



CERTIFIED ENERGY

# CERTIFIED ENERGY

COMMERCIAL CAPABILITY STATEMENT

P: 1300 443 674

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# ABOUT US

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The Certified Energy group is comprised of experienced architects, engineers and ESD industry professionals who share a common goal to create a sustainable future across Australia.

Working on projects across all states and territories, we are industry leaders in the provision of BASIX (NSW) and BESS (VIC) reports, Section J and JV3 Compliance reports, NatHERS, NABERS energy star rating certificates, Green Star assessments, and a full suite of consulting

services and other sustainability reporting and rating systems.

We are consultative in our approach at every step and act as part of your team. Our trained and accredited professionals are passionate about sustainable design and we pride ourselves on the highest quality service with efficient timeframes. Certified Energy is a nationwide independent NatHERS Assessor and hold accreditation by the Association of Building Sustainability Assessors.





# CAPABILITY STATEMENT

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Our team is dedicated to reducing the effects of climate change through smarter, efficient and sustainable building design.

We have extensive experience working in both the residential and commercial building markets and offer a full spectrum of energy reviews, ratings and certifications.

In conjunction to these services, our experienced team will work closely with yours at every step of the way, ensuring that every decision made is accepted and understood so that we can achieve the best results for your project.

# OUR APPROACH

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We offer a simple, fast and reliable service that goes beyond building certificates and regulation without compromising your budget.

Upon receiving your documentation, we issue you with a fixed price fee proposal outlining scope of work, timeframe and cost. After this has been accepted, our work commences and a draft report will be provided for your review. Once we receive your confirmation of the draft, you will receive your certification documents.

As committed and passionate ESD advocated, our next step is to help you understand the full benefits of what your environmentally sustainable project is achieving and the benefits that you, its occupants and the wider community will enjoy.



# OUR TEAM



## James Bonnefin

DIRECTOR & ACCREDITED ASSESSOR  
jamie@certified.energy

James is the Director of Australia's leading ESD consultancy, Certified Energy. James is a Green Star sustainability leader, NABERS assessor and accredited ABSA, BDAV and HERA Assessor. With over 15 years of experience in Sustainable Design in the built environment industry, James is passionate about his work.

### ACCREDITATIONS

M.Arch. 2010  
Newcastle University

B.Sci. (Architecture) 2004  
Newcastle University

### SKILLS & ACHIEVEMENTS

BASIX and Building Keynote Speaker Master  
Builder Association CPD Program in NSW (2018)

Cert IV NatHERS Assessment (2016)

Australian Red Cross NSW  
Divisional Board of Directors (2008-2009)

Australian Red Cross NSW Advisory  
Committee Chairman (2007-2009)

Director of Timbercrete – Green Building Products



### CAREER HIGHLIGHTS

Certified Energy, 2012 – Present  
ESD Director

Qualified ABSA accredited assessor  
Founder of the Business and Registered Architect

### NSW Land & Housing Corporation

Conducted comprehensive NatHERS reporting for the NSW Land and Housing Corporation to achieve efficient and cost effective cooling outcomes for future housing developments. This undertaking is similar to the North and West Melbourne cooling energy benchmarks of 22 MJ/m<sup>2</sup> for 6 reference typology projects to assist future development in Western Sydney.

### Keynote Speaker

Appointed as the Building keynote speaker for the 2018 Master Builders Association CPD Program in NSW. This highly regarded training event brings together experts to share their knowledge and experience about the industry and future trends. In NSW, all builders are required to undertake 12 points worth of CPD activity per year to maintain their building license.

# OUR TEAM



**Ilvy  
Bonnefin**

DIRECTING MANAGER  
[jobs@certifiedenergy.com.au](mailto:jobs@certifiedenergy.com.au)

ilvy believes that anything is possible. Just become passionate about it. With a background in Organisational Psychology, ilvy seems to be able to attract a team around her with the very same passion: Sustainability and making a change.

