



CH2: Council House 2

Address: 200 Little Collins Street Melbourne

Owner: Project Management & Design: City of Melbourne,

Design: Advanced Environmental Concepts, Lincolne Scott, DesignInc

Construction: Hansen Yuncken

CH2 is Australia's first Green Star rated building to be awarded 6 Stars which carries a "international leadership" status. This 10 story office building with ground floor retail spaces has an NLA of 8,870m² and cost \$29.9 million for the base building. An additional \$11.3 million was invested in sustainability features which are expected to deliver a 10 year payback. CH2 will provide healthy and productive workplaces for its occupants whilst reducing the building's impact on the environment through excellence in design and innovation. healthier buildings that improve occupant health and well being.

Water

- 72% reduction in mains water consumption compared to the existing Council House of similar size
- Multi-Water Reuse (MWR) sewer mining plant
- Sprinkler water reclaim and rainwater collection
- 4A rated fittings

Materials

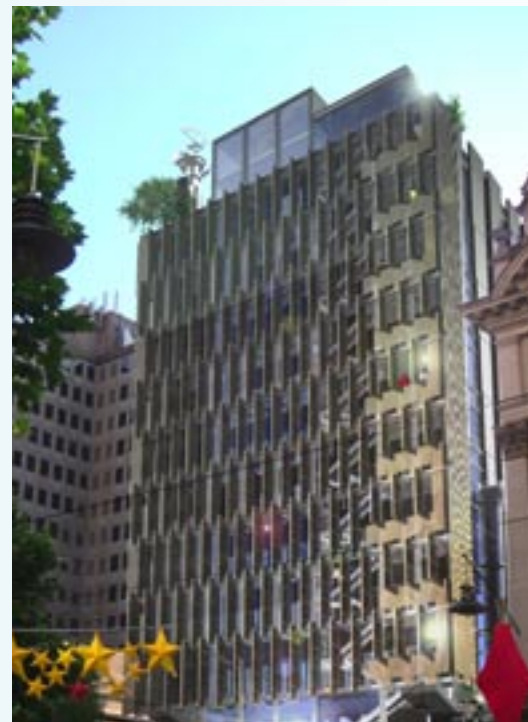
- Recycling facilities for office waste
- PVC minimisation
- Sustainably sourced timber
- Fully integrated with fitout.

Transport

- 25% of car parking spaces are for small cars
- Bicycle parking provided
- Cyclist shower and changing facilities provided
- Ample public transport facilities available for commuters

Innovation

- Chilled ceilings
- Multi-Water Reuse (MWR) sewer mining plant



- Sprinkler water reclaim
- Phase Change Materials (PCM) thermal storage
- Shower towers for cooling
- Building integrated wind turbines

Emissions

- 80% reduction in sewer emissions through the Multi-Water Reuse (MWR) plant
- Refrigerants with zero Ozone Depleting Potential (ODP)
- Refrigerant leak detection
- Stormwater pollution management and treatment

Land Use and Ecology

Besides introducing vegetation, there is no major impact on site ecology because the building replaces an old inner city car park

Contact Us

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Green Building Council Overview

The Green Building Council of Australia's mission is to define and develop a sustainable property industry in Australia and to drive the adoption of green building practices through market-based solutions.

The Council's objective is to promote sustainable development and the transition of the property

industry to implementing green building programs, technologies, design practice and operations.

To do this, it advances and promotes the creation of a green building rating tool, economic incentives, government initiatives and programs, new technologies and industry knowledge.



green building council australia



Energy

- 85% reduction in electricity consumption compared to the existing Council House of similar size
- 87% reduction in gas consumption compared to the existing Council House of similar size
- 87% reduction in greenhouse gas emissions compared to the existing Council House of similar size
- 5 Star ABGR + 20% reduction in carbon dioxide
- Solar photovoltaic cells for electricity generation
- Building integrated wind turbines
- Phase Change Material (PCM) thermal storage
- Waste heat utilisation from electricity co-generation
- Low energy cooling system for offices via chilled ceilings
- Low energy T5 lighting system with small area zoning
- Sub-metering for tenants and substantive energy uses.
- Daylight responsive light dimming
- Shower towers for cooling
- Gas boosted solar hot water
- Night time cooling via natural ventilation

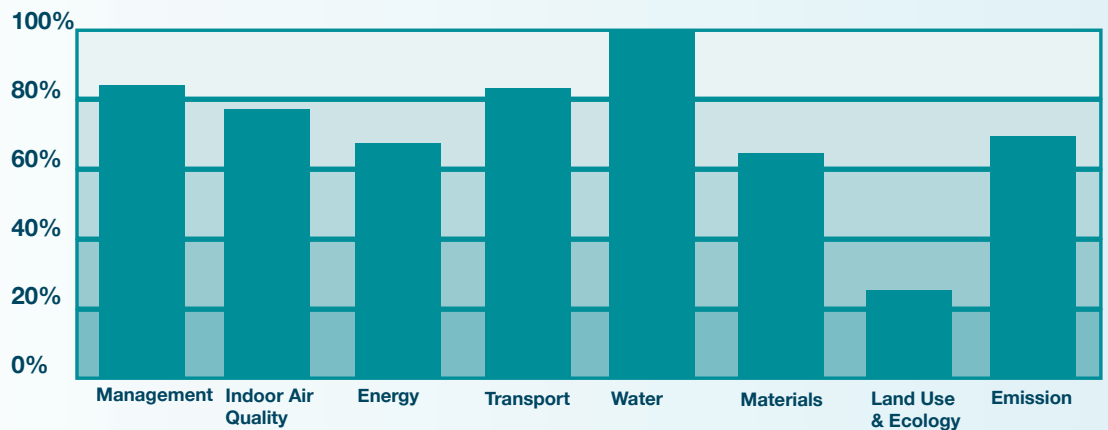
Management

- Building Users Guide for future building occupants
- Independent building commissioning and tuning
- Best practice Environmental Management and Waste Management Systems implemented for the construction phase

Indoor Environmental Quality

- Displacement ventilation system for fresh air delivery
 - 100% fresh air supply – no recirculated air
 - Increased fresh air supply quantities 3 times the Aust Standard
 - Occupant controlled air vents
 - High thermal comfort performance
 - Low level of indoor air pollutants from low off-gassing carpets, adhesives, sealants, and composite wood products
 - Glare control via shading which moves and responds to the sun
- 80% of office occupants have access to views\

Overall Green Star Building performance



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