

# Global Consulting



## Green building solutions consultants



'The world's green arena',  
Cox Group Architects

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ecospecifier...world leaders



*“What the **ecospecifier** Consulting Team achieved in the refurbishment of AMP’s Circular Quay Global Headquarters building in Sydney was impressive. This team is ahead of its time.”*

**Paul Amato**, Manager, AMP Workspace (2007)



# Your green building solutions partner...



**ecospecifier Global Consulting** delivers world leading green building solutions. We help you create and implement your organisation's project or products sustainability vision by providing:

- **One of the most experienced, sustainable design consulting outfits in the world today**, servicing all sectors of the built environment - from major residential, commercial, institutional and infrastructure projects to product suppliers and manufacturers.
- **Integrated design process facilitation (IDP)**. Our experienced IDP facilitators help find design teams and drive synergy to maximise innovation while reducing costs.
- **A unique, rapid eco-profiling system to conduct Whole of Life Assessment of Building and Products - LCA Design**, which enables whole of life cycle including carbon/greenhouse impacts to be evaluated in a single cost efficient process.
- **Green building rating and assessment**, including Green Star™, LEED®, BREEAM™, Green Globe, Building Code of Australia (BCA), Estidama Pearls (Abu Dhabi) and other global green building tools.
- **Professional practitioner education** - including accredited continuing professional education, Executive, Management, Sales and Marketing Personnel training and Undergraduate - delivered in-house on a wide range of topical subjects relevant to today's green training building products.
- **Online information resources through ecospecifier's country websites** - offering deeper knowledge about local sustainable design issues and vital technical information on over 6,000 verified, life-cycle assessed green products for buildings, interiors and developments worldwide, including details about availability and compliance to Global Green Building rating schemes like Green Star™, LEED®, BREEAM™, Estidama Pearls (Abu Dhabi) and others.
- **Publications and training guides** on key sustainability issues and practices.

# Green Building Solutions



**If you are looking to make a difference to the future of the planet and do good business too... then we can help.**

Working closely with you and your key team, our creativity, innovation and deep technical expertise can help facilitate design, technical or marketing teams to develop your sustainability vision, maximise cost effective, practical and achievable green buildings and solutions.

As one of Australia's most experienced green development and building consultants, **ecospecifier Consulting** and its Green Building Solutions team (GBS) including Principal Sustainability Consultant and Technical Director, David Baggs, have been involved as the ecologically sustainable development (ESD) consultants to many of Australia's major benchmark eco-developments including new and refurbished building projects worth over AUD\$55 billion in the past 12 years.

#### **A quick summary of projects include:**

- Queensland Education Demonstration Projects Peregian State School & MBEEC
- The Emirate of Abu Dhabi's 'Estidama Pearls', New Building Rating Method and Design Guide
- 10 of the Sydney 2000 Olympic Games venues such as the Athletes Village and SuperDome
- AMP Global Headquarters refurbishment
- Brisbane City Council's Brisbane Square fitout
- Several major Dept of Defence projects
- Green Square Town Centre Masterplan and Public Domain
- Multi-unit projects totalling over 10.000 apartments in NSW, ACT, WA and QLD (see Project Section for more detail).

#### **ecospecifier works with clients to deliver:**

- **Sustainability rating, compliance, marketing & project outcomes** - whether Australian e.g. Green Star™ or International e.g. LEED®, Estidama Pearls we can assist to achieve leading edge, cost effective ESD solutions;
- **Quick turnaround of cost effective building thermal performance assessment** - residential, multi-unit and commercial;
- **Successful strategic sustainability positioning** - use of strategic ESD initiatives as a winning 'green-edge';
- **Leading edge technologies, materials and designs** - the project-ready materials, technology and product research of **ecospecifier's** global website network.

When it comes to sustainability in the built environment, **ecospecifier** does nothing else...we are not 'business as usual' consultants.



**'...from the first, GBS made pivotal contributions to the conception and delivery of the Olympic Village at Newington.'**

Maria Atkinson, as Environment Manager, Mirvac Lend Lease Village Consortium.

