Australian Government
Department of Industry

Energy Efficiency Opportunities

PUBLIC REPORT 2013

Part 1 - Corporation details

Controlling corporation

Insert the name of the controlling corporation exactly as it is registered with the EEO Program.

Washington H. Soul Pattinson

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
In 2012 New Hope Corporation Limited acquired Bridgeport Energy Limited. Three additional facilities fall under Bridgeport Energy Limited – a head office in Sydney and two production leases. Bridgeport Energy Utopia Oil consumed ~11,000GJ in FY13 and Bridgeport Energy Inland-Oil consumed ~30,000GJ over the same period. The head office consumed <100GJ. These quantities will not impact on the EEO assessments. New Hope Coal has confirmed the New Oakleigh mine ceased mining operations in January 2013, as a result of the exhaustion of reserves. This will result in a general reduction in energy use, and thus the mine is not planned to be assessed under the program. Production at New Acland coal mine has increased by 9% in the last financial year.

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.	 Ian Bloodworth Company Secretary Washington H. Soul Pattinson and Company Limited Date: 12 February 2014

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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	New Acland Mine

Total energy use in the last financial year	1,163,672	GJ
Total percentage of energy use assessed when assessments were undertaken	100	%

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

The approach for identifying opportunities is the same as the approach used during Cycle 1. A workshop was conducted at New Acland Mine to identify opportunities. The workshop considered energy use information, along with analysis of key influencing variables. Example opportunities presented at the workshop came from external and internal opportunities from within New Hope Group and from external sources. A brainstorming activity was conducted at the conclusion of the presentation to identify ideas, and classify them for business decisions.

An external specialist consultancy was engaged to assist with the collection and evaluation of baseline energy at the New Acland mine. New Hope Group will continue to review the list of identified opportunities and has made business decisions on those opportunities identified.

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

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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

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								
	Implementation commenced	1	1	1,042					1,042
	To be implemented	1	1	19,300					19,300
	Under investigation	4	1	25,090	1	720	2	33,003	58,813
	Not to be implemented								
Outcomes of assessment	Total identified	6	3	45,432	1	720	2	33,003	79,155

Please note that corporate groups **<u>are not required</u>** to report opportunities with a payback greater than four 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 three examples of significant opportunities for improving the energy efficiency of the group that have been identified in assessments.

Continuous Miner Opportunity	**Voluntary Information**	
Status: Under Investigation Introduction of a surface miner into coal production may perform the task of several key machines. The current process involves a dozer performing the tasks of ripping and stacking and loader loading the coal from the heaped pile to an Off-Highway Truck (OHT) for transport to the ROM. A surface miner has the potential to remove the dozer and loader functions from the process, cutting and loading into the OHT as it goes. This presents the opportunity for instantaneous efficiencies in fuel consumption. Additional opportunities may exist in productivity and quality gains, however, this is yet to be proven in the application of coal mining.	Equipment type	V/N-A
	Business response	V/N-A
	Energy saved (GJ)	V/N-A
	Greenhouse gas abated (CO2-e)	V/N-A
	$ saved	V/N-A
	Payback period	V/N-A

Replacement of 100T Dozers with 65T Dozers	**Voluntary Information**	
Status: Under Investigation Investigation is currently underway to identify opportunities in 'downsizing' the NAC tractor fleet where practical to do so. The change in tractor size has the potential to reduce fuel consumption by approx 25%. This process is constrained by application, however, where practical to do so, NAC is committed to investigating opportunities.	Equipment type	V/N-A
	Business response	V/N-A
	Energy saved (GJ)	V/N-A
	Greenhouse gas abated (CO2-e)	V/N-A
	$ saved	V/N-A
	Payback period	V/N-A

Introduction of 'Clean Fuel' additive to site bulk diesel supply	**Voluntary Information**	
Status: To be implemented A clean fuel additive to site diesel fuels has the potential to deliver benefits in fuel consumption across the heavy equipment fleet. Calculations for potential savings have been undertaken at 2%, however, potential exists for efficiencies to be greater than that predicted based on some studies conducted by the supplier. Exact efficiencies will be based on conditions and application.	Equipment type	V/N-A
	Business response	V/N-A
	Energy saved (GJ)	V/N-A
	Greenhouse gas abated (CO2-e)	V/N-A
	$ saved	V/N-A
	Payback period	V/N-A

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.