

PUBLIC REPORT TEMPLATE 2010

Please consult the explanatory document when completing this template

Controlling Corporation

Alcoa Australia Holdings Pty Ltd
ACN 096 987 370

Period to which this report relates

Start 1 July 2009

End 30 June 2010

Part 1 – Information on assessments completed to date

Table 1.1 – Description of the way in which the Corporate Group (or part of it) has carried out its assessments

Alcoa Australia Rolled Products (AARP) completed energy assessments in 2008 for both its facilities, Pt Henry (Geelong, Vic); and Yennora (Sydney, NSW). The assessment was a level 2 energy Audit defined by (AS3598:2000), and covered 80% of each locations total energy use. ARP engaged an external consultant to assist with the assessment, which involved senior managers, engineering specialists, environmental coordinators and financial managers at both sites. The assessment included the six key elements as outlined in schedule 7 of the EEO regulations and Energy Efficiency Opportunity Assessment Handbook.

Several energy efficiency improvement projects identified in the assessment have progressed in terms of engineering evaluations, however most improvements scheduled for 2009/10 have been delayed due to the impact of the Global Financial Crisis (GFC). Capital investments were significantly curtailed in 2009/10 as part of the organizations cash conservation initiatives. As a consequence, implementation schedules of all projects were delayed from 2009 and rescheduled to late 2010 and beyond.

The GFC, in addition to reducing capital investment, also reduced demand which resulted in an 28 % reduction in production from the 2008/2009 to 2009/2010 reporting year. The lower production led to a reduction in energy consumption for the reporting period. However, the reduction in energy consumption and production were not linearly proportional, due to equipment design limitations. Lower production levels typically resulted in equipment being idled (not turned off), causing a reduction in energy efficiency. Flow path redesigns have been undertaken in H2 2009, for implementation in 2010, which will assist in maintaining energy efficiencies. One such project is described below in Part 2C – Shutting Down Ingot Furnaces DC#3.

Part 1 – Information on assessments completed to date (continued)

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
Pt Henry Operations	May 2008 – September 2008	1,143,704
Yennora Operations	May 2008 – September 2008	1,086,800
Total energy use of assessed entities (or part thereof)		1,784,404
Total energy use of the whole corporate group in the period 1.7.2009 to 30 June 2010		2,230,505
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		80%

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 $\pm 5\%$
Pt Henry	$\pm 10\%$	Calculated proportion of electricity usage based on periodic sampling. No continuous metering to monitor consumption of Rolling Plant electrical energy from the total site consumption. Capital is allocated for installation of electrical metering in production centres – scheduled for 2010/11.
Yennora	$\pm 5\%$	Within metering accuracy

Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

Part 2B - Update of assessments reported in previous Public Reports

Name of Group member or business unit or key activity or site: ___ AARP - Pt Henry Operation

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).

1,143,704	GJ
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Table 2.3 – Opportunities assessed to an accuracy of better than or equal to (\leq) $\pm 30\%$

Status of opportunities identified	Total Number of opportunities	Estimated energy savings per annum by payback period (GJ)						Total estimated energy savings per annum (GJ)
		0 – < 2 years		2 – \leq 4 years		> 4 years		
		No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Under Investigation							
	To be Implemented							
	Implementation Commenced	2	1350					1350
	Implemented	1	47850					47850
	Not to be Implemented							
Outcomes of assessment	Total Identified	3	49200					49200

Part 2B - Update of assessments originally reported in previous Public Reports (continued)

Name of Group member or business unit or key activity or site: _____ AARP - Pt Henry Operation_____

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).

1,143,704	GJ
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Table 2.4 – Opportunities assessed to an accuracy of worse than ($>$) $\pm 30\%$

Status of opportunities identified	Total	Estimated energy savings per annum by payback	Total estimated energy
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		Number of opportunities	period (GJ)						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	Under Investigation	10					10	38650	38650
	To be Implemented	3					3	10400	10400
	Implementation Commenced								
	Implemented								
	Not to be Implemented								
Outcomes of assessment	Total Identified	13					13	49050	49050

Part 2B - Update of assessments reported in previous Public Reports

Name of Group member or business unit or key activity or site: ___ AARP – Yennora Operation

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).

