Site	-20%
Notting Hill Site	-6%


- The Energy use table above shows that all major Cadbury Schweppes sites in Australia have reduced energy consumption between 2005/06 and 2007/8, apart from a small increase at our Scoresby site. The Scoresby site has seen significant production increases as it is upgraded to absorb production from other Australian and New Zealand manufacturing sites in a major supply chain restructure.
- A particularly notable energy saving success is the Ringwood factory. The Ringwood factory picked up reporting errors in it's energy management process, which was previously overstating energy consumption by around 10 – 15%. Nonetheless the Ringwood factory has had significant energy savings in absolute terms. These savings resulted from an upgrade to the factory chilling systems and improved performance due to improved production layouts.
- Another great energy story came from our Huntingwood site. In 2008 Huntingwood installed the largest roof mounted solar array in NSW. The project had a capital cost of around \$1,000,000 (shared with the Federal Government's Solar Cities Program, through Blacktown City Council), and generates greenhouse gas savings of around 140 tonnes per annum (equivalent to around 26 households).
- The Energy Assessment at the Ringwood site was highly beneficial. The Assessment has helped clarify energy use and better prioritised investigation of further energy saving initiatives. Along with identify a number of projects with potential paybacks of <4years, Ringwood has also implemented some projects with payback of greater than 4 years. These projects are currently underway at time of writing:

Table 1.6	Initiative	Initiative Description	Estimated Energy savings per annum in GJ (Payback Period > 4 years)	Accuracy Range (%)
	<b>Waste heat recovery on air compressors</b>	Recovering waste heat from air compressors for reuse to heat water	6000	within + or - 30%
	<b>Solar hot water</b>	Installing solar hot water systems on heavy use domestic hotwater systems	60	within + or - 30%
	<b>Pressure washers in wash bays</b>	Install lowflow high pressure washers in washbays, reduced energy use through reduced hot water use	280	within + or - 30%

**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*.

 16/12/08  
 Chair of the Board of Directors/CEO/Managing Director/equivalent officer (state position)