

PUBLIC REPORT FOR THE ENERGY EFFICIENCY OPPORTUNITIES ACT

SUNRISE GOLD MINE

2010



ANGLOGOLD ASHANTI



CONTENTS PAGE

INTRODUCTION.....	3
PART 1 – INFORMATION ON ASSESSMENTS COMPLETED TO DATE	4
PART 2 - ENERGY EFFICIENCY OPPORTUNITIES THAT HAVE BEEN IDENTIFIED AND EVALUATED.....	6
Part 2B - Update of assessments originally reported in previous reporting periods.....	6
Part 2C - Details of three significant opportunities found through EEO assessments.....	8
PART 3 - VOLUNTARY CONTEXTUAL INFORMATION	8
SITE ENVIRONMENTAL KEY DEVELOPMENTS	9
CORPORATE ENVIRONMENTAL KEY DEVELOPMENTS	9
PART 4 – DECLARATION	10

INTRODUCTION



AngloGold Ashanti has a vision 'to be the leading mining company'. To support this it has developed a value:

“We respect the environment”

We are committed to continually improving our processes in order to prevent pollution, minimise waste, increase our carbon efficiency and make efficient use of natural resources. We aim to develop innovative solutions to mitigate environmental and climate risks.

AngloGold Ashanti Australia's (AGAA) goal of continually improving its carbon efficiency aligns with the Australian Federal Government's Energy Efficiency Opportunities Act. This legislation requires corporations that use more than 0.5 petajoules (PJ) of energy per year to participate in an Energy Efficiency Opportunities program. AngloGold Ashanti Australia uses more than 0.5 PJ of energy annually at the Sunrise Dam Gold Mine, and therefore we must report the results of our energy use, assessment and response to this assessment.

AGAA is aiming to improve our energy efficiency by identifying, evaluating and reporting publicly on cost effective energy saving opportunities. AngloGold Ashanti Australia's Energy Efficiency Opportunities process is designed to:

- identify and implement cost-effective energy efficiency opportunities
- improve productivity and reduce greenhouse gas emissions
- enable greater scrutiny of energy use by management and key operational staff

This report relates to the following period:

Start **End**

PART 1 – INFORMATION ON ASSESSMENTS COMPLETED TO DATE

Table 1.1 – Description of the way in which the Corporate Group has carried out its assessments

AngloGold Ashanti Australia Limited (AGAA), Sunrise Dam Gold Mine consumed 2,873,086 GJ (2.87 PJ) in the 2009/10 financial year. This report is the third public report under the Australian Federal Government Energy Efficiency Opportunities Legislation.

Sunrise Dam Gold Mine conducted its assessment in the previous reporting period and this report is a status update. Updates to the opportunities identified were completed for FY 2009/2010 by an external consultant. This involved a site visit and interviews with key personnel.

AGAA considers that energy efficiency and the EEO process are an on-going part of its business and therefore has continued to quantify and review opportunities identified from the EEO process. There are several ways this process is supported:

- Monthly Management Cost Meetings - energy is an agenda item at these meetings
- EEO Steering Committee – this comprises champions from each section (open pit, processing, underground, village/administration)
- Process Plant Database – this is a detailed & comprehensive database which tracks and allows reporting on key energy metrics
- Business Improvement Process – the Business Improvement process tracks financial outcomes of the energy efficiency opportunities
- External Consultants – are used on an annual basis to assess progress of opportunities and provide feedback
- AngloGold Ashanti Australia Regional Report– an additional level of accountability is added by the EEO information being required to be included in this Report. The Public EEO report is also posted on AGAA’s website as a requirement



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
Anglogold Ashanti (Sunrise Dam) Pty Ltd	July 2007 - June 2008	2,873,086
Total energy use of assessed entities (or part thereof)		2,873,086
Total energy use of the whole corporate group in the period 1.7.2009 to 30 June 2010		2,911,075
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		98.7%

1. This should be the start and finish date (month and year) for the assessment (planned assessment dates were nominated in Table 3.1 of the approved ARS).

2. Energy Bandwidth may only be used if approved in the Assessment and Reporting Schedule.

Table 1.3 – Accuracy of energy use assessed data

Entity	% achieved	Reasons for not achieving data accuracy to within $\pm 5\%$
Anglogold Ashanti (Sunrise Dam) Pty Ltd	$\pm 5\%$	Leave the table blank if accuracy is $\pm 5\%$.

PART 2 - ENERGY EFFICIENCY OPPORTUNITIES THAT HAVE BEEN IDENTIFIED AND EVALUATED

Part 2A - New assessments completed during the reporting period

AGAA's assessment took place in the previous reporting period, and therefore a new assessment was not required for this reporting period.

AGAA performed reviews on all previous opportunities and continued to identify new opportunities during the reporting period.

Part 2B - Update of assessments originally reported in previous reporting periods

Name of site: AngloGold Ashanti (Sunrise Dam) Pty Ltd

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).

