



TNT Australia Pty. Limited

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Energy Efficiency Opportunities Public Report

In December 2008 TNT Australia Pty Ltd (“TNT”) lodged with the Australian federal government Department of Resources, Energy and Tourism, in accordance with the *Energy Efficiency Opportunities Act 2006* and *Energy Efficiency Opportunities Regulations 2006*, a report of energy efficiency opportunities either implemented, being implemented or under investigation within TNT for the period 1 July 2007 through 30 June 2008. This government report summarises energy use for 95% of entities operating under the control of TNT, including TNT Express, TNT Sameday and Riteway Express. For information on the Energy Efficiency Opportunities programme visit <http://www.energyefficiencyopportunities.gov.au/>

Information contained within the government report and reflected here has been submitted by TNT using the Online System for Comprehensive Activity Reporting (OSCAR) established and maintained by the Department of Climate Change. OSCAR may be accessed system at <https://www.oscar.gov.au/>

Energy Use

TNT energy use data for the financial years 06-07 and 07-08, extracted directly from OSCAR, is appended below as Table 1. This data shows a reduction in energy use for the organisation of 63,027 GJ (11.9%) during FY07-08, achieved through a significant reduction in the volume of diesel, petrol and LPG consumed by TNT’s vehicle and forklift fleet.

Electricity use over the same period increased marginally (3.9%), although this was offset to some extent with the commencement in May 2008 of a contract for TNT to purchase 10% of its national electrical energy requirements from sustainable sources.

Table 1 – Reported energy use extracted from OSCAR

FY2006-2007	Quantity	Base unit	Tonnes CO2-e		
			Scope 1	Scope 2	Scope 3
Activities					
All Sectors					
Automotive diesel	10,704. kL	413,174.4	28,985.37	.	3,222.76
Automotive gasoline (petrol)	313. kL	10,704.6	765.02	.	83.5
Electricity	17,884,000. kWh	64,382.4	.	15,447.54	2,927.55
Liquefied Petroleum Gas	1,610. kL	41,776.19	2,548.38	.	325.85
Total for activities		530,037.59 GJ	32,298.77	15,447.54	6,559.66
Scope 1 & 2					47,746.32
Scope 1 & 2 & 3					54,305.97
Net emissions for FY2006-2007		530,037.59 GJ	32,298.77	15,447.54	6,559.66
Scope 1 & 2					47,746.32
Scope 1 & 2 & 3					54,305.97
Nett inventory for FY2006-2007		530,037.59 GJ	32,298.77	15,447.54	6,559.66



FY2007-2008	Quantity	Base unit	Tonnes CO2-e		
			Scope 1	Scope 2	Scope 3
Activities					
All Sectors					
Automotive diesel	9,215. kL	355,699.	24,827.79	.	2,332.26
Automotive gasoline (petrol)	221. kL	7,558.2	515.52	.	49.56
Electricity	18,587,732. kWh	66,915.84	.	16,628.4	3,212.33
Liquefied Petroleum Gas	1,406. kL	36,837.2	2,241.67	.	241.54
Total for activities		467,010.24 GJ	27,584.98	16,628.4	5,835.68
Scope 1 & 2					44,213.39
Scope 1 & 2 & 3					50,049.06
Net emissions for FY2007-2008		467,010.24 GJ	27,584.98	16,628.4	5,835.68
Scope 1 & 2					44,213.39
Scope 1 & 2 & 3					50,049.06
Nett inventory for FY2007-2008		467,010.24 GJ	27,584.98	16,628.4	5,835.68
Scope 1 & 2					44,213.39
Scope 1 & 2 & 3					50,049.06

Reported Energy Efficiency Opportunities

Assessments of TNT's operational activities throughout the reporting period have identified a number of opportunities within the organisation (Table 2) which have been reported through the Energy Efficiency Opportunities (EEO) program in accordance with legislated requirements. These opportunities are specific with quantifiable energy reduction outcomes in the areas of fuel and electricity usage which constitute the bulk of TNT's energy consumption. Other additional opportunities identified or implemented within TNT were not reported through EEO if an accurate determination of achievable energy savings was not possible. Examples include the introduction of video-conferencing equipment to reduce business air travel and rollout of eco-driving awareness training to reduce company and personal fuel use.