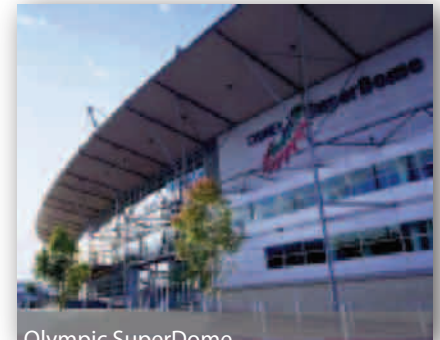
# Project summary

## Green Building Consultancies

Including Integrated Design Process (IDP) Facilitation:

Project including:

- **Moreton Bay Environmental Education Centre (MBEEC)**, QLD Education
- **Green Square town Centre Public Domain**: Green Square, ESD NSW Landcom
- **AMP Circular Quay Global Headquarters Refurbishment**: Circular Quay, Sydney
- **Department of Defence**: Holsworthy, Williamtown and Canungra Bases Redevelopment, Masterplan ESD Strategies
- **Green Square Town Centre Masterplan**: Green Square Town Centre Urban Redevelopment East Sydney, NSW Landcom
- **Olympic Games Village**: Newington, MLLVC Consortium
- **Super Dome Arena**: Sydney Olympic park, Millennium Consortium
- **Comparative Life Cycle Assessment of Caroma Factory Adaptive Re-use** Greater Pacific Properties Chatswood NSW.



Olympic SuperDome

## Building Thermal Performance Assessment

Over 40.000 assessments Including BASIX and BCA Section J

- **Payce Constructions Ltd**: The Waterfront, 2000 Apartments Homebush Bay Sydney
- **Bilbergia Limited**: Waterpoint Projects - over 4000 apartments, Homebush Bay, Meadowbank Sydney, Canberra and Rhodes
- **Fraser's Greycliffe Projects**: approx 1000 apartments, Sydney & Perth
- **Waltcorp and NSW Landcom**: Victoria Park Stages 2&3: over 1000 apartments, Green Square, Sydney
- **RSL Care**: Aged care apartments, Hervey Bay, QLD
- **AV Jennings**: Multiple projects across Sydney
- **Mirvac**: Multiple projects across Sydney
- **Australand**: Multiple projects across Sydney
- **Mirvac/Lend Lease**: Olympic Village energy rating audits 1500 dwellings



Olympic Athletes Village

## Green Star Facilitation and Rating

- **Energex 35.000m<sup>2</sup> - 6 Star Office & Interiors Project**: Brisbane
- **First Green Star<sup>TM</sup> Rated School**: Burpengary, Education Queensland
- **First Green Star Rated ESD Pilot School**: Peregrine Education Queensland
- **AMP Global Headquarters Refurbishment**: Interiors, Circular Quay, Sydney
- **Commonwealth Dept of Public Prosecutions**: Interiors, Sydney
- **AMP Proposed Office Building**: Coronation Drive office Park, Brisbane



The Waterfront, Homebush Bay

*"What the ecospecifier Consulting Team achieved in the refurbishment of AMP's Circular Quay Global Headquarters building in Sydney was impressive. This team is ahead of its time"*

Paul Amato, Manager, AMP Workspace

## Policy



- **'Estidama Pearls Green Building Rating Method & Design Guide** - Emirate of Abu Dhabi
- **National Residential Energy Assessors Training Course** - Australian Greenhouse Office and ABSA
- **Green Designer's Manual & Toolkit:** Northern Rivers Regional Strategy - Planning NSW
- **Green Square Town Centre DCP:** ESD Content, Planning NSW
- **Energy Smart Homes Policy:** Model DCP, Scorecard development, project management, and training of nearly 1000 officers for the NSW SEDA in 52 Local Government areas as consultants to the Greenlight Consortium
- **Greenhouse Homes' Program:** WA, SA & QLD - Australian Greenhouse Office (AGO)
- **Residential Climate Protection Program:** WA, SA & QLD - AGO
- **Commercial & Industrial Buildings Energy Efficiency DCP:** Co-development for Botany City Council;
- **Brisbane City Council Commercial Buildings Energy Efficiency Code:** Co-development
- **Gosford City ESD Energy Efficiency Policy**

## Green Roof Consultancies

- **Green Roofs Research Report:** NSW Landcom
- **Penrith Anglican Collage:** Anglican Diocese Penrith NSW
- **Al Noori Muslim Primary School:** Greenacre NSW

## Sustainable Water Consultancies

- **Macquarie University Sports Union Sustainable Water and Master Plan** - 1.2ML/week sewer and stormwater water mining and re-use project using low tech. biological systems to generate sustainable sportsfield irrigation in perpetuity (under construction).
- **Serenity Lakes** - Eco Resort Lake Cooroibah, Noosa QLD - 150 bed eco resort ESD consultancy including on site re-use of all sewer and greywater back into dwellings including toilet, irrigation and laundry re-use. Non-chlorinated supply licensed by QLD EPA and constructed 2008.
- **Vipassana Meditation Retreat** - Blackhead NSW, water cycle management assessment, water efficiency, rainwater reuse and implementation project.
- **Funnell Residence** - Development of single residence greywater re-use system to filter and sanitise only as much greywater as is required on site-bypass to sewer means no absorption required on site.

