



PUBLIC REPORT

Controlling Corporation

Transpacific Industries Group Ltd

Period to which this report relates

Start 1 July 2007

End 30 June 2011

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

This year, although several energy efficiency improvement projects previously identified have progressed in terms of engineering evaluations, no new projects have been implemented.

The 2010 – 2011 financial year has been a period of restructure for Transpacific. As a consequence, all site assessments were put on hold while we revised our Assessment Plan to reflect the new company structure. In the 2008-2009 reporting period, Transpacific conducted assessments of four significant energy consuming facilities:

1. Transpacific Technical Services – a liquid waste treatment plant in Adelaide, SA (TTS Adelaide).
2. Transpacific Waste Services - our largest liquid waste treatment facility located in Sydney (Homebush), NSW (TWS Homebush).
3. Transpacific Refiners - a hydrogenation facility in Rutherford, NSW (TPR Rutherford).
4. Nationwide Oil - a used oil refinery in Sydney (Wetherill Park), NSW. (NWO Wetherill Park).

These sites will be reassessed during the 2011-2012 reporting period in addition to a further four sites.



Table 1.2 – Energy use assessed

Group member and/or business unit and/or key activity and/or site that has had an assessment completed by the end of this reporting period.	Period over which assessment was undertaken¹	Energy use per annum in GJ² in the current reporting year 1 Jul 2010 – 30 Jun 2011
TWS Homebush	July 2008 – December 2009	130,502
TTS Adelaide	July 2008 – June 2009	78,556
NWO Wetherill Park	July 2008 – December 2009	204,780
TPR Rutherford ³	July 2008 – December 2009	86,201
Total energy assessed		500,039
Total energy use of the group in the current reporting year		2,019,746
Total energy assessed expressed as a percentage of total current energy use		25%

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.
3. Transpacific Refiners Rutherford is not included in Transpacific's FY11 NGERs report as it is a 50% joint venture.



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

Table 1.3 – Accuracy of energy use data		
	% achieved	Reasons for not achieving data accuracy to within $\pm 5\%$
TWS Homebush	$\pm 5\%$	
TTS Adelaide	$\pm 5\%$	
NWO Wetherill Park	$\pm 5\%$	
TPR Rutherford	$\pm 5\%$	



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

Part 2A - New Assessments completed during the reporting period: **NONE TO REPORT**

Name of Group member or business unit or key activity or site:

Energy use of the entity during the current reporting period

	GJ
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Table 2.1 – Opportunities assessed to an accuracy of ±30% or better

Status of opportunities identified		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	
Outcomes of assessment*	Total Identified					
Business Response*	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					



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

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

Name of Group member or business unit or key activity or site: Transpacific Waste Solutions Homebush

Amount of energy assessed which generated the results below (and is reported in Table 1.2)

130,502	GJ
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Table 2.3 – Opportunities assessed to an accuracy of $\pm 30\%$ or better

Status of opportunities identified		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	
Outcomes of assessment*	Total Identified	3	720	280		1,001
Business Response*	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented	3	720	280	1	1,001

Table 2.4 - Opportunities assessed to an accuracy of worse than $\pm 30\%$

Status of opportunities identified		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	
Outcomes of assessment	Total Identified	1	40,000			40,000
Business Response	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented	1	40,000			40,000

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

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

Name of Group member or business unit or key activity or site: Transpacific Refiners Rutherford

Amount of energy assessed which generated the results below (and is reported in Table 1.2)

86,201	GJ
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Table 2.3 – Opportunities assessed to an accuracy of $\pm 30\%$ or better

Status of opportunities identified		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	
Outcomes of assessment*	Total Identified	2				
Business Response*	Under Investigation					
	To be Implemented	1	9,636			9,636
	Implementation Commenced					
	Implemented	1	4,032			4,032
	Not to be implemented					

Table 2.4 - Opportunities assessed to an accuracy of worse than $\pm 30\%$

Status of opportunities identified		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	
Outcomes of assessment	Total Identified					
Business Response	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					

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



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

Name of Group member or business unit or key activity or site: Nationwide Oil Wetherill Park

Amount of energy assessed which generated the results below (and is reported in Table 1.2)

204,780	GJ
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Table 2.3 – Opportunities assessed to an accuracy of $\pm 30\%$ or better

Status of opportunities identified		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	
Outcomes of assessment*	Total Identified					
Business Response*	Under Investigation	1		32,578		32,578
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					

Table 2.4 - Opportunities assessed to an accuracy of worse than $\pm 30\%$

Status of opportunities identified		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	
Outcomes of assessment	Total Identified					
Business Response	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					



Name of Group member or business unit or key activity or site: Transpacific Technical Services Adelaide

Amount of energy assessed which generated the results below (and is reported in Table 1.2)

78,556	GJ
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Note: There were no opportunities identified in the initial assessment. This site is due to be reassessed in the FY12 period.



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	
	<p><u>Transpacific Refiners Rutherford – Hydrogen Reformer optimisation and temperature reduction & increase cycle time of the Pressure Swing Absorber</u></p> <p>TPR Rutherford have been able to reduce the amount of natural gas used in the Hydrogen Reformer at its Rutherford refinery. The reformer uses natural gas to generate hydrogen which is used in the hydrogenation of recycled oil back into a base oil. Significant savings have been made by reducing the temperature of the reformer, as well as increasing the cycle time of the Pressure Swing Absorber (PSA). This project has been implemented.</p>
Opportunity 2	
	<p><u>Transpacific Refiners Rutherford - Recover waste heat from the Oil Rundown Cooler</u></p> <p>An opportunity was identified to recover waste heat from the Oil Rundown Cooler. By recovering heat from the outgoing hot oil and using it to preheat the cooler incoming oil, it is expected that natural gas consumption will be reduced by 9,636 GJ per annum. This project is to be implemented.</p>
Opportunity 3	
	<p><u>Nationwide Oil Wetherill Park – Replace main furnace</u></p> <p>It was determined that significant energy savings could be achieved by replacing the inefficient main furnace. The purpose of the main furnace is to heat thermal oil which then supplies heat to heat exchanges on the site. It was determined that the energy efficiency of the main furnace had degraded significantly since it was first commissioned in 1998, and that by replacing the furnace an estimated 32,578 GJ of energy could be saved per annum. This project is currently under investigation.</p>



Part 3 - Voluntary Contextual Information

Table 3.1 – Contextual Information

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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 ±30% or better (\$ 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	
Outcomes of assessment*	Total Identified					
Business Response*	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					



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 Title of Signatory here Kevin Campbell - CEO</p>