



# IREE 2019 Draft Program - Day 1

This is a draft program only and is subject to change

## Monday 15 April 2019 | Outlining the Problems

8:00am	Registration Opens		
9:00am - 9:30am	CONFERENCE OPENING CEREMONY		
	Podium Rooms 3 & 4		
	<b>Opening Address</b> Dr Rowan Bedggood, Chair, GEER Australia  <b>Welcome to Country</b> Songwoman Maroochy		
9:30am - 10:00am	KEYNOTE PRESENTATIONS		
	Podium Rooms 3 & 4  <b>ENERGY CULTURES AND ENERGY EFFICIENCIES</b> Dr Janet Stephenson, University of Otago, New Zealand <i>Chair: Professor Rebekah Russell-Bennett, Queensland University of Technology</i>		
10:00am - 10:30am	<b>SOCIAL HOUSING TENANTS' EVERYDAY EXPERIENCES OF FUEL POVERTY: SPACES OF ENERGY WELL-BEING</b> Professor Gordon Waitt, University of Wollongong <i>Chair: Professor Ross Gordon, Queensland University of Technology</i>		
10:30am - 11:00am	Morning Tea		
11:00am - 12:30pm	Concurrent Session 1		
	<b>SESSION 1.1</b> Advancing Energy Policy, Research and Practice  <b>Chair: Kevin Chadwick</b>	<b>SESSION 1.2</b> Energy Efficiency and Buildings, Materials and Appliances  <b>Chair: Mark Goldsworthy</b>	<b>SESSION 1.3</b> Energy, Health and Wellbeing  <b>Chair: Caroline Fyfe</b>
	Podium Room 2	Podium Room 3	Podium Room 4
	11:00am - 11:15am  <b>Hug, Nudge, Shove or Smack? Using Behavioural Interventions to Shift Energy Demand</b> Rebekah Russell-Bennett, Queensland University of Technology	11:00am - 11:15am  <b>The Residential Efficiency Scorecard and Sustainable House Day</b> Romney Bishop, Department of Environment, Land, Water & Planning	11:00am - 11:15am  <b>Outcomes of Energy Efficiency Support Programs: it is More than Just Reducing Energy Use and Bills</b> Rowan Bedggood, Swinburne University of Technology
11:15am - 11:30am  <b>CSIRO Energise: A New Method For Integrative Energy Consumer Research</b> Elisha Frederiks, CSIRO	11:15am - 11:30am  <b>The Case of Wood in a Circular Economy</b> Lars Lindbergh, Umea University, Sweden	11:15am - 11:30am  <b>Integrating Energy Efficiency and Hardship Improvements into the Care at Home System – Stakeholder Perspectives</b> Nicola Willand, RMIT	
11:30am - 11:45am  <b>The Behavioural Economics of Household Energy Decisions: Towards a Predictably Irrational Choice Model</b> Kevin Chadwick, Department of the Environment & Energy	11:30am - 11:45am  <b>Grid-Connected Net Zero Energy Houses vs Off-Grid Housing in Australia under Current and Future Global Warming Climates</b> Zhengen Ren, CSIRO	11:30am - 11:45am  <b>The Hidden Social Impact of Energy</b> Lobada Idris, Landcom	
11:45am - 12:00pm  <b>Dynamic Estimation of Air-conditioning Loads and PV Generation from Aggregate Electricity Data</b> Nariman Mahdavi, CSIRO	11:45am - 12:00pm  <b>Thermal Sensation Preferences for a Tropical Savannah Population and the Implications on Energy Consumption</b> Jeremy Trombley, Charles Darwin University	11:45am - 12:00pm  <b>Houses and Homes: Exploring Energy Efficiency Action Effectiveness Across Types of Households</b> Aron Perenyi, Swinburne University of Technology	
12:00pm - 12:15pm  <b>Using Survey Data to Explore Drivers and Indicators of Residential Electricity Use</b> Lachlan O'Neil, CSIRO	12:00pm - 12:15pm  <b>Residential Gas Use in Australia; a Pathway to Lower Greenhouse Gas Emissions?</b> Mark Goldsworthy, CSIRO	12:00pm - 12:15pm  <b>A Quantitative Study Assessing the Long Term Impact of Home Insulation on Residents Health</b> Caroline Fyfe, Massey University, New Zealand	
12:15pm - 12:30pm  <b>Understanding the Energy Consumer</b> Desley Vine, Queensland University of Technology	12:15pm - 12:30pm  <b>Victorian Residential Efficiency Scorecard – National Energy Productivity Plan Pilot</b> Hugh Bartram, Department of Environment, Land, Water & Planning	12:15pm - 12:30pm  <b>High-Rise High-Density Living: The Emergence of an Energy Vulnerable Sector</b> Janette Corcoran, Swinburne University of Technology	
12:30pm - 1:30pm	Lunch		