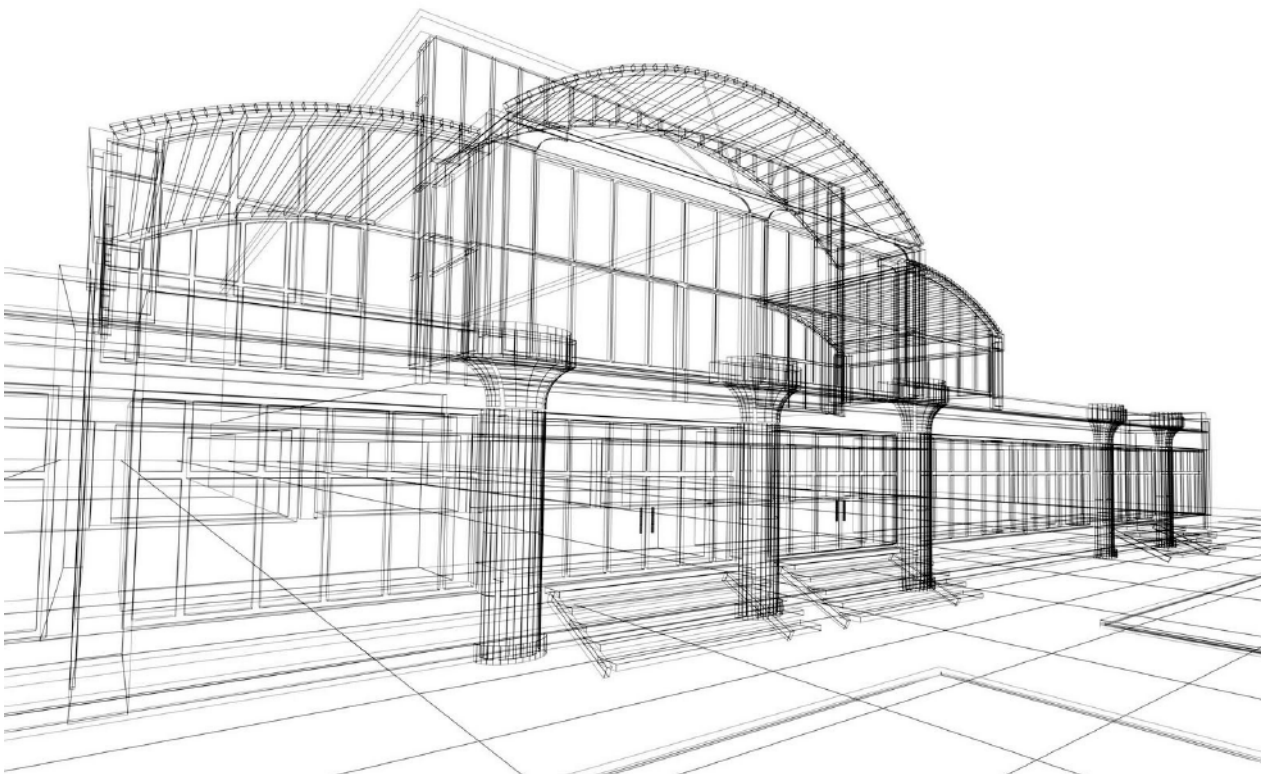
## Eco-preferred Product Analysis and Life Cycle Assessment (LCA)

ecospecifier is proud to announce it has been awarded the global exclusive licence for the product specific use of LCA design a unique word leading innovative 3 Dimensional (3D) Computer Aided Drafting (CAD) based rapid eco-profiling software tool that speed up and simplify the implementation of life cycle analysis of buildings and their components. 3D CAD is increasingly being used to attach information to elements in drawing of products or buildings or even whole cities. The output is then known, rather than a '3D Model', as a Building Information Model or BIM.

**Introducing LCA Design and Full Product Life Cycle Analysis:** Using CAD systems as ArchiCAD/REVIT and LCA Design software derivatives can analyse whole-of-life impact for products and projects of any size.

