



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.

Centennial Coal Company 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

The second cycle ARS commenced in 2013, and the following is reported against this current ARS. For all projects identified in the first cycle ARS, except those implemented prior to this 2013 report, are carried over and reported below.

Airly Mine (Airly) ceased production at the end of December 2012 and was placed on “care & maintenance” in January 2013. Whilst on care & maintenance, Airly will be appropriately maintained to continue to meet safety and environmental regulations and to enable a reopening when market conditions improve.

Mannering Colliery (Mannering) ceased production at the end of November 2012 and was placed on care & maintenance in January 2013. During quarter four of 2013, Centennial assigned the operation of Mannering to the owners of Chain Valley Colliery. Consequently, Chain Valley Colliery assumes all management responsibility for Mannering.

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*.

David Moulton, CEO

Date 16 December 2013

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

Angus Place Colliery

Total energy use in the last financial year

195,513.54

GJ

Total percentage of energy use assessed

0

%

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

The next assessment is scheduled at Angus Place in the period January 2014 to June 2014.

It is planned to review projects from the previous cycle and re-assess projects carried over. Through the use of both site personnel and group sustainability personnel, projects will be assessed in detail with respect to the remaining life of mine.

Assessments will be carried out consistent with the EEO Guidelines via meetings between site personnel, group sustainability personnel reconciling with the previous Energy Savings Action Plans and EEO Assessments conducted at the site.

A Workshop involving relevant site personnel and group sustainability personnel will be held to:

- discuss the status and outcomes of opportunities already included in previous reports;
- identify projects that are to be carried forward due to potential for practical application; and
- identify additional opportunities and ideas for energy savings

Outcomes from the Workshop will be evaluated as set out in the EEO guidelines and the mines' business processes. They will then be categorised for further action.

* Entity is group member, business unit, or key activity. 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).



Name of entity

Charbon Colliery

Total energy use in the last financial year

230,802.4

GJ

Total percentage of energy use assessed

0

%

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

The next assessment is scheduled at Charbon in the period January 2016 to June 2016.

It is planned to review projects from the previous cycle and re-assess projects carried over. Through the use of both site personnel and group sustainability personnel, projects will be assessed in detail with respect to the remaining life of mine.

Assessments will be carried out consistent with the EEO Guidelines via meetings between site personnel, group sustainability personnel reconciling with the previous Energy Savings Action Plans and EEO Assessments conducted at the site.

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Name of entity

Clarence Colliery

Total energy use in the last financial year

190,278.2

GJ

Total percentage of energy use assessed

0

%

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

The next assessment is scheduled at Clarence in the period January 2015 to June 2015.

It is planned to review projects from the previous cycle and re-assess projects carried over. Through the use of both site personnel and group sustainability personnel, projects will be assessed in detail with respect to the remaining life of mine.

Assessments will be carried out consistent with the EEO Guidelines via meetings between site personnel, group sustainability personnel reconciling with the previous Energy Savings Action Plans and EEO Assessments conducted at the site.

A Workshop involving relevant site personnel and group sustainability personnel will be held to:

- discuss the status and outcomes of opportunities already included in previous reports;
- identify projects that are to be carried forward due to potential for practical application; and
- identify additional opportunities and ideas for energy savings

Outcomes from the Workshop will be evaluated as set out in the EEO guidelines and the mines' business processes. They will then be categorised for further action.

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Name of entity

Mandalong Mine

Total energy use in the last financial year

288,470.5

GJ

Total percentage of energy use assessed

0

%

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

The next assessment is scheduled at Mandalong during the period October 2013 to March 2014.

This has changed from the original 2nd cycle assessment, which was scheduled for the June-September 2014 quarter. This change was required due to an issue arising at the Mine, and was approved by the Department.

It is planned to review projects from the previous cycle and re-assess projects carried over. Through the use of both site personnel and group sustainability personnel, projects will be assessed in detail with respect to the remaining life of mine.

