



PUBLIC REPORT

Part 1 - Corporation Details

Controlling Corporation

Period to which this report relates

Resolute Mining Limited

From

1 July 2008

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

NIL

Table 1.2 – Aggregate energy assessed covered in this report

Total energy use covered by all assessments in this report	198,990	GJ
Total energy assessed as percentage of total energy use of the corporate group ^{##}	29	%

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*.


Peter Sullivan - CEO

Date

21/12/11

Part 2 - Assessment Outcomes

Table 2.1 – Assessment Details

Name of group member or business unit or key activity

Nolans Processing Plant

Total energy use in the last financial year

198,990

GJ

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

29

%

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

29

%

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

%

Period over which assessment was undertaken

01/07/2010

30/06/2011

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

In the 2010-2011 reporting period an Energy Efficiency Opportunities (EEO) Assessment of Carpentaria Gold's Nolans Process Plant was completed. Intech Engineers were engaged to facilitate and complete the detailed technical components of the assessment.

The Assessment used the following methodology:

1. A site energy Efficiency team was formed. The team consisted of technical staff from both mining and processing.
2. An over arching energy mass balance was completed for the site. A further detailed energy mass balance was completed on the Nolans Processing Plant.
3. Intech Engineers facilitated an initial energy efficiency opportunities identification workshop on site.
4. Based on the results of the initial workshop, Intech Engineers completed a thorough assessment of the opportunities.
5. A second meeting was held and Opportunities that had been assessed in detailed by Intech Engineers were examined for any implications in terms of safety, environment, training, maintenance production and ongoing monitoring.



Table 2.3 - Details of significant opportunities identified in the assessment

Description of Opportunity	Voluntary Information	
<p>Replace refrigerated chilling system cooling tower with evaporative system</p> <p>The assessment identified that an energy saving could be made by changing the cooling system on an oxygen plant. The original refrigerating chilling system cooling tower was replaced with an evaporative system. The implementation costs of the EEO was minimal compared to the annual energy saving. The assessment found that the replacement system would have a payback period of six months.</p>	Business Response	Implemented
	Energy saved (GJ)	2,115 GJ/year
	Greenhouse gas abated (CO2-e)	523 CO2-e/year
	\$ saved	\$47,000/year
	Payback period	6 months

Description of Opportunity	Voluntary Information	
<p>Use reclaim heat exchanger for initial heat up</p> <p>The opportunity is to use waste heat contained in wash water to increase the temperature of the incoming process pregnant liquor saving heating required with the gas boiler.</p>	Business Response	To be implemented
	Energy saved (GJ)	1,800 GJ/year
	Greenhouse gas abated (CO2-e)	76 CO2-e/year
	\$ saved	\$40,000/year
	Payback period	24 months

Description of Opportunity	Voluntary Information	
<p>Optimise air / burner regulation by replacing burner</p> <p>The assessment identified that by replacing the current burner on the elution circuit an energy savings would be made. The assessment identified that the existing burner is not operating efficiently. A new burner would run effectively up to 30 % more efficient. The opportunity had a low capital expenditure and annual cost saving of \$28,000 a year.</p>	Business Response	To be implemented
	Energy saved (GJ)	1,260 GJ/year
	Greenhouse gas abated (CO2-e)	53 CO2-e/year
	\$ saved	\$28,000/year
	Payback period	9.25 months