

PUBLIC REPORT 2012

Part 1 - Corporation Details

Controlling Corporation

Insert the name of the Controlling Corporation exactly as it is registered with the EEO Program.

Hyne & Son Pty Limited

Table 1.1 - Major Changes to Corporate Group Structure or Operations

Table 1.1 – Major Changes to Corporate Group Structure or Operations in the last 12 months

The extended building industry downturn experienced during the reporting period, has necessitated that Hyne rationalise a number of business activities and reduce operating capacity at some manufacturing sites. These operational changes were implemented to ensure the sustainability of the business into the foreseeable future.

The most significant operational changes can be summarised as;

(a) The closure of Truebeams Virginia manufacturing operation (b) The closure of the executive offices Brisbane (c) Relocation of Superior Wood Mouldings operations from the Virginia site to the Imbil sawmill site (d) A reduction in operating hours (from two shifts to one) at both the Imbil sawmill & Melawondi remanufacturing plant. (e) Closure of the Division of Technical Services, (f) the closure of several wholesale branches.

Given the relatively minor energy intensity of the divested operations, a negligible movement in energy consumption has been experienced.

Declaration

Declaration of accuracy and compliance

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*.


Mr Jonathan Kleinschmidt
CEO Hyne & Son Pty Limited

Date 21 December 2012

Part 2 - Assessment Outcomes

Table 2.1A – Assessment Details

It is compulsory to complete a separate table for each entity* that has been assessed

Name of entity	Structural Softwood Division Qld. Trueframe TUAN
-----------------------	---

Total energy use in the last financial year (2011 / 2012)

718,231	GJ
----------------	----

Total percentage of energy use assessed

100	%
-----	---

Description of the way in which the entity carried out its assessment

Hyne & Son Pty Limited (“Hyne”) is a participant in the Australian Government’s Energy Efficiency Opportunities program.

During the reporting period 1 July 2006 to 30 June 2011, Hyne has undertaken assessments at its Tuan and Tumbarumba sites. These two sites accounted for 89% of Hyne’s energy usage in the period July 2011 to June 2012. No new assessments are required under the first assessment cycle and the assessment and reporting schedule. Hyne has plans to conduct further energy assessments at these and other sites in the future so as to further identify, evaluate and harness energy efficiency savings.

The assessment of ideas and opportunities identified as part of the site assessments has progressed enabling the implementation of a range of opportunities that have provided improvements in energy efficiency.

* Entity is group member, business unit, or key activity. Please note that, for individual sites that use more than 0.5PJ of energy, all energy use must be assessed (less a small proportion for non integral energy use).

Part 2 - Assessment Outcomes

Table 2.1B – Assessment Details

It is compulsory to complete a separate table for each entity* that has been assessed

Name of entity	Structural Softwood Division NSW. Trueframe TUMBARUMBA
-----------------------	---

Total energy use in the last financial year (2011 / 2012)

1,219,657

GJ

Total percentage of energy use assessed

100

%

Description of the way in which the entity carried out its assessment

Hyne & Son Pty Limited (“Hyne”) is a participant in the Australian Government’s Energy Efficiency Opportunities program.

During the reporting period 1 July 2006 to 30 June 2011, Hyne has undertaken assessments at its Tuan and Tumberumba sites. These two sites accounted for 89% of Hyne’s energy usage in the period July 2011 to June 2012. No new assessments are required under the first assessment cycle and the assessment and reporting schedule. Hyne has plans to conduct further energy assessments at these and other sites in the future so as to further identify, evaluate and harness energy efficiency savings.

The assessment of ideas and opportunities identified as part of the site assessments has progressed enabling the implementation of a range of opportunities that have provided improvements in energy efficiency.

* Entity is group member, business unit, or key activity. Please note that, for individual sites that use more than 0.5PJ of energy, all energy use must be assessed (less a small proportion for non integral energy use).

Table 2.2A - Energy efficiency opportunities identified in the assessment

Group Member: Structural Softwood Division Qld. Trueframe TUAN

Table 2.2 – Energy efficiency opportunities identified in the assessment									
Status of opportunities identified to an accuracy of better than or equal to $\pm 30\%$		Total Number of opportunities	Estimated energy savings per annum by payback period (GJ)						Total estimated energy savings per annum (GJ)
			0 – < 2 years		2 – \leq 4 years		> 4 years		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented	5	2	1,703	1	45	2	53,884	55,632
	Implementation Commenced								
	To be Implemented								
	Under Investigation								
	Not to be Implemented								
Outcomes of assessment	Total Identified	5	2	1,703	1	45	2	53,884	55,632
Status of opportunities identified to an accuracy of worse than $\pm 30\%$									
Business Response	Implemented	4	1	17,000	1	1,760	2	149	18,909
	Implementation Commenced	1					1	0	0
	To be Implemented	2					2	0	0
	Under Investigation	1			1	1,760			1,760
	Not to be Implemented								
Outcomes of assessment	Total Identified	8	1	17,000	2	3,520	5	149	20,669

Please note that Corporate Groups **are not required** to report opportunities with a payback greater than 4 years. Reporting this data is voluntary.