*"For the first time, real projects can have their whole of impact rapidly eco-profiled with real products - cost effectively"*

David Baggs CA, FAIA, ABSA, Green Star AP, LEED AP, Technical Director ecospecifier Global



# Awards & Appointments

## Major Project Awards

- **Banksia Award, Sydney SuperDome for Construction Practices** with Manidis Roberts and AbiGroup Australia.
- **Master Builders Association, National Housing and Construction Excellence Energy Award**, with Manidis Roberts and Mirvac/Lease for the Olympic Village.
- **NSW Chapter Royal Australian Institute of Architects, Merit award for ESD Design** for The Munro and Grace Pavilions RAS Showground, with Manidis Roberts and SJPH and Pavilion Architects.

## ecospecifier and Team Awards

- **2010, QLD Premier's Export Award Winner**
- **2010, National Export Awards Finalist**
- **2007, UNAA Environment Day Awards, Finalist**
- **2005, Year of the Build Environment: Sustainable Communities Jury Commendation.**
- **2004/5, HIA GreenSmart Partnership Award.**
- **2003/4, HIA GreenSmart Professional of the Year Award.**
- **University of Technology Sydney Special Award 'Excellence in the Field of Energy Conservation in Buildings'** to David Baggs.

## Appointments

- **Green Building Council in Australia:** Industry Reference Group
- **Green Building Council in Australia:** Independent Chair Group
- **Griffith University Eco Centre:** Advisory Committee
- **BASIX Technical Reference Group:** NSW State Department of Planning
- **Good Environment Choice Australia:** National Ecolabel Standards Reference Group
- **Building Code of Australia:** Technical Reference Group: Energy Provisions, Australian Building Codes Board

Our Practical Sustainability Program is an advanced practitioner educational course, accredited by the NSW State Architects Registration Board as 'Formal Training' in their Compulsory Professional Education (CPE) scheme.

It rigorously deals with the management, design, documentation and risk management implication in optimising sustainability outcomes including green products specification and selection... unravelling, contextualizing and demonstrating how to safely, efficiently and within budget, deliver leading edge green development from conceptualization through construction.



Participants of our Practical Sustainability Program will emerge with an advanced level of knowledge and solution for:

- **Minimizing project and practice cost and risk** - to deliver sustainability outcomes cost effectively within time and budget
- **Unraveling the labyrinth - Building rating and compliance** - BCA Section J, 5 Star Homes, BASIX, ACTHERS, the relevance & detail of Green Building rating - Green Star™, NABERS, ABGR, etc.
- **Materials implications** - Performance criteria and context in building compliance and sustainability ratings
- **Using Life Cycle thinking and Life Cycle assessment** - in practical decision making
- **How to specify green products and building** – using Integrated Sustainable Design Process, Energy Performance Contracting and Strategic Tender procedures to determine what you need and get what you ask for
- **Priority setting** – and the role of embodied energy in material selection
- **Ecological and health profiles** – specific knowledge guides and comparative analysis for every major building element and technology across residential, commercial buildings, infrastructure and landscaping
- **Efficient use of ecospecifier** – as a resource and tool

## Education & Training, In House & Conferences

**Conferences, Exhibitions and Seminars**, including major keynote presentations

**In house CPE for internationally significant architects including:** Hassells, Woods Bagot, Crone Partners, Allan Jack and Cottier, Devine Erby Mazlin.

**For product marketing and sales teams including:**

Corporate Express, Gunnensen, CSR Hebel, Office Ideals, Boral Australia.

# Sustainable Materials Database

**ecospecifier** published several leading global online services including **ecospecifier.org**, **ecospecifier.co.za**, **ecospecifier.sg** and **ecospecifier.ae**. These websites provide a unique, innovative, award winning source of verified information on currently over 6000 eco and health preferred materials, products, technologies and suppliers in a practical, ready to use online knowledge and database in a variety of markets.



Established initially in Australia, it is now the leading sustainable product decision support system for building material selection globally, applicable and adaptable to any country.

The **ecospecifier** website provides information suitable for all building types and includes services, interior, landscapes and infrastructure content to minimize environmental and health impacts associated with built environments.

## How Does it Work?

- A subscriber based service with considerable free to air public domain content, it integrates the best available knowledge on environmental sustainability from international research communities, eco labels, standards, leading edge policy and knowledge resources, experts and manufacturers
- **ecospecifier** is supported by National Materials Standards Expert Panel of world renowned professionals and academics
- **ecospecifier** is founded upon a robust 'Verified' product program, life cycle based, materials assessment standard, and ecospecifier global GreenTag standard (available on request).
- **ecospecifier** actively partners with other organisations of like-minded environmental missions e.g.: Bovis Lend Lease, Energy Management Services, The Natural Edge project, Climate friendly etc.