Concurrent Session 2			
1:30pm - 2:30pm	SESSION 2.1 Advancing Energy Policy, Research and Practice	SESSION 2.2 Energy Efficiency and Buildings, Materials and Appliances	SESSION 2.3 Energy, Health and Wellbeing
	Chair: Phillipa Watson	Chair: Zhengen Ren	Chair: Diana Hernández
	Podium Room 2	Podium Room 3	Podium Room 4
1:30pm - 1:45pm	<b>Renewable Energy Generation at Home – Motivations to Trade Energy</b> Phillipa Watson, University of Tasmania	<b>6 Stars and Beyond – How the Residential Building Industry is Achieving the Energy Efficiency Requirements</b> Michael Ambrose, CSIRO	<b>Healthy Homes: A Randomised Control Trial of 1,000 Vulnerable Households</b> Scott Kelly, University of Technology Sydney
1:45pm - 2:00pm	<b>Embracing Machine Learning: Understanding Customer Engagement Segments with Energy Technology</b> Ryan McAndrew, Queensland University of Technology	<b>The Effectiveness of Macro-encapsulated Phase Change Materials in Australian Residential Building</b> Seung Ho Lee, University of South Australia	<b>“De-weathering” through Weatherization: A Conceptual Application of the Weathering Hypothesis to the Energy Insecurity and Stress Nexus</b> Diana Hernández, Columbia University, United States of America
2:00pm - 2:15pm	<b>Trajectory for Low Energy Buildings</b> Jodie Pipkorn, Department of the Environment & Energy	<b>Analysis of Impact of Air Leakage on Housing Energy Efficiency</b> Zhengen Ren, CSIRO	<b>Energy Efficiency and Thermal Comfort in NSW Social Housing: Real World Evaluation of Upgrade Strategies</b> Daniel Daly, University of Wollongong
2:15pm - 2:30pm	<b>Investigating the Energy Efficiency Conversation in the Australian Volume Home Building Sector</b> Erika Bartak, University of Melbourne	<b>Where to from here for Residential Energy Efficiency Standards in Australia? – A Practitioner’s Perspective</b> Steve Watson, Red Sustainability Consultants	<b>Power Disconnections in Remote Indigenous Communities: Impacts on Health and Wellbeing</b> Petra Buergelt, Charles Darwin University
How To' Professional Development Workshops			
2:30pm - 3:30pm	Professional Development Workshop 1	Professional Development Workshop 2	Professional Development Workshop 3
	Podium Room 2	Podium Room 3	Podium Room 4
	<b>How to Write Proposals to Gain Government Funding</b> Martin Jones, Victorian Department of Environment, Land, Water and Planning	<b>How to Inform the Next Generation Residential Energy Assessment Tools</b> Lachlan Mudge, Barbara Hardy Institute	<b>How to Measure Health and Energy Outcomes</b> Professor Scott Kelly, University of Technology Sydney
3:30pm - 4:00pm	Afternoon Tea		
CHALLENGE OF THE DAY			
4:00pm - 5:00pm	Podium Rooms 3 & 4		
	<b>Expert Panel: Multiple Perspectives on the Changing Energy Landscape</b> A panel of experts from policy, practice and research will pitch their top three priorities to tackle the challenge. Delegates will then vote in an online poll for their preferred solution.  Neil Horrocks, Redback Technology, Rosemary Sinclair, Energy Consumers Australia & TBA <i>Chair: Professor Ross Gordon, Queensland University of Technology</i>		
5:00pm	End of Day 1		



# IREE 2019 Draft Program - Day 2

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## Tuesday 16 April 2019 | Proposing Solutions