Assessments will be carried out consistent with the EEO Guidelines via meetings between site personnel, group sustainability personnel reconciling with the previous Energy Savings Action Plans and EEO Assessments conducted at the site.

A Workshop involving relevant site personnel and group sustainability personnel will be held to:

- discuss the status and outcomes of opportunities already included in previous reports;
- identify projects that are to be carried forward due to potential for practical application; and
- identify additional opportunities and ideas for energy savings

Outcomes from the Workshop will be evaluated as set out in the EEO guidelines and the mines' business processes. They will then be categorised for further action.

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Name of entity

Myuna Colliery

Total energy use in the last financial year

131,360.2

GJ

Total percentage of energy use assessed

0

%

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

The next assessment is scheduled at Myuna in the period July 2014 to December 2014.

It is planned to review projects from the previous cycle and re-assess projects carried over. Through the use of both site personnel and group sustainability personnel, projects will be assessed in detail with respect to the remaining life of mine.

Assessments will be carried out consistent with the EEO Guidelines via meetings between site personnel, group sustainability personnel reconciling with the previous Energy Savings Action Plans and EEO Assessments conducted at the site.

A Workshop involving relevant site personnel and group sustainability personnel will be held to:

- discuss the status and outcomes of opportunities already included in previous reports;
- identify projects that are to be carried forward due to potential for practical application; and
- identify additional opportunities and ideas for energy savings

Outcomes from the Workshop will be evaluated as set out in the EEO guidelines and the mines' business processes. They will then be categorised for further action.

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Name of entity

Newstan Colliery

Total energy use in the last financial year

150,341

GJ

Total percentage of energy use assessed

0

%

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

The next assessment is scheduled at Newstan in the period July 2015 to December 2015.

It is planned to review projects from the previous cycle and re-assess projects carried over. Through the use of both site personnel and group sustainability personnel, projects will be assessed in detail with respect to the remaining life of mine.

Assessments will be carried out consistent with the EEO Guidelines via meetings between site personnel, group sustainability personnel reconciling with the previous Energy Savings Action Plans and EEO Assessments conducted at the site.

A Workshop involving relevant site personnel and group sustainability personnel will be held to:

- discuss the status and outcomes of opportunities already included in previous reports;
- identify projects that are to be carried forward due to potential for practical application; and
- identify additional opportunities and ideas for energy savings

Outcomes from the Workshop will be evaluated as set out in the EEO guidelines and the mines' business processes. They will then be categorised for further action.

Note that the previous assessment at Newstan included the coal preparation, stockpile and loading facilities, now called Northern Coal Services. As scheduled in the 2nd cycle ARS, Northern Coal services will assessed separately.

* Entity is group member, business unit, or key activity. 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).



Name of entity

Northern Coal Services

Total energy use in the last financial year

34,861.6

GJ

Total percentage of energy use assessed

0

%

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

In the 1st ARS cycle Northern Coal Services was included as part of the Newstan Colliery entity. In the 2nd ARS cycle a separate assessment is scheduled at Northern Coal Services in the period July 2015 to December 2015.

It is planned to review projects from the previous cycle and re-assess projects carried over. Through the use of both site personnel and group sustainability personnel, projects will be assessed in detail with respect to the remaining life of mine.

Assessments will be carried out consistent with the EEO Guidelines via meetings between site personnel, group sustainability personnel reconciling with the previous Energy Savings Action Plans and EEO Assessments conducted at the site.

A Workshop involving relevant site personnel and group sustainability personnel will be held to:

- discuss the status and outcomes of opportunities already included in previous reports;
- identify projects that are to be carried forward due to potential for practical application; and
- identify additional opportunities and ideas for energy savings

Outcomes from the Workshop will be evaluated as set out in the EEO guidelines and the mines' business processes. They will then be categorised for further action.

* Entity is group member, business unit, or key activity. 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).



