



FIRST PUBLIC REPORT TEMPLATE

Controlling Corporation

Queensland Alumina Limited

Period to which this report relates

(See sub-section 22(2) of the Act and Regulation 7.1 of the *Energy Efficiency Opportunities Regulations (the Regulations) 2006*)

Start 01/7/2006

End 31/12/2008

Part 1 - Summary of assessments conducted thus far

Table 1.1 - Description of the way in which the corporation has carried out its assessments and over what period was each assessment taken. A statement saying that the intent and key requirements of the Energy Efficiency Opportunities legislation have been met must be made.

QAL Site

The usual business practice for QAL is to conduct Energy Reviews every year. This results in a "Raw Materials and Energy Plan" in detail for the following year and a proposal for a subsequent four years. The process involves ideas generation from all levels of the organisation into a data-base. Ideas are evaluated with expected economics calculated. Those with better than four year payback are then presented to management where a decision is made to include or not include in the subsequent years Raw Materials and Energy Plan and Capital Plan. QAL employ a large number of professional people (including an energy specialist) capable of generating and analysing projects. State of the art data collection systems are available for analytical purposes.

The review in 2007 included external consultants from Rio Tinto –Technology and Innovation to assist in the process and ensure that the intent and six key requirements of the EEO legislation were covered. Seven new possible projects were identified, with two of these being implemented in 2008. The remaining five require further investigations

It should be noted that the main contributions to energy use are gas and coal. In 2000, QAL installed benchmark energy consumption Calcination equipment (at a capital of \$175M), resulting in a 25% reduction (2.8 PJ) in gas usage.

QAL Bauxite Shipping

A review was conducted in the first half of 2008 by external consultants – JPM Pty Ltd, which identified 18 possible benchmark new projects. Of these, nine require further investigation, six have been discarded as uneconomic and three are awaiting strategic direction decisions.

Table 1.2 - Group member/business unit/key activity/site that have been assessed	Energy use per annum in the year the assessment is completed *	Energy data accuracy (if not within $\pm 5\%$) **	Reasons for not achieving data accuracy to within $\pm 5\%$ **
QAL Site	44.4 PJ	< $\pm 5\%$	
QAL Bauxite Shipping	4.4 PJ	< $\pm 5\%$	
Total	48.8 PJ		
Total as a percentage of total energy use of the group covered by this report	100%		

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

** Data accuracy not within $\pm 5\%$ can only be included if approved in the Assessment and Reporting Schedule

Part 2 - Outcomes of and business response to opportunities that have been identified and evaluated for each group member, business unit, key activity or site assessed

(See paragraphs 3-6 of Schedule 4 and Schedule 6 of the Regulations)

Group member/business unit/key activity/site >0.5 PJ name: **Queensland Alumina Limited**

Table 1.3 Status of Opportunities		Number of Opportunities	Estimated energy savings per annum by payback period (GJ)		Total estimated energy savings per annum (GJ)	*Accuracy range (%)
			0 – < 2 years	2 – ≤ 4 years		
Outcomes of assessment	Identified (accuracy ≤ ±30%)	2		0.51 PJ	0.51 PJ	±10%
	Identified (accuracy > ±30%)	5		0.29 PJ	0.29 PJ	±30%
	**Total Identified	7		0.80 PJ	0.80 PJ	
***Business Response	Under Investigation	5		0.29 PJ		±30%
	To be Implemented					
	Implementation Commenced	2		0.51 PJ		±10%
	Implemented					
	Not to be Implemented					

*The accuracy range for projected or actual costs, benefits and energy savings.

**You must ensure that this row is the sum of the two rows above it.

*** The data contained in each row of the business response area must total to the data contained in the 'Total Identified' row.

Note: An opportunity is any potential change to a system, activity or piece of equipment that:

- is identified during an EEO assessment;
- is consistent with legal requirements such as OHS, and
- may result in energy savings projects with payback periods of 4 years or less.

Details of at least three significant opportunities found through EEO assessments

(See paragraph 7 of Schedule 4 of the Regulations)

Details must include a brief description of the opportunity and may optionally include details of the costs of implementation, energy/dollar savings and any other benefits (such as greenhouse reductions).

Table 1.4
Opportunity 1
Re-location of resources for both operations and maintenance to improve cleaning efficiency and availability of heat recovery equipment in Digestion. Requires nil capital cost and minimal increase to operating cost for reduction in coal use. Currently being implemented and expect gains by the end of 2008.
Opportunity 2 *
Capital to improve acid cleaning facilities that will allow more efficient cleaning of heat recovery equipment in Digestion. Currently being implemented and expect gains by the end of 2008.
Opportunity 3 **
Install additional Plate Heaters on boiler feed water to maximise use of waste steam. Currently being investigated and expect a decision by the end of 2008.

*If there are less than three significant opportunities, provide details of those identified.

**If no significant opportunities have been identified in the assessment, a statement to this effect.

Part 3 - Voluntary Contextual Information

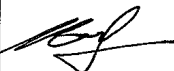
Reporting corporations may supply additional information that provides more context to the public report. Such information may include:

- Energy use and energy saved by energy type, as greenhouse gas emissions, as an indicator, or as an index;
- Energy savings achieved in the period 2000-2005;
- Opportunities with a greater than four year payback and the business response;
- Changes in total energy use/energy use indicator broken down to include causes of increase or decrease;
- Energy use and energy efficiency opportunities presented in dollars; and
- Other contextual information about the corporation's energy use and management.

Part 4 - Declaration

(See paragraph 8 of Schedule 4 of the Regulations and paragraph 22(4)(c) of the Act)

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 Odgers

Chair of the Board of Directors/CEO/Managing
Director/equivalent officer (state position)

Audrey M.D.
Company Secretary