

## Monsbent Pty Ltd

Cnr Yarrowonga Rd & Hume Hwy  
Winton, VIC, 3672

Version 1  
Status: Submitted to EPA  
Report generated on 6 Mar 2009



## Company details

**Company Name** Monsbent Pty Ltd  
**ACN** 002820117  
**Address** Cnr Yarrowonga Rd & Hume Hwy  
Winton, VIC, 3673  
**Postal address** PO Box 129  
Benalla, VIC, 3672

## Site details

**Site Name** Monsbent Pty Ltd  
**Address** Cnr Yarrowonga Rd & Hume Hwy  
Winton, VIC, 3672  
**Postal address** PO Box 129  
Benalla, VIC, 3672  
**Site activity** Particalboard manufacturer

## EREP contact person

**Name** David Henderson  
**Position** Director  
**Phone** 0438057652  
**Email** dh@drhenderson.com.au



**EREP highlights**

The actions in this EREP with a three year or better payback period are expected to deliver annual savings of \$65,000 when fully implemented. These actions represent a total financial investment of \$157,000 with an average payback period of 2.7 years.

If all actions in this EREP are implemented, including those with a payback period of more than three years, annual savings of \$65,000 could be achieved. Further information on the expected resource reductions and financial costs and savings is set out in the table further below.

	Actions with a payback period of less than three years	All actions (including actions with a payback period of more than three years) <sup>1</sup>
<b>Annual resource savings</b>		
Energy (TJ)	0.0	0.0
CO2 (T CO2-e)	0.0	0.0
Water (ML)	0.0	0.0
Solid Waste (T)	0.0	0.0
Liquid Waste (kL)	0.0	0.0
<b>Financial Assessment</b>		
Total investment	\$157,000	\$157,000
Total investment for actions with a known payback period	\$157,000	\$157,000
Expected annual savings	\$65,000	\$65,000
Average payback period (years) <sup>2</sup>	2.7	2.7

<sup>1</sup> Unless otherwise agreed with EPA, implementation of actions with a payback period of more than three years is not mandatory.

<sup>2</sup> Payback period excludes those actions without known payback periods.  
Monsbent Pty Ltd



## 1. Introduction

The EREP program is designed to help businesses realise the opportunities presented by using resources more efficiency. This regulatory program will improve the way resources are used and, importantly, save businesses money.

Commercial and industrial sites in Victoria that use more than 100 TJ of energy and/or 120 ML of water per year need to prepare an EREP that identifies actions to reduce energy and water use and waste generation. Businesses must then implement actions with a three year or better financial payback period.

Monsbent Pty Ltd is registered in the program as a mandatory participant, and therefore is required to implement those actions in the approved plan that have a three year or better payback period and report annually to EPA on progress.

After the EREP is approved, if the business would like to change the actions committed to in the plan, businesses may apply to EPA to substitute a new EREP in place of the approved EREP. For example, businesses might apply for a substitute EREP to include new actions that were not feasible at the time of submitting the EREP.

The table below records the EREP version history for Monsbent Pty Ltd.

Version	Status	Date
1	Submitted	24 Dec 2008

This EREP is version 1, Submitted to EPA on 24 Dec 2008. (generated from the online system on 6 Mar 2009).



## 2. Baseline Data

The site's overall water and energy use and waste generation data for an initial 12 month period.

**Reporting Year** Jul 2007 - Jun 2008

### Summary

Total net energy used and indicative greenhouse gas emissions	771.08 TJ	65,978.59 CO2e
Total water used on site	37.00 ML	
Total solid waste generated on site	9,450.00 T	
Total liquid waste generated on site	86.00 kL	

