

# **Project Catalogue**

Edition 7, July 2018



This catal	ogue	
best practice sustainable city planning through exemplar precinct developments and tools       Capturing and building a new community appetite for low carbon living.         Part 2       Glossary         Part 3       Detailed list and description of project outputs to date. These include research outputs by our Higher Degree Research students (for details of their research, please to our Catalogue of Higher Degree which is available on our website).         Many projects have individual factsheets developed by the project team. These projects have the project number in Part 1 below marked in <b>bold font</b> . These factsheets are available on our website.         All projects are Australian based unless otherwise noted.         The catalogue is a living document and will evolve as new research becomes available. It is reviewed quarterly and updated as necessary.         The CRC for Low Carbon Living		
Part 1	A summary of each project organ	nised around our complementary research programs:
This catalogue has three parts:         Part 1       A summary of each project organised around our complementary research programs:         Integrated Building Systems       Developing new low-carbon products and services and finding ways to communicate best practice design through rating too standards and display homes.         Low Carbon Precincts       Creating models, guidelines, standards and data for delivering low carbon developments at a precinct level and communicat best practice sustainable city planning through exemplar precinct developments and tools         Engaged Communities       Capturing and building a new community appetite for low carbon living.         Cross-cutting projects       Projects that integrate one or more of the programs.         Part 2       Glossary         Part 3       Detailed list and description of project outputs to date. These include research outputs by our Higher Degree Research students (for details of their research, please to our Catalogue of Higher Degree which is available on our website).         Many projects have individual factsheets developed by the project team. These projects have the project number in Part 1 below marked in <b>bold font</b> . These factsheets are available on our website.         All projects are Australian based unless otherwise noted.       The catalogue is a living document and will evolve as new research becomes available. It is reviewed quarterly and updated as necessary.		
	Low Carbon Precincts	Creating models, guidelines, standards and data for delivering low carbon developments at a precinct level and communicating best practice sustainable city planning through exemplar precinct developments and tools.
		Capturing and building a new community appetite for low carbon living.
Part 2	Glossary	
Part 3		
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The CRC f	or Low Carbon Living	
mission is technolog	providing industry and governm gies, materials, design and planni	ent with collaborative research which captures community imagination and creates opportunities for low carbon
Contact u	IS	
<b>CRC for Lo</b> Tyree Ene	ut more, please contact us: <b>ow Carbon Living Ltd</b> ergy Technologies Building, UNSW herhayes@unsw.edu.au	V Sydney NSW 2052 Australia

## Part 1

#	Title	Purpose	Method	Literature review / scoping study	Project report	Guideline / plan / manual / standard / specification	Thesis	Conference paper / poster / presentation	Refereed publication e.g. manuscript, book chapter	Case study	Other publication e.g. online article, submission	Tool / model / framework	Training	Other
PROGRA	M 1 INTEGRATED BUILD	ING SYSTEMS												
RP1001	Optimising HVAC and PVT systems for different building typologies	Optimise the efficiency of PVT and HVAC systems by matching them to building characteristics, building thermal demand and climate regimes	<ul> <li>Literature review</li> <li>Develop PVT building model</li> <li>Trial in two case studies (living laboratories)</li> </ul>	1	1		1	1	1			2		
RP1002	Heating and cooling buildings using a solar thermal collector	Overcome heat generation limitations of current solar thermal collectors by designing and testing a building heating and cooling system driven by a roof-top mounted concentrating collector	<ul> <li>TRNSYS modelling of solar inputs and building energy demands to select the optimum absorption cooling system components and operation conditions</li> <li>Validate model</li> </ul>		1			4	7			1		
RP1003	Risk and opportunities of incorporating photovoltaics into buildings	Identify the near- and long-term architectural, technical and legal/policy risks and opportunities for building integrated photovoltaics (BIPV) and develop a roadmap for short- and long-term deployment	<ul> <li>PV building integration scoping study</li> <li>Develop value chain and costa analysis</li> <li>Functional analysis of BiPV</li> </ul>		2	2								
RP1004	Investigating next generation standards for geopolymer concrete using flyash and slag	Reduce the use of Portland Cement by developing performance criteria for low carbon (geopolymer) concrete made using flyash and slag byproducts	<ul> <li>Establish industry working group</li> <li>Literature review on flyash and slag based concrete</li> <li>Identify barriers to use</li> <li>Develop performance standards</li> </ul>		1	1	4		1					
RP1006	Cost effective and socially acceptable net zero carbon homes	Develop an evidence-based rating tool that integrates housing design with new low carbon materials and technologies to identify the most economically viable low energy and low carbon combinations	<ul> <li>Literature review</li> <li>Investigate new designs, materials and technologies for energy reduction</li> <li>Monitoring 60 low carbon houses at Lochiel Park</li> <li>Stakeholder consultation</li> <li>Develop, validate and trial an integrated design algorithm and rating tool for</li> </ul>	1	2	1								

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			energy consumption											
RP1007	Improving photovoltaic performance by modelling and measuring expected and actual energy production	<ul> <li>Optimise PV performance by measuring and simulating outputs using energy yield, local weather data and sophisticated algorithms</li> <li>Refine and test the Solar Analytics algorithm and tool that compares predicted to actual energy produced</li> </ul>	<ul> <li>Review PV algorithms</li> <li>Develop and trial new algorithms</li> <li>Review BMS products</li> <li>Incorporate new algorithms into Solar Analytics' products</li> </ul>		2									1
RP1008	Industry support mechanisms for adoption of renewable energy heating and cooling	Address barriers to renewable energy space heating and cooling adoption and stimulate market demand through training and education, IEA market support activities, and development of a world first solar heating and cooling technical standard (AS5389 solar heating and cooling standard)	<ul> <li>Industry workshop</li> <li>Develop and validate TRNSYS component models</li> <li>Develop amendments to the interim standard</li> <li>Develop a guide to using the procedures in the NSW Energy Savings Scheme</li> </ul>		5	2	1	2	1		1		1	
RP1009	Evidence assessment of low carbon design of non- residential buildings	<ul> <li>Development of an evidence assessment process for the low carbon, health and productivity benefits of design, engineering and management-based building interventions</li> <li>Analysis of the decision making process and the various actors/roles involved in early design stages of commercial office buildings and workplaces to determine when, in what form and to whom the evidence should be delivered to ensure its most effective</li> </ul>	<ul> <li>Literature review and gap analysis</li> <li>Systematic reviews</li> <li>Case study analysis and post occupancy evaluation</li> <li>Questionnaires and interviews</li> </ul>	1	5	1	2	3	3	2	8	1	1	
RP1010	The energy, thermal and economic performance of an 8-star energy-efficient home	<ul> <li>Accelerate uptake of low energy housing by providing the scientific and economic evidence of energy and thermal</li> </ul>	<ul> <li>Install sensors and data collection (12 months)</li> <li>Develop computer model</li> </ul>		1		1					1		

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	(the CSR Low Energy House)	<ul> <li>performance of an 8-star energy-efficient home</li> <li>Use modelling and monitoring data to enhance energy performance</li> </ul>	<ul> <li>Blower door and thermal imaging</li> <li>Verify model</li> <li>Cost analysis</li> <li>Model high performance homes in different climate zones</li> </ul>											
RP1011	Development of net zero energy prefabricated modular homes	Investigate, develop, test and optimise designs and materials for low cost, net zero energy, prefabricated, modular homes	<ul> <li>Literature review</li> <li>Design, modelling and optimisation</li> <li>Build, test and monitor prototype</li> </ul>	1	13	1	1	2	2		2	1		
RP1012	Development of low-emissivity pliable membranes for moisture management in building construction	Develop and test low emissivity pliable membranes to reduce condensation of building thermal insulation to maximise energy-efficiency gains	<ul> <li>Literature view of international standards and approaches</li> <li>Develop industry education</li> <li>Develop, trial and test membrane</li> </ul>	1		1			1					
RP1013	Distributed energy storage in Australia: opportunities, benefits and barriers	Enhance the use of renewable generation technologies by identifying the key stakeholders and the opportunities, benefits and barriers to widespread deployment	<ul><li>Stakeholder analysis</li><li>Scoping study</li></ul>	1	2	1			1		8			
RP1014	Optimising the energy efficiency of pool pumps	Rank life- cycle costs, energy use, carbon emissions, and peak demand of pool pumping systems	<ul> <li>Experimental testing of residential pool systems including solar pool heating system and pool filtering system</li> <li>Data analysis and reporting</li> <li>Solar pool heating modelling and optimisation</li> <li>Pool filtering system energy modelling and comparison</li> <li>Modelling of PV powered pool system</li> </ul>	1	1		1	1	2		1	2		
RP1015	Capturing waste heat from PVT collectors to drive a thermal cooling system	Integrate the BlueScope PVT roofing system with a market ready desiccant cooler developed by CSIRO and develop a business case	<ul> <li>Photovoltaic panels convert 5-15% of solar radiation into electricity - ~80% of solar radiation is dissipated as heat which can be captured to provide a cooling cobenefit.</li> </ul>		3	1	2	1	2					

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RP1017 RP1017e1	Validating and improving the BASIX energy assessment tool for low-carbon dwellings	Validate and improve the BASIX energy assessment tool for low-carbon dwellings by monitoring the energy performance from new single and multi-unit dwellings and comparing results against BASIX predictions	<ul> <li>Survey</li> <li>Data collection - electricity, gas, building design and condition, social- demographics and occupant behaviour</li> <li>Model and analyse energy efficiency</li> <li>Compare data against BASIX predictions</li> <li>Inform BASIX model and government strategies</li> </ul>		4		1	3	3					1
RP1019	Developing an index of the relative comfort of a home	Provide guidance on the home comfort and health benefits of energy efficient building upgrades	<ul> <li>Literature review</li> <li>Develop index algorithm</li> <li>Test and develop the index and online tool</li> </ul>		2							1	1	
RP1020	Reducing the commercial barriers to new low-carbon geopolymer concrete	Develop performance criteria and manufacturing processes for low carbon (geopolymer) concrete	<ul> <li>Develop process for the development of low carbon geopolymer concrete using flyash</li> <li>Develop a design, specification and construction handbook</li> </ul>		3	1	5	8	14		1			1
RP1020u1	Demonstrating use of geopolymer concrete for high density coastal protection units	Demonstrate the use of the geopolymer concrete developed in RP1020 in a novel application, namely the construction of coastal protection (seawalls)	<ul> <li>Large scale demonstration project for geopolymer armour units in the Illawarra</li> <li>Demonstration in the delivery of geopolymer concrete in practice and performance monitoring</li> </ul>		1	1	1	1	1	1			1	
RP1021	Assessing policy options for the transition to low carbon built environment	<ul> <li>Inform policy development and implantation by producing five thematically linked research papers addressing:</li> <li>Regulation and housing affordability</li> <li>Economic and other government policy instruments</li> <li>Benchmarking national building standards</li> </ul>	<ul> <li>Literature review</li> <li>Data collection and analysis</li> </ul>				1	1	5		2			

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		<ul><li> Operation of consumer choice in the property market</li><li> Building industry culture</li></ul>												
RP1022	Using timber, agricultural and plastic waste products as fillers and binders for wood- based particle board	Reduce materials entering the waste stream and the energy costs of producing new materials by investigating the use of timber, plastic and agricultural waste as alternative fillers and binders for wood-based particle boards												
RP1023	Home energy analysis and forecasting tool	Allow residential and small commercial energy consumers to manage and reduce energy costs by developing a user interface and intelligent algorithms. The algorithms will take local load, weather and energy generation inputs and automate the analysis of electricity production and consumption.	<ul> <li>Data collection and analysis from homes</li> <li>Develop energy forecasting and on-site storage algorithms for PV</li> <li>Process data using algorithms</li> <li>Presentation of results via an online portal</li> </ul>				2					1		
RP1024	Enhancing the Nationwide House Energy Rating Scheme (NatHERS) – assumptions, compliance and training	<ul> <li>Enhance the energy assessment capability of the NatHERS tool by reviewing and making recommendations in relation to its assumptions, addressing compliance, and developing models addressing:</li> <li>Ventilation</li> <li>Thermal comfort</li> <li>Ceiling fans and produce training resources to develop the capacity of the home building design and construction industry</li> </ul>	<ul> <li>Review NatHERS assumptions, logic and settings against contemporary data</li> <li>Review house energy performance data</li> <li>Develop algorithm</li> <li>Data collection and analysis</li> <li>Research high cooling load houses</li> <li>Develop a new cooling model</li> <li>Develop training resources</li> </ul>	1	3				4			2		
RP1026	Evaluation of automated HVAC fault detection and diagnostic tools for commercial building energy	Review and evaluate automated HVAC fault detection and diagnostics tools for commercial building energy efficiency	<ul> <li>Review available FDD tools</li> <li>Develop quantitative and qualitative performance metrics</li> <li>Setup and configure building</li> </ul>		2				1	1				

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	efficiency		<ul><li>management system</li><li>Trial FDD systems against metrics</li></ul>											
RP1029	Integration of phase change materials into building cladding and airconditioning	Increase the efficiency of building cladding and air-conditioning units by incorporating PCM	<ul> <li>Literature review</li> <li>Prototype 3 PCMs</li> <li>Design PCM cladding</li> <li>Design PCM airconditioning system</li> <li>Prototype and optimise designs</li> <li>Validate models</li> </ul>	1	5	1	1					1		
RP1031	Development and optimisation of low carbon, medium-rise modular building structural systems	Design and test modular building, framing and jointing systems	<ul> <li>Literature review</li> <li>Performance and design criteria and modelling for structural elements and joints</li> <li>Prototype joints</li> <li>Design and model framing and panel options</li> <li>Develop demonstration tool</li> </ul>	1	3		3	3	3		1	1		
RP1032	Facilitating large energy user deployment of off-site renewable generation	Develop a framework addressing the contractual, financial, and regulatory aspects of large energy users (e.g. councils, universities, manufacturers, corporates) directly purchasing electricity from off-site renewable energy generators such as a large scale solar or wind farms	<ul> <li>Literature and case study review</li> <li>Qualitative research of stakeholder experiences, attitudes and preferences</li> <li>Engineering, legal, electricity and valuation research</li> <li>Develop a framework for off-site renewable energy</li> </ul>	1	1			2	1	1		1	1	
RP1033	Mainstreaming HVAC in high performance commercial buildings	<ul> <li>Facilitate high performance HVAC uptake by:</li> <li>Recommending changes to the National Construction Code (NCC) based on technical and cost benefit analysis of HVAC systems</li> <li>Investigating best practice HVAC designs and engage with industry</li> <li>Modelling novel and improved designs to</li> </ul>	<ul> <li>Modelling of a commercial HVAC system against 5 improved designs for major climate zones in Australian capital cities</li> <li>HVAC modelling to investigate energy use in 5 exemplar commercial buildings</li> <li>Design high performance HVAC model</li> <li>Run model for the 5 largest energy use</li> </ul>		2	1			2		1			

