



## PUBLIC REPORT TEMPLATE 2010

*Please consult the explanatory document when completing this template*

### Controlling Corporation

ACN 137 191 023

### Period to which this report relates

Start 1 July 2006

End 30 June 2010

### 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

The Viterra Group of Companies has engaged the services of consultants Balance Energy (BE) to complete comprehensive energy mass balance audits on all processes of the Malting Division. (The Malt Division accounts for over 88% of all energy use within the Viterra Group of Companies in Australia).

Balance Energy compiled the audits findings and possible execution strategies that could be employed to help Viterra make savings within the Malting Division.

Viterra's internal engineering department assessed which opportunities were practical to implement, which opportunities may require more investigation and which opportunities were deemed impractical to implement.

## Part 1 – Information on assessments completed to date (continued)

<b>Table 1.2 – Energy use assessed</b>		
<b>Group member and/or business unit and/or key activity and/or site (or part thereof) that has had an assessment completed by 30 June 2010 (Include all assessments completed to date for the current 5 year cycle).</b>	<b>Period over which assessment was undertaken<sup>1</sup></b>	<b>Energy use for the period 01.07.2009 to 30.06.2010 of the assessed entity (or part thereof) expressed in GJ<sup>2</sup></b>
Malt Division – Forreestfield	April 2009 to July 2009	562, 742
Malt Division – (Other)		(971, 677)
- Lake Gardens	February 2009	115, 746
- Tamworth	July 2009	191, 443
- Cavan	October 2009	294, 590
- Delacombe	October 2009	60, 988
- Port Adelaide	October 2009	207, 189
- Brisbane	May 2010 to June 2010	101, 721
<b>Total energy use of assessed entities (or part thereof)</b>		<b>1, 534, 419</b>
<b>Total energy use of the whole corporate group in the period 1.7.2009 to 30 June 2010</b>		<b>1, 733, 594</b>
<b>Total energy use of assessed entities (or part thereof) for the period 1.7.2009 to 30.6.2010 expressed as a percentage of total energy use for the period 1.7.2009 to 30.6.2010</b>		<b>88.51%</b>

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.

<b>Table 1.3 – Accuracy of energy use assessed data</b>		
<b>Entity</b>	<b>% achieved</b>	<b>Reasons for not achieving data accuracy to within ±5%</b>
Malt Division – Forreestfield	±5%	
Malt Division – Other	±5%	







## Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

### Part 2B - Update of assessments reported in previous Public Reports

Name of Group member or business unit or key activity or site: Malting Division – Forrestfield

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

562, 742	GJ
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Table 2.3 – Opportunities assessed to an accuracy of better than or equal to ( $\leq$ )  $\pm 30\%$

Status of opportunities identified		Total 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		Unknown		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Under Investigation										
	To be Implemented	4	4	26,430							26, 430
	Implementation Commenced										
	Implemented	2	2	64,430							64, 430
	Not to be Implemented	1	1	504							504
Outcomes of assessment	Total Identified	7	7	91,364							91, 364 <sup>1</sup>

<sup>1</sup> This is a cumulative total of all opportunities that have been identified, some of these items are mutual exclusive and therefore final energy savings are likely to lower than this figure.



**Part 2B - Update of assessments originally reported in previous Public Reports (continued)**

Name of Group member or business unit or key activity or site: Malting Division – Forrestfield

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

562, 742	GJ
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**Table 2.4 – Opportunities assessed to an accuracy of worse than (>) ±30%**

Status of opportunities identified		Total 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		Unknown			
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	No of Opps	GJ		
Business Response	Under Investigation	3								3	-	+
	To be Implemented											
	Implementation Commenced											
	Implemented											
	Not to be Implemented											
Outcomes of assessment	Total Identified	3								3	+	+ <sup>2</sup>

<sup>2</sup> These opportunities require significant investigation to determine whether or the opportunities are feasible



## Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

### Part 2A - New assessments completed or not reported since your last Public Report

Name of Group member or business unit or key activity or site: Malt Division – Other

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

869,956	GJ
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Table 2.1 – Opportunities assessed to an accuracy of better than or equal to ( $\leq$ )  $\pm 30\%$

Status of opportunities identified		Total 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		Unknown		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Under Investigation	10	3	16,700	2	13,750	2	4,468	1	532.8	35,450.8
	To be Implemented	17	12	62,052	2	11,336	3	2,064			75,452
	Implementation Commenced										
	Implemented	8	8	29,825							29,825
	Not to be Implemented	5	2	2,412	1	89,400	2	44,500			136,312
Outcomes of assessment	Total Identified	40 <sup>3</sup>	25	110,989	5	114,486	7	51,032	1	532.8	277,039.8 <sup>4</sup>

<sup>3</sup> This figure does not include any opportunities from the Brisbane Facility; this is due to the fact that the final report on the possible opportunities at this site was not completed until after the reporting timeframe.

