

Aurecon

Aurecon has leading experts in the field of sustainable design with extensive experience across all disciplines and market groups. With offices located throughout Australia our Sustainability Group is able to assist a wide variety of clients in different regions. We are continuing to grow our team within Australia and internationally through our recent alliances. Our core strengths within individual trained disciplines have enabled Aurecon to develop a strong and holistic approach to sustainable design.

Key Information

Aurecon provides world-class engineering management and specialist technical services to government and private sector clients.

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Technologies & Capabilities

The Aurecon Sustainability team has extensive skills and experience in the design of a wide range of contemporary hospitality entertainment commercial sporting and institutional projects with integrated ecologically sustainable design. We continue to provide ESD design consultancy for projects throughout Australia, New Zealand and South-East Asia. As a project partner Aurecon provides:

- › ESD solutions that are appropriate to local environments
- › Robust cost effective ESD design solutions that meet the project objectives
- › Proven efficient and effective ESD technology that adds value to the project that is financially responsible and accountable
- › Comprehensive simulation and modelling design software for lighting, day lighting, power and energy simulation, enhancing technical innovation while managing risk
- › In depth knowledge of Domestic and International rating protocols including Green Globe, LEED, NABERS and Green Star
- › Great communication with a positive team approach
- › A clear articulation of ESD objectives solutions and performance attributes
- › Creative and innovative contribution to the architectural design process. Commercial intelligence of the market response.
- › The projects that we have contributed to are among recognised leaders in sustainable development.

Key Areas of Expertise

Consulting Engineering
Project Management
Other – Technical Services
or Consultancy

Building Type

All

Typical International Business Partners/ Customers

Government – Public Sector
Project Developers,
Private Sector Developers,
Contractors, Architects

Current Export Markets

Bahrain, Central African
Republic, China, Hong
Kong, Indonesia, Macau,
Mozambique, Namibia,
New Zealand, Qatar,
Singapore, South Africa,
Thailand, Vietnam,
Zimbabwe

Target Export Markets

Hong Kong, Macau,
New Zealand, Qatar,
Singapore, South Africa,
Thailand, Vietnam

Profile continued >



Aurecon

International Green Building Project

Project name

Asteron Centre

Project Type

Commercial

Project Place

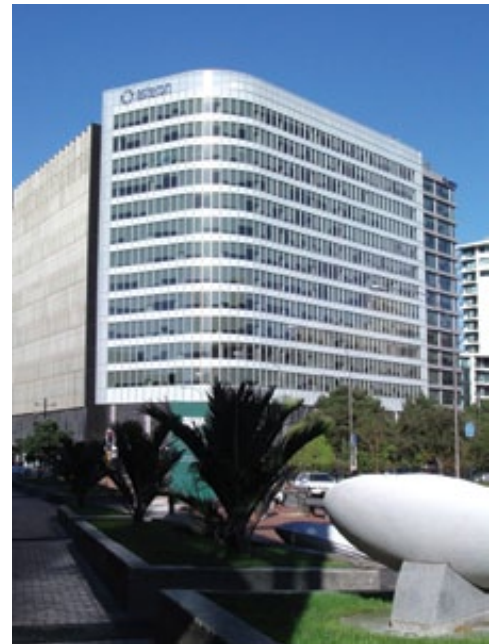
Wellington, New Zealand

Project Partners

One Featherston Street
Development Ltd

ESD Features

- › Storm water is harvested and reused for flushing toilets minimising stormwater runoff and potable water usage
- › The building will incorporate Wellington's largest heat pump chillers using waste heat from the cooling process to provide heating to the building and to preheat the domestic hot water. Additional heating for the domestic hot water uses heat pumps with an efficiency of more than 300 per cent
- › Air quality has been maximised by using 50 per cent more fresh air than Building Code minimums and the introduction of CO₂ sensors on the floors
- › Use of VOC and formaldehyde emitting products during building construction was minimised while PVC use has also been virtually eliminated
- › Occupancy and daylight sensors have been incorporated to minimise the amount of electric lighting reducing operating costs. This reduces electricity demand as well as reducing the load on the air conditioning system
- › Extensive use of energy metering combined with the computerised building management system will allow effective fine tuning of the buildings operation to minimise the use of energy and water
- › Construction waste is being recycled to the full extent possible.



▲ Asteron Centre, Wellington. New Zealand

Australian Green Building Project

Project name
Bishops See

Project Type
Commercial

Project Location
Perth WA

Project Partners
Hawaiian / Brookfield
Multiplex

ESD Features

- Low temperature variable air volume air-conditioning system significantly reducing fan energy
- Water cooled high efficiency oil free magnetic bearing chillers coupled with oversized cooling towers
- High efficiency T5 lighting throughout the building
- Variable volume car park ventilation
- High performance low emissivity full height glazing
- Orientation of the building so the main axis runs east-west with external shading to the west, east and south
- A grey water system utilising sink and shower water discharge for toilet flushing. This system is the first design approved in a commercial building in WA
- Tenant bicycle storage facility located within the underground car park.



▲ Bishops See, Perth WA