### Energy Profile

Consumed on Site				
Energy Source	Units	Quantity	Energy (TJ)	Indicative (tCO2-e)
Electricity - standard	kWh	36800000	132.48	44,896.00
Electricity - accredited green	kWh	0	0.00	0.00
Natural Gas	GJ	402000	402.00	20,622.60
Automotive Diesel	kL	171	6.60	459.99
Automotive Gasoline (Petrol)	L	0	0.00	0.00
Liquefied Petroleum Gas (LPG)	L	0	0.00	0.00
Compressed Air (if imported / exported to provide energy)		0		
Fuel Oil	L	0	0.00	0.00
Steam (if imported / exported to provide energy)		0		
Wood dust	GJ	230000	230.00	
<b>Sub Total:</b>			<b>771.08</b>	<b>65,978.59</b>
On-Sold - Subtracted from above				
Energy Source	Units	Quantity	Energy (TJ)	Indicative (tCO2-e)
Electricity - standard	kWh	0	0.00	
Steam (if imported / exported to provide energy)		0		
Compressed Air (if imported / exported to provide energy)		0		
<b>Sub Total:</b>			<b>0.00</b>	<b>0.00</b>
Total energy used on site				
			Energy (TJ)	Indicative (tCO2-e)
<b>Total Net Energy Used:</b>			<b>771.08</b>	<b>65,978.59</b>

**Comments:**



**Water Profile**

Profile A - Water obtained by agreement	
Water Source	Amount (ML)
Supplied by your water corporation (mains supply)	37.00
Ground water - licensed extraction	0.00
Surface water - licensed extraction	0.00
<b>Sub Total:</b>	<b>37.00</b>

  

Profile B - Other water used on site	
Water Source	Amount (ML)
Rainwater	0.00
Desalinated water	0.00
Stormwater	0.00
Recycled water	0.00
Other	0.00
<b>Sub Total:</b>	<b>0.00</b>

  

Total water used	
	Amount (ML)
<b>Total water:</b>	<b>37.00</b>

**Comments:**

Rain water is stored on site specifically for fire mitigation purposes. As this is not a regularly used item, the volume is not included.

**Waste Profile**

Solid Waste Disposal (both on and off site)	
Waste Type	Amount (T)
Total general waste (breakdown into solid inert and putrescible if data is available)	960.00
- general waste - solid inert	240.00
- general waste - putrescible	720.00
Prescribed industrial waste	0.00
<b>Sub Total:</b>	<b>960.00</b>



Liquid Waste Disposal (both on and off site)	
Waste Type	Amount (KL)
Trade waste discharged to sewer	33.00
Domestic sewage (if recorded separately from trade waste)	23.00
Licensed discharge off site	0.00
Prescribed industrial waste sent to waste treatment facility	10.00
<b>Sub Total:</b>	<b>66.00</b>

Solid Waste Reused/Recycled	
Waste Type	Amount (T)
Total recycling (breakdown into solid inert and putrescible if data is available)	8,490.00
- recycling - solid inert (e.g. paper, plastic etc)	8,490.00
- recycling - putrescible (e.g. food, greenwaste)	0.00
Prescribed industrial waste	0.00
<b>Sub Total:</b>	<b>8,490.00</b>

Liquid Waste Reused/Recycled	
Waste Type	Amount (KL)
Recycled water	0.00
Prescribed industrial waste	0.00
Other	20.00
<b>Sub Total:</b>	<b>20.00</b>

Total waste	
	Amount
<b>Total solid waste (T):</b>	<b>9,450.00</b>
<b>Total liquid waste (KL):</b>	<b>86.00</b>

Comments:



### 3. Resource efficiency Indicators

Site specific resource efficiency indicators enable a site to compare resource use against a business activity measure that is relevant to the site’s operations, such as quantity of production, number of service units or space occupied. Efficiency indicators enable site’s to track efficiency over time, even if production / service levels or occupied area fluctuates.