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		investigate opportunities to improve best practice designs	<ul><li>components in the highest performing commercial HVAC system</li><li>Develop improved HVAC designs</li></ul>											
RP1034	Reducing embodied and lifecycle carbon emissions through building design (value engineering)	Develop a new value engineering framework for buildings that optimises embodied and lifecycle carbon reductions (and minimises cost) through dematerialisation	<ul> <li>Mapping existing value engineering practices</li> <li>Develop VE tool</li> <li>Life cycle carbon analysis and life cycle cost analysis of VE practices</li> <li>Develop a Carbon VE framework integrating carbon (kgCO<sub>2</sub>eq) and cost (\$) metrics</li> </ul>		3				2	3	1	2	2	
RP1037	Driving uptake of cool roofs on large footprint buildings	Determine the overall value proposition of cool roofs for large-footprint buildings, taking into account the influence of above-roof air temperature on the performance of HVAC equipment and photovoltaic panels	<ul> <li>Literature review</li> <li>Undertake three large-footprint building case studies</li> <li>Model the impact of cool roofs on building thermal performance</li> <li>Develop cool roof design and costbenefit calculation resources</li> </ul>	1	2	1						1		
RP1040	Improving the improve thermal comfort, energy consumption and carbon footprint of schools	Develop and test an advanced hybrid ventilation system for schools	<ul> <li>Assessment of the energy consumption and carbon emissions of a NSW school</li> <li>Investigate, develop and test an innovative hybrid ventilation system</li> <li>Experimental and theoretical evaluation of the installed system</li> </ul>		1	1				1				
	M 2 LOW CARBON PREC	1												
RP2001	A detailed functional specification for precinct design and assessment	<ul> <li>Address the fragmented approach to precinct assessment by developing a:</li> <li>detailed functional specification for precinct design and assessment tools and databases</li> </ul>	<ul> <li>User survey and synthesis of data management for CRC and AURIN datasets</li> <li>Develop data management process</li> <li>Literature review of national and</li> </ul>		3	1								

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		<ul> <li>digital precinct information model specification</li> </ul>	<ul> <li>international of precinct assessment methods and tools</li> <li>Review and compare national and international LCA and costing principles and methods</li> <li>Develop detailed functional specification for precinct design and assessment methods and software tools</li> </ul>											
RP2002	An integrated demand forecasting and scenario planning tool for residential energy, transport, waste and water at a precinct scale	Develop and test an integrated ETWW tool for demand estimation and scenario planning which includes a method addressing the influence of household behaviour change	<ul> <li>Research - ETWW demand forecasting methods and models</li> <li>Develop integrated ETWW demand forecasting tool</li> <li>Case study applications of tool</li> </ul>		6		3	5	2	2		1		
RP2003	A review of national and international delivery mechanisms for low carbon precincts	Identify exemplar delivery mechanisms (policy, economic and design) of national and international low carbon precincts and develop strategies to mainstream sustainable urban development, backcasting from a 50 year scenario	<ul> <li>Literature review</li> <li>Case study review</li> <li>Develop exemplar selection criteria</li> <li>Evaluate exemplar case studies</li> <li>Research</li> </ul>		1		1	1	5					
RP2005	Comparison of the urban heat island effect at three scales in Sydney, Melbourne and Adelaide	<ul> <li>Understand the contribution of materials, social systems, urban morphology, infrastructure, and climate system to UHI (including thermal mass, albedo and evapotranspiration) at the building, precinct and metropolitan scales in three Australian cities</li> <li>Develop a heat index for Australian cities</li> </ul>	<ul> <li>Research – green roofs, facades and canopies</li> <li>Research – qualities of urban heat spots and behaviour change</li> <li>Research – materials, surfaces and thermodynamics</li> <li>Modelling</li> </ul>		3	1	5	10	12		13			
RP2006	The drivers of low cost and low carbon housing in Perth	Understand the drivers of low cost and low carbon housing across purchasers, investors and renters	<ul> <li>Research - the demand drivers of apartment living in Perth</li> <li>Produce documentary</li> </ul>		1	1	1	1	1		1			

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RP2007	Integrated Carbon Metrics (ICM) - a multi-scale life cycle approach to assessing, mapping and tracking carbon in the built environment	<ul> <li>Develop a database and decision support tools for life cycle carbon emissions with emphasis on embodied emissions in the built environment from construction materials up to regional scales.</li> <li>Develop an economy-wide carbon flow analysis tool to track emissions along the production and supply chains of materials and products</li> <li>Develop a 3D Precinct Information Modelling extension to enable the calculation and visualisation of carbon emissions for precincts during their planning stage.</li> <li>Evaluate low-carbon precinct scenarios</li> </ul>	<ul> <li>Develop carbon flow analysis tool</li> <li>Develop 3D visualisation of operational and embodied carbon of building or precinct planning projects in PIM tool</li> <li>Reconciliation of bottom-up and top- down carbon metrics</li> <li>Tool integration of input-output and hybrid life-cycle built environment inventory data</li> <li>Stakeholder consultation</li> <li>Develop scenarios for low-carbon precinct redevelopment and retrofitting</li> <li>Develop a framework for optimised strategies between life cycle assessment and costing for buildings</li> </ul>	1		4	2	11	7	2	2	5		
RP2008	Reducing the energy consumption and carbon emissions in the treatment and use of wastewater solids	Evaluate and develop approaches to minimise emissions, energy consumption and the volume of wastewater solids	<ul> <li>Compile data – energy use, energy biogeneration and CO2 and odour emissions</li> <li>Develop emission and energy measures</li> <li>Analyse interrelationships between treatment and transportation</li> <li>Review socio-economic and environmental impact of processing and land application</li> </ul>		11	1	2	4	4					
RP2009	A research agenda for low carbon transport	Scope research gaps and opportunities for low carbon transport	<ul><li>Targeted stakeholder consultation</li><li>Synthesis</li></ul>		1				5					
RP2010	Low carbon inclusions in state government built environment sector tenders	Develop and trial State government low carbon tender inclusions for built infrastructure procurement	<ul> <li>Review of existing low carbon related inclusion in tendering documentation</li> <li>Identify key carbon reduction options for land development</li> </ul>	1	3	1	1	3						3

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			<ul> <li>Review IS Rating Tool for Low Carbon related criteria and requirements</li> <li>Interviews with panel of providers based on IS Rating tool</li> <li>Draft low carbon tender inclusions</li> <li>Design of process to prepare the client and contractor for new inclusions</li> <li>Development of tender assessment guide for low carbon inclusions</li> </ul>											
RP2011 & RP2011e1	An open precinct-level digital information model for low carbon management	Develop and test an open object-oriented database precinct information model (PIM) that defines how information is structured throughout the life-cycle of an urban precinct. The model will integrate geographical and real-time data across domains, including buildings, major infrastructure, energy, water, waste, transport and health	<ul> <li>Develop the concepts and standards of a standardised data model</li> <li>Stakeholder consultation</li> <li>Develop and test model and GIS interface</li> <li>Pilot test on CRC project sites</li> </ul>		6	1	1	8	3		1	8		
RP2014	Measuring the sustainability performance of green infrastructure	Develop an integrated assessment model of the economic, social and ecological services, including carbon performance (storage and sequestration) delivered by green infrastructure	<ul> <li>Literature review</li> <li>Develop sustainability indicators and benchmarks</li> <li>Develop model</li> <li>Test model using a Sydney case study</li> </ul>	1	1		1	5				1		
RP2015	Literature and practice review of Australian policies on urban planning and public health	Understand the use and benefits of active transport to support the future development of a calculator of health and associated productivity co-benefits from low carbon interventions	<ul> <li>Literature review</li> <li>Analysis of the Household Travel Surveys database</li> </ul>	1	1				3					
RP2016	Assessing the impact of PV and energy prices and efficiency on domestic electricity consumption in	Identify whether conservation or rebound (Jevons) effects are associated with solar PV take-up by examining the post-2008 changes in electricity use by Sydney households who	<ul><li>Analyse Ausgrid data</li><li>Develop and test model</li></ul>		1			2	1					

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	Sydney	installed PV against those that have not												
RP2017	Energy benchmarking for efficient, low-carbon water recycling operations	Develop and test a method to benchmark the energy performance of water recycling systems (across construction, operation and maintenance and considering economic, environmental and public health matters)	<ul> <li>Literature review of European energy benchmarking methodology for wastewater treatment</li> <li>Develop energy benchmarks for Australian wastewater treatment and water recycling systems</li> <li>Benchmark wastewater treatment and water recycling facilities - SA and NSW</li> <li>Assess the cost-benefits of electricity sub-metering for water sector energy efficiency and process optimisation</li> <li>Compare performance (energy, cost, carbon) of disinfection approaches</li> <li>Assess the performance (treatment process, energy, carbon) of a novel treatment technology for energy- efficient, lower emissions treatment and recycling</li> </ul>	1	1	2	2	5	4	1				1
RP2018	Retrofitting urban precincts to create low carbon communities	Identify pathways to transition existing urban communities to low carbon energy and water using the precincts of UTS, Sydney Institute of TAFE and One Central Park as living laboratories	<ul> <li>Stakeholder baseline</li> <li>Global best practice review of precinct retrofitting</li> <li>Precinct system / technology evaluation and forecasting</li> <li>Baseline model of the Broadway Precinct energy, water consumption, assets, costs and governance.</li> </ul>	1	1			1			1			
RP2019	Carbon reductions from composting food waste for food production	Assess the social, environmental and commercial sustainability of different scalable models of food waste separation and composting for different urban forms.	<ul> <li>Research social dimensions of food separation, composting and compost use</li> <li>Model GHG reductions and carbon</li> </ul>		1	1	2		1		2	1		

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			<ul><li>storage from the use of compost</li><li>Identify microbial composition of food waste compost</li></ul>											
RP2021	Greening suburban travel - enhancing public transport and active travel options for low density suburban areas	Identify pathways to increasing customer usage of public and active transport, and model the impacts and benefits of networked smart bus systems, on-demand access to transport and emerging transport technologies	<ul> <li>Literature review of travel demand drivers and behaviour change from private vehicles to public and active transport</li> <li>Travel supply and demand estimation and analyses</li> <li>Develop agent based model to assess investment options</li> </ul>	1	1	1	3	3	1	1	1	1		
RP2021e1	The role of the sharing economy for inner-urban travel	Investigate the role the sharing economy in relation to mobility services (i.e. share bikes, share cars, eco-caddies, Uber) can play in reducing inner-urban transport emissions	<ul> <li>Investigate barriers to the provision of sharing economy mobility services</li> <li>Analyse servicing the needs of major inner-urban trip generators</li> <li>Map demand for sharing economy mobility services (Adelaide)</li> <li>Quantify the carbon abatement impact</li> <li>Industry engagement</li> </ul>		1			1	1	1				
RP2023	A decision support tool for microclimate and urban heat island mitigation at a precinct and streetscape scale	Examine the relationship between urban forms and microclimate to develop a decision-support and visualisation tool of the microclimate and UHI mitigation performance of urban redevelopment options and cooling interventions	<ul> <li>Data collection – energy, thermal comfort, vulnerability, urban form, microclimate</li> <li>Identifying existing and emerging evidence on UHI mitigation performance analysis</li> <li>UHI mitigation performance index</li> <li>Develop UHI mitigation options</li> <li>Develop object-oriented buildings and precinct models</li> <li>Develop decision support tool</li> </ul>		1				1			1		
RP2024	A guide to urban cooling	Develop practical guidance for built	Literature review	1	1	1								

#	Title	Purpose	Method	Literature review / scoping study	Project report	Guideline / plan / manual / standard / specification	Thesis	Conference paper / poster / presentation	Refereed publication e.g. manuscript, book chapter	Case study	Other publication e.g. online article, submission	Tool / model / framework	Training	Other
	strategies	environment professionals and regulatory agencies to moderate urban microclimates and mitigate UHI effects in major urban centres across a range of climate types	<ul><li>Consultation with industry partners</li><li>Develop guide</li></ul>											
RP2028	Calculating the health and productivity co-benefits of low carbon precincts	Develop a health and productivity co-benefits calculator in relation to the key features of the built environment at a precinct scale	<ul> <li>Incorporate built environment metrics and carbon emissions into an existing health model</li> <li>Population survey</li> <li>Develop co-benefits model</li> <li>Integrate the model with existing tools</li> <li>Trial and evaluate</li> <li>Bicycle transport scenario modelling</li> </ul>	1	2		0		2		1	2		
PROGRAM	3 ENGAGED COMMUNITIES				,		,	,		I				
RP3001	Understanding consumer behaviour across household energy consumption	Assess the impact of household energy costs against housing tenure and type, income group and spatial distribution (state, regional, metropolitan) using ABS Household Expenditure Survey data (1998-2012)	<ul> <li>Data preparation and analysis</li> </ul>		1									
RP3002	Predicting and understanding the effectiveness of low carbon living behaviour change programs	Develop a predictive diffusion model of the impact of interventions addressing GHG reductions and behaviour change in relation to low carbon living	<ul> <li>Literature review</li> <li>Stakeholder engagement</li> <li>Design an integrated framework for diffusion and agent based modelling</li> <li>Develop the CSIRO diffusion model to integrate agent based models of demographic and psychological factors and multi criteria analysis</li> <li>Model testing and validation against CSIRO case studies</li> <li>Update and calibrate model</li> <li>Stakeholder case studies</li> </ul>	1	9	1	1	2	2			1		

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RP3003	A business case and technical specification for an integrated CRCLCL spatial database	Investigate the opportunities and develop a business case to integrate and analyse diverse data across a variety of spatial scales	<ul> <li>Stakeholder engagement</li> <li>Develop technical specification</li> </ul>		1	1								
RP3004	Using deliberative democracy for a low carbon built environment	Assess the potential of deliberative democracy to improve government decisions, policies and programs	<ul> <li>Engagement with national and international networks</li> <li>Analysis of initiatives and trends</li> <li>Literature review and framework of guidelines for deliberative democracy</li> </ul>		1									
RP3005	A framework for the CRCLCL's living laboratories	Define the aspirations, priorities, structure and management of the CRCLCL's living laboratories	<ul> <li>Literature review</li> <li>CRCLCL researcher workshop</li> <li>Develop framework</li> </ul>	1								1		
RP3006	Survey and gap analysis of low carbon education programs	Inform the direction, monitoring and evaluation of the CRCLCL's education research by identifying existing programs, best practice, industry needs, barriers and opportunities	<ul> <li>Literature review</li> <li>Stakeholder consultation</li> <li>Analysis and reporting</li> </ul>	1	1									
RP3007	Community and precinct scale renewable energy projects	Identify the opportunities and challenges for the development and implementation of community and precinct scale renewable energy projects	<ul> <li>Literature review</li> <li>Consultation with community groups, nationally and internationally</li> <li>Assess legal and institutional characteristics of NFP organisations</li> <li>Role of local government</li> <li>Analysis and reporting</li> </ul>	1	1	1	1	1	4	3	3			1
RP3008	Scenarios, visions and pathways for a low carbon built environment, for Australian capital cities by 2040	<ul> <li>Review drivers, opportunities, barriers and disruptive forces for a transition to an 80% reduction in greenhouse gas contributions by 2040</li> <li>Identify emerging technical and social innovations</li> <li>Develop scenarios and translate these</li> </ul>	<ul> <li>Literature review</li> <li>Research on disruptive forces</li> <li>Wide Stakeholder engagement in each of the cities</li> <li>Develop visions of change</li> <li>A set of published reports on scenarios, visions and pathways</li> </ul>	1	8		4	7	5		16	3		

