

FIRST PUBLIC REPORT TEMPLATE

Controlling Corporation

Tyco Water Pty Ltd

Period to which this report relates

(See sub-section 22(2) of the Act and Regulation 7.1 of the *Energy Efficiency Opportunities Regulations (the Regulations) 2006*)

Start July 1st 2007

End June 30th 2008

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.

In line with Tyco Water's assessment and reporting schedule submission, Tyco's Six Sigma DMAIC process has been used for identification of opportunities and implementation of projects identified and approved.

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 $\pm 5\%$ **
(see paragraph 1(a) of Schedule 4 of the Regulations)	(see paragraph 2 of Schedule 4 of the Regulations)	(see paragraph 5(a) of Schedule 4 of the Regulations)	(see paragraph 5(b) of Schedule 4 of the Regulations)
Yennora Ductile Iron Pipes	680,665 GJ		
Total	680,665 GJ		
Total as a percentage of total energy use of the group covered by this report	(see paragraph 1(b) of Schedule 4 of the Regulations)	60%	

* 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

(See paragraphs 3-6 of Schedule 4 and Schedule 6 of the Regulations)

Group member/business unit/key activity/site >0.5 PJ name: **Yennora Ductile Iron Pipe Plant**

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	52,500		52,500	<± 20%
	Identified (accuracy > ±30%)	1		23,000	23,000	± 50%
	**Total Identified	6	52,500	23,000	75,500	
***Business Response	Under Investigation	2	14,500	23,000	37,500	
	To be Implemented		1	1,000	1,000	
	Implementation Commenced	2	10,000	10,000		
	Implemented	1	17,000		17,000	
	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

(See paragraph 7 of Schedule 4 of the Regulations)

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

The daily start up and shutdown of heat treatment furnaces has been optimized. Start up was achieved by biasing energy input to zones with the lowest power density. Shutdown was automated in stages, following pipes through the heat treatment furnaces.

Opportunity 2 *

Ladle pre heating will be optimized by replacing inefficient burners, improving burner control and minimizing start up times consistent with achieving desired temperatures.

Opportunity 3 **

Oxygen injection into a hot blast cupola improves it's efficiency and reduces costs. A project has been commenced to optimize the levels of oxygen injection. Currently oxygen injection is 3% of blast volume

*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:

- Energy use and energy saved by energy type, as greenhouse gas emissions, as an indicator, or as an index;
- Energy savings achieved in the period 2000-2005;
- Opportunities with a greater than four year payback and the business response;
- Changes in total energy use/energy use indicator broken down to include causes of increase or decrease;
- Energy use and energy efficiency opportunities presented in dollars; and
- Other contextual information about the corporation's energy use and management.

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)