## ACCREDITATIONS

Bachelors in Clinical and Organisational Psychology , 2009  
Radboud University Nijmegen, The Netherlands

## SKILLS & ACHIEVEMENTS

Renewable Energy  
Business Development  
Marketing Strategy  
Account Management  
Sales and Operations Management  
Marketing Communications

## CAREER HIGHLIGHTS

**Certified Energy, 2014 – Present**  
*ESD Director*

Runs a team of ESD and Design Specialists, specialising in Green Star, NABERS, fast turn-around NatHERS and BASIX Reports for residential projects, Section J Reports for commercial projects, based in Sydney CBD and servicing nationwide projects.

**Chase Edwards, 2014**  
*State Sales Manager*

Provided Senior Management Consultancy Services specialising in client-side Property Sales and Marketing, overseeing the management team responsible for \$50,000,000 in annual property sales. Within greater Sydney, Hunter Valley and Central Coast Regions.

# OUR TEAM



**Patricia  
Rocha**

ESD ENGINEER

[Jobs@certifiedenergy.com.au](mailto:Jobs@certifiedenergy.com.au)

Architect and Planner with extensive experience in multinational projects, willing to work for projects that show respect for nature and commitment to the sustainability issues and green star certifications. Experience in design, strategic planning and project management. Including creating conceptual designs, developing architectural and planning projects, generating detailed construction drawings as well as Environmental Impact Assessment Reports for offices in Brazil and Australia.

## ACCREDITATIONS

**Masters of Sustainable Development** 2012  
Macquarie University

**Bachelor of Architecture & Planning** 2008  
Universidade Federal do Rio Janerio

## SKILLS & ACHIEVEMENTS

CERT IV NatHERS Assessment

BERS Pro, AccuRate

Section J Assessments

DTS and JV3 modeling (Design Builder)

BASIX, BESS

Green Star Design and as Build & Performance  
Foundation Courses



## CAREER HIGHLIGHTS

**Certified Energy, 2016 – Present**  
Sustainability Consultant

Energy Efficiency Assessments for residential and commercial projects throughout Australia - Thermal Comfort Software Simulation NatHERS Certification using Bers Pro software.

Thermal modelling and optimisation packages, testing different insulation and window performance combinations to improve energy efficiency.

Preparation of BASIX Certificate, BESS, SDA, Section J NCC 2019 and other compliance reports according to each state/ council requirements.

**BLAC Architecture, 2014**  
Sustainability Architect

Contract role for the design, development and delivery of the Rio 2016 Olympic and Paralympic Games projects.

Overlay and remodelling design, urban and flow studies, integrating strategic areas according to the city plan and the sports categories of each venue.

Involved in designing of athletes' accomodation, training venues and associated facilities. Assessing the impact installations will have on the local environment and the city of Rio de Janeiro.

# OUR TEAM



**Mya  
Rao**

ESD ENGINEER  
jobs@certifiedenergy.com.au

Qualified architect with professional experience in Residential & Commercial design and retail architecture alongside being an ESD consultant. Creative, Performance driven and results oriented professional with passion to learn and create new ideas. Interests in Environment and Climate change adaptation.

## ACCREDITATIONS

**MBA 2018**  
Universal Business School Sydney (UBSS)

**M.Sustainable Built Environment 2016**  
University of New South Wales

**B.Engineering in Architecture 2012**  
Vishveshwaraya Technological University

## SKILLS & ACHIEVEMENTS

BERS pro, AccuRate, Sefaira and Eco tect

Section J assessments

DTS and JV3 modelling (Design Builder)

NatHERS, BASIX

WELL Rating

Green Star



## CAREER HIGHLIGHTS

**Certified Energy, 2016 – Present**  
Sustainability Consultant

Handle projects across Australia providing Section J compliance reports for both commercial and residential buildings in reference to facades. Thermal modeling and NatHERS, NABERS energy star rating certificates.

Delivering of BESS and BASIX compliance reports for NSW and Victoria. Undergo training to learn, understand energy aspects through building energy simulation software ( Design Builder,BERS pro ).

Conducting Green Star Performance, Section J and WELL assessments. Help architects to reduce environmental footprint through improved thermal performances and creating energy efficient building designs.