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RP3009 <b>RP3009e1</b>	Design, construct and evaluate high performance homes constructed using conventional materials and methods	<ul> <li>into visions and pathways (necessary structural changes)</li> <li>Provide practical examples of the energy and water performance of new homes using conventional materials and methods to a high-performance level (7-10 Star) using case studies: Josh Byrne's house (Perth); CSIRO Zero Emission House (Melbourne); Lochiel Park Green Village (Adelaide); CSR House (Sydney); Pilbara Vernacular House (Karratha); Innovation House (Townsville)</li> <li>Understand the influence of a behaviour change program on energy and water use by ten houses (including a mix of minimum compliance and high performance houses)</li> <li>Build and monitor the energy and water performance of three HP ZEH display homes in new housing developments</li> </ul>	<ul> <li>Install monitoring systems for performance assessment</li> <li>Develop communications and engagement strategy and collateral</li> <li>Develop and deliver behaviour change program, including home audits and participant surveys (behaviour change)</li> <li>Case study documentation (multi- media)</li> <li>Stakeholder engagement (charrettes) to develop HP ZEH criteria</li> <li>Design and construct HP ZEH homes</li> <li>Monitor and evaluate HP ZEH homes</li> </ul>		6	>20	2		9	9	>20			1
<b>RP3010</b> RP3010e1	Reducing the carbon footprint of tourism industries	Investigate whether a market-based or dual incentive scheme can reduce the carbon footprint of the tourism sector, and develop and deliver education resources to change behaviour	<ul> <li>Develop and trial an audit and rating framework</li> <li>Develop app and website</li> <li>Develop education program</li> <li>Community engagement</li> <li>Analysis and reporting.</li> <li>Create a self-funding program to support ongoing carbon reduction and assessment</li> </ul>		1						1	1		
RP3011	Developing social norms for low carbon behaviour	Research the effectiveness of facilitation, social settings, activities and information that	<ul><li>Literature review</li><li>Survey</li></ul>	1	1		2	1					1	

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		promote the health, wellbeing, productivity and cost benefits of low carbon living in creating behaviour change	<ul> <li>Engagement activities</li> <li>Develop and execute a behaviour change program</li> </ul>											
RP3012	Social psychology of low carbon behaviour and predicting behaviour change	Understand the cultural and societal mechanisms for low carbon behaviour and develop a psychological index of people's likelihood to change	<ul> <li>Literature review</li> <li>Stakeholder survey</li> <li>Catalogue behavioural practice regarding low carbon alternatives</li> <li>Develop and validate index</li> <li>Test index against CRCLCL living laboratories</li> </ul>	1	1		1	1	1			1		
RP3015	Low carbon living through team-based and game-based mobile learning	Use of team-based and game-based mobile learning to motivate and enable professionals, tradespeople and consumers to take up low carbon living products and services	<ul> <li>Literature reviews</li> <li>Participant engagement</li> <li>Identify team based interventions</li> <li>Prototype a mobile learning game</li> </ul>	3	1	1	3	7		2	3	1	1	
RP3016	Enhancing the market for low- carbon homes	<ul> <li>Understand the most effective content, format, source and delivery of tools and other resources to engage home buyers and lessees market</li> <li>Develop the framework for a national rating system to measure and communicate low carbon home performance at sale / lease</li> <li>Develop the business case implementation plan for the framework</li> </ul>	<ul> <li>Literature reviews</li> <li>Stakeholder mapping and surveys</li> <li>Develop strategies for improving the flow of information</li> <li>Develop content, presentation and delivery channels for home energy rating/assessment tools to engage the wider real estate, property and energy efficiency industry</li> <li>Develop framework, business case and implementation plan</li> </ul>	3	5	2	1		1		1			
RP3017	Low carbon living in practice: learnings from living laboratories	Improve the energy performance and reduce emissions of the built environment through community engagement and modelling and monitoring of energy performance of living laboratories in Lochiel Park, Bowden and	<ul> <li>Literature review – co-creation</li> <li>Stakeholder engagement</li> <li>Develop and test co-creation toolkit</li> <li>Test ETWW through PrecinX and Mutopia</li> </ul>	2	4	2	4				11	2		

#	Title	Purpose	Method	Literature review / scoping study	Project report	Guideline / plan / manual / standard / specification	Thesis	Conference paper / poster / presentation	Refereed publication e.g. manuscript, book chapter	Case study	Other publication e.g. online article, submission	Tool / model / framework	Training	Other
		Tonsley, Adelaide	<ul> <li>Develop Electricity Demand Management Plan for Tonsley and Bowden</li> <li>Literature review – low carbon investment</li> <li>Develop co-benefits model</li> <li>Analysis and reporting</li> </ul>											
RP3019	Collaborative urban development planning for low carbon living	Identify the strengths, weaknesses, barriers and opportunities of collaborative urban planning to reduce the carbon intensity of precinct developments	<ul> <li>Literature review and needs assessment</li> <li>Stakeholder engagement and SWOT analysis</li> </ul>	1	3		2		1					
<b>RP3020</b> RP3020e1	Improving the carbon footprint of schools	<ul> <li>Review existing programs, initiatives and tools for schools to calculate carbon emissions and develop a strategic, coordinated, comprehensive and integrated framework</li> <li>Review a community based training, education and support program to reduce the carbon footprint of schools</li> <li>Determine the social impact such a program can have on increasing awareness about low carbon living in the community</li> </ul>	<ul> <li>Literature review</li> <li>Stakeholder engagement</li> <li>Workshops with schools</li> <li>Data collection ~15 schools</li> <li>Social network analysis of program engagement</li> <li>Analysis and reporting</li> </ul>	1	4	1	1	3	3	1	3	1	1	1
RP3021	Media and communication strategies to achieve carbon reduction through renovation of Australia's existing housing	Research social practices and the role of media in home renovation, and design, develop and evaluate media and communication strategies to drive mainstream adoption of low carbon home renovation products	<ul> <li>Social research on socio-cultural and material needs of households and their social communication and use of media</li> <li>Map media models and strategies</li> <li>Develop communication strategies</li> <li>Design and prototype website, tool or application</li> </ul>		2		2	2	1	4	1			1
RP3022	Policies, impediments and	Benchmark low carbon living education	Literature review	1	1	1		1			1			

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	incentives for low carbon living education	policy, impediments and incentives and develop policy, incentive and leaderships recommendations, and an implementation plan	<ul> <li>Comparative analysis</li> <li>Develop recommendations and implementation plan</li> </ul>											
RP3023	The contribution of community-owned renewable energy (CORE) to regional development	Understand the enablers, outcomes and impacts from CORE projects in regional areas (including end of grid) across social, economic and environmental dimensions	<ul> <li>Literature review</li> <li>4 case studies</li> <li>Qualitative methods</li> <li>Stakeholder engagement</li> <li>Analysis and reporting</li> </ul>	1		2	1	6	1	4	1			3
RP3025	Online carbon reduction training and education	Develop and deliver with Sydney TAFE a free, interactive online carbon reduction training and education course (carbon reduction and community benefit; carbon reduction in practice; developing and communicating a business case; how to implement and measure low carbon practice)	<ul> <li>Design website</li> <li>Develop and validate study units and delivery mode</li> <li>Develop learning and qualification pathways</li> <li>Review and assess training effectiveness</li> </ul>		1								2	1
RP3028	Modelling the uptake of low carbon and energy efficient technology and behaviour under different non-financial conditions	Use agent based diffusion modelling to understand how non-financial incentives influence the knowledge and beliefs of consumers which subsequently impact their intention to adopt low carbon and energy efficient technologies and practices	<ul> <li>Literature review</li> <li>Develop diffusion curves, social network of agents and agent based model</li> <li>Develop graphical user interface</li> <li>Scenario testing and evaluation</li> </ul>	1	1		1		3			2		
RP3029 RP3029e1	Social media community engagement for energy efficient housing	<ul> <li>Provide a moderated social media platform with linkages to, and engagement with, existing or repackaged trusted information to engage and influence community uptake of low carbon and sustainable housing</li> <li>Encourage learning, sharing of stories, data and media</li> <li>Identify the themes, barriers, aspirations</li> </ul>	<ul> <li>Develop online platform, collaboration tools and content</li> <li>Stakeholder engagement and focus group testing</li> <li>Develop monitoring and evaluation metrics</li> <li>Develop criteria for the listing of products and services</li> </ul>		3	2		4	5		6			1

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00004		and opportunities for energy efficiency												
RP3031	Mandatory disclosure of energy performance to encourage investment in low carbon housing retrofits	Understand the role of the disclosure of energy performance information at sale or lease in reducing the risk of investment in low-carbon retrofits	<ul> <li>Literature review</li> <li>Stakeholder engagement</li> <li>Develop and trial information disclosure mechanisms</li> </ul>	1	1		1	1	1					
RP3033	Facilitating uptake of low carbon homes in new precinct developments	<ul> <li>Assess and promote the CO<sub>2</sub> savings of a low carbon living precinct development (a living laboratory at White Gum Valley, WA) against a 'business as usual' scenario</li> <li>Develop, monitor and document behaviour change interventions promoting the purchase of low carbon options at different points in the design, construction and occupation of homes</li> </ul>	<ul> <li>Stakeholder engagement and communications strategy</li> <li>Operational energy, water, carbon emissions and LCA modelling</li> <li>Develop performance monitoring program</li> <li>Develop and implement Community Based Social Marketing (CBSM) strategy</li> <li>Analysis and reporting</li> </ul>		2		1	12	4		>20	2		
RP3034	Urban regeneration through community co-design of low carbon precincts	Develop processes, standards and certification procedures to enable local governments, state agencies and property developers to work with community groups to co-design sustainable, medium density, low carbon housing precincts	<ul> <li>Identify urban regeneration locations</li> <li>Develop a business model for precinct regeneration</li> <li>Stakeholder engagement</li> <li>Develop and execute visualisation and assessment tools comparing precinct regeneration scenarios against 'business as usual'</li> <li>Develop regeneration processes</li> </ul>		1	1		3	3	2	2	1	2	1
RP3035	Modelling the uptake of water conservation and efficiency measures	Develop an agent based model to understand the response of consumer behaviour to intervention options to promote the uptake of water conservation and efficiency measures	<ul> <li>Data and literature review</li> <li>Develop prototype model</li> <li>Pilot test model</li> </ul>	1					1			1		
RP3038	Income barriers to low carbon living	<ul> <li>Identify the financial and non-financial barriers of low income (gross income in</li> </ul>	<ul><li>Stakeholder engagement</li><li>Analysis and reporting</li></ul>		2			4	2		3			

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		<ul> <li>the two lowest quintiles) metropolitan and regional households (single persons, single parent families and large families) to low carbon living</li> <li>Develop policy interventions to advance low carbon living</li> </ul>												
RP3039	The sale of low carbon housing: training and professional development (Liveability Real Estate Framework)	Enable real estate agents to identify and promote low carbon homes at the point of sale or lease. It will do so by developing the Liveability Real Estate Framework into online training modules integrated into existing NSW TAFE vocational courses	<ul> <li>Stakeholder engagement</li> <li>Develop training modules</li> <li>Pilot and refine modules</li> </ul>	1	4							3	2	
RP3043	Community battery storage and other emerging low carbon energy technologies	Explore the role of distributed district scale energy infrastructure to deliver low carbon and resilient development, particularly community battery storage and other emerging low carbon energy technologies (e.g. nano-grid, micro-grid, smart-grid). Work with the CRCWSC to integrate distributed water scenarios.	<ul> <li>Examine the technical and economic aspects of providing solar-storage</li> <li>Stakeholder consultation</li> <li>Develop and test a commercial model for community solar-storage</li> <li>Undertake modelling and evaluation</li> <li>Develop a anual for low carbon precinct scale energy/district community battery storage</li> </ul>		4	1								
RP3044	Mainstreaming low carbon retrofits in social housing	Assist community, public and aboriginal housing providers to integrate low carbon retrofits and refurbishments into property maintenance and upgrades through the development of rigorous, evidence-based decision support resources.	<ul> <li>Literature review</li> <li>Stakeholder engagement</li> <li>Monitoring of building upgrade performance</li> <li>Develop process map for community housing maintenance and upgrades</li> <li>Develop resources to support integration of low carbon upgrades into existing process</li> <li>Test, refine, and promulgate resources.</li> </ul>	1	4		1					1	1	

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RP3045	Coordinate, integrate and commercialise the CRCLCL living laboratories	Ensure the sustainability of the CRCLCL's network of 11 living laboratories (which bring together the research, public and private sectors to co-produce research that is practical and useful in real-world settings) by coordinating and integrating their activities within a strategic and commercialisation- orientated framework	<ul> <li>Research the knowledge-innovation processes of the living labs</li> <li>Engagement with the labs and stakeholders</li> <li>Develop business, commercialisation and engagement models</li> <li>Develop business scaling and transition plan</li> <li>Pilot testing</li> </ul>			1			1			3		
CROSS-CL	ITTING PROJECTS													
SP0006	Optimising the social, economic, environmental and governance value of building projects	Integrate the social, economic, environmental and governance impacts of the built environment into the decision making processes of building projects though the development of a rigorous and transparent measurement tool	<ul> <li>Stakeholder engagement</li> <li>Develop framework, indicators and tool</li> <li>Trial and refine tool</li> </ul>		1	1						1		
SP0008	Low carbon built environment knowledge hub	<ul> <li>Increase creation, dissemination and access to low carbon living research by:</li> <li>Establishing an online database and collaboration platform</li> <li>Curating and synthesising content</li> </ul>	<ul> <li>Stakeholder consultation</li> <li>Develop technical, management and content strategies</li> <li>Website design</li> </ul>		2	1							1	1
SP0009	Best practice in policy and regulation for the energy and carbon performance of the built environment	<ul> <li>Compare and contrast Australian and global best practices in policy and regulation for the energy and carbon performance of the built environment</li> <li>Examine the drivers and opportunities for, and barriers to, the adoption of best practices in Australia</li> <li>Propose a set of optimal measures, at national, state/territory and local levels, along with an indicative pathway for their</li> </ul>	<ul> <li>Desktop research</li> <li>Policy and regulation impact analysis</li> <li>Reporting</li> </ul>		1									

