



PUBLIC REPORT TEMPLATE 2011

Please note that this template has been updated based on feedback from a number of Corporations during the recent review of regulations. It is not compulsory for you to use this Public Report template. You may wish to continue to use the previous template, or you may report in another format of your choice. Either is acceptable provided you report all the information required by the EEO Act and Regulations.

There is an explanatory document at pages 5-14 of this template that fully explains how to complete it. There is also some targeted guidance on the template itself.

Part 1 - Corporation Details

Controlling Corporation

Period to which this report relates

Insert the name of the Controlling Corporation exactly as it is registered with the EEO Program. The period to which the report relates is the total period of participation up to 30 June prior to when the report is due.

Peabody Energy Australia Pty Ltd (PEA)

From

1 July 2006

To

30 June 2011

Table 1.1 - Major Changes to Corporate Group Structure or Operations

Table 1.1 – Major Changes to Corporate Group Structure or Operations

North Goonyella/Eaglefield: These mines were formerly held by Peabody Energy Australia Coal Pty Ltd (60%) and Mitterb Pty Ltd (40%), both subsidiaries of the Controlling Corporation, but were transferred to Peabody (Bowen) Pty Ltd as part of an internal restructure undertaken by the Controlling Corporation at the end of 2009.

Preparation for the 2011 assessment at North Goonyella commenced in Q3 2009. Key site personnel were individually briefed, the site energy champion was nominated and energy metering opportunities were identified. A scoping study was then undertaken in early 2010 to scope the best electrical metering hardware solution for the mine. Capital for the metering was approved in 2010 and a supplier was selected. Installation of the metering is currently underway, occurring during planned shutdowns

Due to the non-accessibility of the mine and the development of the new entry at North Goonyella in August 2011, the decision was made by PEA to seek an extension from DRET in order to complete the EEO assessment for North Goonyella and Eaglefield mines over an extended timeframe. This was to allow sufficient time and resources to be dedicated to assess EEO as required under the EEO Act.



Table 1.2 – Aggregate energy assessed covered in this report

Total energy use covered by all assessments in this report	4,404,077**	GJ
Total energy assessed as percentage of total energy use of the corporate group**	73**	%

**Excludes North Goonyella Mine and Eaglefield Mine due to extension approved by the Government

* If this report covers only part of the corporate group, than the percentage should be computed on the total energy use for that part of the group covered in this report

Please note that corporations are required to assess 80% or more of their energy use in the first five-year assessment cycle and 90% or more in subsequent five-year assessment cycles. Accordingly, for those corporations with a 2005-06 trigger year (i.e. those corporations at the end of their first-five year assessment cycle), the value in "Percentage of corporation's energy use assessed" above, must be more than 80%

Declaration

Declaration of accuracy and compliance	
<p>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 <i>Energy Efficiency Opportunities Act 2006</i> and <i>Energy Efficiency Opportunities Regulations 2006</i>.</p>	
	Director, Peabody Energy Australia Pty Ltd
	<p><i>CONNIE DE SANTANA</i> Date <i>6/1/12</i></p>



Part 2a - Assessment Outcomes

Table 2.1 – Assessment Details

It is compulsory to complete a separate table for each group member, business unit, or key activity that has been assessed

Name of group member or business unit or key activity

Peabody (Wilkie Creek) Pty Ltd

Total energy use in the last financial year

716,020

GJ

Energy use assessed in this entity as a percentage of total entity energy use*

100

%

Energy use assessed in this entity as a percentage of total corporate energy use

16.26

%

Accuracy of above estimates related to energy use assessed - only required if not $\pm 5\%$ or better

%

Period over which assessment was undertaken

1/7/2009

31/10/2010

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

Peabody (Wilkie Creek) Pty Ltd (Wilkie Creek Mine) commenced preparation for their EEO Assessment in 2009 with a site Kick-off meeting, which reviewed resourcing and data capture. In 2010, PEA engaged an independent consultant to assist with the completion of an onsite EEO Assessment and EEO Assessment Report. The EEO Assessment undertaken consisted of three key steps:

1. Analysis of energy consumption for 2007/08 FY, 2008/09 FY and 2009/10;
2. Identification of energy efficiency opportunities; and
3. Detailed investigation of identified energy efficiency opportunities.

An EEO Diagnostic was also undertaken to assess Wilkie Creek against the six key elements of the EEO Assessment Framework and identify key areas for improvement.

The Wilkie Creek Mine is owner-operated, and uses diesel and electricity in mining operations. Therefore, the analysis of energy consumption included the collection and analysis of electricity and diesel information, which represented greater than 99% of energy use on site. The analysis included:

- Total annual energy consumption;
- Total annual energy costs;
- Total annual mine production;
- Monthly energy consumption, energy cost and mine production for 2007/08, 2008/09 and 2009/10;
- Estimation of energy consumption breakdown;



- Calculation of greenhouse gas (GHG) emissions from energy consumption; and
- Calculation of key performance indicators (KPIs) for energy consumption.