## Who uses it?

- **ecospecifier** provides readily accessible and reliable information to: architects, engineers, designers, interior and landscape architects, facilities managers, governments, consultants and advisors, policy makers, builders, developers, quantity surveyors, universities, suppliers and manufacturers.

## David Baggs Technical Director and Principal Consultant

David is Technical Director for **ecospecifier** and has been sustainability & eco-materials consultant on projects including 10 Olympic venues, Brisbane City Council's new Headquarters fit out and Green Procurement Program and AMP Global Headquarters fitout.

He is co-author of several sustainable architecture books and is a regular speaker and presenter as one of Australia's most experienced Building Sustainability Assessors. David and The **ecospecifier** Team were the 2003/2004 Housing Industry Association of Australia's National GreenSmart Professionals of the Year.

David brings to any project high level understanding, experience and expertise in:

- Green building design & technology strategies
- Integrated Sustainable Design Process facilitation
- Green Star tool implementation
- Sustainable materials
- Sustainable Technology & renewable energy
- Life-cycle assessment of project & materials including embodied energy assessments
- Public Consultation & Reporting Processes
- Strategic Project Positioning
- Sustainability Reporting and Communication

He also has a high level, cross discipline understanding of the implementation of ESD in built environment design and development as well as a thorough grasp on the ESD implications for materials, product and technology selection.



## **Martin Pinson** **Environmental Engineer & Senior ESD Consultant**



Martin is an experienced Environmental Engineer and Graduate Architect. He has worked with the ecospecifier team for nearly 5 years as sustainability and building thermal performance consultant, assessing using a variety of compliance and rating tools including NatHERS, BASIX, Green Star and more recently Building Code of Australia (BCA) Section J Energy Efficiency Assessor using EnergyPlus/DesignBuilder a BCA compliant commercial project energy modeller.

He has worked on numerous ESD Consulting projects for retail/commercial/residential development projects including Brisbane City Council Eco Fitout, 'The Waterfront' for Payce Properties & 'Waterpoint' at Homebush Bay as Waterpoint Meadowbank for JK Developments, the Holsworthy Masterplan ESD Strategy, Boral and Hebel ESD Strategies and numerous others.

He was one of the NIL assessment team that undertook the BASIX Multi-unit testing for NSW DIPNR.

He has also undertaken eco-materials research for numerous projects including the AMP Global Headquarters refurbishment, Commonwealth Department of Public Prosecutions, Brisbane City Council's new headquarters Brisbane Square fitout and extensive research and product assessment for ecospecifier.

Martin has significant experience and capability in:

- Passive solar and thermal envelope design strategies
- Project management and co-ordination
- Understanding of sustainable materials issues
- Report authoring
- Ability to research, assess & recommend eco-materials, products & technology
- Understanding of life-cycle assessment

**Dr Delwyn Jones**  
**Principal Life Cycle Analysis Consultant**  
**Environmental Engineer & Senior ESD Consultant**



**Affiliations:**

- Principal Scientific Advisor, National Cooperative Research Centre (Construction Innovation)
- Previously Principal Scientific Officer, Built Environment Research Unit, Department of Public Works & Housing Queensland, Australia

Dr Delwyn Jones is an international expert in the Life Cycle Analysis (LCAQ) of materials and a key developer of the 3D based LCA calculation Program LCAid. She has been a research scientist for 30 years specialising in surface analysis of building materials for metal, polymer and ceramic product and process development, is an experienced occupational hygienist, inventor of electromagnetic and refractory a technologies and has published and lectured in surface and life cycle analysis of materials. Del is a member of European and Australian Scientific Working Groups and was previously Principal Scientific Officer, Environmental and Occupational Health within the Built Environment Research Unit, Department of Public Works & Housing.

**John Caley**  
**Water Balance & Water Quality Modelling and Water Re-use Engineer**

**Affiliations:**

Member Institution of Engineers Australia

John is an environmental and mechanical engineer with over 20 years experience specializing in building thermal performance assessment, water balance modelling, and providing design specification advice. John has developed sophisticated water balance modelling tools to accurately simulate the water volume flows of residential developments. Using these tools, John has advised on the design of water management systems for over 40 residential and commercial development projects.

# Contact Us



## Insurances

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**Professional Indemnity** \$5,000,000  
**Public Liability** \$20,000,000

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## Web

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