#	Title	Purpose	Method	Literature review / scoping study	Project report	Guideline / plan / manual / standard / specification	Thesis	Conference paper / poster / presentation	Refereed publication e.g. manuscript, book chapter	Case study	Other publication e.g. online article, submission	Tool / model / framework	Training	Other
SP0011	Supporting outcomes for the Australian Sustainable Built Environment Council (ASBEC)	<ul> <li>implementation</li> <li>Compare the CRCLCL's research against barriers and policy priorities for achieving zero carbon buildings identified in the ASBEC Low Carbon, High Performance roadmap;</li> <li>Identify gaps that could help prioritise focus areas that may be suited to future projects to meet identified industry needs</li> </ul>	<ul> <li>Mapping the CRCLCL's projects against the ASBEC policy roadmap for zero carbon buildings</li> </ul>		1									
SP0012	The cooling potential and impact of water based and other urban climate mitigation technologies in western Sydney	Assess the cooling potential of water based and the other main mitigation technologies on energy, peak electricity demand, health, environment and thermal comfort in Western Sydney	<ul> <li>Identify mitigation technologies including, water based, cool roofs, cool pavements, urban greenery</li> <li>Simulate the existing temperature distribution in Western Sydney.</li> <li>Simulate the temperature distribution when the mitigation technologies are applied</li> <li>Analyse and assess the impact of the mitigation technologies.</li> <li>Develop proposals for implementation of the mitigation technologies in selected zones</li> </ul>		1									1
SP0016	Reducing carbon through ambitious improvements to the building code energy requirements – the ASBEC trajectory project	Assess the value of pursuing ambitious energy performance trajectories for new building work by modelling potential cost- effective pathways for eight key building types. This will provide both a benchmark to assess the update of Australia's National Construction Code in 2019.	<ul> <li>Develop an energy model and undertake cost-benefit analyses</li> <li>Assess the costs and benefits</li> <li>Assess the technology barriers.</li> </ul>		1						1	1		
SP0018	Energy efficiency policy adoption diffusion modelling	Integration of agent-based models developed by the CRCLCL (RP3028,	<ul><li>Develop a business model and plan</li><li>Integrate existing CRCLCL agent-</li></ul>		2	1						1		1

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		RP3035, RP2021 and RP3002) into an interactive simulation platform to allow stakeholders to explore plausible policy scenarios	<ul> <li>based models into a stand-alone web- based model</li> <li>Define the use cases and code for the unified ABM, based on the business plan</li> <li>Publish the model online with methods</li> </ul>											
SP0019	Low carbon guides series	<ul> <li>Develop a set of practical guides to low carbon construction addressing:</li> <li>Precincts</li> <li>Residential – new</li> <li>Residential – retrofit</li> <li>Commercial – new</li> <li>Commercial – retrofit</li> </ul>	<ul> <li>Engage with stakeholders</li> <li>Literature review</li> <li>Develop guide</li> </ul>			1				1				
MR2204	Best practice approaches to the design of zero carbon low consumption communities	Develop a practical and comprehensive publication translating key elements of the CRCLCL research	Collate, edit and present approximately 25 chapters from a range of authors						1					
MR2306	Guide to the CRCLCL software tools.	A guide describing the use and application of the CRCLCL tools	<ul> <li>Collate, edit and present chapters on~6 software tools</li> </ul>			1			1	1				

### Part 2

### Glossary

CORE DEWNR DPI ETWW FDD GHG HP	Community owned renewable energy Department of Environment, Water and Natural Resources Department of Primary Industries Energy, transport, waste and water Fault detection and diagnostics Greenhouse gas High Performance
HVAC	Heating, ventilation and air-conditioning
LCA	Life cycle assessment
NatHERS	Nationwide House Energy Rating Scheme
NFP	Not for Profit
OEH	Office of Environment and Heritage
PCM	Phase change materials
PIM	Precinct information modelling
PV	Photovoltaic
PVT	Photovoltaic thermal hybrid solar collectors
TRNSYS	An energy simulation software package
UHI	Urban heat island
VE	Value engineering
ZEH	Zero emissions home

## Part 3

#	Title	Date	Authors	Journal / proceedings / publisher	No., vol, location etc	Туре	ISSN, DOI, ISBN etc	Keywords
RP1001	Channel depth, air mass flow rate and air distribution duct diameter optimization of photovoltaic thermal (PV/T) air collectors linked to residential buildings	2015	Farshchimonfared, M, Bilbao, J.I and Sproul, A.B.	Renewable Energy	76, 27-35	Journal article	http://dx.doi.org/1 0.1016/j.renene.2 014.10.044	Photovoltaic thermal systems, PV/T air collector, effective thermal energy output
RP1001	Full optimisation and sensitivity analysis of a photovoltaic-thermal (PV/T) air system linked to a typical residential building	2016	Farshchimonfared, M, Bilbao, J.I and Sproul, A.B.	Solar Energy	136, 15-22	Journal article	http://dx.doi.org/1 0.1016/j.solener.2 016.06.048	Photovoltaic thermal systems, PV/T air collector, sensitivity analysis, rate of effective thermal output, overall exergy gain
RP1001	Development of a roof mounted PV system to a PV/T air system	2014	Farshchimonfared M. and Sproul A.B.	Asia Pacific Solar Research Conference	Canberra	Paper	http://bit.ly/2mxxA kY	
RP1001	First generation prototype products for commercialization, field testing of first generation building integrated solar thermal and PV products	2016	Farshchimonfared, M, Bilbao, J.I and Sproul, A.B.	CRCLCL		Report		
RP1002	Solar-assisted LiBr – H <sub>2</sub> O absorption systems for air-conditioning applications	2014	Shirazi, A., Taylor, R.A., Morrison, G. and White, S.	AIRAH Solar Cooling workshop	Brisbane	Presentation	http://bit.ly/2ncB0 XD	
RP1002	Simulation of high temperature solar cooling system with different control strategies	2014	Pintaldi, S., Shirazi, S, Sethuvenkatraman, S, White, S., Rosengarten, G. and Taylor, R.A.	Asia-Pacific Solar Research Conference	Sydney	Paper		
RP1002	Exergetic, economic and environmental analyses and multi-objective optimization of an SOFC-gas turbine hybrid cycle coupled with an MSF desalination system	2014	Najafi, B., Shirazi, A, Aminyavan,M, Rinaldi, F and Taylor, R.A.	Desalination	334(1), 46– 59	Journal article	http://dx.doi.org/1 0.1016/j.desal.201 3.11.039	Solid oxide fuel cell, gas turbine, multi stage flash distillation, exergy, environmental, multi-objective optimization
RP1002	Thermal-economic-environmental analysis and multi-objective optimization of an ice thermal energy storage system for gas turbine cycle inlet air cooling	2014	Shirazi, A., Najafi, B., Aminyavari, M., Rinaldi, F. and Taylor, R.A.	Energy	69, 212–226	Journal article	http://dx.doi.org/1 0.1016/j.energy.2 014.02.071	Ice thermal energy storage system, gas turbine, inlet air cooling, exergy, economic, multi- objective optimization
RP1002	Multi-effect absorption chillers powered by the Sun: reality or reverie	2015	Shirazi, A., Taylor, R.A., White, S.D. and Morrison, G.L.	International Conference on Solar Heating and Cooling for Buildings and Industry	Turkey	Paper	ISSN 1876-6102	
RP1002	Solar-powered absorption chillers for air-conditioning applications: simulation and techno-economic evaluation	2015	Shirazi, A., Pintaldi, S., Taylor, R., White, S.D., Morrison, G.L., and Rosengarten, G.	Proceedings of the ASME 2015 Power and Energy Conversion Conference	San Diego, USA	Paper	10.1115/ES2015- 49637	
RP1002	Transient simulation and parametric study of solar-assisted heating and cooling absorption systems: an energetic, economic and environmental (3E) assessment	2016	Shirazi, A., Taylor, R.A., White, S.D. and Morrison, G.L.	Renewable Energy	86, 955–971	Journal article	http://dx.doi.org/1 0.1016/j.renene.2 015.09.014	Solar thermal, Absorption chiller, Air- conditioning, TRNSYS, Economic, Environmental
RP1002	A systematic parametric study and feasibility assessment of solar-assisted	2016	Shirazi, A., Taylor, R.A., White, S.D. and	Energy Conversion and	114, 258–	Journal article	http://dx.doi.org/1	Solar heating and

#	Title	Date	Authors	Journal / proceedings / publisher	No., vol, location etc	Туре	ISSN, DOI, ISBN etc	Keywords
	single-effect, double-effect, and triple-effect absorption chillers for heating and cooling applications		Morrison, G.L.	Management	277		0.1016/j.enconma n.2016.01.070	cooling, absorption chiller, single-effect, double-effect, triple- effect, TRNSYS
RP1002	Multi-objective optimization of a solar-powered triple-effect absorption chiller for air-conditioning applications	2016	Shirazi, A., Taylor, R.A., White, S.D. and Morrison, G.L.	International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering,	10(10)	Paper	http://bit.ly/2ncDP b6	
RP1002	Solar-assisted absorption air-conditioning systems in buildings: control strategies and operational modes	2016	Shirazi, A., Pintaldi, S., White, S., Morrison, G., Rosengarten, G. and Taylor, R.A.	Applied Thermal Engineering	92, 246–260	Journal article	http://dx.doi.org/1 0.1016/j.applther maleng.2015.09.0 81	Solar cooling, absorption chiller, air- conditioning, TRNSYS, simulation, control strategy
RP1002	Control strategies of domestic electrical storage for reducing electricity peak demand and life cycle cost	2016	Sleiman, F., Whaley, D. and Saman, W.	International Journal of Hydrogen Energy	41(45), 20939-20949	Journal article	https://doi.org/10. 1016/j.ijhydene.20 16.06.164	Peak demand, tariff, photovoltaic, battery, electrical storage, control strategy
RP1002	Simulation of rooftop photovoltaic shading using TRNSYS	2017	Farah, S., Whaley, D. and Saman, W.	3rd International Renewable and Sustainable Energy Conference	Morocco	Paper		Shade, photovoltaic, TRNSYS, heating and cooling
RP1002	A comprehensive, multi-objective optimization of solar-powered absorption chiller systems for air-conditioning applications	2017	Shirazi, A., Taylor, G., Morrison, G. and White, S.	Energy Conversion and Management	132, 281– 306	Journal article	http://dx.doi.org/1 0.1016/j.enconma n.2016.11.039	Solar cooling, absorption chiller, multi-effect, multi- objective optimization, economic, environmental
RP1002	Development of robust meteorological year weather data	2018	Farah, S., Saman, W. and Boland, J.	Renewable Energy	118, 343-350	Journal article	10.1016/j.renene. 2017.11.033	Typical meteorological year (TM2), robust synthetic data, Fourier series, energy simulation, Levene's test, Kolmogorov- Smirnov two-sample test
RP1003	PV as an integrated building material Status report, barriers and opportunities	2013	Burgun, F., Snow, M. and Sproul, A.	CRCLCL		Report		
RP1004	Pathways for overcoming barriers to implementation of low CO <sub>2</sub> concrete	2015	Berndt, M.L., Sanjayan, J., Foster, S. and Castel, A.	CRCLCL		Report		
RP1004	State of practice: high volume applications of fly ash and barriers to commercialisation	2015	NG, T.S., Foster, S., Castel, A., Sanjayan, J. and Berndt, M.L.	CRCLCL		Report		
RP1006	Research program 1006: viable integrated systems for zero carbon housing: Lochiel Park monitoring case study	2015	Whaley, D., Mudge, L., and Saman, W.	CRCLCL		Report		
RP1007	Intelligent automated monitoring of commercial photovoltaic (PV) systems - Final CRC Report	2016	Jarmason, S., Copper, J. and Sproul, A.	CRCLCL		Report		Photovoltaic, monitoring, energy, yield, modelling, smart grid
RP1007	Photovoltaic (PV) performance modelling in the absence of onsite measured	2016	Copper, J.K., Sproul, A.B. and Jamason,	Renewable Energy	86, 760-769	Journal article	https://doi.org/10.	Photovoltaics,

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	plane of array irradiance (POA) and module temperature		S.				1016/j.renene.201 5.09.005	Performance, Modelling, Irradiance, Temperature
RP1008	Development of a solar air-conditioning Australian Standard	2013	Goldsworthy, M.	AIRAH Solar Cooling Conference	Sydney	Paper		
RP1008	Exploitation in an unfair world: finding attractive markets for solar cooling	2013	White, S. and Goldsworthy, M.	5th International Solar Air- conditioning Conference	Germany	Paper		
	A component testing system simulation (CTSS) method for characterizing solar air-conditioner performance	2013	Goldsworthy, M. and White, S.	Int. J. of Refrigeration	48, 1676- 1687	Journal article	DOI: 10.1016/j.ijrefrig. 2013.08.014	
RP1008	Guide for obtaining recognition for alternative low-energy heating and cooling products under the NSW ESS Rule	2014	White, S.	CRCLCL		Report		
RP1008	Review and modelling of solar air collectors for solar air-conditioning	2014	Bellemo, L. and Goldsworthy, M.	CRCLCL		Report		
RP1008	AS5389 – Space heating and cooling and ventilation systems – Calculation of energy consumption	2016	Standards Australia	Standards Australia		Standard		
RP1008	Solar air collector – building model TRNSYS sensitivity study	2014	Goldsworthy, M.	CRCLCL		Report		
RP1009	Construction industry leaders and researchers partner-up to reduce carbon footprint and increase performance	2014	CRCLCL	CRCLCL		Media release		
RP1009	Building in Sustainability	2016	Hall, S., Pollard, B. and Criado-Perez	Facility Management Magazine		Journal article		
RP1009	Building typology and stakeholder review	2015	Hall, S.	CRCLCL		Report		
RP1009	Closing the Loop, evidence-based design and systematic review	2014	Gou, Z.	CRCLCL		Report		
	Impacts of green certifications, ventilation and office types on occupant satisfaction with indoor environmental quality	2014	Gou, Z, Prasad, D. and Lau, S.S.L	Architectural Science Review	57 (3)	Journal article	http://dx.doi.org/1 0.1080/00038628. 2014.908113	Green buildings, occupant satisfaction, green certifications, ventilation types, office types
RP1009	Navigating the Evidence	2015	Hall, S.	CRCLCL		Report		
RP1009	The business case for evidence-based workplace design	2015	Prasad, D.	Sourceable		Article	https://bit.ly/1KK7 oHq	
RP1009	Evidence based practice for the built environment: Can systematic reviews close the research-practice gap?	2017	Hall, S., Oldfield, Pl, Mullins, B.J., Polard, B. and Criado-Perez, C.	Procedia Engineering	180, 912– 924	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.341	Evidence based practice, systematic review, built environment, Well building, research practice gap, realist synthesis
RP1009	Investigating systematic review for multi-disciplinary research in the built environment	2017	Parida, S., and Brown, K.	Built Environment Project and Asset Management	8, 1, 78-90	Journal article	doi 10.1108/BEPAM- 10-2016-0056	Systematic review, evidence-based practice, green building, academic- practitioner divide, green offices, multi- disciplinary research
	Building better decisions: Why good evidence is used (and ignored) in the built environment sector	2018	Criado-Perez, C., Pollard, B., Oldfield, P., Collins, C.G., Jackson, C., and Sanders,	CRCLCL		Report	https://bit.ly/2LIAp xu	

