



PUBLIC REPORT

Controlling Corporation

Asciano Limited

Period to which this report relates

Start

01 JULY 2007

End

30 JUNE 2009

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

Assessments conducted in Asciano have targeted a site within the Patrick Container Ports business, and a type of locomotive in the Pacific National business. Most of Asciano's energy is used in transport equipment, and primarily in the operation of locomotives. As a result, Asciano's Pacific National business has conducted an initial assessment on a locomotive type to allow Asciano to develop methodologies and experience in how to best assess the energy use of locomotives. Energy metering on locomotives is not advanced and it is for this reason a limited subset of the locomotive fleet was investigated in this initial assessment, in order to overcome technical measuring and monitoring issues to ensure accurate energy use data.

The Patrick terminal investigated is one of a few sites that do not cross the energy use threshold for site investigation for EEO but due to their discrete and unique operational nature within the Asciano Group, these will undergo individual assessment.

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 undertaken ¹	Energy use per annum in GJ ² in the current reporting year
Pacific National – Coal Division	February 2009 to June 2009	1,094,994
Patrick – Container Ports	July 2008 to June 2009	203,528
Total energy assessed		1,298,522
Total energy use of the group in the current reporting year		14,988,042
Total energy assessed expressed as a percentage of total current energy use		8.66%

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.



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

Table 1.3 – Accuracy of energy use data

Entity	% achieved	Reasons for not achieving data accuracy to within $\pm 5\%$
Pacific National	Below +/- 5%	
Patrick	Below +/- 5%	



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

Part 2A - New Assessments completed during the reporting period

Name of Group member or business unit or key activity or site: **Pacific National**

Energy use of the entity during the current reporting period

10,798,586	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	2	57,487			57,487
Business Response*	Under Investigation	1	13,687			13,687
	To be Implemented					
	Implementation Commenced	1	43,800			43,800
	Implemented					
	Not to be Implemented					



Name of Group member or business unit or key activity or site: **Pacific National**

Energy use of the entity during the current reporting period

10,798,586	GJ
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Table 2.2 - Opportunities assessed to an accuracy of worse than ±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 – ≤4 years	> 4 years	
Outcomes of assessment	Total Identified	1	32,850			32,850
Business Response	Under Investigation	1	32,850			32,850
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					

Part 2A - New Assessments completed during the reporting period

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

Energy use of the entity during the current reporting period

4,189,456	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	22	14,418	3,634	43,839	61,891
Business Response*	Under Investigation	7	13,542	1,131		14,673
	To be Implemented	6	864	1,945		2,809
	Implementation Commenced					
	Implemented	3	12	360	0 ***	372
	Not to be Implemented	6		198	43,839	44,037

*** Implemented project with > 4 years payback is a system that monitors tyre pressure and by maintaining correct air pressure prevents additional energy use from poorly inflated tyres. As a preventative system, estimated energy savings have been assessed as zero.



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

Energy use of the entity during the current reporting period

4,189,456	GJ
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Table 2.2 - 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		926		926
Business Response	Under Investigation	1		926		926
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					



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
Turn off additional locomotives when the train is operating in the tare (unloaded/empty) direction
Opportunity 2
Reconfigure a terminal's internal network (HV) so as to capture regenerative energy from lowering containers on cranes
Opportunity 3
The use of energy efficient lighting for high mast head lighting in yard terminal areas



Part 4 - Declaration

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

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*.

Mark Rowsthorn - CEO