Name of entity

Springvale Colliery

Total energy use in the last financial year

301,779.5

GJ

Total percentage of energy use assessed

100

%

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

An assessment was commenced at Springvale in September 2013.

A detailed Workshop has been held discussing the status and outcomes of opportunities already included in previous reports and opportunity calculations have been updated to reflect savings achieved. Some projects have been eliminated from the EEO Database due to their unclear nature, savings being difficult to calculate or not being applicable due to operational reasons.

Additional opportunities were discovered during the workshop and these are being evaluated, categorised as set out in the EEO guidelines and the mine business plan to determine appropriate action.

* Entity is group member, business unit, or key activity. 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 entity that has been assessed

ANGUS PLACE COLLIERY									
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 – 4 years		> 4 years		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented	2	1	1357	1	0			1357
	Implementation Commenced								
	To be Implemented								
	Under Investigation	1	1	1080					1080
	Not to be Implemented	1	1	486					486
Outcomes of assessment	Total Identified	4	3	2923	1	0			2923

CHARBON COLLIERY									
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 – 4 years		> 4 years		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented								
	Implementation Commenced								
	To be Implemented	1	1	7061					7061
	Under Investigation	1	1	1343					1343
	Not to be Implemented								
Outcomes of assessment	Total Identified	2	2	8404					8404



CLARENCE COLLIERY

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 – 4 years		> 4 years		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented								
	Implementation Commenced	1	1	5627					5627
	To be Implemented	1	1	3013					3013
	Under Investigation	1	1	850					850
	Not to be Implemented								
Outcomes of assessment	Total Identified	3	3	9490					9490

MANDALONG MINE

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 – 4 years		> 4 years		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented								
	Implementation Commenced	1	1	7200					7200
	To be Implemented								
	Under Investigation	1				1	42000		42000
	Not to be Implemented								
Outcomes of assessment	Total Identified	2	1	7200			1	42000	49200



MYUNA COLLIERY

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								
	To be Implemented								
	Under Investigation	1	1	2700					2700
	Not to be Implemented								
Outcomes of assessment	Total Identified	1	1	2700					2700

NEWSTAN COLLIERY

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								
	To be Implemented	1			1	202			202
	Under Investigation	1	1	2700					2700
	Not to be Implemented								
Outcomes of assessment	Total Identified	2	1	2700	1	202			2902



NORTHERN COAL SERVICES

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 – 4 years		> 4 years		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented								
	Implementation Commenced								
	To be Implemented								
	Under Investigation	1	1	200					200
	Not to be Implemented								
Outcomes of assessment	Total Identified	1	1	200					200

SPRINGVALE COLLIERY

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 – 4 years		> 4 years		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented	1	1	6750					6750
	Implementation Commenced	1	1	386					386
	To be Implemented	5	3	1824			2	68	1892
	Under Investigation	4	4	1371					1371
	Not to be Implemented								
Outcomes of assessment	Total Identified	11	9	10331			2	68	10399

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	
Angus Place Longwall face water management reducing pumping requirements by reducing from 4 pumps alongside the longwall to 2 pumps at the face	Equipment Type	5.6
	Business Response	Implemented
	Energy saved (GJ)	1,357
	Greenhouse gas abated (CO2-e)	335
	\$s saved	\$174,000
	Payback period	1.6
Description of Opportunity No 2	Voluntary Information	
Implementation of power factor correction unit at Angus Place	Equipment Type	8.3
	Business Response	Implementation
	Energy saved (GJ)	0
	Greenhouse gas abated (CO2-e)	0
	\$s saved	\$55,000
	Payback period	1.7
Description of Opportunity No 3	Voluntary Information	
A process change at Springvale Colliery to consolidate operating times	Equipment Type	4.2
	Business Response	Implemented
	Energy saved (GJ)	6,750
	Greenhouse gas abated (CO2-e)	1669
	\$s saved	\$264,050
	Payback period	0.2

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.