2,873,086	GJ
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An additional eight opportunities were identified during the current reporting period. This resulted in a significant increase of 62% in the total estimated energy savings per annum compared to the last reporting period. A further five opportunities were implemented.

Table 2.3 - Opportunities assessed to an accuracy of better than ±30%

Status of opportunities identified		Number of opps	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	
Outcomes of assessment*	Total Identified	3 (Nil)	3 (Nil)	6,423 (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	6,423 (Nil)
Business Response*	Under Investigation	2 (Nil)	2 (Nil)	2,324 (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	2,324 (Nil)
	To be Implemented	1 (Nil)	1 (Nil)	4,099 (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	4,099 (Nil)
	Implementation Commenced	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)
	Implemented	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)
	Not to be	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)	Nil (Nil)

	Implemented								
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Table 2.4 - Opportunities assessed to an accuracy of worse than ±30%

Status of opportunities identified		Number of opps	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	
Outcomes of assessment*	Total Identified	31 (26)	26	113,461 (66,721)	3	14,445 (14,445)	2	3,670 (3,670)	131,575 (84,835)
Business Response*	Under Investigation	4 (5)	3	15,301 (6,129)	Nil	Nil (692)	1	2,974 (2,974)	18,274 (9,794)
	To be Implemented	3 (4)	2	45,908 (8,761)	Nil	Nil (Nil)	1	696 (696)	46,604 (5,647)
	Implementation Commenced	5 (3)	5	26,071 (10,206)	Nil	Nil (Nil)	Nil	Nil (Nil)	26,071 (9,951)
	Implemented	17 (12)	14	26,015 (45,626)	3	14,445 (13,752)	Nil	Nil (Nil)	40,460 (59,378)
	Not to be Implemented	2 (2)	2	166 (64)	Nil	Nil (Nil)	Nil	Nil (Nil)	166 (64)

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

Table 2.5 – Description of 3 significant opportunities

Opportunity 1 – Second power line to underground mine

A second powerline to the underground mine has been installed. This has two energy benefits. Firstly, the overall resistance through the transmission lines is decreased with the second line. This means that losses are lower and the power plant load is reduced. The second energy benefit is that the installation of the new power line allows diesel generators located at the mine to be demobilised from site, decreasing overall diesel consumption. As the main power plant is LNG fired, some of the savings in diesel through removing the generators will be taken up with increased LNG.

Installation will be complete in December 2010 with commissioning early in 2011. An overall energy saving of 3,600 GJ of diesel has been estimated for this opportunity.

Opportunity 2 – Mill optimization

There is currently a project underway to increase the efficiency of the milling circuit through improved process control. Grind surveys are being conducted regularly to ensure the mill is operating effectively. The overall aim of the improved control is to reduce incidences where a grind out is required. This situation occurs when the mill is overloaded and must be operated with no fresh feed being added to remove some of the load from inside the mill.

It is expected that power savings of up to 5% will be realised through improved control of milling circuits and regular optimisation of grind size, ball charge and mill loading.

Opportunity 3 – Improved crusher operation

A program has been introduced to improve crusher operation on site. This involves operating the machine such that it is controlled within a power band, as defined by the ore being fed to the ROM. This mode of operation has decreased energy consumption through the crushing circuit by reducing the amount of recirculating load in the circuit. In the past, variability in the recirculating load has meant that energy is wasted “crushing out”, where the circuit is run with no fresh feed being added. This project has also resulted in a steadier operation of the crushing circuit, which allows optimization to be completed in downstream unit operations.

The estimated energy savings for this project have been approximately 50 GJ/year for 2010.

Table 3.1 – Contextual Information

SITE ENVIRONMENTAL KEY DEVELOPMENTS

AngloGold Ashanti Australia is continually actively investigating cleaner energies as an opportunity to reduce its carbon footprint while simultaneously strategically diversifying its energy sources.

In addition to identifying and progressing energy efficiency opportunities, AngloGold Ashanti Australia has implemented a significant fuel switching project from diesel to LNG in their power generation plant.

AngloGold Ashanti Australia is a leader in investigating and implementing renewable energies in the Gold Industry. AngloGold Ashanti has been, and still are investigating an alternative energy source involving wind power. Wind generation is currently being used on a groundwater control pump.

CORPORATE ENVIRONMENTAL KEY DEVELOPMENTS


While this report pertains to the Sunrise Dam Gold Mine, there are several exciting Corporate Environmental Key Developments that align with the EEO Act:

- AngloGold Ashanti continues to report on the Carbon Disclosure Project's Carbon Intensive Sector Leadership Index of the largest 100 companies listed on the Johannesburg Stock Exchange.
- Integration of community and environmental disciplines at a corporate level.
- AngloGold Ashanti are presently working on three Clean Development Projects (CDM) within the South African operations. Other opportunities are being reviewed for future operational projects.
- With the escalation of energy costs within the global organization, AngloGold Ashanti are focusing on EEO initiatives in South Africa, Ghana and Brazil.



PART 4 – DECLARATION

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

<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>	
	<p>Insert Title of Signatory here</p> <p>SVP - AUSTRALIA</p>