A three day site visit was conducted by the independent consultant in June 2010 to undertake the identification of energy efficiency opportunities and conduct the EEO Diagnostic. During the first day onsite, a workshop was held with key operational and management staff from Wilkie Creek.

Key activities during the workshop included:

- A brief presentation to introduce EEO and outline the assessment process;
- Discussions on current energy management issues and any initiatives previously undertaken;
- An EEO Diagnostic of the six key elements of the EEO Assessment Framework; and
- An EEO project brainstorm session.

Following the site visit and EEO Diagnostic, evaluation and detailed investigations of identified opportunities was conducted by the independent consultant in collaboration with the site energy team, including:

- Description of opportunities;
- Opportunity classification (by area, category & type);
- Energy and cost data collection for technical projects;
- Financial analysis for technical projects (four year simple payback);
- Carbon analysis for technical projects; and
- Development of action plans (management, technical & future).

Actions that have occurred to become more energy efficient include:

- Diesel Fuel Management Project Team has been created and data has been collected from the site. A Pilot Study was started in the last quarter of 2011.
- Certain conveyors are shut down when the bin is less than 80% full. All other conveyors are operating at design capacity when plant is in operation.



Table 2.2 - Energy efficiency opportunities identified in the assessment

It is compulsory to complete a separate table for each group member, business unit, or key activity that has been assessed

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	0							
	Implementation Commenced	0							
	To be Implemented	2		2	10,708				10,708
	Under Investigation	8	2	8,562	5	3,771	1	19	12,352
	Not to be Implemented	0							
Outcomes of assessment	Total Identified	10	2	8,562	7	14,479	1	19	23,060
Status of opportunities identified to an accuracy of worse than ±30%									
Business Response	Implemented								
	Implementation Commenced								
	To be Implemented								
	Under Investigation								
	Not to be Implemented								
Outcomes of assessment	Total Identified								

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

Part 2b - Assessment Outcomes

Table 2.1 – Assessment Details

It is compulsory to complete a separate table for each group member, business unit, or key activity that has been assessed

Name of group member or business unit or key activity

Millennium Coal Pty Ltd

Total energy use in the last financial year

891,705

GJ

Energy use assessed in this entity as a percentage of total entity energy use*

100

%

Energy use assessed in this entity as a percentage of total corporate energy use

20.25

%

Accuracy of above estimates related to energy use assessed - only required if not $\pm 5\%$ or better

%

Period over which assessment was undertaken

1/1/2010

30/10/2011

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

Millennium Coal Pty Ltd (Millennium Mine) commenced preparation to undertake an EEO Assessment in early 2010 and engaged an independent consultant to assist with the completion of an onsite EEO Assessment and EEO Assessment Report. The EEO Assessment included an analysis of energy consumption for 2008/09 and 2009/10 and a two day site visit.

Millennium Mine is run by contractors, and uses diesel in mining operations. The Millennium Mine site does not use electricity (it relies on electricity from diesel generators), and therefore the analysis of energy consumption focused on diesel consumption. The analysis included:

- Total annual energy consumption;
- Total annual energy costs;
- Total annual mine production;
- Monthly energy consumption, energy cost and mine production for 2008/09 and 2009/10;
- Estimation of energy consumption breakdown
- Calculation of greenhouse gas (GHG) emissions from energy consumption; and
- Calculation of key performance indicators (KPIs) for energy consumption.

A two day site visit was conducted by the independent consultant in September 2010 to undertake the identification of energy efficiency opportunities and conduct the EEO Diagnostic. The EEO Diagnostic was undertaken to assess Millennium against the six key elements of the EEO Assessment Framework and identify key areas for improvement.

The two day site visit involved representative from PEA, Millennium and the mine contractor and was facilitated by the independent consultant.



Key activities during the site visit included:

- A brief presentation to introduce EEO and outline the assessment process;
- Discussions on current energy consumption and energy monitoring;
- Discussion of energy management issues and existing energy projects previously identified; and
- An EEO Diagnostic of the six key elements of the EEO Assessment Framework.

An extension has been granted by the Department to allow the Millennium EEO Assessment Report to be finalised by 31 March 2012.