**Efficient Living, 2017**  
ESD Consultant

**Inhabit Group, 2015**  
ESD Research Assistant

**Environa Studio, 2015**  
Sustainability Consultant

# OUR TEAM



**Shruti  
Thomas**

ESD MANAGER  
jobs@certifiedenergy.com.au

With a Masters of Architectural Science from USYD, Shruti is highly experienced and knowledgeable in the ESD field and has a particular interest in building Energy Analysis and Thermal Comfort. Shruti is an Expert in her field and tutors High Performance Buildings course at Sydney University.

## ACCREDITATIONS

**M.Architectural Science & Technology  
(Sustainable Design) 2016**  
University Of Sydney

**B.Arch. 2013**  
Sathyabama University, Qatar

## SKILLS & ACHIEVEMENTS

Energy Assessment

NABERS, Section J

BASIX Certificates, JV3

WELL

NatHERS

Greenstar

Life Cycle Assessments

CBD Tenancy Lighting Assessment

High Performance Buildings Course Tutor at Sydney University. 2017-2019



## CAREER HIGHLIGHTS

**Certified Energy, 2016 – Present**  
Sustainability Consultant – Team Leader

Provide solutions to improve building energy efficiency for NABERS, Section J of the JV3 assessments, BASIX and NatHERS.

Assessment and preparation of Section J compliance reports for commercial buildings through Deemed to Satisfy (DTS) solution or using Verification methods (JV3) through energy modelling and simulation.

Preparation of Energy Efficiency Reports for residential building as per the National Construction Code or as per the energy rating requirements in respective Australian states using NatHERS.

**Hyundai Engineering& Construction Co.,Ltd. 2013-2014**  
Architectural Facade Engineer

Project: National Museum of Qatar (NMoQ) in collaboration with architect Jean Nouvel.

Coordinating with glazing, insulation and waterproofing sub-contractors and on-site engineers.

Worked in the Facade team for the National Museum of Qatar with the architect Jean Nouvel.

Primary duties included co-ordination, monitoring and solving issues in the facade trade.

# OUR TEAM



**Anu  
Pandey**

ESD ENGINEER  
jobs@certifiedenergy.com.au

Contributing development of sustainable and energy efficient buildings.

Topics of interest are ; produce drawings, reports ,calculations, to support in achieving Green building rating targets (Green Star, LEED BD+C, Infrastructure Sustainability Australia), assess office buildings for energy, water and lighting (NABERS, CBD) for applying Building Energy Efficiency Certification (BEEC), Building performance simulation and modelling (Daylighting, Energy, Thermal).

## ACCREDITATIONS

MSC, Building Science. 2005  
National University of Singapore

B. Arch. (Architecture) 2002  
Institute of Engineering, Tribhuvan University

## SKILLS & ACHIEVEMENTS

Minister for National Development's R&D Award 2011 "Distinguished Award" for innovation in developing the Zero Energy Building.

The Institution of Engineers, Singapore "IES Prestigious Engineering Achievement Awards 2010" for Zero Energy Building.

"Shimizu Design Award" 2014; for contributing to the development of MNC Media tower project, Jakarta, Indonesia.

"Best Paper Finalist Award" 2010; for paper "Singapore's Zero-Energy Building's daylight monitoring system", presented in proceedings of the International Conference on Applied Energy.

"Shimizu Design Award 2016"; for contributing to the development of Vietnam Textiles project, Hanoi, Vietnam.

## CAREER HIGHLIGHTS

**Certified Energy, 2020 – Present**  
Sustainability Consultant

Handle projects across Australia providing Section J compliance reports for both commercial and residential buildings in reference to facades. Thermal modeling and NatHERS, NABERS energy star rating certificates.

Deliver BESS and BASIX compliance reports for NSW and Victoria.

**Shimizu Corporation, Singapore Office, 2018**  
Manager (ESD Design)

Work in a multi-disciplinary team from conception until construction stage of design and build projects. During concept stage, her work primarily involves conducting climatology and weather analysis, solar radiation study, Daylight analysis, thermal simulation, wind flow simulation, cooling load calculation, OTTV, ETTV, RETV calculations, energy modelling to identify passive and active strategies.

Responsible for projects in complying with green rating tools such as Green mark, Green building regulation (Jakarta), Greenship and LEED.

Responsible for working with Greenmark consultants in optimizing energy efficient façade, energy modelling and cooling load calculation.