**Timeframe** Jul 2007 - Jun 2008  
**Indicator Name** Processed wood  
**Quantity** 209433 cubic mete

	Energy	Water	Solid waste	Liquid waste
Base Line Data	771.0806 TJ	37 ML	9450 T	86 kL
Measured in	0.0037 TJ/cubic mete	0.0002 ML/cubic mete	0.0451 T/cubic mete	0.0004 kL/cubic mete
Industry standard	3.68 TJ/cubic mete	0.2 ML/cubic mete	0.048 T/cubic mete	0.0001 kL/cubic mete

**Comments**

### 4. Major water and energy using and waste generating activities

This section presents the major energy and water using and waste generating activities at the site. It may include a site map, resource / process flow diagrams identifying where and how much energy balance spreadsheet, site map file) are part of the site’s EREP. For sites to keep complete records, after this EREP report is printed, the supporting documents should be attached to the report.

**Major resource using and waste generating activities:**

The site is manufacturing two identifiable products--timber oroducts and particleboard products.

Timber details: Production volume: 72,033 m3 Associated waste product is 8,100 tonnes pa. Water usage is 28 ML was used in the process, for the 06/07 period.

Particleboard details: Production volume; 137,400 m3. Associated waste products are;- Metal waste 42 tonnes pa; 1000 tonnes of wood waste pa; 20 tonnes liquid waste pa. Water use in the process accounted for 10 ml pa.

5 ML of water was used for personnel use and for wash down purposes.



5.

This action plan lists the efficiency actions that have been identified at your site, including projected costs and expected savings, proposed timing and responsibility for implementation

Action Ref	Activity	Action Item	Project Responsibility	Start Date	Completion Date	Project Cost	Energy Savings, \$/yr	Water Savings, \$/yr	Waste Savings, \$/yr	Other Savings, \$/yr	Total Savings, \$/yr	Payback Period, Years	GHG Reduction, tCO2-e	Energy savings, GJ	Water savings, kL	Solid waste savings, T	Liquid waste savings, kL
1	Drum Drier	fit inverter	D F Henderson	05/2009	05/2009	\$48,000	\$20,000	\$0	\$0	\$0	\$20,000	3.0	0.0	0.0	0.0	0.0	0.0
2	Jet Drier	fir inverter	D F Henderson	07/2009	07/2009	\$66,000	\$30,000	\$0	\$0	\$0	\$30,000	2.2	0.0	0.0	0.0	0.0	0.0
3	Pre Drier	fit inverter	D F Henderson	09/2009	09/2009	\$43,000	\$15,000	\$0	\$0	\$0	\$15,000	3.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL</b>						<b>\$157,000</b>	<b>\$65,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$65,000</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>



## 6. Supporting Information

The following is a list of documents that provide supporting information for your EREP. Examples of documents include site maps, resource flow diagrams, site assessment and audit reports, project feasibility reports, process or justification for prioritising actions and timeframes for implementation.

Supporting information that has been uploaded in the online system and listed below are part of the EREP. For complete records, after this EREP report is printed, the supporting documents should be attached to the report.

File Name	Description
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## 7. Monitoring Procedure

It is important to monitor the implementation of a site's EREP actions. The monitoring process should include how to measure the savings achieved, how to deal with delayed or disrupted implementation, and specify an annual reporting period.

The monitoring process may have been uploaded as a supporting document in the online system and listed below. It is part of the site's EREP, so after this EREP report is printed it should be attached to the report.

### Monitoring process:

Implementation of identified EREP opportunities will be carried as per the stated time lines, depending on the availability of funds.

Monitoring of savings made will be noted and measured by the site's electrical engineer (in the case of electrical savings)

Plant items are continually upgraded to include energy efficient motors as old motors are replaced.

New manufacturing equipment invariably is installed including inverters to conserve energy. All new plant being considered for installation is assessed for energy use before ordering.

## 8. Authorisation of EREP

This EREP version 1 was submitted to EPA for approval on 24 Dec 2008 by the following chief executive officer, managing director or authorised delegate.

C.E.O. / Managing Director / Delegate contact

**Name:** DAVID F HENDERSON  
**Position:** Director  
**Phone Number:** 0245774033  
**Email:** dh@drhenderson.com.au

Please keep a copy of the statement of compliance that was signed by the CEO / managing director or delegate and sent to EPA.