

## PUBLIC REPORT

### Controlling Corporation

D&R Henderson Pty Ltd

### Period to which this report relates

Start 01/07/2008

End

30/06/2009

### 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

D&R Henderson Pty Ltd has continued its assessment of potential energy saving projects throughout the reported period. Assessments for the Benalla Particleboard Operations were undertaken and are reported in part 2 of this report.

#### 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	Energy use per annum in GJ <sup>2</sup> in the current reporting year
Benalla Particleboard Operations	01/07/08 – 23/12/09	557,454
<b>Total energy assessed</b>		<b>557,454</b>
<b>Total energy use of the group in the current reporting year</b>		<b>695,831</b>
<b>Total energy assessed expressed as a percentage of total current energy use</b>		<b>80%</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.

**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 ±5%
Benalla Particleboard Operations	+/- 15%	Energy use of woodwaste bio-fuels cannot be measured to an accuracy of +/- 5%

## 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: Benalla Particleboard Operations

Energy use of the entity during the current reporting period 

557,454	GJ
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**Table 2.1 – 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				
Business Response*	Under Investigation				
	To be Implemented				
	Implementation Commenced				
	Implemented				
	Not to be Implemented				

Name of Group member or business unit or key activity or site: \_\_\_\_\_

Energy use of the entity during the current reporting period  GJ

**Table 2.2 - Opportunities assessed to an accuracy of less 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					
Business Response	Total Identified				
	Under Investigation				
	To be Implemented				
	Implementation Commenced				
	Implemented				
	Not to be Implemented				

## 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: Benalla Particleboard Operations

Energy use of the entity during the current reporting period

557,454	GJ
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**Table 2.3 - 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		33328		33328
Business Response*	Under Investigation		32328		32328
	To be Implemented				
	Implementation Commenced		1000		1000
	Implemented				
	Not to be Implemented				

Opportunity identified in previous assessment was not able to be commissioned; it has been carried across into the current assessment. Several new opportunities have been identified during the current assessment period and have been included in the above table 2.3

Name of Group member or business unit or key activity or site: \_\_\_\_\_

Energy use of the entity during the current reporting period

	GJ
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**Table 2.4 - Opportunities assessed to an accuracy of less 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				
Business Response*	Under Investigation				
	To be Implemented				
	Implementation Commenced				
	Implemented				
	Not to be implemented				

## 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

#### **Renewable Energy Plant**

Installation of 1MWH Bio Mass (Pyrolysis) Energy Plant would reduce our electricity consumption from the grid by 29,028 GJ pa

by generating part of our own on-site energy requirements

Requires 8200 tons of bio-mass pa, this can be 100% supplied from excess sander dust generated on site in the manufacturing process (currently being used to supplement our heat energy requirements for drying)

By product is **bio-char**, a synthesized carbon product which significantly improved crop yields (and sequesters carbon)

Estimated project cost is AUD\$1.5-\$2.0 Million installed using new Australian Made Technology

### Opportunity 2

#### **Inverters for Jet Dryer**

Install inverters onto Jet Dryer

This would enable power to fans to adjust up and down based on load balancing to evaporation requirements

This would reduce our electricity consumption by approximately 2300 GJ pa

Estimates cost is AUD \$70,000 installed

Opportunity 3

**Energy Monitoring System**

Perform 'discovery' exercise for all site electrical devices and install energy monitoring software to provide recommendations to reduce consumption by installing or upgrading current technology.

**It is estimated this system would reduce our electricity consumption by more than 1000 GJ pa**

Estimated project cost is \$100,000

### Part 3 - Voluntary Contextual Information

**Table 3.1 – Contextual Information**

#### **Wood Waste Cleaning Tower**

Installation of Wood Waste Cleaning Tower, to be commissioned March 2010

*It is estimated that this project will reduce natural gas consumption by approximately 50,000 GJ pa and electricity consumption by approximately 1000 GJ pa*

Project Cost is \$3,500,000

**Table 3.2 – Energy use expressed in Greenhouse Gas emissions and as an energy use indicator**

Period of energy use _____ to _____		Energy use pa (GJ)	Energy use pa (GGE)	Energy use as an indicator*
Name of group member/ business unit/ key activity/site				
<b>Total</b>				

**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				

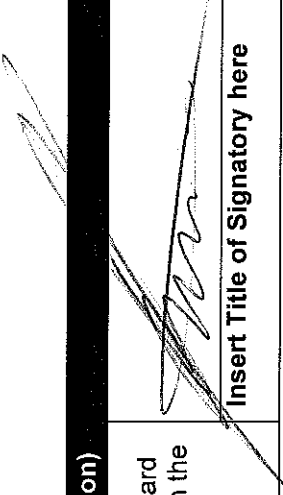
### Part 3 - Voluntary Contextual Information (continued)

**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
<b>Total</b>			

### 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>	 Insert Title of Signatory here
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