

PUBLIC REPORT TEMPLATE 2013

Part 1 - Corporation Details

Controlling Corporation

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

Hanson Australia (Holdings) Pty Ltd (Hanson)

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

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.

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Part 2 - Assessment Outcomes

Table 2.1 – Assessment Details

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

Name of entity

Wolffdene Quarry

Total energy use in the last financial year Total percentage of energy use assessed

60,119 GJ 100 %

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

review with the following agenda. attention is given to process improvement and energy savings. Follow a pre review data review times and dates are set for the full week plant is developed and allows to identify process inefficiencies in utilisation and process co-efficient. Where these figures are low, is where Aggregates) review process, a full five day audit was carried out at Wolffdene Quarry. All aspects of Quarry operations are considered Using our internal "CLIMB" (Continuous Improvement, Leadership Development, Innovative Operations, Margin Optimization, Best In Class including, crushing, screening, conveyors, transfer points, dust control, heavy machinery, and haul road design. A full flow chart of the

Day 1 - Site Introduction, discuss objectives and scope, discussion of pre-visit data (kpi's and P&L) and overview of the weeks activities.

opportunities and define deep dive analyses for the remainder of the week. Day 2 - Conduct site walkaround and drive around, observe every process step, identify best practices, document observations, Prioritize

and milestones. Day 3 - Review opportunities, conduct "deep dive analysis" maintenance, yellow machines, process coefficient, energy efficiency Day 4 – Describe improvement ideas, provide estimate of financial impact and calculation logic, describe risks, define implementation steps

everyone on key implementation steps, timing and scope of follow up work. Day 5 - Agree on overall measures, Site manager and continuous improvement team present to area and operations managers, align

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

Table 2.2 - Energy efficiency opportunities identified in the assessment

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

			Estima	ited energy s	savings per	annum by p	Estimated energy savings per annum by payback period (GJ)	d (GJ)	Total estimated energy
Status of opportunit	Status of opportunities identified to an accuracy	Total	0 – 2 years	years	2 – 4 years	years	> 4 years	ears	savings per annum (GJ)
of better than or equal to ±30%	ual to ±30%	Number of opportunities	No of Opps	ତ	No of Opps	ତ୍ର	No of Opps	ව	
Business	Implemented	6	5	1267				32	1299
Response	Implementation Commenced								
	To be Implemented								
	Under Investigation	3					3	605	509
	Not to be Implemented	1						5	හ
Outcomes of assessment	Total Identified	10	5	1267	0	0	4	546	1813

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

Table 2.3 - 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.

Description of Opportunity No 1	Voluntary Information	
Manganese is the cone shaped section of "cone" crushers. This cone	Equipment Type	Crusher parts
wears as it's life extends and the more stone it crushes. It is common	Business Response	Completed
that the manganese wears unevenly and allows oversize stone to	Energy saved (GJ)	216
to work overtime to keen in with the through put of stone. By	Greenhouse gas abated (CO2-e)	54
regularly monitoring manganese size and shape and having modular	\$s saved	12,600
sections to the fittings on the maganese, the cone can be quickly	Payback period	1 year
changed out for a replacement while the original can be reshaped in the workshop. This has many flow on effects by providing consistent		
size and shape to the screens, less blockages, less unplanned		
shutdowns. This project is one of our best in terms of payback and		
energy savings. With a payback of less than a year and 60,000 KWH		
saved per annum, this project has been quickly implemented.		

	and material build up.	and widening of some transfer noints we can eliminate vibrator use	identified where chutes can be modified to reduce the need for	screens transfer material to another section of the plant have been	Multiple locations around the plant where conveyors, crushers and	Description of Opportunity No 2
Payback period	\$s saved	Greenhouse gas abated (CO2-e)	Energy saved (GJ)	Business Response	Equipment Type	Voluntary Information
1 year	9,450	41	162	Complete	Crushing equipment	

of \$1/HK was calculated as the fuel burn while the machine is idle,	during the day for up to 1 hour in total. For Dump trucks an average	It was estimated that many "yellow" machines are unecessarily idling Equipment Type	Description of Opportunity No 3
Energy saved (GJ)	Business Response	Equipment Type	Voluntary Information
652	Complete and Ongoing	Heavy Machinery	

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	machines on while not in use.	showing and explaing to machine operators the impact of leaving	and for Front End Loaders 4.2L/HR. This was a simple process of
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	Payback period	saved	eenhouse gas
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	back period	saved	eenhouse gas abated (C
	back period	saved	Greenhouse gas abated (CO2-e)
	back period	saved	eenhouse gas abated (CO2-e)
	_	saved 14,7	eenhouse gas abated (CO2-e) 45
	back period 1 year	saved 14,118	eenhouse gas abated (CO2-e) 45
	_	saved 14,118	eenhouse gas abated (CO2-e) 45
	_	saved 14,118	eenhouse gas abated (CO2-e) 45
	_	saved 14,118	eenhouse gas abated (CO2-e) 45
	_	saved 14,118	eenhouse gas abated (CO2-e) 45
	_	saved 14,118	eenhouse gas abated (CO2-e) 45

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.



Energy Efficiency Opportunities

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.

			Estim	ated energy:	savings per ann	um by pay	Estimated energy savings per annum by payback period (GJ)	Total estimated energy
Status of opportuniti	Status of opportunities identified to an accuracy	Total	0 – 2 years	years	2 – 4 years	S	> 4 years	savings per annum (GJ)
of better than or equal to ±30%	al to ±30%	opportunities	No of Opps	cJ	No of Opps	ପ	No of Opps GJ	
As reported in December 2011	Under Investigation	11	11	965		1.11.1112.1		965
Business Response	Implemented				:			
as at so salie 2012	Not to be Implemented	14	11	965				965
	To be evaluated/reported in the second cycle							