8:00am	Registration Opens		
	KEYNOTE PRESENTATIONS		
	Podium Rooms 3 & 4		
9:00am - 9:30am	<b>THE FUTURE OF ENERGY AND TRANSPORTATION</b> Dr Wen Wu, data61 <i>Chair: Professor Ross Gordon, Queensland University of Technology</i>		
9:30am - 10:00am	<b>AFFORDABLE CLEAN ENERGY FOR PEOPLE ON LOW INCOMES</b> Kellie Caught, Australian Council of Social Service <i>Chair: Dr Rowan Bedggood, Swinburne University of Technology</i>		
10:00am - 10:30am	Morning Tea		
	Concurrent Session 3		
10:30am - 12:00pm	<b>SESSION 3.1</b> <b>Energy Efficiency and Buildings, Materials and Appliances</b> <b>Chair: Erika Bartak</b>	<b>SESSION 3.2</b> <b>Energy Justice and Affordability</b> <b>Chair: Luke Reade</b>	<b>SESSION 3.3</b> <b>Energy, Health and Wellbeing</b> <b>Chair: Rowan Bedggood</b>
	Podium Room 2	Podium Room 3	Podium Room 4
10:30am - 10:45am	<b>Collecting and Analysing Indoor Temperatures for Health: A Review of Methods</b> Nicolla Willand, RMIT University	<b>Getting Households on Board with Demand Management</b> James Bulinski, CitySmart	<b>The Well-being of Aboriginal Staff when Providing Energy Efficiency Support to Aboriginal Households is Important Too</b> Rowan Bedggood, Swinburne University of Technology
10:45am - 11:00am	<b>Is the Current Regulatory Framework for Energy Efficiency Failing Small Inner-Urban House Design?</b> Erika Bartak, University of Melbourne	<b>Small-Scale Renewables Uptake for Low-Income Households</b> Oshan Jayawardena, University of Tasmania	<b>Use of Energy to Maintain Health and Well-being in Older Households</b> Theresa Harada, Macquarie University
11:00am - 11:15am	<b>The Impact of Colorbond Roof Color on Internal Temperature, Livability and Comfort in New Low Cost Homes</b> Jessie Parrish, City of Gosnells	<b>Low-income Rental Households and PV: The Reluctant Prosumer</b> Ellis Judson, Swinburne University of Technology	<b>Using Household Personas for Co-Designing Messages and Communications Strategies for Electricity Demand Management</b> Kate Letheren, Queensland University of Technology
11:15am - 11:30am	<b>Desiccant Evaporative Cooling Systems for Brisbane Climate</b> Ramadas Narayanan, CQ University	<b>Does the Energy Efficiency of a New Dwelling Vary with the Socio-economic Status of the Area in Which it is Built?</b> Melissa James, CSIRO	<b>Ignite*Energy: Can using Virtual Reality (VR) Experiences Encourage Energy Efficient and Pro-environmental Behaviours?</b> Tracey Benson, University of Canberra
11:30am - 11:45am	<b>A Machine Learning Approach for Modelling Air-Conditioner Heating Behaviour</b> Ying Guo, CSIRO	<b>Shifting Power: Improving Choice and Control Through Energy Efficiency Standards for Rental Housing in Queensland</b> Luke Reade, QCOSS	<b>Multi-owned Residences: Barriers to Energy Efficiency in High-Rise High-Density Apartment Blocks</b> Janette Corcoran, Swinburne University of Technology
11:45am - 12:00pm	<b>Good Night = Good Light</b> Ofer Keren, Keren Energy, Israel	<b>Addressing Energy Poverty and Affordability for a Just Transition to Net Zero Emissions in the ACT</b> Su Wild-River, ACT Government, Environment, Planning & Sustainable Development Directorate	<b>Measuring Multiple Impacts of Energy Efficiency for Low Income Households</b> Lee Huuskes, NSW Office of Environment & Heritage
12:00pm - 1:00pm	Lunch		
	Interactive Roundtable Sessions		
1:00pm - 2:00pm	<b>Interactive Roundtable 1</b> <b>Podium Room 2</b>	<b>Interactive Roundtable 2</b> <b>Podium Room 3</b>	<b>Interactive Roundtable 3</b> <b>Podium Room 4</b>
	<b>Emerging Technologies and Energy Futures: Power to the Consumer?</b> Kate Letheren, Queensland University of Technology	<b>How can Energy Researchers, Think-tanks and Practitioners Collaborate to Advance Energy Policy in Australia?</b> Rob Murray-Leach, Energy Efficiency Council	<b>Are We There Yet? Is the 6 Star Thermal Rating Good Enough and Should We Now Focus on Other Aspects to Improve Dwelling Energy Efficiency?</b> Michael Ambrose, CSIRO
	Concurrent Session 4		