# OUR TEAM



**Michael  
Hockey**

CLIENT LIAISON MANAGER  
[quote@certifiedenergy.com.au](mailto:quote@certifiedenergy.com.au)

Michael is our Coffee Lover and our Quoting Wizard. He has an amazing eye for detail and a background in Thermal Modelling. Michael will go the extra mile for his clients, as well as for his team.

## ACCREDITATIONS

Certificate IV in Workplace Training & Assessing. 2019

Certificate IV in NatHERS Assessments. 2019

## SKILLS & ACHIEVEMENTS

Section J assessments

BASIX Certification

NatHERS thermal modelling

BERS pro



## CAREER HIGHLIGHTS

Speed – E – Gas (NSW) Pty Ltd. 2003  
Customer Service & Debt Collection

Fitness First Australia. 2006  
Customer Care Manager & Debt Collection

K J & A J Hockey Transport Pty Ltd. 2012  
Accounts Administrator

Kytal Designs. 2013  
Director

Thynk by Tile Direct. 2017  
Warehouse Administrator



# PROFESSIONAL PROMISE

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We know your time is valuable, so we are committed to providing you with a detailed quotation for your development within 2 working hours of receiving your enquiry.

Our experienced and professional team of ESD, engineering and architectural specialists are passionate about and truly understand your needs.

After initial quotation and consultation, our team will let you know our timeframe. We pride ourselves on efficiency and work very hard to meet your project delivery milestones.

To ensure we get it right first time, our work is peer-reviewed by at least one fellow qualified engineer before being delivered to you.

# OUR SERVICES

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## **ESD Consultancy**

We specialise in consulting with architecture, engineering, and other industry professionals to reduce our collective environmental footprint through our unified goal to promote sustainable building and design.

## **NABERS**

NABERS is a national rating system measuring buildings' water usage, energy efficiency, waste management, indoor environment quality (IEQ), and impact on Australia's wider energy usage.

## **JV3**

JV3 assesses assumed overall energy usage of new non-residential buildings. Such assumptions are based on reference buildings, with respect to their location and climate.

## **BEEC**

Building Energy Efficiency Certification measures lighting system power density. BEEC is valid for 12 months and is required for the sale and lease of commercial buildings >1,000m<sup>2</sup>



## **Green Star**

Green Star is a prestigious accreditation where sustainable building design, construction and operation is recognised by a third party. Certified Energy is an independent Green Star Assessor.

## **WELL**

The WELL Standard is a performance-based system measuring buildings' impact health and wellbeing through 7 key concepts: air, water, nourishment, light, fitness, comfort and mind.

## **Tenancy Lighting Assessment**

TLA measures the power density of the general lighting system installed in the tenant's office space. The objective is to demonstrate the efficiency level of the installed/suggested lighting systems.

## **LEED**

LEED is a rating system measuring overall environmental impact of a building to encourage new developments toward sustainable design. LEED Certification also promotes occupants wellbeing.

## **ISCA**

The Infrastructure Sustainability Council of Australia evaluates building practices using the IS rating scheme, a comprehensive tool measuring sustainable design, construction and operation.



# PAST PROJECTS

Our sustainability professionals have worked on thousands of residential projects across Australia. We create sustainable star ratings for residential projects that will fit your personal preference in a timely, reliable and cost-effective way.



## Section J



### **Pierre Germani Arcade Shopping Sydney CBD**

Address: Pierre Jewellers, The Strand Arcade Shopping Centre, Sydney

The design assessment of this proposed development was done according to the Deemed-to-Satisfy (DtS) requirements of Section J of the Building Code of Australia 2016. To achieve a sustainable outcome for this jewellery store whilst ensuring that the presentation of the goods inside remained of utmost importance, maximum design lighting power was prioritised and enabled through the use of LEDs and switches, daylight sensors and time sensors. No changes needed to be made to the construction elements of the store and thus, building integrity was maintained as required.

