



New Hope Corporation EEO PUBLIC REPORT 2010

Controlling Corporation

New Hope Corporation Ltd

Period to which this report relates

Start 1 July 2006

End 30 June 2010

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

For the 2009-2010 assessment period, New Hope Corporation engaged a specialist external consultancy to assist with energy assessments at three subsidiary businesses. Following a review of activities undertaken for previous assessment periods it was decided to engage the external expertise to maximise the outcomes and improve the rigour of the energy assessment processes. As a result of the internal progress review it was also decided to repeat assessments carried out in previous periods as well as assess new elements of the business group.

Assessments were conducted of the following Group members: New Acland Coal Mine, Jeebropilly Coal Mine and QBH coal export terminal. These assessments examined both diesel and electricity use at each site as opposed to assessments conducted in previous years which examined diesel and electricity use as separate assessments as approved under the original Assessment and Reporting Schedule. As a result of these assessments New Hope Corporation has now assessed over 90% of the Group's energy use.

Production rates at the New Acland Mine increased from 4.2MTPA to 4.8MTPA in late 2009. While the initial assessment at New Acland identified a significant energy efficiency opportunity in relation to increasing tray size on haul trucks (as reported previously) it was decided to repeat the energy assessment at this site to look for additional opportunities in light of the increased production rates. A number of less substantial but still worthwhile opportunities have been identified with some implemented immediately and others requiring additional investigation.

New Hope Corporation is committed to integrating activities conducted under the Energy Efficiency Opportunities program with those of its internal business improvement programs. This will be one of the focus points of the coming year's EEO activities.



Part 1 – Information on assessments completed to date (continued)

Table 1.2 – Energy use assessed		
Group member and/or business unit and/or key activity and/or site (or part thereof) that has had an assessment completed by 30 June 2010 (Include all assessments completed to date for the current 5 year cycle).	Period over which assessment was undertaken¹	Energy use for the period 1.7.2009 to 30 June 2010 of the assessed entity (or part thereof) expressed in GJ²
New Acland Coal Mine - Diesel Use	July 2007 to June 2008	1,159,756*
New Acland Coal Mine	July 2009 to June 2010	1,296,209
Jeebropilly Coal Mine	July 2009 to June 2010	482,939
QBH Coal Export Terminal	July 2009 to June 2010	55,130
Total energy use of assessed entities (or part thereof)		1,834,278
		<small>*Note: NAC diesel use from 0708 assessment not included in total as it is counted under New Acland Coal mine 2009-10 total</small>
Total energy use of the whole corporate group in the period 1.7.2009 to 30 June 2010		1,956,968
Total energy use of assessed entities (or part thereof) for the period 1.7.2009 to 30.6.2010 expressed as a percentage of total energy use for the period 1.7.2009 to 30.6.2010		93.7%

Table 1.3 – Accuracy of energy use assessed data		
Entity	% achieved	Reasons for not achieving data accuracy to within ±5%
New Acland Coal Mine	±5%	
Jeebropilly Coal Mine	±5%	
QBH Coal Export Terminal	±5%	



Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

Part 2A - New assessments completed or not reported since the last Public Report

Name of Group member or business unit or key activity or site: **NEW ACLAND COAL MINE**

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

1,296,209	GJ
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Table 2.1A – Opportunities assessed to an accuracy of better than or equal to (\leq) $\pm 30\%$

Status of opportunities identified		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	Under Investigation	7	4	400	2	770	1	20	1190
	To be Implemented	1					1	1200	1200
	Implementation Commenced								
	Implemented								
	Not to be Implemented								
Outcomes of assessment	Total Identified	8	4	400	2	770	2	1220	2390



Name of Group member or business unit or key activity or site: **JEEBROPILLY COAL MINE**

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

482,939	GJ
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Table 2.1B – Opportunities assessed to an accuracy of better than or equal to (<=) ±30%

Status of opportunities identified		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	Under Investigation	1	1	20					20
	To be Implemented	2			2	330			330
	Implementation Commenced								
	Implemented								
	Not to be Implemented								
Outcomes of assessment	Total Identified	3	1	20	2	330			350



Name of Group member or business unit or key activity or site: **QBH COAL EXPORT TERMINAL**

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

55,130	GJ
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Table 2.1C – Opportunities assessed to an accuracy of better than or equal to (<=) ±30%