2:00pm - 3:30pm	SESSION 4.1 Advancing Energy Policy, Research and Practice	SESSION 4.2 Energy Justice and Affordability	SESSION 4.3 Energy and Technology
	Chair: Kerry Connors	Chair: Lynne Gallagher	Chair: Saskia Neale
	Podium Room 2	Podium Room 3	Podium Room 4
2:00pm - 2:15pm	<b>Policy Considerations from Victorian Energy Efficiency Retrofit Programs for Low Income Households (Interim Assessment)</b> Martin Jones, Department of Environment, Land Water & Planning	<b>Consumer Attitudes and Experiences in Energy Markets</b> Lynne Gallagher, Energy Consumers Australia	<b>Taking the Power Back Through Gamification and Serious Games</b> Lucas Whittaker, Queensland University of Technology
2:15pm - 2:30pm	<b>Power Shift: Translating Consumer-focused Research to Action</b> Kerry Connors, Energy Consumers Australia	<b>How Can the Private Rental Sector Participate in the Transition to a Low Carbon Future?</b> Michaela Lang, Monash University	<b>Digital Assistants, Mature Consumers and Behaviour Change: Does Appearance and Gender Matter?</b> Helen Bocking, Queensland University of Technology
2:30pm - 2:45pm	<b>Scaling Change that Will Last - Lessons for Second Generation Energy Efficiency Schemes from a Market Impact Evaluation of NSW Energy Efficiency Programs</b> Henry Adams, Common Capital	<b>Energy Efficiency, Thermal Comfort and Well-being in Vulnerable Households</b> Deepu Krishnan, University of Technology Sydney	<b>The Valuation and Security of Smart City Data</b> Saskia Neale, Queensland University of Technology
2:45pm - 3:00pm	<b>Ignite*Energy: Harnessing Diverse Knowledges to Improve Energy Efficiency and pro-Environmental Behaviours</b> Tracey Benson, Department of the Environment & Energy	<b>Energy Efficiency Retrofits to Support Low-Income Households in Victoria - Learnings from the Home Energy Assist Affordable Retrofits Trial</b> Emma Chessell, Brotherhood of St Laurence	<b>Energy Efficiency in Apartment Buildings – Empowering Strata Communities to Move Toward Net Zero Emissions</b> Melinda Dewsnap, City of Sydney
3:00pm - 3:15pm	<b>The Case of How Software Platforms can Better Facilitate Home Energy Retrofits: BOOM!-Partners</b> Alex Houlston, Boompower Pty Ltd	<b>The Nexus of Energy Use, Ageing, and Health and Well-being among Older Australians</b> Ross Gordon, Queensland University of Technology	<b>Fuel Switching and Preferred Energy Sources: The Case of Space Heating</b> Lygia Romanach, CSIRO
3:15pm - 3:30pm	<b>Residential Energy Efficiency: Growing Beyond the Household</b> Glenn Crompton, Queensland University of Technology	<b>Energy, Poverty, and Health: A Conceptual Review of Dimensions, Applications, and Implications for Health</b> Diana Hernández, Columbia University, United States of America	<b>The Performance Gap</b> Jessica Allen, SUHO
3:30pm - 4:00pm	Afternoon Tea		
4:00pm - 4:45pm	<b>CHALLENGE OF THE DAY</b>		
	Podium Rooms 3 & 4		
	<b>Debate: Fusing Technical and Social Sciences</b> A panel of experts from policy, practice and research will pitch their top three priorities to tackle the challenge. Delegates will then vote in an online poll for their preferred solution.  Rob Murray-Leach, Energy Efficiency Council, Rowan Bedggood, Swinburne University of Technology & TBA <i>Chair: Professor Rebekah Russell-Bennett, Queensland University of Technology</i>		
4:45pm - 5:00pm	<b>Behavioural Economics, Energy and Initiatives of QUT's B.E.S.T. Centre</b> Professor Uwe Dulleck, Queensland University of Technology		
5:00pm - 5:15pm	<b>Closing Address</b> Dr Rowan Bedggood, Chair, GEER Australia		
6:30pm onwards	<b>Conference Awards Dinner</b> Level 12 Rooftop, Rydges South Bank		