In reference to TNT Australia's vehicle fleet (87% of organisational energy use arising from the consumption of diesel, petrol and LPG) reported energy efficiency opportunities include;

- the continued introduction of diesel / electric hybrid trucks to complement the ten Hino hybrid trucks introduced in 2008,
- the ongoing retirement of remaining petrol powered small trucks and vans,
- consolidation of the national forklift fleet.

These initiatives are estimated to save 7,534 GJ of energy over the next four years and further contribute to energy savings already realised as a result of new vehicle introduction, stringent vehicle maintenance, eco-driving training, freight consolidation and network optimisation.

Opportunities for the reduction of electricity consumption at freight handling depots, TNT's other primary contributor to overall energy use, have also been identified and include;

- consolidation of three Adelaide depots into one facility,
- commissioning of a new 'green' depot at Canberra,
- introduction of various lighting efficiency solutions to select depots nationally,



- installation of electrical supply balancing equipment at depots identified as providing payback periods of less than four years.

Table 2 – Reported energy efficiency opportunities extracted from OSCAR

Data for inclusion in public report

Period : Jul 2007 to Jun 2008

Entities that have been assessed	Energy Use / Bandwidth (GJ)
Total Energy Use - All Entities Assessed	467,010.24
Total as a percentage of total energy use of the group covered by this report	95.00%

Depot Buildings ACT

Relocate Canberra depot to more energy efficient facility			4+ Years	Total estimate
Implemented	Opportunities 1	Accuracy 10%	234	234
Total			234	234

Depot Buildings SA

Consolidate three Adelaide depots into one facility			4+ Years	Total estimate
To Be implemented	Opportunities 2	Accuracy 10%	1,188	1,188
Total			1,188	1,188

Dubbo Depot

Install translucent sheeting skylights on depot roof			2 <= 4 Years	Total estimate
Implemented	Opportunities 1	Accuracy 5%	35.00	35.00
Total			35.00	35.00

Enfield Depot

Demand side electricity balancing and Lighting efficiency improvements			2 <= 4 Years	Total estimate
Under Investigation	Opportunities 2	Accuracy 5%	1,625	1,625
Total			1,625	1,625

Masoot Priority Depot

Lighting efficiency improvements			0 < 2 Years	Total estimate
Under Investigation	Opportunities 1	Accuracy 5%	825	825
Total			825	825

TNT Australia Head Office

Consolidation and replacement of computer servers			4+ Years	Total estimate
Implementation Commenced	Opportunities 1	Accuracy 10%	353	353
Total			353	353

Transport Fleet

Introduction of hybrid vehicles to small truck fleet			4+ Years	2 <= 4 Years	Total estimate energy saving per annum (GJ)
Replacement of petrol powered vehicles with diesel equivalents					
Consolidation of national forklift fleet					
Implementation Commenced	Opportunities 89	Accuracy 5%	2,294	0.00	2,294
Implemented	Opportunities 1	Accuracy 5%	0.00	5,240	5,240
Total			2,294	5,240	7,534

A further technical solution currently being implemented at TNT Head Office involves the replacement and consolidation of existing computer server banks with high capacity, energy efficient alternatives.

The combined energy saving anticipated from these listed opportunities over the coming four years totals 4,260 GJ; a 6.4% reduction in electrical energy use based on 2008 end of financial year data.

In addition, however, to opportunities reported through the EEO program, TNT will continue to actively manage activities consistent with its AS/NZS ISO 14001 certification and 'Planet Me' (see below) obligations. These activities include;



- provision of employee environmental awareness training,
- promotion of environmental initiatives via TNT's employee 'Wellbeing Program' (e.g. water conservation, energy efficiency, eco-driving, carbon offsetting, etc),
- waste minimisation and recycling,
- internal communication of relevant environmental news and information,
- support of community based environmental initiatives,
- alignment and cooperation with like minded corporate partners on environmental improvement projects.

'Planet Me' is TNT's internal programme to minimise the environmental impact and carbon footprint of its global operations, further information being obtainable from <http://www.tntplanetme.com/>

Declaration

The information included in this report is, to the best of my knowledge, correct and in accordance with current Energy Efficiency Opportunities legislation. Queries relating to the content of this report should be addressed to the undersigned.

A handwritten signature in black ink, appearing to read 'Graham Bruce', written in a cursive style.

Graham Bruce
General Manager, Corporate Social Responsibility & Quality

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