



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		
9:00am - 9:30am	Opening Address Dr Rowan Bedggood, Chair, GEER Australia		
	Welcome to Country Songwoman Maroochy		
9:30am - 10:00am	KEYNOTE PRESENTATIONS		
	Podium Rooms 3 & 4		
9:30am - 10:00am	ENERGY CULTURES AND ENERGY EFFICIENCIES Dr Janet Stephenson, University of Otago, New Zealand <i>Chair: Professor Rebekah Russell-Bennett, Queensland University of Technology</i>		
10:00am - 10:30am	SOCIAL HOUSING TENANTS' EVERYDAY EXPERIENCES OF FUEL POVERTY: SPACES OF ENERGY WELL-BEING 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		
	SESSION 1.1 Advancing Energy Policy, Research and Practice	SESSION 1.2 Energy Efficiency and Buildings, Materials and Appliances	SESSION 1.3 Energy, Health and Wellbeing
	Chair: Kevin Chadwick	Chair: Mark Goldsworthy	Chair: Caroline Fyfe
	Podium Room 2	Podium Room 3	Podium Room 4
11:00am - 11:15am	Hug, Nudge, Shove or Smack? Using Behavioural Interventions to Shift Energy Demand Rebekah Russell-Bennett, Queensland University of Technology	The Residential Efficiency Scorecard and Sustainable House Day Romney Bishop, Department of Environment, Land, Water & Planning	Outcomes of Energy Efficiency Support Programs: it is More than Just Reducing Energy Use and Bills Rowan Bedggood, Swinburne University of Technology
11:15am - 11:30am	CSIRO Energise: A New Method For Integrative Energy Consumer Research Elisha Frederiks, CSIRO	The Case of Wood in a Circular Economy Lars Lindbergh, Umea University, Sweden	Integrating Energy Efficiency and Hardship Improvements into the Care at Home System – Stakeholder Perspectives Nicola Willand, RMIT
11:30am - 11:45am	The Behavioural Economics of Household Energy Decisions: Towards a Predictably Irrational Choice Model Kevin Chadwick, Department of the Environment & Energy	Grid-Connected Net Zero Energy Houses vs Off-Grid Housing in Australia under Current and Future Global Warming Climates Zhengen Ren, CSIRO	The Hidden Social Impact of Energy Lobada Idris, Landcom
11:45am - 12:00pm	Dynamic Estimation of Air-conditioning Loads and PV Generation from Aggregate Electricity Data Nariman Mahdavi, CSIRO	Thermal Sensation Preferences for a Tropical Savannah Population and the Implications on Energy Consumption Jeremy Trombley, Charles Darwin University	Houses and Homes: Exploring Energy Efficiency Action Effectiveness Across Types of Households Aron Perenyi, Swinburne University of Technology
12:00pm - 12:15pm	Using Survey Data to Explore Drivers and Indicators of Residential Electricity Use Lachlan O'Neil, CSIRO	Residential Gas Use in Australia; a Pathway to Lower Greenhouse Gas Emissions? Mark Goldsworthy, CSIRO	A Quantitative Study Assessing the Long Term Impact of Home Insulation on Residents Health Caroline Fyfe, Massey University, New Zealand
12:15pm - 12:30pm	Understanding the Energy Consumer Desley Vine, Queensland University of Technology	Victorian Residential Efficiency Scorecard – National Energy Productivity Plan Pilot Hugh Bartram, Department of Environment, Land, Water & Planning	High-Rise High-Density Living: The Emergence of an Energy Vulnerable Sector 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	Renewable Energy Generation at Home – Motivations to Trade Energy Phillipa Watson, University of Tasmania	6 Stars and Beyond – How the Residential Building Industry is Achieving the Energy Efficiency Requirements Michael Ambrose, CSIRO	Healthy Homes: A Randomised Control Trial of 1,000 Vulnerable Households Scott Kelly, University of Technology Sydney
1:45pm - 2:00pm	Embracing Machine Learning: Understanding Customer Engagement Segments with Energy Technology Ryan McAndrew, Queensland University of Technology	The Effectiveness of Macro-encapsulated Phase Change Materials in Australian Residential Building Seung Ho Lee, University of South Australia	“De-weathering” through Weatherization: A Conceptual Application of the Weathering Hypothesis to the Energy Insecurity and Stress Nexus Diana Hernández, Columbia University, United States of America
