

PUBLIC REPORT 2011

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.

Consolidated Minerals Ltd (now Consolidated Minerals Pty Ltd)

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

The Coobina Chromite business re-commenced mining operations during the reporting year. The Kambalda Nickel operation remained on Care and Maintenance.

Table 1.2 – Aggregate energy assessed covered in this report

Total energy use covered by all assessments in this report	1,436,702	GJ
Total energy assessed as percentage of total energy use of the corporate group*#	85.8	%

* 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

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 Coyne – Director

Date 12-12-11

Part 2 - 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

Pilbara Manganese Pty Ltd (Woodie Woodie operation)

Total energy use in the last financial year

1,436,702

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

85.8

%

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

%

Period over which assessment was undertaken

April 2008

October 2008

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

Consolidated Minerals Pty Limited (CMPL) engaged a consultant, Kewan Bond Pty Ltd, to provide advice and assistance in the development of the original Assessment and Reporting Schedule (ARS). This ARS was submitted and approved in June 2008.

CMPL subsequently engaged consultants Alberfield Pty Ltd to undertake an assessment of the energy usage of the Woodie Woodie operations with assistance from selected Woodie Woodie site staff. The scope of this assessment included a review of the operations, determining the extent of energy data available and initiating the collection of preliminary energy data and other necessary information. This assessment was completed over the period April 2008 to October 2008. At the conclusion of this process, a list of energy efficiency opportunities was developed and compiled into a project register. A presentation was made to the CMPL executive committee on the findings and recommendations of the assessment.

In November 2008, the Coobina and Beta Hunt operations were placed on care and maintenance as a result of the Global Financial Crisis (GFC). As a result, CMPL submitted a revised ARS that changed the assessment schedule for the company sites.

In December 2008 CMPL wrote to the Department of Resources, Energy and Tourism to inform them of the deteriorating market conditions and deteriorating outlook for its products. This outlook caused CMPL to review the operating and capital budget for 2009, including the provisions for Energy Efficiency Opportunities related projects.



As a result of the GFC and a reduction in number of technical staff, CML were unable to carry out any assessment activities for the reporting periods ending in June 2009 and 2010. In 2011, arrangements were made to undertake an assessment of the processing plant at Woodie Woodie. This activity commenced in August 2011, which is outside of the current reporting period. Therefore there has been no further progress on energy assessments during the current reporting year.

In the 12 month period ending June 2011, two of the EEO projects from the original Woodie Woodie assessment process were progressed. The first project involves connecting the Diesel-powered Electricity Generation Plant to the plant control system. This will enable Plant personnel to more closely match generation capacity with the Process Plant electricity demand which will improve the energy efficiency of the generators. Implementation of this project commenced during the reporting period.

The second project was to undertake the investigation into the use of light-weight truck bodies for the mine haulage fleet. This project will provide both energy efficiency and haulage capacity benefits. As a result of this investigation, the decision was taken to proceed with the purchase of the light-weight bodies and the status of this project has been changed from “under investigation” to “to be implemented”.

In addition to the assessed opportunities, CMPL has identified and implemented other initiatives that are not reportable under the EEO Program:

- Solar powered water bore pumps at the Coobina mine site, which reduced the energy required per kL of water pumped
- Selected amongst the most fuel efficient generators available for installation at Coobina mine site
- Debottlenecking of the Woodie Woodie processing plant has increased ore throughput for a similar energy expenditure, giving approximately 13% kWhr/tonne improvement in 2010/11 over 2009/10.
- Purchase of LED lighting for trial at Woodie Woodie processing plant, to replace fluorescent lamps. These lights use less electrical energy and have a longer life-time.
- Selected and purchased energy efficient equipment when and where possible across other CMPL activities including latest technology haul trucks to minimise fuel consumption.

* 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 ±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	5	29,135		14,638				43,773
	Under Investigation								
	Not to be Implemented								
Outcomes of assessment	Total Identified	5	29,135		14,638				43,773
Status of opportunities identified to an accuracy of worse than ±30%									
Business Response	Implemented								
	Implementation Commenced	1			1,033				1,033
	To be Implemented	1					1	2,187	2,187
	Under Investigation	7	3	33,184	4	4,139			37,323
	Not to be Implemented								
Outcomes of assessment	Total Identified	9	33,184		5,172		2,187		40,543

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

A review of the status of the identified energy efficiency opportunities has been undertaken for this report. A number of opportunities previously reported have been nominated as greenhouse abatement projects rather than EEO projects and these have been removed. A number of projects previously considered as opportunities have been re-classified as improvement ideas and these also have been removed from this summary.

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	
Installing solar boosters for existing hot water heaters, or replacement with solar water heaters upon the failure of existing systems. (Type of opportunity – Capital equipment purchase)	Business Response	
	Energy saved (GJ)	
	Greenhouse gas abated (CO2-e)	
	\$s saved	
	Payback period	

Description of Opportunity	Voluntary Information	
Installation of shade roofs over exposed accommodation dongas to reduce heat gain during the day. (Type of opportunity – Capital equipment purchase)	Business Response	
	Energy saved (GJ)	
	Greenhouse gas abated (CO2-e)	
	\$s saved	
	Payback period	

Description of Opportunity	Voluntary Information	
Install timers to reduce the operating time of the air conditioners servicing the accommodation dongas. (Type of opportunity – Capital equipment purchase and change in equipment operation practices)	Business Response	
	Energy saved (GJ)	
	Greenhouse gas abated (CO2-e)	
	\$s saved	
	Payback period	

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.