

## 1 Bligh Sydney



### Location

1 Bligh Street, Sydney, Australia

### Built

Construction period: 2009–2011 Competition: International competition 2006, 1st prize

GFA: 45,000 m<sup>2</sup>

## Australia's first green skyscraper

The 1 Bligh tower in Sydney's financial district, highly visible when viewed from the Harbour Bridge, is a prominent addition to the city's skyline. Australia's first truly "green" skyscraper is a 139-meter high, 28-story tower. The tower combines the highest grades of sustainability, spatial efficiency, carefully designed integration into the immediate urban environment and boasts a spectacular view of the harbour. Employees in almost all offices can enjoy the panoramic views thanks to the elliptical shape of the building.

The compact elliptical shape is a result of the drive to maximize views and to simultaneously minimize solar heat gains. In terms of urban planning, the building footprint reacts to the special situation around Bent Street where two city grids meet at an angle. The gentle curves of the ground floor naturally connect Bligh Street with the 4 m lower O'Connell Street. The fully public ground floor with public steps visually extends Farrer Place and has become an intensely used seating area. Due to the carefully considered elevation of the office floors, the public steps are well shaded in summer and nicely warmed in winter. A lobby café, an external coffee point, a childcare center, bicycle parking spaces and end-of-trip facilities (lockers and showers) within the "podium" serve tenants and visitors.

The ground floor's openness continues in the building's full-height atrium. The atrium allows for views into the office spaces from the glass lifts – as such creating a sense of community between the tenants. Apart from the fully glazed double skin façade, the naturally ventilated atrium is one of the main sustainability features. It serves as a cool air pond and also houses balcony workspaces. The double-layered façades allow for operable external sun blinds that reduce energy demands significantly while maintaining the view of the Harbour.

A “Tri-Generation” system based on natural gas produces cooling, heating and electric power and is twice as efficient as the conventional power grid. In addition, solar thermal collectors on the roof inject high temperature energy into the solar cooling system. A black water recycling system cleans the waste water within the building. To use the plant's full capacity, additional sewage is “mined” from a city sewer – saving 100,000 liters of fresh water a day.

As a result, the building gained the “6 Star/World Leadership” certification in the Australian Green Star system. It is the first office tower in Sydney to do so. It also gained a “5 Star” rating in the National Australian Built Environment Rating System (NABERS).

## Awards, Nominations

2021

CTBUH 10 Year Award

2019

CTBUH: 'One of the Most Influential Buildings of the last 50 Years'

2014

IDEA Award for Workplace 2014

The John Verge Interior Architecture Award 2014

Energy Globe Award 2014

2013

ICONIC Awards 2013

Green Good Design Award 2013

2012

International High Rise Awards 2012

Australian Institute of Architects The Harry Seidler Award for Commercial Architecture 2012

Australian Institute of Architects National Award for Sustainable Architecture 2012

Council on Tall Buildings and Urban Habitat Best Tall Building Asia & Australasia 2012

Professional Excellence Award, Australian Institute of Building (Commercial Construction \$100M plus) 2012

Australian Institute of Architects (NSW) Sir Arthur G. Stephenson Award – Commercial Architecture 2012

Australian Institute of Architects (NSW) Milo Dunphy Award – Sustainable Architecture 2012

Australian Institute of Architects (NSW) Urban Design – Architecture Award 2012

Fassa Bortolo Sustainable Architecture International Prize – Silver Medal 2012

CTBUH Best Tall Building Award 2012

2011

UDIA NSW Awards for Excellence Retail/Commercial Development 2011

API NSW Excellence in Property Awards: Landmark White Property Development Award 2011

Asia Pacific International Property Awards Highly Commended – Office Architecture + Office Development 2011

## Team

Client

DEXUS Property Group, Sydney

Fire Protection - Dry Fire

Arup Fire Engineering – Sydney, NSW, Australia

Fire Protection - Wet Fire

Steve Paul & Partners – Sydney, NSW, Australia

Acoustic

Arup Acoustic – Sydney, NSW, Australia

Electrical Services

Arup Electrical – Sydney, NSW, Australia

Lighting Artificial

Arup Electrical [standard lighting] – Sydney, NSW, Australia

Tropp Lighting Design [special lighting], Weilheim, Germany

Landscape Architecture

Sue Barnsley Design – Sydney, NSW, Australia

Transportation Systems

Norman Disney and Young – North Sydney, NSW, Australia

Mechanical Services

Arup Mechanical – Sydney, NSW, Australia

Hydraulics

Steve Paul & Partners – Sydney, NSW, Australia

Project Management

APP Corporation – North Sydney, NSW, Australia

Team ingenhoven architects

Christoph Ingenhoven, Martin Reuter, Christian Kawe, Olaf Kluge, Hinrich Schumacher, Martin Slawik, Thomas Weber, André Barton, Mario Böttger, Elisabeth Broermann, Darko Cvetuljski, Ralf Dorsch-Rüter, Hye Jin Jung, Christian Kob, Andrea König, Alice Koschitzki, Peter Pistorius, Dr. Mario Reale, Evelyn Scharrenbroich, Ulrike Schmälter, Alexander Schmitz, Jürgen Schreyer, Brett Stover, Erich Tomasella, Lutz Büsing, Felix Winter

**MBA Excellence in Construction: Site safety >\$50M, 2011**  
**LandMark White Property Development Award 2011**

**2008**

**International Property Awards, Office Architecture: World  
class office architecture 2008**  
**Chicago Athenaeum International Architecture Award 2008**