



Australia's  
Global  
University

# Cooperative Research Centre for Low Carbon Living

## Carbon reduction and energy efficiency technologies

### DESCRIPTION of YOUR TECHNOLOGIES

- Carbon emissions reduction and energy efficiency/productivity improvements in the built environment
- Low carbon building products, services and life cycle assessment
- Models, guidelines, standards and data for delivering low carbon developments from a building → precinct → city scale
- Best practice planning and regulation for sustainable (triple bottom line) and liveable cities
- Decision support & community engagement tools
- Living laboratories – end-user driven open research and innovation facilities

### SPECIALISTS IN LOW CARBON

Established in 2013, we are a multidisciplinary research hub that brings together researchers from multiple faculties across eight universities in Australia with 20 industry and 17 government partners to develop innovative tools and technologies for the built environment addressing decarbonisation and energy efficiency.

### THE TOOLS OF OUR TRADE

- Access to leading researchers across Australia
- Networked with industry and government
- Access to the intellectual property and tools of our industry and government partners to advance individual projects
- Part of the Cooperative Research Centres Programme - a competitive, merit based grant programme that supports industry-led and outcome-focused collaborative research partnerships between industry, researchers and the community
- Membership of key industry associations

### COMPETITIVE ADVANTAGES OF YOUR TECHNOLOGIES

- We are leaders in applied and end-user driven research addressing carbon emissions reduction in the built environment (which includes transport and all other social and technological systems)
- We assess, prototype, trial and improve innovative and creative tools, systems and processes.

### SELECTED RECENT PROJECTS and TRACK RECORD

- Research catalysed the creation of a market leading solar analytics company and a blockchain/energy tracking and accounting organisation
- Developed geopolymers concrete, HVAC and PVT technologies
- Awarded the NSW Government's Energy Efficiency Research Node
- Suite of ~100 delivered or in-progress applied research projects

### OUR EXPERTS

**Scientia Professor Deo Prasad AO, CRCLCL**  
Chief Executive Officer, CRCLCL. International authority on sustainable buildings and cities

**Professor Mattheos Santamouris, UNSW**  
Professor, High Performance Architecture UNSW and University of Athens, Greece; visiting Professor at universities including London Metropolitan, Tokyo Polytechnic, Bolzano, Brunel and Singapore National

**Associate Professor Alistair Sproul, UNSW**  
Program Leader 'Integrated Building Systems'. Associate Professor, School of Photovoltaic and Renewable Energy Engineering

**Dr Stephen White, CSIRO**  
Program Leader 'Engaged Communities'. Leads the Energy for Buildings research in CSIRO

**Dr Lan Ding, UNSW**  
UNSW Node Leader, CRCLCL, Convenor of High Performance Architecture Research Cluster, Senior Lecturer, UNSW Built Environment