

PUBLIC REPORT TEMPLATE 2012

Part 1 - Corporation Details

Controlling Corporation

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

BM Alliance Coal Operations 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

- Closure of Norwich Park Mine – May 2012
- Closure of Gregory open cut mine – Oct 2012

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*.

Stephen Dumble
Asset President, BMA

Insert Name and Title of Signatory here

(Chair of the Board, CEO, or Managing Director)

Date

14/12/12

Part 2 - Assessment Outcomes

Table 2.1 – Assessment Details

Name of entity	1. Goonyella Broadmeadow Mine			
	2. Blackwater Mine			
	3. Peak Downs Mine			
Total energy use in the last financial year	1. Goonyella Broadmeadow Mine	5,698,973	GJ	
	2. Blackwater Mine	4,4647.86	GJ	
	3. Peak Downs Mine	4,050,163	GJ	
Total percentage of energy use assessed when assessments were undertaken	1. Goonyella Broadmeadow Mine	93	%	
	2. Blackwater Mine	95	%	
	3. Peak Downs Mine	95	%	

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

The assessment approach has two main stages:

1. BMA Group

- Business-wide assessment of GHG abatement activities, including projects to reduce energy intensity (GJ per tonne of coal produced).
- Opportunity identification workshops by key activity (open cut mining, underground mining, coal processing & port handling).
- Cross-functional think-tank formed to oversee project evaluation according to key criteria set by senior management.
- Study findings and short-list of projects recommended to senior management.
- BMA GHG abatement target adopted, based on agreed projects, and measurement & verification plan developed.

2. Site assessments

- Site-specific EEO workshops to drill down further than the asset-wide identification process
 - Front-loaded by asset-level assessment.
 - Guided also by analysis of the site's energy use by (i) key sub-activity (eg, overburden stripping, coal mining, coal handling & processing), and (ii) equipment type (eg, draglines, excavators, dump trucks, dozers, loaders, coal handling & processing plant).
 - Opportunities ranked by selection criteria set by senior management and short-listed for evaluation.
- Business evaluation of identified opportunities.
- Review/confirmation of results by senior management steering committee.

Department of Resources, Energy and Tourism

Opportunities

Gooniyella Riverside Mine									
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	1	1	82,110				82,110	
	Implementation Commenced	1	1	62,330				62,330	
	To be Implemented								
	Under Investigation	4	2	78,830	2	152,090		230,920	
Not to be Implemented									
Outcomes of assessment		Total Identified	6	4	223,270	2	152,090	375,360	
Blackwater Mine									
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	2	2	157,960				157,960	
	Implementation Commenced								
	To be Implemented								
	Under Investigation	3	2	44,460			1	74,240	118,880
Not to be Implemented									
Outcomes of assessment		Total Identified	5	4	202,600		1	74,240	
Peak Downs Mine									
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	21,450				21,450	
	To be Implemented								
	Under Investigation	2	1	24,120	1	45,810		69,930	
Not to be Implemented									
Outcomes of assessment		Total Identified	3	2	45,570	1	45,810	91,380	

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	
	Equipment Type	Coal processing
Upgrade of the Goonyella coal preparation plant's teeter bed separator, which will improve the yield of the plant, thereby reducing the amount of overburden removal and coal mining, and hence equipment hours and fuel consumption, required to achieve planned production.	Business Response	Implementation commenced
	Energy saved (GJ)	62,330
	Greenhouse gas abated (tCO ₂ -e)	7,060 ⁽¹⁾
	\$s saved	3,666,300
	Payback period	1 yr
Description of Opportunity No 2	Voluntary Information	
	Equipment Type	Coal processing
Improvement of the flotation yield of the Blackwater Mine's coal preparation plant through installation of Microcel launders and air compressors. This will increase plant yield, and reduce overburden removal, coal mining, and fuel use per tonne of final coal produced.	Business Response	Implementation commenced
	Energy saved (GJ)	156,220
	Greenhouse gas abated (CO ₂ -e)	17,700 ⁽¹⁾
	\$s saved	6,407,350
	Payback period	1 yr
Description of Opportunity No 3	Voluntary Information	
	Equipment Type	Energy use monitoring
Development of a real time power use feedback system for dragline operators to enable the immediate identification, quantification and correction of energy-inefficient operating practices (eg. drag-inhibited hoisting, bucket overloading). The system has been trialled and is in the process of being rolled out across the Peak Downs Mine's dragline fleet.	Business Response	Implementation commenced
	Energy saved (GJ)	21,450
	Greenhouse gas abated (CO ₂ -e)	5,120
	\$s saved	264,940
	Payback period	1 yr

(1) Includes fugitive emissions avoided by reduction in raw coal extraction.