

FIRST PUBLIC REPORT

Controlling Corporation

Vinidex Pty Limited

Period to which this report relates

Start

1/7/06

End

30/6/08

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.

The monthly manufacturing reports provide details and trends on energy usage, providing thus the information required to assess ongoing progress toward energy efficiency. Energy indicators include electricity consumption in kWh and LPG consumption in litres per month.

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 $\pm 5\%$ **
Vinidex Pty Ltd	273,432 GJ	1%	
Total	273,432 GJ		
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

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%)	5		5	29,735	20%
	Identified (accuracy > ±30%)					
	**Total Identified	5		5	29,735	20%
***Business Response	Under Investigation	1		1	0.77	
	To be Implemented					
	Implementation Commenced	2		2	9,440	
	Implemented	2		2	20,294	
	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

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

Chilled Water System - Smithfield

Chilled water is used in the Extrusion Plant at the Smithfield plant to cool process water in spray tanks on each line. In financial year 07/08, a new chiller of 1000 kW capacity was commissioned to replace a 1991, 140kW model chiller to improve the efficiency of the plant allowing also for expansion of current system in future. The energy savings have been achieved by utilising the latest technology in ammonia refrigeration which is an environmentally friendly refrigerant, with a high coefficient of performance (cooling capacity/power unit).

The total cost of the project was over \$300,000 with forecast annual savings of 45 MWh in electricity, 42kW in summer peak demand and 30 kW in winter. That is equivalent of 48t of CO₂-e per annum. This project was also part of the Energy Savings Action Plan.

Opportunity 2 *

Southern Region Consolidation

In the year 2007/08, Vinidex merged two of its Melbourne pipe manufacturing operations. The Clayton operation closed down and moved to the Sunshine site. With the purchase of the adjacent land, the Sunshine site was able to accommodate all equipment and products from the Clayton site. Savings in energy was achieved through better utilisation of space and land, reducing need for transport and storage, streamlining management processes and operating new equipment of higher efficiency and throughput.

The savings could be easily demonstrated by comparing the energy and gas bills for two operations before and after the merger. It is estimated that energy usage was reduced by 20% while gas consumption went down by 13% from the previous year. That was equivalent to saving 20,000GJ in the first year.

Opportunity 3 **Efficiency of Top 10 Fittings

A program has commenced in our Moulding Operations to improve production efficiency of the highest volume fittings. The objective of the program is to increase equipment capacity by reviewing the number of allowable cavities in each die. The program includes modification of tooling, trialing and testing new temperature profiles, process conditions, flow rates and optimising cycle time to ensure quality is not affected by the changes.

In doing so, the efficiency of the plant will be improved, producing the same amount of fittings with less energy consumption. Anticipated to reduce energy by 300 kWh or about 1000 GJ.

*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:

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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*.


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