<sup>4</sup> This is a cumulative total of all opportunities that have been identified, some of these items are mutual exclusive and therefore final energy savings are likely to lower than this figure.

**Part 2A - New assessments completed during the reporting period (continued)**

Name of Group member or business unit or key activity or site: Malt Division – Other

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

869, 956	GJ
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**Table 2.2 – Opportunities assessed to an accuracy of worse than (>) ±30%**

Status of opportunities identified		Total 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		Unknown		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Under Investigation	7							7	+	+
	To be Implemented										
	Implementation Commenced										
	Implemented										
	Not to be Implemented	1							1	+	+
Outcomes of assessment	Total Identified	8							8	+	+ <sup>5</sup>

<sup>5</sup> These opportunities require significant investigation to determine whether or the opportunities are feasible

## Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

### Part 2B - Update of assessments reported in previous Public Reports

Name of Group member or business unit or key activity or site: Malting Division – Other

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

115,746<sup>6</sup>

GJ

Table 2.3 – Opportunities assessed to an accuracy of better than or equal to (<=) ±30%

Status of opportunities identified		Total 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		Unknown		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Under Investigation	6	1	5,000	2	55,000	3	54,700			114,700 <sup>7</sup>
	To be Implemented	2	1	8,040			1	15,000			23,040
	Implementation Commenced										
	Implemented										
	Not to be Implemented										
Outcomes of assessment	Total Identified	8	2	13,040	2	55,000	4	69,700			137,740

<sup>6</sup> This figure represents the Lake Gardens facility only as this was the only completed facility assessment prior to this reporting year

<sup>7</sup> This is a cumulative total of all opportunities that have been identified, some of these items are mutual exclusive and therefore final energy savings are likely to significantly lower than this figure.

**Part 2B - Update of assessments originally reported in previous Public Reports (continued)**

Name of Group member or business unit or key activity or site: Malting Division – Other

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

115, 746 <sup>8</sup>	GJ
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**Table 2.4 – Opportunities assessed to an accuracy of worse than (>) ±30%**

Status of opportunities identified		Total 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		Unknown		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Under Investigation										
	To be Implemented										
	Implementation Commenced										
	Implemented										
	Not to be Implemented										
Outcomes of assessment	Total Identified										

<sup>8</sup> This figure represents the Lake Gardens facility only as this was the only completed facility assessment prior to this reporting year

## 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
<p><b>Opportunity 1</b></p> <p><b>Forrestfield</b>            This malting plant uses two kilns during the production of various malt products. Prior to the Energy Efficiency Opportunities (EEO) project beginning it was identified that the nominal capacity of kiln #2 is approximately 20% larger than Kiln#1.            During the EEO project it was identified that the specific fuel consumption used by kiln #2 is 11% greater than kiln#1 and that the airflow through was 42% higher.            By reducing the airflow into kiln #2 this in turn reduces the heating load required to heat the additional air flow.            This opportunity will significantly reduce the heating costs and will save the plant approximately 40, 000GJ of energy per annum.</p>
<p><b>Opportunity 2</b></p> <p><b>Forrestfield</b>            The EEO project also identified that the current configuration for the air recirculation damper is operating at 50% capacity. This is significantly lower than the optimal setting of 80%. By operating the recirculation dampers at the design maximum of 80% the plant will decrease gas consumption which will yield savings of approximately 22, 000 GJ of energy consumption per annum.</p>
<p><b>Opportunity 3</b></p> <p><b>Malt Division</b>            The EEO project identified this opportunity as one that applies to all plants across the division. Previously malt has been kilned so that the moisture content is significantly below the customer mandated specifications. By ensuring that the moisture levels of the shipped malt is at or just below specification allows for shorter kilning times.            Energy savings from this opportunity will depend on many factors and it is unclear what energy saving will be made however it is likely that these savings will be significant.</p>



## Part 3 - Voluntary Contextual Information

Table 3.1 – Contextual Information			

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*
<b>Total</b>			

Table 3.3 - Opportunities assessed to an accuracy of better than or equal to (<=) ±30% (\$ 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	
Business Response*	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					
Outcomes of assessment*	Total Identified					



### 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
<b>Total</b>			



## Part 4 – Declaration

### Declaration of accuracy and compliance

The information included in this report has been reviewed 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*.

**General Manager – Safety, Health & Environment**

Date 14 January 2011

### Declaration of accuracy and compliance

The information included in this report has been reviewed 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*.

**Gary Hughes  
Executive Manager - Malt  
Viterra**

**Executive Manager – Malt**

Date 14<sup>th</sup> JANUARY 2011

### Table 4.1 - Declaration of accuracy and compliance (mandatory information)

The information included in this report has been reviewed and noted on behalf 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*.

**President Australia New Zealand Asia & SVP Viterra  
Director ACN 137 191 023**

Date 31/1/11