

## PUBLIC REPORT TEMPLATE

### Controlling Corporation

Crown Limited

### Period to which this report relates

Start 1 July 2008

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**

Crown Limited has continued to undertake planned assessments over the reporting period. Assessments for the following areas were completed and results are reported in Part 2A of this report.

- Crown Melbourne Limited – Entertainment and Retail Complex
- Burswood Nominees Limited - Entertainment Complex

Crown Limited is in the process of implementing and further investigating opportunities identified in the first assessment. Opportunities for the following areas are reported in Part 2B of this report.

- Crown Melbourne Limited – Crown Towers Hotel and Crown Promenade Hotel
- Burswood Nominees Limited – Intercontinental Hotel and Holiday Inn



**Table 1.2 – Energy use assessed**

<b>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.</b>	<b>Period over which assessment was undertaken<sup>1</sup></b>	<b>Energy use per annum in GJ<sup>2</sup> in the current reporting year</b>
Crown Melbourne Limited – Entertainment and Retail Complex	1 July 2008 to 30 June 2009	622,993
Burswood Nominees Limited - Entertainment Complex	1 July 2008 to 30 June 2009	99,650
Crown Melbourne Limited – Crown Towers Hotel and Crown Promenade Hotel	1 July 2008 to 30 June 2009	121,648
Burswood Nominees Limited - Intercontinental Hotel and Holiday Inn	1 July 2008 to 30 June 2009	96,039
<b>Total energy assessed</b>		940,330
<b>Total energy use of the group in the current reporting year</b>		1,039,659
<b>Total energy assessed expressed as a percentage of total current energy use</b>		90%

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)

<b>Table 1.3 – Accuracy of energy use data</b>		
<b>Entity</b>	<b>% achieved</b>	<b>Reasons for not achieving data accuracy to within <math>\pm 5\%</math></b>
Crown Melbourne Limited (Total)	within 5%	
Burswood Nominees Limited (Total)	within 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: Crown Melbourne Limited – Entertainment and Retail Complex

Energy use of the entity during the current reporting period

622,993	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	8	54	1,764	2,915	4,733
Business Response*	Under Investigation	na	na	na	na	na
	To be Implemented	5	54	1,764	na	1,818
	Implementation Commenced	na	na	na	na	na
	Implemented	na	na	na	na	na
	Not to be Implemented	3	na	na	2,915	2,915

Name of Group member or business unit or key activity or site: Crown Melbourne Limited – Entertainment and Retail Complex

Energy use of the entity during the current reporting period

622,993	GJ
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**Table 2.2 - Opportunities assessed to an accuracy of less 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 – ≤ 4 years	> 4 years	
Outcomes of assessment	Total Identified	26	na	na	44,041	44,041
Business Response	Under Investigation	15	na	na	31,241	31,241
	To be Implemented	na	na	na	na	na
	Implementation Commenced	na	na	na	na	na
	Implemented	na	na	na	na	na
	Not to be Implemented	11	na	na	12,801	12,801

Name of Group member or business unit or key activity or site: Burswood Nominees Limited - Entertainment Complex

Energy use of the entity during the current reporting period

99,650

GJ

**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	7	3,969	na	na	3,969
Business Response*	Under Investigation	4	423	na	na	423
	To be Implemented	3	3,546	na	na	3,546
	Implementation Commenced	na	na	na	na	na
	Implemented	na	na	na	na	na
	Not to be Implemented	na	na	na	na	na

Name of Group member or business unit or key activity or site: Burswood Nominees Limited - Entertainment Complex

Energy use of the entity during the current reporting period

99,650	GJ
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**Table 2.2 - Opportunities assessed to an accuracy of less 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 – ≤ 4 years	> 4 years	
Outcomes of assessment	Total Identified	8	na	na	4,027	4,027
Business Response	Under Investigation	3	na	na	2,656	2,656
	To be Implemented	2	na	na	na	na
	Implementation Commenced	1	na	na	1,371	1,371
	Implemented	na	na	na	na	na
	Not to be Implemented	2	na	na	na	na

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

A number of opportunities reported in the previous period have changed accuracy classification due to subsequent review of the opportunities.