* 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 2.2 - Energy efficiency opportunities identified in the assessment

It is compulsory to complete a separate table for each group member, business unit, or key activity that has been assessed

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	3	3	45,475					45,475
	Implementation Commenced								
	To be Implemented								
	Under Investigation								
	Not to be Implemented								
Outcomes of assessment	Total Identified	3	3	45,475					45,475
Status of opportunities identified to an accuracy of worse than $\pm 30\%$									
Business Response	Implemented								
	Implementation Commenced								
	To be Implemented								
	Under Investigation								
	Not to be Implemented								
Outcomes of assessment	Total Identified								

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

Part 2c - Assessment Outcomes

Table 2.1 – Assessment Details

It is compulsory to complete a separate table for each group member, business unit, or key activity that has been assessed

Name of group member or business unit or key activity

Wambo Coal Pty Ltd

Total energy use in the last financial year

1,620,613

GJ

Energy use assessed in this entity as a percentage of total entity energy use*

100

%

Energy use assessed in this entity as a percentage of total corporate energy use

36.80

%

Accuracy of above estimates related to energy use assessed - only required if not $\pm 5\%$ or better

%

Period over which assessment was undertaken

1/7/2007

20/6/2008

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

In 2007-08, Peabody conducted an EEO Assessment for the Wambo Coal Pty Ltd (Wambo Mine) in NSW, which covered 24 percent of Peabody's total energy consumption. An assurance assessment of the Wambo EEO Assessment was conducted by an independent consultant contracted by PEA, which identified key areas for improvements, including communication within site and to other Peabody operations.

Following the 2008 assessment, in 2009, Wambo purchased portable electrical meters, to assist with measuring the impact of energy efficiency projects within the surface facilities.

A Wambo employee has identified a potential energy efficiency opportunity in upgrading fluorescent indoor lighting. A trial started in November 2010 and since then, Wambo has increased its use of the upgraded fluorescent indoor light bulbs.

* 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 2.2 - Energy efficiency opportunities identified in the assessment

It is compulsory to complete a separate table for each group member, business unit, or key activity that has been assessed

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	Voluntary Information	
<p>Citect upgrade for improved energy monitoring</p> <p>Electricity is currently supplied to Wilkie Creek through one main account with five transformers. Three transformers are located within the Coal Handling and Preparation Plant (CHPP) and are directly monitored by the Citect system. This allows for accurate monitoring of energy loads within the CHPP and energy use trends. The two other transformers are not linked to the CHPP system, and therefore it is not currently possible to monitor detailed energy use relating to the environmental dam and the administration and maintenance buildings.</p> <p>A potential opportunity involves the upgrade of the existing Citect system together with the installation of new meters, and a signal system connected to the main supply meter. This upgrade will allow for the identification of detailed electricity use trends which will allow Wilkie Creek to build a comprehensive understanding of electricity usage.</p> <p>This project can also be used to build capacity for understanding energy monitoring and the analysis of energy consumption by site staff, and raise awareness of energy management on site.</p> <p>Electricity is estimated to account for only 7% of total energy at Wilkie Creek, however, improvements in monitoring are estimated to result in a 2% saving, equivalent to approximately 700GJ per annum.</p>	Business Response	Under Investigation
	Energy saved (GJ)	700 GJ per annum
	Greenhouse gas abated (CO2-e)	175 t CO2-3 per annum
	\$\$ saved	\$15,600 per annum
	Payback period	2.6 years

Description of Opportunity	Voluntary Information	
Diesel Fuel Management System	Business Response	Implementing



<p>Diesel fuel allocation is currently managed by manual fuel cards at Wilkie Creek, which allows for approximate allocation of usage and costs but at the time of this review this leaves a significant proportion of diesel usage unaccounted for.</p> <p>Wilkie Creek is planning to implement an automated fuel management system as a matter of priority, to assist in monitoring of fuel use breakdown and accurate identification of diesel saving opportunities. It is estimated that improved monitoring and corrective actions to avoid waste will result in an energy saving of 2% of diesel use, or 10,000GJ.</p> <p>This project is being run as a pilot for automated diesel management systems which may then be used across other PEA operations.</p>	Energy saved (GJ)	10,000 GJ per annum
	Greenhouse gas abated (CO2-e)	750 t CO2-e per annum
	\$s saved	\$200,000
	Payback period	.38 years

Description of Opportunity	Voluntary Information	
<p>Truck Shovel Optimisation</p> <p>Wilkie Creek has currently been investigating and trialling the InMotion system for operator training, to improve truck shovel efficiency. Improvements in truck shovel efficiency may lead to more efficient mining practices, reduced load time and reduced wait times, resulting in reduced energy use across the excavator and truck fleets.</p> <p>A conservative estimate of 10 % savings in excavator fuel use offered an annual reduction 7,400GJ, however, improvements in overall fleet efficiency could result in higher savings. The energy savings associated with this project are difficult to quantify, particularly in the absence of an automated diesel fuel management system. The project however potentially offers a very short payback.</p>	Business Response	Under Investigation
	Energy saved (GJ)	7,400GJ per annum
	Greenhouse gas abated (CO2-e)	572 t CO2-e per annum
	\$s saved	\$143,000 per annum
	Payback period	.5 years

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.