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			К.					
	Report on monitoring and verification of performance of new and retrofitted low carbon buildings	2016	Meng, Z and Sproul, A	CRCLCL		Report		
RP1010	Admittance/fourier series revisited: understanding periodic heat flows	2017	Sproul, A.B.	Procedia Engineering	180, 292– 302	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.188	Admittance, Fourier series, superposition, periodic, heat transfer
RP1010	Thermal modelling: improving your home's heating and cooling efficiency	2017		CRCLCL		Factsheet		
RP1011	A Low Carbon Solution to the Affordable Housing Issue	2015	Prasad, D.	Sourceable		Article	https://bit.ly/1KK7 oHq	
RP1011	Nova Deko & UNSW to develop fully sustainable modular container homes	2014	No author	Architecture and Design		Blog	http://bit.ly/2oA5m Tp	
RP1011	Quick Concept Note 4 – Roof	2013	Dave, M.H. and Bilbao, J.I.	UNSW		Report		
RP1011	Quick Technical Note 1 – Corten Steel	2013	Bilbao, J.I. and Dave, M.H.	UNSW		Report		
RP1011	Quick Technical Note 3 – Insulation	2013	Bilbao, J.I. and Dave, M.H.	UNSW		Report		
RP1011	Pod manufacturing process analysis and recommendations	2014	Bilbao, J.I., Dave, M.H. and Watson, B.	UNSW		Report		
RP1011	Samara life cycle assessment	2014	Däweritz A., Bilbao J.I., and Kara, S.	UNSW		Report		
RP1011	Sustainable modular housing. The green pod: first iteration	2014	Bilbao, J.I., Dave, M.H. and Watson, B.	UNSW		Report		
	Sustainable modular housing: thermal performance optimizing of the concept pod	2013	Bilbao, J.I., Dave, M.H. and Watson, B.	UNSW		Report		
RP1011	Quick Technical Note 2 – Cross Ventilation	2013	Bilbao, J.I. and Dave, M.H.	UNSW		Report		
RP1011	Quick Technical Note 5 - Condensation and Mould	2013	Bilbao, J.I. and Dave, M.H.	UNSW		Report		
	Sustainable and affordable living through modular homes and communities – RP1011 Final Report	2016	Bilbao, J.I., Dave, M.H., Watson, B., Sproul, A.B. and Prasad, D.	CRCLCL		Report		
RP1011	Towards Sustainable Modular Housing: A Case Study of Thermal Performance Optimisation for Australia	2014	Dave, M.H., Bilbao, J.I., Dickson, J., Watson, B., Prasad, D. and Sproul, A.B.	30th International PLEA Conference: Sustainable Habitat for Developing Societies	Ahmedabad, India	Paper		
RP1011	Tylden Pod Report	2014	Bilbao, J.I., Dave, M.H. and Watson, B.	UNSW		Report		
RP1011	Performance and perception in prefab housing: An exploratory industry survey on sustainability and affordability	2016	Dave, M.H., Watson, B. and Prasad, D.	UNSW		Paper		
RP1012	A guide to managing moisture with building membranes in Australian houses	2015	Bostrom, M., Corrigan, M., and King, S.	CRCLCL		Report		
RP1013	Beating the heat through retrofitting	2015	Hatvani-Kovacs, G., Belusko, M., Pockett, J. and Boland, J.	Retrofit Australia	4 (2)	Article	http://retrofit.realvi ewdigital.com/#foli o=45	
RP1013	Interview with Alistair Sproul	2015		ABC News Radio Sydney		Media	http://mpegmedia. abc.net.au/newsra dio/audio/201508/ r1462483_213260 55.mp3	
RP1013	Interview with Alistair Sproul	2015		702 ABC Sydney		Media		
RP1013	Interview with Alistair Sproul	2015		ABC Central Coast		Media		
RP1013	Interview with Alistair Sproul	2015		ABC Mid North Coast		Media		
RP1013	Interview with Alistair Sproul	2015		BZE Radio		Media	http://bze.org.au/ media/radio/aprof-	

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							alistair-sproul- unsw-150915	
	Interview with Alistair Sproul, Associate Professor, UNSW, about electricity bills	2015		ABC Kimberley, Mornings		Media		
RP1013	Interview with Professor Tony Peacock featuring Iain McGill	2015		666 ABC Canberra		Media		
RP1013	New study reveals ducted air-conditioning and pools drive Sydney's residential electricity demand	2015	CRCLCL	CRCLCL		Media release		
RP1013	Statistical analysis of driving factors of residential energy demand in the greater Sydney region, Australia	2015	Fan, H, MacGill, I.F. and Sproul, A.B.	Energy and Buildings	105, 9-25	Journal article	http://apo.org.au/n ode/70224	Energy demand, residential household, characteristics, driving factors for electricity, consumption, empirical data, smart grid, energy modelling
RP1013	Statistical analysis of drivers of residential peak electricity demand,	2017	Fan, H, MacGill, I.F. and Sproul, A.B.	Energy and Buildings	141, 205-217	Journal article	https://doi.org/10. 1016/j.enbuild.201 7.02.030	Peak demand, residential, electricity demand, energy demand, smart grid, peak load, influence, factors
RP1013	Impact of feedback interventions on residential electricity demand in Australia's first large scale smart grid project	2015	Fan, H, MacGill, I.F. and Sproul, A.B.	Innovative Smart Grid Technologies-Asia (ISGT ASIA), IEEE		Paper		
RP1013	Distributed energy storage draft scoping study issues paper	2016	Copper, J., MacGill, I. and Sproul, A.	CRCLCL		Report		
RP1013	The viability of electrical energy storage for Lochiel Park households	2016	Pudney, P., Grantham, A, Ward, L.A. Whaley, D., and Boland, J.	CRCLCL		Report		
	Experimental study of a solar pool heating system under lower flow and low pump speed conditions	2018	Zhao, J., Bilbao, J.I., Spooner, E.D. and Sproul, A.B.	Renewable Energy	119, 320-335	Journal article	https://doi.org/10. 1016/j.renene.201 7.12.006	Solar collector, swimming pool, lower flow rate, low pump speed, high efficiency pumping
	Submission to the Australian government's RIS consultation on Minimum Energy Performance Standards for pool pumps	2016	Sproul, A.B.	CRCLCL		Submission		
RP1014	UNSW research pinpoints residential energy guzzlers	2015	Aliento, W.	The Fifth Estate		Article	http://www.thefifth estate.com.au/ed ucation/unsw- research- pinpoints- residential- energy- guzzlers/76755	
RP1014	Minimising your pool's energy consumption	2017	Sproul, A.B.and Zhao, J.	CRCLCL		Guide note		
RP1015	Comparison of TRNSYS and OpenStudio: modelling of the monitoring room (401) in the Tyree Energy Technologies Building UNSW	2014	Lin S., Liu Q. and Sproul A.B.	Asia Pacific Solar Research Conference, UNSW	Sydney	Paper		
RP1015	Ground coupled photovoltaic thermal (PV/T) driven desiccant air cooling	2014	Guo, J., Sproul A.B. and Bilbao, J.I.	Asia Pacific Solar Research Conference, UNSW	Sydney	Paper	http://apvi.org.au/ solar-research-	

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							conference/wp- content/uploads/2 015/04/Guo_peer _reviewed.pdf	
RP1015	A review of photovoltaic thermal (PV/T) heat utilisation with low temperature desiccant cooling and dehumidification	2017	Guo, J., Lin, S., Bilbao, J.I., White, S.D. and Sproul, A.B.	Renewable and Sustainable Energy Reviews	67, 1–14	Journal article	http://dx.doi.org/1 0.1016/j.rser.2016 .08.056	Solar cooling, desiccant cooling, solar desiccant cooling, photovoltaic thermal (PV/T), low temperature, dehumidification
RP1015	Application of internal cooled desiccant wheel in air-conditioning system	In review	Zhou, X., Goldsworthy, M., and Sproul, A.	Ashrae Journa.		Journal article		
RP1015	Performance investigation for an internally cooled desiccant wheel	2018	Zhou, X., Goldsworthy, M., and Sproul, A.	Applied Energy	224, 382-397	Journal article	https://doi.org/10. 1016/j.apenergy.2 018.05.011	Desiccant wheel, non- adiabatic process, dehumidification, air conditioning
RP1017	Validating and improving the BASIX energy assessment tool for low carbon dwellings: interim report #1: recruitment and data analysis	2015	Ding, L. et al	CRCLCL		Report		
RP1017	Validating and improving the BASIX energy assessment tool for low-carbon dwellings: interim report #2: recruitment, data analysis and post-occupancy analysis models	2016	Ding, L. et al	CRCLCL		Report		
RP1017	Validating and improving the BASIX energy assessment tool for low-carbon dwellings: final report	2017	Ding, L. et al	CRCLCL		Report		
RP1017	Post-occupancy energy consumption of BASIX affected dwellings in the Sydney metropolitan area	2017	Upadhyay, A., Ding, L., Yee, K. and Prasad, D.	Procedia Engineering	180, 331-342	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.192	Building envelope, diagnostics, thermal performance
RP1017	Modelling and analysis of post-occupancy behaviour in residential buildings to inform BASIX sustainability assessment in NSW	2017	Samaratunga, M., Ding, L. Prasad, D. and Yee, K.	Procedia Engineering	180, 343-355	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.193	Building sustainability index (BASIX), energy consumption behaviour in dwellings, evidence-based behaviour modelling
RP1017	The role of post-occupancy evaluation in achieving high performance buildings through diagnostics	2017	Munsami, K., Prasad, D. and Ding, L.	Procedia Engineering	180,356-365	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.194	Building envelope, diagnostics, thermal performance
RP1017	Validating and improving the BASIX energy assessment tool for low-carbon dwellings - phase 2: final report	2018	Ding, L. et al	CRCLCL		Report		
RP1019	The CRCLCL Home Comfort Index: supporting energy efficient well-being	2017		CRCLCL		Factsheet		
RP1020	Time-dependent behaviour of a class F fly ash-based geopolymer concrete	2014	Castel, A., Foster, S. and Aldred, J.	International Journal of Research in Engineering and Technology	3(13), 109- 113	Journal article		Sustainability, geopolymer concrete, fly ash, creep, shrinkage
RP1020	A resistivity-based approach to indicate chloride permeability of geopolymer concrete	2015	Noushini, A. and Castel, A.			Paper	https://bit.ly/2Kdy MoP	Geopolymer concrete, surface resistivity (ST) test, chloride diffusion, permeability

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RP1020	Bond strength between blended slag and Class F fly ash geopolymer concrete with steel reinforcement	2015	Castel, A. and Foster, S.J.	Cement and Concrete Research	72:4910, 48- 53	Journal article	https://doi.org/10. 1016/j.cemconres. 2015.02.016	Sustainability
RP1020	Suitability of heat-cured low-calcium fly ash-based geopolymer concrete for precast applications	2015	Noushini A., Babaee M. and Castel, A.	Magazine of Concrete Research	68, 4	Article	DOI: 10.1680/macr.15. 00065.	
RP1020	Recycling of geopolymer concrete	2015	Akbarnezhad, A., Huan, M., Mesgari, S. and Castel, A.	Construction and Building Materials	101, 152-158	Journal article	https://doi.org/10. 1016/j.conbuildma t.2015.10.037	Geopolymer concrete, recycled concrete, concrete recycling
RP1020	The effect of heat-curing on transport properties of low-calcium fly ash-based geopolymer concrete	2016	Noushini, A., Castel, A.	Construction and Building Materials	112, 464-477	Journal article	https://doi.org/10. 1016/j.conbuildma t.2016.02.210	Geopolymer concrete, transport properties, durability, sorptivity, resistivity
RP1020	Creep and drying shrinkage of a blended slag and low calcium fly ash geopolymer	2015	Castel, A., Foster, S.J., Ng, T., Sanjayan, J.G. and Gilbert, R.I.	Concrete, Materials and Structures	49, 5	Journal article	DOI: 10.1617/s11527- 015-0599-1	Sustainability, geopolymer concrete, fly ash, creep, shrinkage
RP1020	Steel reinforcement corrosion in a low calcium fly ash geopolymer concrete	2016	Babaee, M. and Castel, A.	Key Engineering Materials	711, 943-949	Journal article	www.scientific.net /KEM.711.943	
RP1020	Prediction of the steel-concrete bond strength from the compressive strength of Portland cement and geopolymer concretes	2016	Dahou, Z., Castel, A. and Noushini, A.	Construction and Building Materials	119, 329-342	Journal article	https://doi.org/10. 1016/j.conbuildma t.2016.05.002	Pull out test, ultimate bond strength, compressive strength, variability, geopolymer concrete
RP1020	Chloride-induced corrosion of reinforcement in low-calcium fly ash-based geopolymer concrete	2016	Babaee, M. and Castel, A.	Cement and Concrete Research	88, 96-107	Journal article	https://doi.org/10. 1016/j.cemconres. 2016.05.012	Geopolymer concrete
RP1020	Compressive stress-strain model for low-calcium fly ash-based geopolymer and heat-cured Portland cement concrete	2016	Noushini, A., Aslani, F., Castel, A., Gilbert, R.I., Uy, B. and Foster, S.	Cement and Concrete Composites	73, 136-146	Journal article	https://doi.org/10. 1016/j.cemconco mp.2016.07.004	Geopolymer concrete, heat-cured Portland cement concrete, stress-strain model, modulus of elasticity
RP1020	Carbonation of a blended slag-fly ash geopolymer concrete in field conditions after 8 years	2016	Pasupathy, K, Berndt, M., Castel, A., Sanjayan, J. and Pathmanathan, R.	Construction and Building Materials	125, 661-669	Journal article	https://doi.org/10. 1016/j.conbuildma t.2016.08.078	Carbonation, core specimens, geopolymer concrete, field environment, water absorption, porosity
RP1020	Utilisation of steel furnace slag coarse aggregate in a low calcium fly ash geopolymer concrete	2016	Khan, M.S.H., Castel, A., Akbamezhad, A., Foster, S.J. and Smith, M.,	Cement and Concrete Research	89, 220-229	Journal article	https://doi.org/10. 1016/j.cemconres. 2016.09.001	Steel furnace slag aggregate, geopolymer concrete, low calcium fly ash, Shrinkage, ITZ
RP1020	Geopolymer: an alternative concrete for precast application	2016	Noushini A. and Castel, A.	Concrete n Australia	42(4), 54-58.	Article		Geopolymer, alkali- activated, binder, concrete, field trials
RP1020	Carbonation of a low-calcium fly ash geopolymer concrete	2016	Khan M.S.H., Castel, A. and Noushini, A.	Magazine of Concrete Research	69(1), 24-34	Journal article	https://doi.org/10. 1680/jmacr.15.00	Carbonation durability- related properties