Table 2.2B - Energy efficiency opportunities identified in the assessment

Group Member: Structural Softwood Division NSW. Trueframe TUMBARUMBA

Table 2.2 – Energy efficiency opportunities identified in the assessment									
Status of opportunities identified to an accuracy of better than or equal to ±30%		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		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented	4	2	18,482	1	0	1	36,335	54,817
	Implementation Commenced	1	1	1,370					1,370
	To be Implemented								
	Under Investigation								
	Not to be Implemented								
Outcomes of assessment	Total Identified	5	3	19,852	1	0	1	36,335	56,187
Status of opportunities identified to an accuracy of worse than ±30%									
Business Response	Implemented	7	2	216	1	538	4	10,692	11,446
	Implementation Commenced	1					1	544	544
	To be Implemented								
	Under Investigation								
	Not to be Implemented								
Outcomes of assessment	Total Identified	8	2	216	1	538	5	11,236	11,990

Table 2.3 - Details of significant opportunities identified in the assessment

Corporate Groups are required to provide at least 3 examples of significant opportunities for improving the energy efficiency of the group that have been identified in assessments.

Opportunity:- Utilisation of Kiln Residual Heat Status:- Implemented at Tuan & Tumberumba	Voluntary Information	
<p>Kilns and reconditioners are utilised to dry and condition the green sawn material produced at the Tuan and Tumberumba sites. Kiln drying involves the accelerated evaporation of the water from the green sawn material under controlled conditions until the moisture content reaches a desired level. To accelerate the drying process and evaporate the water in the kiln, hot air is circulated within the kiln. This air is heated by a thermal heat transfer medium which is hot oil. The reconditioner is utilised following the kiln drying process to equalize and condition the dry sawn material. As per the kiln, the reconditioner also utilises thermal energy. This energy is utilised to produce the equalizing/conditioning high humidity environment. As the kiln drying process is aided by a low humidity environment, conventionally the moisture is ejected to atmosphere from the kiln as part of the drying process (just like a clothes dryer). This moisture laden air has low grade residual energy content. Heat recovery systems are sometimes utilised in kilns for air pre-heating for low temperature drying operations but have not conventionally proven viable for ultra high temperature drying operations. Hyne investigated different ideas to improve kiln and reconditioning energy efficiency and identified an opportunity to harness and utilise the residual energy content from the moisture laden air ejected from the kiln. Through research and development trials, Hyne was able to transform this idea into an opportunity through developing a system to effectively harness this residual energy content as part of the reconditioning process. The system involves harvesting the residual heat energy and moisture from the kiln and injecting the heat energy and moisture into the reconditioner during the reconditioning process.</p>	<p>Biomass energy saved (GJ)</p>	<p>This opportunity was duplicated and implemented at two sites.</p> <p>Estimated total savings per annum of 90,219 GJ of biomass</p> <p>Accuracy better than or equal to 30%</p>



Opportunity:- Process Area Lighting Upgrade Status:- Implemented at Tuan	Voluntary Information	
<p>This opportunity involved upgrading the lighting in a processing building at the Tuan site to a more energy efficient lighting system. The upgrade entailed changing out the existing 400W highbay mercury vapour lights to a more energy efficient 215W compact fluorescent lamp technology. The new lighting system achieved the same lighting level but at a significantly higher efficiency.</p>	<p>Electrical energy saved (GJ)</p>	<p>Estimated 309 GJ / annum</p> <p>Accuracy better than or equal to 30%</p>

Opportunity:- Process Machine Control, Debarker modification Status:- Implementation commenced at Tumberumba	Voluntary Information	
<p>Debarkers are utilised to remove the bark from logs prior to breakdown of the log in the Green Mill. Logs are singulated and fed linearly into the debarker and the debarker has infeed rolls to guide and feed the log into the rotor. The ring, or rotor, rotates around the log as it is fed through the debarker. There are tool arms on the ring that are pressurized and this pressure squeezes the tool tips against the bark and pulls the bark away at the cambium layer. The debarker used at the Tumberumba site also has a reducing ring that can reduce the diameter of the log or remove butt flare so that the log can be safely processed by downstream milling equipment. As part of the site assessment, an opportunity was identified where it might be possible to modify the debarker machine control to actuate the reducing ring to only operate where the log shape or size requires it. An evaluation of the log mix was undertaken by the site EEO team using the 3D scanning system on the infeed to the debarker and this evaluation confirmed that only a proportion of the logs required the reducer ring. A business case was developed and the opportunity implemented. The debarker machine software control was subsequently modified so that the reducer ring is actuated on demand enabling the 250 kW motor to be shut down when not required.</p>	<p>Electrical energy saved (GJ)</p>	<p>Estimated 1,370 GJ / annum</p> <p>Accuracy better than or equal to 30%</p>

Please note that the "Description of the Opportunity" above should include information on the specific nature and type of opportunity as well as information on the type of equipment and/or process involved.



Part 3 – Transition to Second Cycle

This table should only be completed by 2005-06 trigger-year corporations transitioning to the second cycle.

In December 2011 many corporations reported energy efficiency opportunities that were still under investigation as at 30 June 2011. This report should advise what your business response to these opportunities has been – implemented or not to be implemented. If you intend to further investigate these opportunities, they should be reported in the future Public Reports as opportunities identified in the second cycle.

Status of opportunities identified to an accuracy of better than or equal to $\pm 30\%$		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		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
As reported in December 2011	Under Investigation	1			1	1,760			1,760
Business Response as at 30 June 2012	Implemented								
	Not to be Implemented								
	To be evaluated/reported in the second cycle	1			1	1,760			1,760