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

SIZE
Gross Floor Area 18,413m²
Useable Floor Area 15,500m²
14 levels basement + 11 floors + plant + roof

COST
Project cost $180M
Construction cost per m² $6,517

DATES
Start date November 2011
Early works completion November 2012
Main works completion November 2014
Official opening 2nd February 2015