

Speakers

1. Keynote speaker: Stephen Bygrave, Director Climate Resilience and Net Zero Emissions, NSW Department of Planning, Industry and Environment
2. Mitra Anderson-Oliver, Head of Urban Design & Strategy, Impact Investment Group
3. Glenn Day, Director, National Sales & Public Affairs, STIEBEL ELTRON
4. Kelly Davies, Partner, Norton Rose Fulbright Australia
5. Carlos Flores, Director, NABERS
6. Steve Ford, Head of Sustainability and Energy, GPT
7. James Grant, Practice Leader, Design + Planning Sydney, AECOM
8. Heidi Lee, Chief Operating Officer, Beyond Zero Emissions
9. Rory Martin, Sustainability Manager, Frasers Property Australia
10. Emma McMahon, National Director Sustainability, CBRE
11. Elham Monavari, Senior Manager – Strategic Projects, Green Building Council of Australia
12. David Palin, Sustainability Manager, Mirvac
13. Clare Parry, Director, Grun Consulting
14. Bruce Precious, Principal Consultant, Six Capitals
15. Craig Roussac, Chief Executive Officer, Buildings Alive
16. Alistair Sproul is Head of School, School of Photovoltaic and Renewable Energy Engineering, University of New South Wales
17. Martijn Wilder AM, Founding Partner, Pollination
18. Siân Willmott, Principal Sustainability Consultant, Sustainability Team Lead, Victoria, AECOM

Plus cameo appearances from the audience.

Program

10:00am Doors open for networking

Visit the help desk for any questions about using the virtual conferencing platform.

11:00am – 11:10am Acknowledgement of Country and welcome

Tina Perinotto and Poppy Johnston, The Fifth Estate

11:10am Session 1: Government levers and private action

Provocation

Some government jurisdictions are more advanced than others. For instance, some just have targets, but they don't have the legislation to get there. What are the major drivers from government, global organisations and the private sector to achieve a net zero economy in the macro economic environment and in the built environment? What do investors want and what gets them excited? And what about big investors whose websites have all the right words like sustainability, climate change, low carbon but then buy toll roads? Urban planning has not much to do with all-electric buildings and net zero. Really?

11:10am – 11:25am (Keynote speaker) Stephen Bygrave, Director Climate Resilience and Net Zero Emissions, NSW Department of Planning, Industry and Environment

NSW's net zero programs that impact the built environment.

11:25am – 12:10pm Panel discussion

Panellists:

- **Stephen Bygrave**, NSW DPIE
- **James Grant**, Practice Leader, Design + Planning Sydney, AECOM
- **Mitra Anderson-Oliver**, Head of Urban Design & Strategy, Impact Investment Group
- **Martijn Wilder AM**, Founding Partner, Pollination

Moderator: **Heidi Lee**, Chief Operating Officer, Beyond Zero Emissions

12:10pm Session 2: What two big REITs are doing

Tina Perinotto will introduce the next two presenters who will tell us what their companies are doing in this space.

Pannellists:

- **Steve Ford**, Head of Sustainability and Energy, GPT
- **David Palin**, Sustainability Manager, Mirvac

Cameo:

- **Maria Atkinson**, co-founder of the Green Building Council of Australia and former commissioner for the Greater Sydney Commission

Setting up our prototype

During our discussions, we will be gathering information for a prototype Net Zero all-electric precinct that's climate-resilient and Covid safe. We've got a \$1 billion budget. What will our precinct space look like? Feel like? How much retail, residential and offices will it have?

What's the ideal energy system and how will the heating and cooling systems need to work?

What about the existing buildings on the site – how do we convert those to net zero and how do we get tenants and occupants doing their bit?

Michael Jones from Allen Jack+Cottier Architects will be on hand to sketch up possible solutions and keep visual notes throughout the day.

But why a precinct?

Let's ask Maria Atkinson, co-founder of the Green Building Council of Australia and former commissioner for the Greater Sydney Commission

Something to think about during lunch.

12.30pm-1pm Lunchtime discussion and networking

Here's your opportunity to start discussing the big challenges standing in the way of our all-electric, net zero precinct. Thinking caps on because we'll be looking for the best questions and ideas of the day and announcing winners at the end of the day.