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							486	sustainability
RP1020	Durability performance of concrete structures built with low carbon construction materials	2016	Pasupathy, K., Berndt, M., Sanjayan, J. and Pathmanathan, R.	Energy Procedia	88, 794-799	Journal article	https://doi.org/10. 1016/j.egypro.201 6.06.130	Low carbon materials, supplementary cementitious materials, geopolymer concrete, corrosion risk, durability
RP1020	Building community resilience: coastal protection using high density low carbon concrete	2017	Modra, B. and Castel, A.	CRCLCL		Factsheet		Heat curing
	Durability of low-calcium fly ash based geopolymer concrete culvert in a saline environment	2017	Pasupathy, K., Berndt, M., Sanjayan, J., Pathmanathan, R., and Cheema D.S.	Cement and Concrete Research	100, 297-310	Journal article	https://doi.org/10. 1016/j.cemconres. 2017.07.010	Geopolymer, durability, fly ash, carbonation, chloride, diffusion, sulphate, corrosion
	Durability performance of precast fly ash-based geopolymer concrete under atmospheric exposure conditions	2018	Pasupathy, K., Berndt, M., Sanjayan, J., Pathmanathan, R., and Cheema D.S.	Journal of Materials in Civil Engineering	30, (3)	Journal article	ISSN 0899-1561	
RP1020	Field performance of geopolymer concrete structures	2018	Foster, S. et al.	CRCLCL		Report		
RP1021	Peter Newman on prefabs transformative potential	2015	Aliento, W.	The Fifth Estate		Article	http://bit.ly/2ncInO y	
RP1021	Reframing housing regulation: delivering performance improvement in tandem with affordability homes	2015	Enker, R.	49th International Conference of the Architectural Science Association	Melbourne	Presentation		
RP1021	The evolution of building energy standards in Australia: a journey interrupted?	2015	Enker, R.	Sustainable Engineering Society Conference	19-31	Paper	ISBN: 9781922107428	
RP1021	Building energy policy why dollars don't' always make sense	2016		CESB2016	Prague	Paper		
RP1021	Building energy regulation: red tape or green bounty?	2016	Enker, R.	The Fifth Estate		Article	http://bit.ly/2mZBS xD	
RP1021	Analysis of the transition effects of building codes and regulations on the emergence of a low carbon residential building sector	2017	Enker, R. and Morrison, G.M.	Energy and Buildings	156, 40-50	Journal article	https://doi.org/10. 1016/j.enbuild.201 7.09.059	Energy policy, greenhouse gas emissions, transition theory, disruptive innovation, building codes, australia
	A review and analysis of regression and machine learning models on commercial building electricity load forecasting	2017	Yildiz, B., Bilbao, J.I. and Sproul, A.B.	Sustainable and Renewable Energy Reviews	73, 1104- 1122	Journal article	http://dx.doi.org/1 0.1016/j.rser.2017 .02.023	Short term load forecasting for commercial buildings, review of regression models, machine learning, neural networks, support vector regression, regression trees
RP1023	Roof-top solar hits a crossroad – are smart meters the answer?	2017	Prasad, D.	Sourceable		Article	http://bit.ly/2p3cA 2q	
RP1023	Short-term forecasting of individual household electricity loads with investigating impact of data resolution and forecast horizon.	2017	Yildiz, B., Bilbao, J., Sproul, A. and Dore, J.	Proceedings of the World Renew Energy Conference		Paper		
RP1023	Recent advances in the analysis of residential electricity consumption and	2017	Yildiz, B., Bilbao, J.I., Dore, J. and Sproul,	Applied Energy	208, 402-427	Journal article	https://doi.org/10.	Smart grids, home

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	applications of smart meter data		A.B.				1016/j.apenergy.2 017.10.014	energy management system, forecasting, clustering optimization, residential electricity load profile
	A method for classifying households to help forecasting their PV electricity self-consumption patterns	2017	Yildiz, B., Bilbao, J., Sproul, A. and Dore, J.	Asia Pacific Solar Research Conference	Melbourne	Paper	ISBN: 978-0- 6480414-1-2	PV self-consumption, clustering, home energy management systems
RP1023	A review of smart meter based models on short-term residential electricity load forecasting	In review	Yildiz, B., Bilbao, J.I. and Sproul, A.B.	Applied Energy		Journal article		
RP1024	What the indoor air temperatures in houses in three Australian cities tell us	2018	Chen, D., Ren, Z and James, M.	10 <sup>th</sup> Windsor Conference,	Berkshire, UK	Paper	https://bit.ly/2MeM 3Le	Thermal comfort, thermostat settings, triggering temperature, residential buildings
RP1024	Evaluation of a whole-house energy simulation tool against measured data	2018	Ren, Z, Chen, D., and James, M.	Energy and buildings	171, 116-130	Journal article	https://doi.org/10. 1016/j.enbuild.201 8.04.034	Occupant behaviour, total energy consumption, Chenath engine, the AusZEH design tool, monitoring data, realistic operation condition
RP1031	Influence of Diaphragm Flexibility on the Seismic Performance of Multi-Story Modular Buildings	2017	Srisangeerthanan, S., Hashemi, M.J., Rajeev, P., Gad, E. and Fernando, S.	Australian Earthquake Engineering Society Conference	Perth, Australia	Paper		Prefabrication, modular buildings, diaphragm action, seismic design
RP1031	Numerical study on the effects of diaphragm stiffness and strength on the seismic response of multi-story modular buildings	2018	Srisangeerthanan, S., Hashemi, M.J., Rajeev, P., Gad, E. and Fernando, S.	Engineering Structures	163, 25-37	Journal article	https://doi.org/10. 1016/j.engstruct.2 018.02.048	Prefabrication, modular buildings, diaphragm action, seismic design
RP1031	Dynamic loading on a prefabricated modular unit of a building during road transportation	2018	Godbole,S., Lam, N., Mafas, M., Femando, S., Gad, E. and Hashemi, J.	Journal of Building Engineering	18, 260-269	Journal article	https://doi.org/10. 1016/j.jobe.2018. 03.017	Acceleration response spectra, modular building unit, heavy truck-trailer-trailer modelling, road elevation profile
RP1031	A review on diaphragm behaviour and connections for multi-story modular buildings	2018	Srisangeerthanan, S., Hashemi, M.J., Rajeev, P., Gad, E. and Fernando, S.	Australasian Structural Engineering Conference		Paper		
RP1031	Universal connectors for modular buildings	2018		CRCLCL		Factsheet		
RP1032	A case study investigation of direct end user procurement of offsite renewable energy in the Australian context	2016	Mitchell, E. and Mills, G.	Asia Pacific Solar Research Conference	Canberra	Presentation		
RP1032	Developing a framework for direct end user procurement of offsite renewable energy in the Australian context	2016	Mitchell, E. and Mills, G.	Asia Pacific Solar Research Conference	Canberra	Presentation		
RP1032	Facilitating end user deployment of off-site renewable generation	2017	Mitchell, E. and Mills, G.	CRCLCL		Report	http://bit.ly/2prSq5 H	
RP1032	A framework for procuring offsite renewable energy	2017	Mills, G. and Mitchell, E.	CRCLCL		Guide note		

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RP1032	Submission to the Climate Change Fund Draft Strategic Plan 2017-2022	2017	Mills, G., Bruce, A. and MacGill, I.	Centre for Energy and Environmental Markets		Submission	ISBN 978-1- 76039-427-1	
RP1037	Cool roofs: Your roof materials can improve the efficiency of solar panels and air-con	2018		CRCLCL		Factsheet		
RP1036	Distributed energy resources and the Australian NEM – a good match?	2016	Marshall, L., Bruce, A. and MacGill, I.	Asia-Pacific Solar Research Conference	Sydney	Paper	https://bit.ly/2Mds 6nP	
RP1036	Allocation rules and meter timing issues in local energy or 'peer to peer' networks	2017	Marshall, L., Bruce, A. and MacGill, I.	Asia-Pacific Solar Research Conference	Sydney	Paper	https://bit.ly/2tuHF 2P	
RP1036	Open source model for operational and commercial assessment of local electricity sharing schemes in the Australian national electricity market	2017	Stringer, N., Marshall, L., Passey, R., Bruce, A., and MacGill, I.	Asia-Pacific Solar Research Conference	Sydney	Paper	https://bit.ly/2ttlPe P	
RP2001	Low-carbon precincts for low-carbon living	2014	Newton P.W.	Carbon Management,	5:1, 5-8	Journal article		
RP2001	Performance assessment of urban precinct design: A scoping study	2014	Newton, P., Marchant, D., Mitchell, J., Plume, J, Seo, S. and Roggema, R.	CRCLCL		Report		
RP2002	Development of demand forecasting tool for natural resources recouping from municipal solid waste	2013	Zaman, A.U. and Lehmann, S.	Waste Management & Research	31(10), 17-25	Journal article	doi: 10.1177/0734242 X13496304	Waste management, demand forecasting tool, resource recouping, zero waste, zero waste index
RP2002	Energy, transport, waste and water demand forecasting and scenario planning for precincts. workshop 2 - Establishing a framework for integrated ETWW demand forecasting	2013	Holyoak, N.	CRCLCL		Report		
RP2002	Framework for low carbon precinct design from a zero waste approach	2013	Qian, Q.K., Lehmann, S., Zaman, A.U. and Devlin, J.	6th International Urban Design Conference	Sydney, Australia	Presentation		
RP2002	Integrated ETWW demand forecasting and scenario planning for precincts	2013	Taylor, M.A.P.	State of Australian Cities Conference	Adelaide	Presentation		
RP2002	Supporting urban planning of low carbon precincts: integrated demand forecasting	2013	Lehmann, S., Zaman, A.U., Devlin, J. and Holyoak, N.	Sustainability	55, 5289- 5318	Journal article	doi:10.3390/su51 25289	Low carbon precinct, integrated demand forecasting, performance indicators, resource management, waste diversion rate, zero waste
RP2002	Workshop 3 - Model specification, development and integration.	2014	Holyoak, N.	CRCLCL		Report		
RP2002	Workshop 6 - The development and application of the ETWW model foundation version 1.0 as a prototype	2016	Taylor, M., Holyoak, N., Zito, R., Percy, S., Hadjikakou, M., lankov, I. and He, H.	CRCLCL		Report		
RP2002	Workshop 1 - Initial workshop summary report	2013		CRCLCL		Report		
RP2002	Workshop 5 - Research development and scenario specification	2015	Taylor, M., Holyoak, N., Zito, R., Percy, S., Hadjikakou, M., lankov, I. and He, H.	CRCLCL		Report		
RP2002	Residential precinct demand forecasting using optimised solar generation and battery storage	2015		IEEE PES Asia-Pacific Power and Energy Engineering Conference	Brisbane	Paper		
RP2002	A comparison between capacity, cost and degradation in Australian residential battery systems	2016	Percy, S.D., Aldeen, M. Rowe, C.N. and Berry, A.	IEEE Innovative Smart Grid Technologies - Asia	Melbourne	Paper		
RP2002	Optimal microgrid design, a comparison between utility and household	2017	Percy, S.D., Aldeen, M. and Berry, A.	IEEE Power & Energy Society		Paper		

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	battery storage			General Meeting				
RP2002	An integrated demand and carbon impact forecasting approach for residential precincts	2017	Holyoak, N., Taylor, M., Hadjikakou, M. and Percy, S.	15th International Conference on Computers in Urban Planning and Urban Management	Adelaide	Paper	https://doi.org/10. 1007/978-3-319- 57819-4_17	Precinct, demand, energy, transport, waste, water
RP2002	Forecasting greenhouse gas emissions performance of the future Australian light vehicle traffic fleet	2017	lankov, I., Taylor, M. A. P. and Scrafton, D.	Transportation Research Part A: Policy and Practice	99, 125-146	Journal article	http://dx.doi.org/1 0.1016/j.tra.2017. 03.011	Tank-to-wheel greenhouse gas emission rate, light vehicle traffic load, vehicle size, vehicle year of manufacture, additional manufacturing cost, vehicle running cost, market shares, willingness-to-pay
RP2002	Integrated energy, transport, waste and water (ETWW) demand forecasting and scenario planning for precincts	2017	Taylor, M.A.P., Holyoak, N., Zito, R., Percy, S., Hadjikakou, M., lankov, I. and He, H.	CRCLCL		Report		
RP2002	An integrated demand and carbon forecasting tool for energy, transport, waste and water	2017		CRCLCL		Factsheet		
RP2003	A review of international low carbon precincts to identify pathways for mainstreaming sustainable urbanism in Australia	2013	Thomson, G.	CRCLCL		Report		
RP2003	Scoping study: (phase 1: interim report) a review of low carbon precincts to identify pathways for mainstreaming sustainable urbanism in Australia	2014	Thomson, G.	CRCLCL		Report		
RP2003	Geoengineering in the Anthropocene through regenerative urbanism	2016	Thomson, G. and Newman, P.	Geosciences	4(6), 46	Journal article	http://dx.doi.org/1 0.3390/geoscienc es6040046	Sustainable cities, Anthropocene, Paris agreement, COP21, regenerative design, green urbanism, urban geoengineering
RP2003	Greater Curtin, Climate Adaptation Plan	2015	Stocker, Thomson, McKellar, Rooney, Newman	Curtin University		Report		
RP2003	GRID: A new governance mechanism for financing eco-infrastructure at the district scale	2015	Thomson, G. and Rauland, V.	Australian Urban Design Conference	Adelaide	Paper	http://bit.ly/2mW4 040	
RP2003	Mainstreaming sustainable precincts: sharing experiences	2015	Rauland, V. and Thomson, G.	Fifth Estate	In Creating Sustainable Precincts	Book chapter	http://bit.ly/1v3Xky u	
RP2003	Sustainable built environment – global leaders	2014	Thomson, G. and Rauland, V.	CRCLCL		Report		
RP2003	Urban fabrics and urban metabolism – from sustainable to regenerative cities	2016	Thomson, G. and Newman, P.	Resources Conservation and Recycling		Journal article	http://dx.doi.org/1 0.1016/j.resconre c.2017.01.010	Urban metabolism, urban fabrics, regenerative design, town planning
RP2003	Chapter 15: Urban regeneration in Australia	2016	Newton, P. and Thomson, G.	Sage	In Urban Regeneration	Book chapter	http://dx.doi.org/1 0.4135/97814739 21788.n15	Urban geography, urban sociology, urban studies
RP2003	Urban Regeneration and Urban Fabrics in Australian Cities	2016	Thomson, G., Newman, P. and Newton, P.	Henry Stewart Publications	10(2), 169- 190	Journal Article	ISSN 1752-9638	Automobile dependence,

