

Australia's first 5 Green Star building designed in Canberra, built in Canberra.

5 Green Star Accreditation for 8 Brindabella Circuit

8 Brindabella Circuit is the first building in Australia to be formally accredited under the Green Building Council of Australia's Green Star rating. This building reaches the level of 5 Green Stars – the highest rating yet achieved.

Green Star

The Green Star rating is the most comprehensive rating system established in Australia. This building incorporates reductions in energy consumption, but importantly also incorporates much stricter criteria relating to a wider range of greenhouse and other environmental impacts including water conservation, material selection, waste management, ventilation, daylighting, noise levels, avoidance of Volatile Organic Compounds (VOCs) and transport options such as public transport, cycle and shower facilities.

Green Star is supported by industry and government. The Property Council of Australia, the Australian Government, most state governments and industry representatives, including Canberra International Airport, are members of the Green Building Council of Australia, who have created the rating system.

8 Brindabella Circuit

To achieve the Australian first of a 5 Green Star rating, 8 Brindabella Circuit has had to achieve the highest level of energy savings, as well as innovate in other areas.

This building achieves a number of firsts for commercial buildings in Australia. Some of the achievements are:

- Over 45% reduction in CO₂ emissions and energy consumption. This building is modelled to exceed the highest level of 5 stars under the Australian Building Greenhouse Rating (ABGR) system (ABGR rates energy only);
- 50% reduction in potable water usage;
- 100% of water used for irrigation is recycled or non-potable groundwater;
- Over 80% of waste by weight in construction is reused or recycled;
- Over 90% recycled steel content;
- Over 30% recycled concrete content;
- 100% recycled timber content;
- 100% outside air ventilation rates, exceeding AS1668.2 requirements by 185%;
- Progressive elimination of PVC (Polyvinyl chloride), to be largely replaced with HDPE (High Density Polyethylene);
- Use of low or no Volatile Organic Compounds (VOCs) compounds in all indoor materials. VOCs are toxic substances which contribute to "sick building syndrome";
- Use of active chilled-beam technology and in-slab hydronic heating and cooling;
- Digital frequency lighting ballasts for energy savings and reduced light flicker;
- Modelled internal noise levels to ensure minimal noise intrusions;
- Solar hot water heating and solar powered control systems.



8 Brindabella Circuit Fact File

- What: A 3 storey building comprising:
- 4,040 square metres of lettable floor space on 3 floors
 - 273m square metres of space for 3 retail stores
- Where: 8 Brindabella Circuit
Brindabella Business Park
Canberra International Airport
- Owner: Canberra International Airport



Our commitment to the building of a sustainable commercial environment acknowledged and awarded!



Green Building Council of Australia Limited ABN 43 100 789 937

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Canberra International Airport Reference

Canberra International Airport has confirmed its commitment to sustainable development objectives and has shown outstanding leadership in the demonstration of green building initiatives.

In 2004 the Green Building Council of Australia awarded 8 Brindabella Circuit with the first project in Australia to achieve a 5 Green Star rating representing 'Australian Excellence'.

This building's achievements are many - a summary is:

- Over 45% reduction in greenhouse gas emissions and energy consumption. This building is modelled to exceed the highest level of 5 stars under the Australian Building Greenhouse Rating (ABGR) system (ABGR rates energy only);
- 50% reduction in potable water consumption;
- 100% of water used for irrigation is recycled or non-potable groundwater;
- Over 80% of waste by weight in the building;
- Over 90% recycled steel content in the building;
- 30% recycled concrete content in the building;
- 100% recycled timber content in the building;
- 100% outside air ventilation rates, exceeding the Australian Standard requirements by 185%;
- Progressive elimination of PVC (Polyvinyl chloride), largely replaced with HDPE (High Density Polyethylene);
- Use of low or no Volatile Organic Compounds (VOCs) compounds in all indoor materials. VOCs are toxic substances which contribute to "sick building syndrome symptoms";
- Use of active chilled-beam technology and in-slab hydronic heating and cooling;
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Canberra International Airport deserves recognition not only for the achievements of this project but for its role in being advocates for change and investing time, energy and skill into the communication of the need for change and the benefits of building green.

The Airport shares its knowledge and lessons learnt, invests locally in practitioners and suppliers and fosters a 'can do culture'. It is my experience that not only does Canberra International Airport have a strong commitment to minimizing the environmental impact of development and maximizing building and infrastructure efficiency it is a national leader in the implementation of green building and infrastructure innovation.

Canberra International Airport has a corporate commitment to ensuring every development is improved in efficiency and sensitivity to the surrounding environment while creating healthy environments to work within. The Airport at Brindabella Business Park has demonstrated vision by including social infrastructure such as child care and health and fitness facilities and alternative transport services. In this way the Airport is leading the charge to ensure environmental initiatives are realized for the ACT.

Canberra International Airport has also developed quality office buildings and services that have achieved 'excellence' in greenhouse gas emission abatement. Buildings under their ownership and management have achieved a 4.5 star 'excellent' rating under the national Australian Building Greenhouse Rating scheme. The Airport has also adopted an Environmental Management System for the management of all environmental aspects across the Airport.

I commend the achievements of 8 Brindabella Circuit and the ongoing commitment by Canberra International Airport to construct and operate its business in ways that enhance the impact on the environment and on the building occupants.

Yours Sincerely

Maria Atkinson
Executive Director



Brindabella
Business Park