

## PUBLIC REPORT

### Part 1 - Corporation details

#### Period to which the report relates

Start Period

End Period

#### Controlling corporation

Insert the name of the controlling corporation exactly as it is registered with the EEO Program.

NRG Victoria 1 Pty Ltd

### Table 1.1 - Major changes to corporate group structure or operations

#### Table 1.1 – Major changes to corporate group structure or operations in the last 12 months

Nil.

### Declaration

#### Declaration of accuracy and compliance

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*. All opportunities have been assessed to a level of accuracy that is commensurate with the financial investment required for implementation.



Stephen Lewis  
Director NRG Victoria 1 Pty Ltd

Date *13 JAN 2014*

## Part 2 - Assessment outcomes

It is compulsory to complete Tables 2.1 to 2.3 for each entity (subsidiary, business unit, key activity or site) that has been assessed.

**Table 2.1 – Assessment details**

Name of entity	Gladstone Power Station		
A. Total corporate energy use in the last financial year		65,826,056	GJ
B. Total energy use covered by assessments		17,332,513	GJ
C. Total percentage of energy use assessed (B ÷ A) x 100		26.3	%

**Description of the way in which the entity carried out its assessment:**

NRG Victoria 1 Pty Ltd, through the operating company NRG Gladstone Operating Services Pty Ltd undertook the following actions, in alignment with the approved Assessment Plan for Gladstone Power Station. NRG received late approval of its Assessment Plan and is working to complete assessments in a timely manner, having established EEO reporting and analysis systems.

KE1. Leadership – Reporting of EEO activities was performed at monthly management meetings.

KE2. People – The EEO Intranet site was established including the register of ideas, opportunities and team members.

KE3. Information, Data and Analysis – Reporting of data and trends relating to processes and energy continued. Additional PI software and tools to assist in the analysis and reporting of energy and process data was established for ongoing assessments.

KE4. Opportunity Identification and Evaluation – A large cross sectional workshop was conducted to assess site wide energy use, opportunities for energy efficiency improvements and usage reductions. This generated in excess of 250 ideas, which are currently being grouped, prioritised and scheduled. Detailed re-assessment will follow for selected opportunities (nominally short payback periods), with recommendations generated for management review.

KE5. Decision Making – A business system and process to track and record EEO opportunities was established and is being used to support the decision process, and recommendations are put forward for management approval and response.

KE6. Communicating Outcomes – EEO activities are currently communicated internally via the Intranet and site alerts. Reporting to the facility owners of EEO activities is in the Annual Report.

**Table 2.2 - Energy efficiency opportunities identified in the assessment**

Status of opportunities identified		Total Number of opportunities	Total estimated energy savings per annum (GJ)
Business response	Implemented	1	95
	Implementation commenced	1	9,536
	To be implemented	1	18
	Under investigation	20	TBD
	Not to be implemented	1	17,098,400
Outcomes of assessment	Total identified	24	TBD

Please note that corporate groups are not required to report opportunities with a payback greater than four years. Reporting this data is voluntary.

**Table 2.3 - Details of significant opportunities identified in the assessment**

It is compulsory to report at least 1 example of a significant opportunity for improving the energy efficiency for the controlling corporation that has been identified in assessments. If a corporation has structured assessments to relate to business units or key activities they should report one significant opportunity for each of those entities to which the assessment applies.

Description of opportunity No. 1	Type of information to be covered
<p>Condenser Online Tube Cleaning System. System to clean scale, deposits and biofilms off the condenser tubes, improving overall heat transfer capability and unit cycle efficiency. Similar systems are installed at other Power Stations, but lower than average capacity factors and additional risks due to loss of cleaning balls to the environment does not support this opportunity.</p>	<p>Equip. Type - Condenser cleaning system Bus. Response - Not to be implemented Energy saved (GJ) – 17,098,400 Greenhouse gas abated (CO2-e) – Nil \$ saved – Nil Payback period - ~4 Years</p>

Description of opportunity No. 2 – voluntary	Type of information to be covered
<p>Replacement of stack obstacle lighting. Light fixtures with incandescent bulbs were previously used and have been replaced with new fixtures and LED elements. New lights and elements are more intense and use &gt;80% less power, with a longer operating life.</p>	<p>Equipment type – Obstacle lightings Business response – Implemented Energy saved (GJ) – 95.4GJ/year Greenhouse gas abated (CO2-e) - TBC \$ saved - ~\$1400/year Payback period - &gt;4 years</p>

Description of opportunity No 3 – voluntary	Type of information to be covered
	<p>Equipment type Business response Energy saved (GJ) Greenhouse gas abated (CO2-e) \$ saved Payback period</p>

Please note that the *Description of opportunity* above should include information on the specific nature and type of opportunity as well as information on the type of equipment and/or process involved.

### Part 3 - Transition to second cycle

**(This part should only be completed by 2006-07 trigger year corporations transitioning to the second cycle.)**

**Table 3a – Details of business response to opportunities under investigation as at 30 June 2012**

In December 2012, many corporations reported energy efficiency opportunities that were still under investigation as at 30 June 2012. This report should advise what your business response to these opportunities has been—implemented or not to be implemented. If you intend to further investigate these opportunities, they should be reported in the future public reports as opportunities identified in the second cycle.

For each entity that had energy efficiency opportunities that were still under investigation as at June 2012, please complete the following table.

Name of entity	Status of opportunities identified to an accuracy of better than or equal to ±30%	Total number of opportunities			Estimated energy savings per annum by payback period (GJ)		Total estimated energy savings per annum (GJ)
		No of Opps	GJ	No of Opps	GJ	No of Opps	
As reported in December 2012	Under investigation						
Business response as at 30 June 2013	Implemented						
	Not to be Implemented						
	To be evaluated/reported in the second cycle						

**Not Applicable**  
**1st Cycle**