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								brownfields, greyfields, precinct redevelopment, suburban re- urbanisation, transit oriented development, urban infill, urban regeneration
RP2005	Tackling urban heat. the urban micro climates research project for Sydney, Melbourne and Adelaide	2013	No author	CRCLCL		Blog		
RP2005	Comparative analysis of surface urban heat island effect in central Sydney	2014	Sharifi, E. and Lehmann, S.	Journal of Sustainable Development,	7(3)	Journal article	doi: 10.5539/jsd.v7n3p 23	
RP2005	Local measures to mitigate the urban heat island effect in hot and humid climate: comparative case study of Sana'a, Bushehr and Dubai Marina	2014	Sharifi, E. and Lehmann, S.	International Journal of Development and Sustainability,	3(1), 38-54	Journal article		
RP2005	Retrofitting Australian precincts for heatwave resilience	2014	Hatvani-Kovacs, G.	NCCARF Conference	Gold Coast.	Presentation		
RP2005	Green urbanism and urban heat: comparative analysis of urban heat islands and green infrastructures in central Sydney at heat residence	2014	Sharifi, E., Philipp, C. and Boland, J.	7th Making Cities Liveable Conference	Kingscliff, NSW	Presentation		
RP2005	Thermal resilience and urban green infrastructures in public space: three case studies in Adelaide, South Australia	2014	Sharifi, E., Boland, J., and Lehmann, S.	7th Making Cities Liveable Conference: Book of Proceedings	Kingscliff NSW	Presentation	ISBN 978-1- 922232-15-1	
RP2005	Correlational analysis of urban greenery and urban heat island effect in central Sydney	2014	Sharifi, E., Philipp, C. and Lehmann, S	7th Making Cities Liveable Conference	Kingscliff	Presentation		
RP2005	Thermal resilience of activity patterns and urgan greenery in public space: three case studies in Adelaide, South Australia	2014	Sharifi, E., Philipp, C. and Lehmann, S	7th Making Cities Liveable Conference	Kingscliff	Paper	ISBN978-1- 922232-15-1	
RP2005	Comparative analysis of surface urban heat island effect of rooftops and streetscapes in central Sydney	2015	Sharifi, E. and Lehmann, S.	Journal of Urban and Environmental Engineering	9(1), 3-11	Journal article	http://dx.doi.org/1 0.4090/juee.2013. v9n1.3-11	Urban Heat Island effect, urban greenery ratio, public space, street network, heat stress, heat wave, mitigation, Sydney (Australia)
RP2005	The effect of architectural scale vertical surfaces on outdoor microclimate	2015	Fox, J.	3rd International Conference on Countermeasures to Urban Heat Islands	Venice, Italy	Presentation	ISBN: 978-88- 906958-2-7	Urban microclimate, building facades, ground-based remote sensing, infrared thermography
RP2005	A subambient open roof surface under the mid-summer sun	2015	Gentle, A.R. and Smith, G.B.	Advanced Science	2(9)	Journal article	Doi: 0.1002/advs.2015 00119	
RP2005	Correlation analysis of surface temperature of rooftops and streetscapes and urban heat island effect: Case study of central Sydney	2015	Sharifi, E. and Lehmann, S.	Journal of Urban and Environmental Engineering	9(1), 3-11	Journal article	DOI: 10.4090/juee.201 5.v9n1.003011	
RP2005	Can the excess heat factor indicate heatwave-related morbidity? A case study in Adelaide, South Australia	2015	Hatvani-Kovacs, G., Belusko, M., Pockett, J. and Boland, J.	Ecohealth	13(1)	Journal article	doi:0.1007/s1039 3-015-1085-5	Australia, excess heat factor, heatwave resilience, heatwave- related morbidity

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	Multi-scale analysis of the surface layer urban heat island effect in five higher density precincts of central Sydney	2015	Sharifi, E., Philipp, C. and Lehmann, S.	Routledge	In S. Lehmann (Ed.), Low Carbon Cities	Book chapter		
RP2005	Blowing hot or cool depends on where you're at	2015	Armitage, C.	The Sydney Morning Herald		Article	http://bit.ly/2mZHJ 69	
RP2005	Blowing hot or cool depends on where you're at	2015	Armitage, C.	The Australian Dairy Farmer		Article	https://bit.ly/2MM m5zL	
RP2005	Beating the heat through retrofitting	2015	Hatvani-Kovacs, G., Belusko, M., Pockett, J. and Boland, J.	Retrofit Australia Magazine		Article		
RP/UU5	Drivers and barriers to heatwave-resilient building retrofitting in the Australian context	2015	Hatvani-Kovacs, G., Belusko, M., Skinner, N., Pockett, J. and Boland, J.	49th International Conference of the Architectural Science Association	Melbourne	Paper	http://bit.ly/2nIWJs G	
RP2005	Resilience to heat in public space: a case study of Adelaide, South Australia	2015	Sharifi, E., Sivam, A. and Boland, J.	Journal of Environmental Planning and Management	59(10)	Journal article	doi: 10.1080/0964056 8.2015.1091294	Summer heatwave, heat resilience, outdoor thermal discomfort, heat stress, outdoor activities
RP2005	Retrofitting precincts for heatwave resilience-challenges and barriers in Australian context	2015	Hatvani-Kovacs, G. and Boland, J.	Challenges	6(1), 3-25	Journal article	http://dx.doi.org/1 0.3390/challe6010 003	Urban heatwave indicators, retrofitting toolkit, heatwave resilience, heatwave perception, precinct, adaptation, mitigation, adverse health outcome, Australian cities
RP2005	Thermal impact of blue infrastructure: Case study Cheonggyecheon, Seoul (Korea).	2015	Philipp, C.H., Wanous, J. and Pakzad, P.	International Conference on Urban Climate	France	Presentation		
RP2005	Mitigating the urban heat island effect with vegetation in Australian cities: a policy analysis framework	2015	Bush, J., Aye, L. and Hes, D.	State of Australian Cities Conference	Gold Coast	Paper		Green space, policy analysis, sustainability transitions, UHI
RP2005	Transforming cities towards an ecological worldview: applying sustainability transition theories and resilience thinking to urban planning	2015	Doyon, A. and Bush, J.	International Sustainable Development Research Society Conference	Geelong	Paper		Urban planning, resilience, sustainability transitions
RP2005	Creating and building partnerships	2015	Bush, J.	How to Make an Urban Forest National Masterclass, City of Melbourne and 202020 Vision	Melbourne	Presentation		Policy processes, partnership and collaboration, urban green space
RP2005	Cooling cities with green space: a policy analysis framework	2015	Bush, J., Aye, L. and Hes, D.	State of Australian Cities Conference	Gold Coast, Australia	Presentation		
	Social impact of the urban heat island effect in public spaces of Australian cities: defining thermal resilience of outdoor activity patterns and their correlations with urban structure, landscape and skin cover	2015	Sharifi, E. and Boland, J.	State of Australian Cities	Gold Coast	Paper		

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RP2005	Blowing hot or cool depends on where you're at, says urban microclimate expert	2015	Kim Arlington interview of Jonathan Fox	The Sydney Morning Herald		Article	http://bit.ly/2mZHJ 69	Outdoor comfort, microclimates
RP2005	Blowing hot or cool depends on where you're at, says urban microclimate expert	2015	Kim Arlington interview of Jonathan Fox	Eastern Riverina Chronicle		Article	https://bit.ly/2tuirl4	
RP2005	Assessment of heatwave impacts	2016	Hatvani-Kovacs, G., Belusko, M., Pockett, J. and Boland, J.	4th International Conference to Countering Urban Heat Island and Climate Change through Mitigation and Adaptation, published in Procedia Engineering	Singapore	Paper	https://www.scien cedirect.com/scie nce/article/pii/S18 77705816332428	Heatwave, electricity demand, water supply, morbidity, resilience
RP2005	Drivers and barriers to heat stress resilience	2016	Hatvani-Kovacs, G., Belusko, M., Skinner, N., Pockett, J. and Boland, J.,	Science of The Total Environment	571, 603-614	Journal article	http://dx.doi.org/1 0.1016/j.scitotenv. 2016.07.028	Heatwaves, buildings, adaptation, self- reported health problems, vulnerability
RP2005	Does the Australian nationwide house energy rating scheme ensure heat stress resistance?	2016	Hatvani-Kovacs, G., Belusko M., Pockett, J. and Boland J.	ABCB		Report	http://bit.ly/2mWn QvX	
RP2005	Building cool cities for a hot future	2016	Osmond, P. and Fox, J.	The Conversation		Article	http://bit.ly/2oaBa xJ	Climate change, cityes, heat, urban planning, urban design, rising temperatures, heat stress, urban policy, urban heat island, cities & policy, urban heat
RP2005	Building cool cities for a hot future	2016	Osmond, P. and Fox, J.	Econo - Times		Article	https://bit.ly/1WgN iu7	
RP2005	Building cool cities for a hot future	2016	Osmond, P. and Fox, J.	The Fifth Estate		Article	https://bit.ly/2tksSI J	
RP2005	Heat stress resilience	2016	Hatvani-Kovacs, G., Belusko, M., Pockett, J. and Boland, J.	Climate Adaptation Conference	Adelaide	Presentation		
RP2005	Heat stress resistant building design	2016	Hatvani-Kovacs, G., Belusko, M., Pockett, J. and Boland, J.	Climate Adaptation Conference	Adelaide	Presentation		
RP2005	Heat stress risk and resilience in the urban environment	2016	Hatvani-Kovacs, G., Belusko, M., Skinner, N., Pockett, J. and Boland, J.	Sustainable Cities and Society	26, 278–288	Journal article	https://doi.org/10. 1016/j.scs.2016.0 6.019	Heat stress resilience, heatwaves, adaptation, built environment, retrofitting, self- reported health problems
RP2005	Interview with 2SER on urban microclimates	2016	No author	2SER		Media	http://www.2ser.c om/component/k2 /item/22031-it-s- getting-hot-in-here	
RP2005	Outdoor activity and spatial choices of citizens during heat stress conditions: a case study of Adelaide, South Australia	2016	Sharifi, E., Sivam, A. and Boland, J.	50 <sup>th</sup> International Conference of the Architectural Science Association	Adelaide	Paper		Heat-stress, outdoor activity preferences, public space features, thermal comfort

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RP2005	Limits of thermal adaptation in cities: a case study of Darling Harbour, Sydney	2016	Sharifi, E. and Boland, J.	50 <sup>th</sup> International Conference of the Architectural Science Association	Adelaide	Paper		Outdoor activities, public space vitality, thermal adaptation, critical thermal threshold
RP2005	Spatial and activity preferences during heat stress conditions in Adelaide: towards increased adaptation capacity of the built environment	2016	Sharifi, E., Sivam, A. and Boland, J.	Procedia Engineering		Journal article	http://www.sbe16s ydney.be.unsw.ed u.au/Proceedings/ 33432.pdf	Heat stress, outdoor preferences, high- performance public space, thermal discomfort
RP2005	Heat resilience in public space and its applications in healthy and low carbon cities	2016	Sharifi, E. and Boland, J.	Procedia Engineering	180, 944-954	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.254	Heat resilience, low carbon cities, public space vitality, urban microclimates
RP2005	This one tool will drive the next era in business	2016	Parker, D.	In the Black		Article	http://bit.ly/2nJ31s r	
RP2005	Understanding urban microclimates key to good urban planning	2016	Prasad, D.	Sourceable		Article	http://bit.ly/2ncPcz Y	
RP2005	Overheating risk in the Australian Nationwide House Energy Rating Scheme: A case study of Adelaide	2016	Hatvani-Kovacs, G., Belusko, M., Pockett, J., and Boland, J.	50 <sup>th</sup> International Conference of the Architectural Science Association	Adelaide	Paper	https://bit.ly/2MsQ mmh	Housing, energy rating scheme, indoor overheating, heat stress
RP2005	Cool roofs and the heat island effect: the evidence is in	2016	Philipp, C.H.	The Fifth Estate		Article	http://bit.ly/2p17R 1R	
RP2005	Radio Interview – ABC's The Science Show features Urban Micro Climates project, Coping with heatwaves	2016	Hatvani-Kovacs, G.	ABC Radio		Interview	http://ab.co/2mWb LHi	
RP2005	Green roofs in Australia: review of thermal performance and associated policy development	2016	Pianella, A., Bush, J., Chen, D., Williams, N.S. and Aye, L.	Architectural Science Association 5oth Anniversary Conference	Adelaide	Paper		Green roofs, policy analysis, climate change
RP2005	Be prepared when the next heatwave sets in	2016	Hatvani-Kovacs, G., Belusko, M., Pokett, J., and Boland, J.	CRCLCL		Blog	http://www.lowcar bonlivingcrc.com. au/news/blog/201 6/02/be-prepared- when-next- heatwave-sets	
RP2005	Patterns of urban heat island effect in Adelaide: a mobile traverse experiment	2017	Sharifi, E., and Soltani, A.	Modern Applied Science	11(4), 80-90	Journal article	doi: https://doi.org/10. 5539/mas.v11n4p 80	
RP2005	Cooling cities with green space: green space policies in the transition to ecocities	2017	Bush, J., Hes, D. and Aye, L.	EcoCity 2017	Melbourne	Paper		Green space, policy analysis, sustainability transitions, UHI
RP2005	Green space policies in the transition to the ecocity: governance, multifunctionality and narrative	2017	Bush, J. and Hes, D.	EcoCity 2017	Melbourne	Paper		Green space, policy analysis, sustainability transitions
RP2005	The effect of building facades on outdoor microclimate – dependence model development using terrestrial thermography and multivariate analysis	2017	Fox, J. and DePooter, N.	Procedia Engineering – proceedings of the International		Journal article	https://doi.org/10. 1016/j.proeng.201	Urban microclimate, building facades,