## Section J



### **Bankstown Club & 253 Hotel Rooms**

Address: 23-27 Marion Street, Bankstown

Site area: 5201m<sup>2</sup>

The Evidence of Suitability method adopted for this project was the Deemed-to-Satisfy (DtS) provisions of Section J of the Building Code of Australia Volume 1. To satisfy these provisions, performance requirements included (but were not limited) were that of the Total R-Values of roofs, walls and floors, the glazing allowances, and the air movement requirements. To provide a more detailed report, testing of and the installation of insulation, thermal breaks, compensation for downlights, floor edge insulation and detailed provisions for building sealing were also included.

These requirements were assessed to satisfy the nine main sections in the BCA/NCC from Part J0-J8.

## Section J



### **Drummoyne Rowing Club**

Address: 461 Henley Marine Drive, Drummoyne

Site area: 1668m<sup>2</sup>

461 Henley Marine Drive was a proposed development for a rowing club right on the edge of Parramatta River, near the Iron Cove Bridge. Boasting a wide-open view of the river, it didn't come without its disadvantages and thus, required adequate insulation and design features prescribed under the Deemed-to-Satisfy (DtS) provisions of Section J of the Building Code of Australia.

## Section J



### **BUPA Wodonga VIC**

Address: 11-19 Melrose Drive, West Wodonga

Site area: 18110m<sup>2</sup>

A modern aged care facility set in the heart of Windsor, Melbourne; BUPA Aged Care occupies over 18000m<sup>2</sup> of land complete with outdoor urban ecology and sophisticated architectural design. For this project, it was incredibly important to consider the occupants within the facility, re-use existing components of the construction, and also consider the drastic temperature ranges during Summer and Winter. To do so, a Deemed-to-Satisfy (DtS) method was adopted to propose a few new construction elements and the appropriate insulation for all construction elements if necessary.

# JV3



## Woolworths Dakabin QLD

Address: 1 Alma Road, Dakabin

Site area: 27800m<sup>2</sup>

A proposed Class 6 development with warehouse, retail, childcare, storage and food and drink facilities, located in the NCC climate zone 2. The proposed development did not satisfy all the provisions set out in the NCC 2016 Deemed-to-Satisfy and therefore, an alternative solution was sought after through the JV3 verification method. To achieve a passing solution, the reference building being compared to was modelled as per the DtS provisions and it was determined that additional insulated needed to be included in the walls and in doing so, we were able to maintain the use of single-glazed windows throughout the development.

# JV3



## **The Royce Retirement Village**

Address: 123-135 Mulgoa Road, Penrith

The Royce Retirement Village fell under a Class 9c aged care building containing Class 5 office spaces and Class 6 retail spaces located in NCC climate zone 6. It was initially recommended that the JV3 verification methods were utilised for this assessment and thus, a reference building that was DtS compliant was used. Additional insulation was added to the roof, walls, and suspended floor above the basement carpark to compensate for the request to maintain the use of single glazed windows. Ultimately, these suggestions resulted in a decrease in annual energy consumption and a successful planning application.

# NABERS



## Queen St Campbelltown

Address: 241 Queen Street, Campbelltown

Site area: 1401m<sup>2</sup>

Within this project, we were able to achieve an energy rating of 5-stars which as described the NABERS rating tool, symbolises that the office has achieved excellent performance which reflected excellent design and management practices along with strong energy efficiency systems. To ensure that such a rating was achieved, the hours of occupancy, number of computers in use during these hours and the energy consumption and metering were all assessed. Given that the building is relatively old and most likely continues to use single-glazed windows, this was an above average and favourable outcome.

# CFD Modelling



## **Lanes Apartments**

Address: Lakeview Boulevard, The Lakes, Mermaid Waters

For this project we were contracted by a leading provider of fans and air ventilation technologies to certify the minimum performance requirements of Australian Standards as per the methodology for performance application to carpark ventilation outlined in Appendix N, AS 1668.2-2012. To do so, the mechanically ventilated carpark was modelled using Computation Fluid Dynamics (CFD) to achieve CO levels below what was referenced in Appendix N, AS 1668.2.

# CONTACT US

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St, The Rocks NSW 2000

**Perth Office**

77 St Georges Terrace,  
Perth WA 6000

**Gold Coast Office**

2 Starling St, Burleigh  
Heads QLD 4220



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Leading Local Sustainability