2:00pm - 2:15pm	Trajectory for Low Energy Buildings Jodie Pipkorn, Department of the Environment & Energy	Analysis of Impact of Air Leakage on Housing Energy Efficiency Zhengen Ren, CSIRO	Energy Efficiency and Thermal Comfort in NSW Social Housing: Real World Evaluation of Upgrade Strategies Daniel Daly, University of Wollongong
2:15pm - 2:30pm	Investigating the Energy Efficiency Conversation in the Australian Volume Home Building Sector Erika Bartak, University of Melbourne	Where to from here for Residential Energy Efficiency Standards in Australia? – A Practitioner’s Perspective Steve Watson, Red Sustainability Consultants	Power Disconnections in Remote Indigenous Communities: Impacts on Health and Wellbeing 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
	How to Write Proposals to Gain Government Funding Martin Jones, Victorian Department of Environment, Land, Water and Planning	How to Inform the Next Generation Residential Energy Assessment Tools Lachlan Mudge, Barbara Hardy Institute	How to Measure Health and Energy Outcomes 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		
	<p>Expert Panel: Multiple Perspectives on the Changing Energy Landscape</p> <p>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.</p> <p>Neil Horrocks, Redback Technology, Rosemary Sinclair, Energy Consumers Australia & Kevin Chadwick, Department of the Environment and Energy Chair: Professor Ross Gordon, Queensland University of Technology</p>		
5:00pm	End of Day 1		



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Tuesday 16 April 2019 | Proposing Solutions

8:00am	Registration Opens		
9:00am - 9:30am	KEYNOTE PRESENTATIONS		
	Podium Rooms 3 & 4		
	THE FUTURE OF ENERGY Dr Wen Wu, data61 <i>Chair: Professor Ross Gordon, Queensland University of Technology</i>		
9:30am - 10:00am	AFFORDABLE CLEAN ENERGY FOR PEOPLE ON LOW INCOMES Kellie Caught, Australian Council of Social Service <i>Chair: Dr Rowan Bedggood, Swinburne University of Technology</i>		
10:00am - 10:30am	Morning Tea		
10:30am - 12:00pm	Concurrent Session 3		
	SESSION 3.1 Energy Efficiency and Buildings, Materials and Appliances	SESSION 3.2 Energy Justice and Affordability	SESSION 3.3 Energy, Health and Wellbeing
	Chair: Erika Bartak	Chair: Luke Reade	Chair: Rowan Bedggood
	Podium Room 2	Podium Room 3	Podium Room 4
10:30am - 10:45am	Collecting and Analysing Indoor Temperatures for Health: A Review of Methods Nicola Willand, RMIT University	Getting Households on Board with Demand Management James Bulinski, CitySmart	The Well-being of Aboriginal Staff when Providing Energy Efficiency Support to Aboriginal Households is Important Too Rowan Bedggood, Swinburne University of Technology
10:45am - 11:00am	Is the Current Regulatory Framework for Energy Efficiency Failing Small Inner-Urban House Design? Erika Bartak, University of Melbourne	Small-Scale Renewables Uptake for Low-Income Households Oshan Jayawardena, University of Tasmania	Use of Energy to Maintain Health and Well-being in Older Households Theresa Harada, Macquarie University
11:00am - 11:15am	The Impact of Colorbond Roof Color on Internal Temperature, Livability and Comfort in New Low Cost Homes Jessie Parrish, City of Gosnells	Low-income Rental Households and PV: The Reluctant Prosumer Ellis Judson, Swinburne University of Technology	Using Household Personas for Co-Designing Messages and Communications Strategies for Electricity Demand Management Kate Letheren, Queensland University of Technology
11:15am - 11:30am	Desiccant Evaporative Cooling Systems for Brisbane Climate Ramadas Narayanan, CQ University	Does the Energy Efficiency of a New Dwelling Vary with the Socio-economic Status of the Area in Which it is Built? Melissa James, CSIRO	Ignite*Energy: Can using Virtual Reality (VR) Experiences Encourage Energy Efficient and Pro-environmental Behaviours? Tracey Benson, University of Canberra