1 pm-2pm Session 3: The nuts and bolts of achieving net zero, all electric buildings and cities

Provocations

Building design and fabric is not so urgent if you've got a 100 per cent renewable grid. Are facades as much for aesthetics as for function? Indoor air quality is going to be really expensive and difficult now that the fires and Covid have demanded much better performance and fresh air. District heating and cooling is too hard; it's been tried and failed. But why? What's all the fuss about heat pumps? Are they the silver bullet? Not unless we get rid of the all the rules and regs standing in the way. But it's refrigerants that could be the spanner in the works and ruin our good work. And okay to get new builds net zero and all-electric – easy as – not so much existing. Too hard, too expensive. Retrofitting facades alone for shading is a nightmare and you never recoup the spend or embodied carbon of doing so. What about embodied carbon – something for another discussion?

Panellists:

- **Glenn Day**, Director National Sales & Public Affairs, STIEBEL ELTRON
- **Steve Ford**, Head of Sustainability and Energy, GPT
- **David Palin**, Sustainability Manager, Mirvac
- Alistair Sproul, School of Photovoltaic and Renewable Energy Engineering – electricity/biogas/hydrogen
- **Siân Willmott**, Principal Sustainability Consultant, Sustainability Team Lead, Victoria

Cameos:

- **Adam Murchie**, Forza Capital from the audience: on transforming exiting buildings
- **Caroline Noller**, The Footprint Company on embodied carbon

Moderators: **Bruce Precious**, Six Capitals and **Poppy Johnston**, The Fifth Estate

2pm-2.05pm Break to see what Michael Jones from Allen Jack+Cottier Architects has been sketching.

2.05pm-2.45pm Session 4: People – tenants, occupants and the drivers to make it all happen

Provocations

You can have a six star building and a two star tenant. It's time to put pressure on the tenants and occupants to do their bit on net zero. Major corporates and organisations are starting to feel the heat from global warming through their investors, stakeholders and...just about everyone. Can they spin their way out of the ethical/sustainable supply chain challenge? Power purchase agreements can solve a lot of issues, or not? Is demand management, reformation of the grid, and bringing tenants along who "don't know don't care" the next frontier? Are ratings really big drivers of change? What do tenants really want and do owners have much of a clue?

Panellists:

- **Kelly Davies**, Partner, Norton Rose Fulbright Australia, expert on Power Purchase Agreements

- **Carlos Flores**, Director, NABERS
- **Emma McMahon**, National Director Sustainability, CBRE
- **Craig Roussac**, Chief Executive Officer, Buildings Alive

Moderators: **Bruce Precious**, Six Capitals and **Tina Perinotto**, The Fifth Estate

2:45pm-2:50pm: Break to see what Michael Jones from Allen Jack+Cottier Architects has been sketching.

2:50pm-3.30pm Session 5: Making homes net zero – same, same but different

Provocations

Passive House will make electric buildings a breeze, but not in Brisbane where no one much wants this airtight system. Carbon offsetting homes is a thing now. How? It's almost impossible to get apartments off fossil fuels. Embedded networks could be a solution, but what about choice for the consumer. It's a birthright, right? Gas is still better for cooking, says Master Chef (and we're all Master Chefs now, right?). Architects are losing their edge on energy efficiency because it's cheaper to get an ESD consultant. Do we really need to be carbon neutral? Now? Volume builders have discovered low carbon. Discuss. Ah but the cost is too much for first home buyers. We don't have the funding models. The rating systems are totally confusing and need a full national overhaul.

Panellists

- **Rory Martin**, Sustainability Manager, Frasers Property
- **Clare Parry**, director, Grun Consulting
- **Elham Monavari**, Senior Manager Strategic Projects, GBCA

Cameos:

- **Jeremy McLeod**, Breathe Architecture and Nightingale Housing
- **Tim Forcey**, on the consumer housing sentiment, with My Efficient Electric Home
- **PC Thomas**, Team Catalyst

Moderators: **Heidi Lee**, Beyond Zero Emissions and **Tina Perinotto**, The Fifth Estate

3:30pm-3:35pm Concluding remarks

Poppy Johnston, The Fifth Estate

Networking open until the last guest leaves