

# Dr Chau Chak Wing Building (CB08)

## UTS Business School



### SUSTAINABLE DESIGN FEATURES

- Awarded a **5 Star Green Star Design** rating Certified by the Green Building Council of Australia.
- **Natural daylighting** provided through glass-panelled curtain wall.
- **High performance glazing**; insulated double-glazed curtain wall with solar control & low emissivity coatings.
- **Adjustable blinds** minimise glare.
- **Locally-sourced bricks**; durable & low maintenance.
- **Energy efficient building services**, including zero water use air-cooled chillers, air handling units & fan coil units with Carbon Dioxide & Volatile Organic Compound (VOC) sensors, timers & individual controls.
- **Energy efficient LED & T5 lighting**, zoning & controls.
- **Energy efficient external lighting with daylight sensors**.
- **Highly visible internal staircases** function as “bump space” to connect people, reduce lift energy use & improve health & wellbeing.
- Energy & water sub-meters connected to **campus-wide Energy Management System**.
- **Real-time sustainability performance data linked to digital screens** in public areas.
- **Bottle water refill stations** on every floor.
- **Water efficient fixtures** e.g. toilets, hand basin taps, waterless urinals.
- **Rainwater capture, treatment & re-use** to supply the building’s toilets & landscaping.
- **Capture, treatment & re-use of fire system test & maintenance drain-down water**.
- **Improved Indoor Environment Quality** through selection of materials, furniture, flooring, paints, adhesives & sealants & carpet with zero or low VOCs & use of composite wood products with zero or low formaldehyde content.



## SUSTAINABLE DESIGN FEATURES

- **Low environmental impact flooring, joinery & loose furniture.**
- **Timber re-used, recycled or from certified sustainable sources;** e.g. Radiata Pine glu-lam beams from New Zealand, Victorian ash stairway & Hoop Pine joinery.
- **Steel sourced from environmentally responsible steel manufacturers.**
- **Green concrete;** a proportion of cement substituted with flyash (a waste product from power stations).
- **Polyvinyl Chloride (PVC) products avoided where possible.**
- **Zero Ozone Depleting Potential refrigerants & insulants.**
- **Flexible, adaptable space design** for “future-proofing” the building.
- **Recyclable waste storage space & Hungry Giant polystyrene compactor.**
- **98% of construction waste recycled.**
- **60% of car spaces allocated for small, fuel-efficient cars.**
- **End Of Trip facilities** in basement; 160 secure, undercover bicycle spaces, 9 showers, 112 lockers & change facilities.

### PROJECT TEAM

**OWNER + PROJECT MANAGER**  
University of Technology, Sydney

**ARCHITECT**  
Gehry Partners (design architect)  
Daryl Jackson Robin Dyke (executive architect)

**ESD / GREEN STAR + MECHANICAL + ELECTRICAL + HYDRAULICS + FIRE**  
AECOM

**STRUCTURAL + CIVIL**  
Arup

**CONTRACTOR**  
Lend Lease

### FAST FACTS

<b>SIZE</b>	
Gross Floor Area	18,413m <sup>2</sup>
Useable Floor Area	15,500m <sup>2</sup>
14 levels	basement + 11 floors + plant + roof
<b>COST</b>	
Project cost	\$180M
Construction cost per m <sup>2</sup>	\$6,517
<b>DATES</b>	
Start date	November 2011
Early works completion	November 2012
Main works completion	November 2014
Official opening	2 <sup>nd</sup> February 2015

green building council australia



Education Design v1 2014