



## **Crown Resorts Environmental Initiatives FACT SHEET**

Crown Resorts' vision for the environment is to be a leader in sustainable business practices in the entertainment and hospitality industry. As a result Crown has implemented a significant number of initiatives aimed at reducing its environmental impact without compromising the comfort of its guests. The ongoing sustainability commitment focuses on three key pillars;

- Energy efficiency
- Water conservation
- Life-cycle management

The goal is to continue to develop, implement and promote programs to reduce Crown's environmental footprint by:

- Creating an awareness of the need for change amongst employees, customers, contractors and the community.
- Partnering with experts to adopt new ways of responding to environmental sustainability challenges.
- Introducing new strategies, technologies, systems, practices, procedures and programs to deliver sustainable reductions in energy and water usage and waste generation.
- Using state-of-the-art technology allowing comprehensive monitoring and reporting and providing live data for measuring, electricity, gas and water consumption across resorts.

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<p>Water Management</p>	<p>Since 2005, Crown Resorts have made significant investments in water saving initiatives. These include:</p> <ul style="list-style-type: none"><li>• Rainwater harvesting and reuse for toilet flushing, irrigation and external washing of buildings at Crown Melbourne, saving over 6 million litres per year.</li><li>• New showerheads fitted into back of house and guest room showers reducing usage from approximately 15 litres per minute to 9 litres per minute.</li><li>• Platypus valves installed into hand basins reducing water usage from approximately 9 litres per minute to 3.5 litres per minute.</li><li>• Water efficient irrigation via use of artificial turf, sub-surface soaker hoses, water tolerant plants, and reuse of organic waste as mulch for gardens.</li><li>• Dual flush female toilets across resorts. Introduction of a bore water project at Crown Perth to provide irrigation to two hectares of parks and gardens saving 15,000 Kilolitres of water each year.</li><li>• Cards in rooms to encourage guests to reuse towels.</li></ul>
<p>Energy Management</p>	<p>Crown has made significant investment in energy efficiency since 2007. Initiatives include:</p> <ul style="list-style-type: none"><li>• High-efficiency, variable speed cooling systems, full heat recovery heating systems, cogeneration for hot water production.</li><li>• Upgraded LED lighting throughout all hotels and the Crown Entertainment complex.</li><li>• Auto controls and monitoring to all external lighting.</li><li>• Energy saving key tags in all hotel guest rooms to ensure automatic switch-off of power when keys are removed from the slot</li><li>• Time management of air conditioning plants.</li><li>• Operation of natural gas tri-generation plant at Crown Melbourne saves over 25,000 tonnes of greenhouse emissions annually.</li></ul> <p>In March 2012, Crown Melbourne completed its largest energy efficiency project to date with the upgrade of the Crown Promenade Hotel. With funding assistance from AusIndustry through the Green Building Fund, the project</p>

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aimed to reduce greenhouse gas emissions by 3 million kg CO<sub>2</sub>, which amounts to a 22% reduction. To achieve this, Crown replaced more than 9,000 lights with LED and fluro technology, optimised heating, cooling and ventilation control, and improved housekeeping and maintenance procedures. Crown has consistently exceeded its target, as the project has achieved a 25% reduction in greenhouse gas emissions.

<b>Waste Management</b>	<p>Life Cycle Management (LCM): is an integrated concept used by Crown to manage the total life cycle of its products and services and create more sustainable consumption and production patterns. This involves working with suppliers on how products are made and distributed, their employees and customers in how products are consumed, and their waste management contractors in how products are disposed of.</p> <ul style="list-style-type: none"><li>• Crown recycled more than 80% of the construction and demolition waste during the Crown Towers upgrade in 2008.</li><li>• Computers, monitors, keyboards, cables and other accessories are all collected for recycling. Certificates of data destruction and environmentally friendly disposal are provided by ITDL and Green Hearts</li><li>• In 2011 Crown introduced a soft plastic recycling scheme whereby all plastic wrapping that arrives in the loading dock is collected on a daily basis and recycled into items such as outdoor furniture and signage.</li><li>• Polystyrene waste collected on a daily basis and diverted to a recycling facility where it is crushed, melted and reused as office stationery.</li></ul> <p>Crown encourages recycling via custom made recycling bins for food waste, general waste, co-mingled recycling, cardboard and paper diverting waste from landfill. This includes:</p> <ul style="list-style-type: none"><li>• Cardboard</li><li>• Paper</li><li>• Cooking oil</li><li>• Glass</li><li>• Tins</li></ul>
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	<ul style="list-style-type: none"> <li>• Polystyrene</li> <li>• Plastic wrap</li> <li>• Batteries</li> <li>• Fluorescent tubes and discharge lamps</li> <li>• Timber</li> <li>• Steel</li> <li>• Electronics</li> </ul>
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Carbon Offset Scheme	<p>In partnership with Climate Friendly, Crown introduced a Carbon Offset program for guests in April 2012. This program subsequently achieved certification under the Australian Government's National Carbon Offset Standard – a first in the hospitality and tourism industry. When a guest voluntarily offsets their hotel stay, function, or conference event, Crown offsets their emissions by purchasing carbon credits in wind farm projects. The ability to opt in to this program is offered on check in registration cards, group contracts and on the reservations website.</p> <p>For more information and full costs visit:  <a href="http://www.crownmelbourne.com.au/carbon-offset-program">www.crownmelbourne.com.au/carbon-offset-program</a></p>
Food Wastage	<p>A significant proportion of landfill waste compromises of organic waste (at times up to 70%). With this in mind Crown identified an opportunity to significantly reduce waste through the collection of food wastage from kitchens which can be used for composting. The waste collection system diverts 750 tonnes of food waste from landfill each year collected from staff and commercial kitchens.</p>
Environmental Awareness	<ul style="list-style-type: none"> <li>• Earth Hour is a worldwide event that uses the simple action of turning off the lights for one hour to deliver a powerful message about the need for action on global warming. To show support during Earth Hour (31 March 2013), lights in the hotel restaurant were dimmed and non-essential lighting within the hotel was either dimmed or turned off. Guests were encouraged to participate by turning off non-essential lights in their room.</li> <li>• Eco Shoots Group is an initiative developed in 2011 by a team of passionate Crown staff the group supports environmental campaigns within Crown. Researching initiatives/projects, markets and communicates their ideas, runs promotions and then assesses their success.</li> </ul>

For more information visit [www.crownenvironment.com.au](http://www.crownenvironment.com.au)

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