Status of opportunities identified		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	Under Investigation								
	To be Implemented	2			1	110	1	9	119
	Implementation Commenced								
	Implemented								
	Not to be Implemented								
Outcomes of assessment	Total Identified	2			1	110	1	9	119



Part 2A - New assessments completed during the reporting period (continued)

Name of Group member or business unit or key activity or site: **NEW ACLAND COAL MINE**

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

1,296,209	GJ
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Table 2.2A – Opportunities assessed to an accuracy of worse than (>) ±30%

Status of opportunities identified		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	Under Investigation	4	1	120	3	1780			1900
	To be Implemented								
	Implementation Commenced								
	Implemented								
	Not to be Implemented								
Outcomes of assessment	Total Identified	4	1	120	3	1780			1900



Name of Group member or business unit or key activity or site: **JEEBROPILLY COAL MINE**

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

482,939	GJ
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Table 2.2B – Opportunities assessed to an accuracy of worse than (>) ±30%

Status of opportunities identified		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	Under Investigation	1			1	170			170
	To be Implemented	2	1	140	1	70			210
	Implementation Commenced								
	Implemented	3	3	TBC					-
	Not to be Implemented								
Outcomes of assessment	Total Identified	6	4	140	2	240			380



Name of Group member or business unit or key activity or site: **QBH COAL EXPORT TERMINAL**

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

55,130	GJ
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Table 2.2C – Opportunities assessed to an accuracy of worse than (>) ±30%

Status of opportunities identified		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	Under Investigation	4	4	TBC					-
	To be Implemented								
	Implementation Commenced	1	1	TBC					
	Implemented								
	Not to be Implemented								
Outcomes of assessment	Total Identified	5	5	-					-



Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

Part 2B - Update of assessments reported in previous Public Reports

Name of Group member or business unit or key activity or site: **DIESEL USE AT NEW ACLAND COAL MINE**

Total energy use for the period 1.7.2009 to 30.6.2010 of the assessed entity (or part thereof) from which the opportunities identified below were generated (and is reported in Table 1.2).

1,159,756	GJ
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Table 2.3 – Opportunities assessed to an accuracy of better than or equal to (<=) ±30%

Status of opportunities identified		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	Under Investigation	2	2	TBC					-
	To be Implemented								
	Implementation Commenced								
	Implemented	15	5	93,500	10	TBC			93,500
	Not to be Implemented	9					9	-	-
Outcomes of assessment	Total Identified	26	7	93,500	10	-	9	-	93,500



Part 2C - Details of at least three significant opportunities found through EEO assessments

Table 2.5 – Description of 3 significant opportunities

Opportunity 1 – Equipment shutdown during crib breaks

A procedure was implemented at New Acland coal mine for operators to shut down diesel mining equipment during crib breaks. This simple measure was estimated to result in energy savings of up to 52 TJ in energy (diesel) per annum with an immediate payback.

Opportunity 2 – Optimise use of compressed air

An opportunity was identified within the Jeebropilly mine heavy vehicle workshop. The opportunity involves optimising the use of compressed air within the workshop by:

- Conducting regular air leakage tests (targeting no more than a 5% leakage) and addressing any identified leaks; and
- Reducing the compressor pressure set point by 2 bar.

Energy savings from the implementation of this opportunity are estimated to be 140 GJ with a simple payback period of 1.8 years.

Opportunity 3 – Energy efficient high bay lamp replacement

This opportunity was identified for the QBH Coal Export Terminal, heavy vehicle workshop. The lighting requirements of the workshop are currently met by 400W mercury vapour lamps. The lamps are replaced approximately every two years as the life of mercury vapour lamps is around 15,000 hours.

The opportunity is to replace the 400W metal halide lamps with more energy efficient fittings with equivalent illumination levels such as 100W LED high bay lamps. The life of LED lamps is the order of 50,000 hours. Incorporated into the lighting changes, would be the installation of PE sensors to automatically shut down exterior lamps during daylight hours.

Energy savings from the implementation of this opportunity are estimated to be 110 GJ with a simple payback period of 3.8 years.



Part 3 - Voluntary Contextual Information

Nil to report

Part 4 - Declaration

Table 4.1 - Declaration of accuracy and compliance (mandatory information)

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*.

Rob Neale
Managing Director and Chief Executive Officer

Date: 23/12/2010