11:30am - 11:45am	A Machine Learning Approach for Modelling Air-Conditioner Heating Behaviour Ying Guo, CSIRO	Shifting Power: Improving Choice and Control Through Energy Efficiency Standards for Rental Housing in Queensland Luke Reade, QCOSS	Multi-owned Residences: Barriers to Energy Efficiency in High-Rise High-Density Apartment Blocks Janette Corcoran, Swinburne University of Technology
11:45am - 12:00pm		Addressing Energy Poverty and Affordability for a Just Transition to Net Zero Emissions in the ACT Su Wild-River, ACT Government, Environment, Planning & Sustainable Development Directorate	Measuring Multiple Impacts of Energy Efficiency for Low Income Households Lee Huuskes, NSW Office of Environment & Heritage
12:00pm - 1:00pm	Lunch		
1:00pm - 2:00pm	Interactive Roundtable Sessions		
	Interactive Roundtable 1	Interactive Roundtable 2	Interactive Roundtable 3
	Podium Room 2	Podium Room 3	Podium Room 4
	Emerging Technologies and Energy Futures: Power to the Consumer? Kate Letheren, Queensland University of Technology	How can Energy Researchers, Think-tanks and Practitioners Collaborate to Advance Energy Policy in Australia? Rob Murray-Leach, Energy Efficiency Council	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? 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	Policy Considerations from Victorian Energy Efficiency Retrofit Programs for Low Income Households (Interim Assessment) Martin Jones, Department of Environment, Land Water & Planning	Consumer Attitudes and Experiences in Energy Markets Lynne Gallagher, Energy Consumers Australia
2:15pm - 2:30pm	Power Shift: Translating Consumer-focused Research to Action Kerry Connors, Energy Consumers Australia	How Can the Private Rental Sector Participate in the Transition to a Low Carbon Future? Michaela Lang, Monash University	Digital Assistants, Mature Consumers and Behaviour Change: Does Appearance and Gender Matter? Helen Bocking, Queensland University of Technology
2:30pm - 2:45pm	Scaling Change that Will Last - Lessons for Second Generation Energy Efficiency Schemes from a Market Impact Evaluation of NSW Energy Efficiency Programs Henry Adams, Common Capital	Energy Efficiency, Thermal Comfort and Well-being in Vulnerable Households Deepu Krishnan, University of Technology Sydney	The Valuation and Security of Smart City Data Saskia Neale, Queensland University of Technology
2:45pm - 3:00pm	Ignite*Energy: Harnessing Diverse Knowledges to Improve Energy Efficiency and pro-Environmental Behaviours Tracey Benson, Department of the Environment & Energy	Energy Efficiency Retrofits to Support Low-Income Households in Victoria - Learnings from the Home Energy Assist Affordable Retrofits Trial Emma Chessell, Brotherhood of St Laurence	Energy Efficiency in Apartment Buildings – Empowering Strata Communities to Move Toward Net Zero Emissions Melinda Dewsnap, City of Sydney
3:00pm - 3:15pm	The Case of How Software Platforms can Better Facilitate Home Energy Retrofits: BOOM!-Partners Alex Houlston, Boompower Pty Ltd	The Nexus of Energy Use, Ageing, and Health and Well-being among Older Australians Ross Gordon, Queensland University of Technology	Fuel Switching and Preferred Energy Sources: The Case of Space Heating Lygia Romanach, CSIRO
3:15pm - 3:30pm	Residential Energy Efficiency: Growing Beyond the Household Glenn Crompton, Queensland University of Technology	Energy, Poverty, and Health: A Conceptual Review of Dimensions, Applications, and Implications for Health Diana Hernández, Columbia University, United States of America	How Reverse-Cycle Technology and 'Comfort Behaviours' are Impacting our Energy Efficiency Programs? Lucy Allinson, Department of Health & Human Services
3:30pm - 4:00pm	Afternoon Tea		
4:00pm - 4:45pm	CHALLENGE OF THE DAY		
	Podium Rooms 3 & 4		
	Debate: Fusing Technical and Social Sciences 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	Behavioural Economics, Energy and Initiatives of QUT's B.E.S.T. Centre Professor Uwe Dulleck, Queensland University of Technology		
5:00pm - 5:15pm	Closing Address Dr Rowan Bedggood, Chair, GEER Australia		
6:30pm onwards	Conference Awards Dinner Level 12 Rooftop, Rydges South Bank		