



## FIRST PUBLIC REPORT TEMPLATE

### Controlling Corporation

Tabcorp Holdings Limited

### 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

1 July 2006

End

30 June 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.**

During the period of 2007-2008, Tabcorp conducted a series of assessments across each of its four casino properties:

- Star City – Sydney
- Conrad Jupiters – Gold Coast
- Conrad Treasury – Brisbane
- Jupiters Townsville - Townsville

Combined, these businesses represent Tabcorp's Casinos Division and account for approximately 80% of Tabcorp's total energy consumption.

Assessments undertaken to date have been thorough and comprehensive and to the best of our knowledge, have complied with the intent and key requirements of the Energy Efficiency Opportunities legislation. The assessment process at each site has involved multi-disciplinary teams including representatives from site management, engineering, corporate, compliance as well as external energy consultants. The assessment process included:

- Analysis of energy usage
- Identification of energy saving opportunities
- Evaluation of identified energy saving opportunities with regards to cost and savings both in energy and operating expense
- Communication of opportunities to relevant staff for further action

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 $\pm 5\%$ **
<b>Tabcorp Casinos Division</b>	<b>616,682 GJ</b>	<b><math>\pm 5\%</math></b>	
<b>Total</b>	<b>616,682 GJ</b>		
<b>Total as a percentage of total energy use of the group covered by this report</b>	<b>80%</b>		

\* 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: Tabcorp Casinos Division

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	> 4 years		
Outcomes of assessment	Identified (accuracy ≤±30%)	9*	3,229	8,606	2,198	14,033	±30%
	Identified (accuracy > ±30%)						
	**Total Identified	9*	3,229	8,606	2,198	14,033	±30%
***Business Response	Under Investigation	7	3,229	8,606	-	11,835	±30%
	To be Implemented						
	Implementation Commenced						
	Implemented						
	Not to be Implemented						

\*Note 2 of the opportunities do not fall within the EEO program requirements as they have a payback period of more than 4 years

\*\*You must ensure that this row is the sum of the two rows above it.

\*\*\* The total of the data contained in the business response area is different to that contained in the 'Total Identified' row due to the 2 opportunities that fall outside of the EEO program requirements.

**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\***

**Site Assessed: Star City – Sydney**

**Opportunities identified, analysed and costed:**

- Sub-metering of entire site to measure consumption of energy within the individual areas / departments within the property. This will enable greater analysis of energy consumption and allow the property to develop targeted energy saving projects.
- Installation of a Chiller Efftrack system to reduce water consumption of air-conditioning chillers. This will have a flow on savings in energy consumption through reduced demand on pumps and other equipment within the chillers.

**Status of opportunities: Under investigation**

**Project implementation cost: \$514,723**

**Energy cost savings:**

- Energy reduction of 1,898,600 kWh per annum\*
- Equivalent to CO<sub>2</sub> greenhouse gas emissions reduction of 2 Mt/ CO<sub>2-e</sub>
- Energy cost savings of \$151,888 per annum\*

*\*Cost and savings figures indicated are for opportunities with less than or equal to 4 years payback*

**Other opportunities identified – to be reviewed further for potential inclusion into EEO program**

- Lighting control for unoccupied areas
- Day-lighting technology (PE Cells, movement sensors, LED Lighting)
- Efficient use of chillers based on staging strategies relevant to load demand
- Variable speed drives on cooling tower fans

**Opportunity 2\*****Site Assessed: Conrad Jupiters – Gold Coast****Opportunities identified, analysed and costed:**

- Sub-metering of entire site to measure consumption of energy within the individual areas / departments within the property. This will enable greater analysis of energy consumption and allow the property to develop targeted energy saving projects.
- Power Factor correction project - which is aimed at reducing “distribution loss” of electricity throughout the Conrad Jupiters property. As there is reduced “loss” of electricity over the property, less electricity needs to be purchased.

**Status of opportunities: Under investigation****Project implementation cost: \$ 290,810****Energy cost savings:**

- Energy reduction of 868,377 kWh per annum\*
- CO<sub>2</sub> greenhouse gas emissions reduction of 903,112 kg CO<sub>2-e</sub>
- Energy cost savings of \$ 69,470 per annum\*

*\*Cost and savings figures indicated are for opportunities with less than or equal to 4 years payback*

**Other opportunities identified – to be reviewed further for potential inclusion into EEO program**

- Lighting control for unoccupied areas (e.g. Plant rooms)
- Day-lighting technology (PE cells, movement sensors, LED Lighting)
- Efficient use of chillers based on staging strategies relevant to load demand
- Variable speed drives on car park exhaust fans
- Optimise temperature set-points, time schedules

**Opportunity 3\*****Site Assessed: Conrad Treasury Casino****Opportunities identified, analysed and costed:**

- Sub-metering of entire site to measure consumption of energy within the individual areas / departments within the property. This will enable greater analysis of energy consumption and allow the property to develop targeted energy saving projects.
- Installation of a Chiller Efftrack system to reduce water consumption of air-conditioning chillers. This will have a flow on savings in energy consumption through reduced demand on pumps and other equipment within the chillers.

**Status of opportunities: Under investigation****Project implementation cost: \$215,275****Energy cost savings:**

- Energy reduction of 821,776 kWh per annum\*
- CO2 greenhouse gas emissions reduction of 854,647 kg CO2-e
- Energy cost savings of \$ 65,742 per annum\*

*\*Cost and savings figures indicated are for opportunities with less than or equal to 4 years payback*

**Other opportunities identified – to be reviewed further for potential inclusion into EEO program**

- Lighting control for unoccupied areas
- Day-lighting
- Efficient use of chillers based on staging strategies relevant to load demand
- Variable speed drives on cooling tower fans
- Variable speed drives on car park exhaust fans

**Opportunity 4\*****Site Assessed: Jupiters Townsville Casino****Opportunities identified, analysed and costed:**

- Sub-metering of entire site to measure consumption of energy within the individual areas / departments within the property. This will enable greater analysis of energy consumption and allow the property to develop targeted energy saving projects.

**Status of opportunities: Under investigation****Project implementation cost: \$ 98,100****Energy cost savings:**

- Energy reduction of 309,565 kWh per annum\*
- CO<sub>2</sub> greenhouse gas emissions reduction of 321,947 kg CO<sub>2-e</sub>
- Energy cost savings of \$ 24,765 per annum\*

\*Cost and savings figures indicated are for opportunities with less than or equal to 4 years payback

**Other opportunities identified – to be reviewed further for potential inclusion into EEO program**

- Lighting control for unoccupied areas
- Day-lighting opportunities
- Review chillers staging strategies relevant to load demand
- Review chiller set-points
- Variable speed drives on cooling tower fans, car park fans, pumps, etc.

\*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 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 to the best of my knowledge, is correct and in accordance with the *Energy Efficiency Opportunities Act 2006* and *Energy Efficiency Opportunities Regulations 2006*.



Kerry Willcock – Executive General Manager – Corporate & Legal – Tabcorp Holdings Limited