1,086,800	GJ
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Table 2.3 – Opportunities assessed to an accuracy of better than or equal to (<=) ±30%

Status of opportunities identified		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	Under Investigation								
	To be Implemented	4	3	7971	1	1993			9964
	Implementation Commenced								
	Implemented	1			1	4802			4802
	Not to be Implemented								
Outcomes of assessment	Total Identified	5	3	7971	2	6795			14766

7971 GJ =

Part 2B - Update of assessments originally reported in previous Public Reports

(continued) Name of Group member or business unit or key activity or site: _____ AARP – Yennora Operation

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).

1,086,800	GJ
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Table 2.4 – Opportunities assessed to an accuracy of worse than (>) ±30%

Status of opportunities identified		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	Under Investigation	7	2	12504	1	3137	4	84666	100307
	To be Implemented								
	Implementation Commenced								
	Implemented								
	Not to be Implemented								
Outcomes of assessment	Total Identified	7	2	12504	1	3137	4	84666	100307

Part 2 - Energy Efficiency Opportunities that have been identified and evaluated

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

Table 2.5 – Description of 3 significant opportunities

Opportunity 1



Site - Meter installations

Installing new electrical and gas meters and routinely maintaining and calibrating meters in parts of both sites will improve the energy data captured and allow for improved accuracy in estimating energy saving opportunities. The installation of meters are scheduled for 2010/2011 and will allow Alcoa ARP to report energy data with a greater level of accuracy into the future and thereby ensure efficient manufacturing operations.

Opportunity 2

Sheet Finishing - Coil Coating Line

Savings in energy consumption and greenhouse gas emission can be achieved by adjusting instrumentation associated with the Coil Coating Line and decreasing the Lower Explosive Limit (LEL). At present the full energy savings have not been directly quantified but Alcoa ARP recognizes the reduction in dilution air and heating requirements will contribute energy savings. The project is proposed for completion in March 2011.

Opportunity 3

Shutting Down Ingot Casting Furnace DC3

Pt Henry melting and holding furnaces are old designs and do not have the ability to turn off when not needed. In low production volume situations, the furnace gas is reduced to “low fire” to keep remnant metal in the heel of the furnace in a molten state. This low fire state consumes considerable gas for no productive output. A redesign of the production flow paths through the operations will reduce furnace demands to a level where the furnaces associated with casting complex DC#3 can be shut down permanently, allowing all production requirements being supplied by casting complex DC#2. This redesign maximizes efficiencies for DC#2 and minimizes gas consumption. The project has been completed.

Opportunity 4

Part 3 - Voluntary Contextual Information

Table 3.1 – Contextual Information



NIL TO REPORT

Table 3.2 – Energy use expressed in Greenhouse Gas emissions and as an energy use indicator

Period of energy use _____ to _____

Name of group member/ business unit/ key activity/site	Energy use pa (GJ)	Energy use pa (GGE)	Energy use as an indicator*
Total			

Table 3.3 - Opportunities assessed to an accuracy of better than or equal to (<=) ±30% (\$ value)

Status of opportunities identified		Number of opportunities	Estimated energy savings per annum by payback period (\$)			Total estimated energy savings per annum (\$)
			0 – < 2 years	2 – ≤ 4 years	> 4 years	
Business Response*	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					
Outcomes of assessment*	Total Identified					



Part 3 - Voluntary Contextual Information (continued)

Table 3.4 – Changes in energy use as an indicator

Name of group member/ business unit/ key activity/site	Current energy use as an indicator	Previous energy use as an indicator	Reasons for change
Total			

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 Name and Title (Chair of the Board, CEO, or Managing Director) of Signatory here</p>
	<p>Date</p>