### Part 2B - Update of assessments originally reported in previous reporting periods

Name of Group member or business unit or key activity or site: Crown Melbourne Limited – Crown Towers Hotel and Crown Promenade Hotel

Energy use of the entity during the current reporting period

121,648	GJ
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**Table 2.3 - 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	3	971	na	na	971
Business Response*	Under Investigation	na	na	na	na	na
	To be Implemented	na	na	na	na	na
	Implementation Commenced	2	698	na	na	698
	Implemented	1	273	na	na	273
	Not to be Implemented	na	na	na	na	na

Name of Group member or business unit or key activity or site: Crown Melbourne Limited – Crown Towers Hotel and Crown Promenade Hotel

Energy use of the entity during the current reporting period

121,648	GJ
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**Table 2.4 - Opportunities assessed to an accuracy of less 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	20	5,592	1,423	2,582	9,597
Business Response*	Under Investigation	2	na	1,279	317	1,596
	To be Implemented	4	na	na	na	na
	Implementation Commenced	3	38	na	na	38
	Implemented	3	3,037	na	na	3,037
	Not to be Implemented	8	2,516	144	2,265	4,925

Name of Group member or business unit or key activity or site: Burswood Nominees Limited - Intercontinental Hotel and Holiday Inn

Energy use of the entity during the current reporting period

96,039	GJ
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**Table 2.3 - Opportunities assessed to an accuracy of  $\pm 30\%$  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 – $\leq$ 4 years	> 4 years	
Outcomes of assessment*	Total Identified	na	na	na	na	na
Business Response*	Under Investigation	na	na	na	na	na
	To be Implemented	na	na	na	na	na
	Implementation Commenced	na	na	na	na	na
	Implemented	na	na	na	na	na
	Not to be Implemented	na	na	na	na	na

Name of Group member or business unit or key activity or site: Burswood Nominees Limited - Intercontinental Hotel and Holiday Inn

Energy use of the entity during the current reporting period

96,039	GJ
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**Table 2.4 - Opportunities assessed to an accuracy of less 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	39	6,418	26	136	6,579
Business Response*	Under Investigation	8	1,659	na	na	1,659
	To be Implemented	8	3,712	na	na	3,712
	Implementation Commenced	5	80	na	16	96
	Implemented	10	953	na	na	953
	Not to be Implemented	8	14	26	120	160

## 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**

**Crown Melbourne Limited – Entertainment and Retail Complex - Lighting Review**

A large proportion of the sites lighting levels are set by control systems. Over time, some of these systems have been modified and lighting levels are now operating inefficiently.

This opportunity will include replacement of the control systems and commissioning of lighting levels to achieve design conditions. This will save energy by providing more efficient lighting and improve the feel of the occupied space.

The scope of works is to include the whole site.

**Crown Melbourne Limited – Entertainment and Retail Complex - Air Change Rates Review**

Air conditioning systems have been designed to maintain high standards of air quality within the space. To achieve high air quality standards, large volumes of air are circulated within the occupied space. Due to changes in building design and use it is likely that these air volumes can be reviewed and reduced while still achieving the air quality standards.

Energy saving will come from reductions in air quantities. The scope will focus on air conditioning units serving the gaming areas.

**Burswood Nominees Limited - Entertainment Complex – Chiller Controls**

In October 2009, new centrally located chillers have been installed to provide cooling for the Casino and Hotels. These chillers are of higher efficiency and capacity to the original chillers. There is an opportunity to re-assess the original chiller sequencing and operation to ensure the most efficient combination of chillers are running to meet the buildings cooling loads.

The optimisation process will include :

- Selecting the most efficient chiller(s) to operate under the prevailing cooling demand
- Varying chiller operating parameters (e.g. chilled water temperature, condenser water temperature) to suit the prevailing conditions
- Monitoring flows and temperatures and trending energy use as part of an ongoing “tuning” process

## Part 3 - Voluntary Contextual Information

**Table 3.1 – Contextual Information**

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**Table 3.2 – Energy use expressed in Greenhouse Gas emissions and as an energy use indicator**

Period of energy use \_\_\_\_\_ to \_\_\_\_\_

Name of group member/ business unit/ key activity/site	Energy use pa (GJ)	Energy use pa (GGE)	Energy use as an indicator*
<b>Total</b>			


**Table 3.3 - Opportunities assessed to an accuracy of ±30% or better (\$ value)**

Status of opportunities identified		Number of opportunities	Estimated energy savings per annum by payback period (\$)			Total estimated energy savings per annum (\$)
			0 – < 2 years	2 – ≤ 4 years	> 4 years	
Outcomes of assessment*	Total Identified					
Business Response*	Under Investigation					
	To be Implemented					
	Implementation Commenced					
	Implemented					
	Not to be Implemented					

### Part 3 - Voluntary Contextual Information (continued)

Table 3.4 – Changes in energy use as an indicator			
Name of group member/ business unit/ key activity/site	Current energy use as an indicator	Previous energy use as an indicator	Reasons for change
<b>Total</b>			

### 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 <i>Energy Efficiency Opportunities Act 2006</i> and <i>Energy Efficiency Opportunities Regulations 2006</i> .	
	Insert Title of Signatory here      CEO