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				High- Performance Built Environment Conference iHBE			7.04.295	ground-based remote sensing, infrared thermography, multivariate regression
RP2005	Sydney weather: How urbanisation creates hot microclimates in our suburbs	2017	Kim Arlington interview of Jonathan Fox	The Sydney Morning Herald		Article	http://bit.ly/2lxujhu	Outdoor comfort, microclimates
RP2005	Green space policies in the transition to the ecocity: governance, multifunctionality and narrative	2017	Bush, J. and Hes, D.	EcoCity 2017	Melbourne	Paper		Green space, policy analysis, sustainability transitions
RP2005	Landsat Surface Temperature Data Analysis for Urban Heat Resilience: Case Study of Adelaide	2017	Sharifi, E., Sivam, A., Karuppannan, S and Boland, J.	Planning Support Science for Smarter Urban Futures	24	Book chapter	https://doi.org/10. 1007/978-3-319- 57819-4_24	Urban cover, land use, urban heat island, remote sensing, urban greenery
RP2005	Heat Resilience in Public Space and Its Applications in Healthy and Low Carbon Cities	2017	Sharifi, E. and Boland, J.	Procedia Engineering	180, 944-954	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.254	Heat resilience, low carbon cities, public space vitality, urban microclimates
RP2005	Spatial and activity preferences during heat stress conditions in Adelaide: towards increased adaptation capacity of the built environment	2017	Sharifi, E., Sivam, A. and Boland, J.	Procedia Engineering	180, 955-965	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.255	Heat stress, outdoor preferences, high- performance public space, thermal discomfort
RP2005	How could sustainability transition theories support practice-based strategic planning?	2018	Bush, J., Aye, L., Hes, D. and Murfitt, P.	In Moore, de Haan, Horne and Gleeson (eds) Urban Sustainability Transitions: Australian Cases – International Perspectives	73-89	Book chapter	https://doi.org/10. 1007/978-981-10- 4792-3_5	Sustainability transitions, strategic planning, NGO, climate change
RP2005	Heat stress-resistant building design in the Australian context	2018	Hatvani-Kovacs, G., Belusko, M., Pockett, J. and Boland, J.	Energy and Buildings	158, 290-299	Journal article	https://doi.org/10. 1016/j.enbuild.201 7.10.025	Energy rating scheme, Indoor overheating, excess heat factor, adaptive comfort model, heatwaves
RP2005	Policy recommendations to increase urban heat stress resilience	2018	Hatvani-Kovacs, G., Bush, J, Sharifi, E. and Boland, J.	Urban Climate	25, 51-63	Journal article	https://doi.org/10. 1016/j.uclim.2018. 05.001	Heatwaves, urban resilience, policy, adaptation, mitigation
RP2005	Urban green space in the transition to the eco-city: policies, multi- functionality and narrative In Hes, D. and Bush, J. (Eds). Enabling eco-cities: Defining, planning and creating a thriving future	2018	Bush, J. and Hes, D.	Palgrave		Book chapter	SBN 978-981-10- 7320-5	Urban green space, nature based solutions, sustainability transitions, urban policies
RP2006	A zero carbon neighbourhood	2016	No author	Green Magazine		Article	http://bit.ly/2mZxL Ss	
RP2006	Australian government and energy retailers back community solar-plus- storage projects	2016	Deign, J.	GreenTechMedia		Article	http://bit.ly/2ni9KI W	Australia, community energy, solar-plus- storage, utility business models
RP2006	How to get the best value for money out of the coming home battery boom	2016	Green, J. and Newman, P.	The Conversation		Article	http://bit.ly/2ntqYD	Renewable energy,

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							1	solar power, batteries, electricity prices, solar panels, renewables, Tesla, Tesla energy, solar PV
RP2006	Malcolm Turnbull wants to embrace 'disruptive technology' – he can start with solar power storage	2015	Green, J., Byrne, J. and Newman, P.	The Conversation		Article	http://bit.ly/2oaCR el	Renewable energy, solar power, batteries, Malcolm Turnbull, solar panels, renewables, economic disruption, liberal leadership spill
RP2006	Disruptive innovation and affordable housing	2015		AHURI Symposium, Disruptive Innovation & Affordable Housing	Tasmania	Presentation		
RP2006	Disruptive innovation, stranded assets and forecasting: the rise and rise of renewable energy	2016	Green, J. and Newman, P.	Journal of Sustainable Finance & Investment	7(2)	Journal article	http://dx.doi.org/1 0.1080/20430795. 2016.1265410	Stranded assets, fossil fuels, disruptive innovation, renewable energy, technological innovation
RP2006	Perth gets first home powered almost totally by solar	2015	Diss, K.	ABC Online		Article	http://ab.co/1LiTC MX	
RP2006	Planning and governance for decentralised energy assets in medium-density housing: The WGV Gen Y case study	2017	Green, J. and Newman, P.	Urban Policy and Research		Journal article	http://dx.doi.org/1 0.1080/08111146. 2017.1295935	Solar, battery, common user infrastructure, microgrid, local asset management, renewable financing, precinct-scale utility
RP2005	Building code debate gets heated	2018	Sandra van Dyke	climatecontrolnews.com.au		Article	https://bit.ly/2twd4 mm	
RP2005	Air conditioning reliance driving up power prices	2018		esdnews.com.au		Article	https://bit.ly/2Ksb Tus	
RP2005	Home energy efficiency wilts in heat, claims study'	2018	Christopher Testa	Sunraysia daily		Article		
RP2005	Overreliance on air conditioning is driving up power prices in Australia	2018		phys.org		Article	https://bit.ly/2COs N6i	
RP2005	Energy rating scheme sabotaging heat stress resistance, a new study finds	2018		Architecture AU		Article	https://bit.ly/2tARk VE	
RP2005	New homes are feeling the heat'	2018		Adelaide Advertiser		Article		
RP2005	Radio interview with Dr Gertrud Hatvani-Kovacs	2018	Dave Sutherland	2SM, Sydney, Breakfast		Interview		
RP2005	Radio interview with Dr Gertrud Hatvani-Kovacs	2018	Lisa Barnes and Geof Parry	6PR, Perth, Breakfast		Interview		
RP2005	Radio interview with Dr Gertrud Hatvani-Kovacs- Calls to change building code for heat stress resistance'	2018	Linda Mottram	Radio National and 52 stations Australia wide, PM, Canberra PM and Business PM		Interview	https://ab.co/2lDfs U8	
RP2005	Radio interview with Dr Gertrud Hatvani-Kovacs- Do we need to re-think the design of modern homes in Australia to make them more heat stress-resistant?	2018	Deb Tribe	ABC Adelaide, Momings		Interview		

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RP2005	TVhome as a interview with Prof John Boland- Do we need to re-think the design of modern homes in Australia to make them more heat stress- resistant?	2018		ABC News TV National		Interview		
RP2005	Modern homes trapping heat 'like a plastic bag	2018	Malcolm Sutton	ABC Online		Article	https://ab.co/2IAD 8SW	
RP2006	Citizen utilities: The emerging power paradigm	2017	Green, J. and Newman, P.	Energy Policy	105, 283-293	Journal article	https://doi.org/10. 1016/j.enpol.2017 .02.004	Solar power, battery storage, distributed power, grid, citizen utilities
RP2007	The concept of city carbon maps: a case study of Melbourne, Australia	2015	Wiedmann, T. O., Chen, G. and Barrett, J	Journal of Industrial Ecology	20(4), 676- 691	Journal article	http://dx.doi.org/1 0.1111/jiec.12346	City carbon footprint, city carbon map, input- output analysis
RP2007	Energy and carbon performance evaluation for buildings and urban precincts: review and a new modelling concept	2015	Huang, B., Xing, K. and Pullen, S.	Journal of Cleaner Production		Journal article	http://dx.doi.org/1 0.1016/j.jclepro.20 15.12.008	Systems thinking, urban precincts, life cycle energy assessment
	Urban carbon transformations: unravelling spatial and inter-sectoral linkages for key city industries based on multi-region input-output analysis.	2016	Chen, G., Hadjikakou, M. and Wiedmann, T.	Journal of Cleaner Production.		Journal article	http://dx.doi.org/1 0.1016/j.jclepro.20 16.04.046	Multi-region input- output analysis, city carbon footprint, inter- sectoral linkage of embodied carbon
RP2007	City carbon footprint networks.	2016	Chen, G., Wiedman, T., Hadjikakou, M. and Rowley, H.	Energies	9(8), 602	Journal article	http://dx.doi.org/1 0.3390/en908060 2	City carbon map, major Australian cities, urban GHG emissions
RP2007	Transnational city carbon footprint networks – Exploring carbon links between Australian and Chinese cities.	2016	Chen, G., Wiedmann, T., Wang, Y. and Hadjikakou, M.	Applied Energy.	184, 1082- 1092	Journal article	http://dx.doi.org/1 0.1016/j.apenergy .2016.08.053	Carbon trading, city carbon footprint network, multi-region input-output modelling
RP2007	The long road to zero – embodied carbon in the built environment.	2014	Schinabeck, J. and Wiedmann, T.	The Fifth Estate		Article	http://bit.ly/2mxD6 UR	Embodied carbon emissions in the built environment, low- carbon options on different scales
RP2007	Integrated carbon metrics scoping study results	2015	Fouché, M., Crawford, R., The, S.H., Rowley, H. and Wiedmann, T.	CRCLCL		Report		Industry survey, tools for embodied carbon assessment
RP2007	Assessing embodied carbon in the Australian built environment.	2016	Schinabeck, J., Wiedmann, T. and Lundie, S.	The Fifth Estate.		Article	http://bit.ly/2niqLT 7	Embodied carbon assessment, tools for embodied carbon assessment, integrated carbon metrics
RP2007	Integrated carbon metrics: multi-scale life cycle tracking of carbon	2015	Teh, S.H.	CRCLCL annual participants' forum	Sydney	Poster		
RP2007	Project presentation	2014	Schinabeck, J.	Conference of the International Society for Industrial Ecology	Melbourne	Presentation		
RP2007	Australian construction industry's approach to embodied carbon: A scoping	2015	Fouché, M.	IELab conference	Sydney	Poster		

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	study							
RP2007	Integrated carbon metrics and assessment for the built environment	2015	Teh, S. H., Wiedmann, T., Schinabeck, J., Rowley, H. and Moore, S.	Procedia CIRP	29, 480-485	Paper	http://dx.doi.org/1 0.1016/j.procir.20 15.02.169	Embodied carbon assessment, hybrid life cycle assessment
RP2007	Hybrid LCA for construction materials	2015	Teh, S.H.	IELab Conference	Sydney	Presentation		
RP2007	Hybrid life cycle assessment for construction materials: Database and tool	2015	Teh, S. H., Wiedmann, T., Schinabeck, J., Rowley, H. and Moore, S.	ALCAS Life Cycle Assessment Conference	Melbourne	Presentation		
RP2007	The Australian construction industry's approach to embodied carbon assessment: a scoping study	2015	Fouché, M. and Crawford, R.H.	49th International Conference of the Architectural Science Association	Melbourne	Paper	http://hdl.handle.n et/11343/58740	Industry survey, tools for embodied carbon assessment
RP2007	Precinct system energy case studies	2016	Huang B., Xing K. and Pullen S.	International High-Performance Built Environment Conference	Sydney	Poster		
RP2007	Replacement scenarios for construction materials based on economy-wide hybrid LCA	2016	Teh, S.H.	CRCLCL annual participants' forum	Sydney	Poster		
RP2007	Carbon footprint of cities	2016	Chen, G.	CRCLCL annual participants' forum	Sydney	Poster		
RP2007	Life-cycle energy modelling for urban precinct systems	2017	Huang, B., Xing, K. and Pullen, S.	Journal of Cleaner Production	142(4), 3254- 3268	Journal article	http://dx.doi.org/1 0.1016/j.jclepro.20 16.10.144	Precinct-scale life cycle model, life cycle energy assessment, case study
RP2007	Cost and embodied carbon reductions in cutter soil mix walls through fibre reinforcement	2017	Russell, A.R., Chapman, M., Teh, S.H. and Wiedmann, T.	Geosynthetics International		Journal article	DOI: http://dx.doi.org/1 0.1680/jgein.17.0 0001	Geosynthetics fibres cutter soil mix wall cost carbon
RP2007	Hybrid life cycle assessment of greenhouse gas emissions from cement, concrete and geopolymer concrete in Australia	2017	Teh, S H., Wiedmann, T., Castel, A. and de Burgh, J.	Journal of Cleaner Production	152, 312-320	Journal article	http://dx.doi.org/1 0.1016/j.jclepro.20 17.03.122	Concrete, geopolymer concrete, carbon footprint, life cycle greenhouse gas emissions, hybrid Ica, input-output analysis
RP2007	The "forgotten" greenhouse gas emissions of our built environment will be a hard nut to crack	2017	Wiedmann, T., Crawford, R., Yu, M., Schinabeck, J. and The, S.H.	The Fifth Estate		Article	http://bit.ly/2rRsE Xv	Built environment, carbon emissions, net zero
RP2007	Integrated carbon metrics - a multi-scale lifecycle approach for the built environment	2018		CRCLCL		Factsheet		
RP2007	Urban carbon transformations: unravelling spatial and inter-sectoral linkages for key city industries based on multi-region input-output analysis	2017	Chen, G., Hadjikakou, M. and Wiedmann, T.	Journal of Cleaner Production	163, 224-240	Journal article	http://dx.doi.org/1 0.1016/j.jclepro.20 16.04.046	Multi-region input- output analysis, city carbon footprint, inter- sectoral linkage of embodied carbon
RP2007	Replacement scenarios for construction materials based on economy-wide hybrid LCA.	2017	Teh, S. H., Wiedmann, T., Schinabeck, J. and Moore, S.	Procedia Engineering	180, 179-189	Paper	https://doi.org/10. 1016/j.proeng.201 7.04.177	Embodied carbon emissions, construction materials, timber, concrete
RP2007	Towards an integrated approach for evaluating both the life cycle environmental and financial performance of a building: A review.	2017	Fouché, M. and Crawford R.	Procedia Engineering	180, 118-127	Paper	https://doi.org/10. 1016/j.proeng.201	Life cycle assessment, life cycle costing

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							7.04.171	
RP2007	Assembling a mixed-unit input-output model for Australian construction materials	2017	Teh, S.H. and Wiedmann, T.	ISIE/ISSST Joint Conference	Chicago, USA	Presentation		Mixed-unit hybrid LCA, construction materials, recycling
RP2007	Applying a mixed-unit hybrid LCA framework to the recycling of construction materials	2017	Teh, S.H.	CRCLCL annual participants' forum	Melbourne	Poster		Mixed-unit hybrid LCA, construction materials, recycling
RP2007	Expanding a global MRIO for city footprint analysis	2017	Wiedmann, T., Lenzen, M., Owen, A., Chen, G., Többen, J., Wang, Y., Faturay, F. and Wilting, H.	25th International Input-Output Conference of the International Input-Output Association	Atlantic City, USA	Presentation	https://www.iioa.or g/conferences/25t h/papers.html	City carbon footprint, input-output analysis
RP2007	Material flow analysis of concrete and concrete waste in Australia	2017	Teh, S.H., Moore, S. and Wiedmann, T	4th International Conference on Final Sinks	Kyoto, Japan	Presentation		Material flow analysis, concrete, concrete waste
RP2007	Applying a mixed-unit hybrid LCA framework to the recycling of construction materials	2017	Teh, S.H. and Wiedmann, T.	2nd Industrial Ecology Virtual Laboratory Conference in conjunction with ALCAS Symposium	Brisbane	Presentation		Mixed-unit hybrid LCA, construction materials, recycling
RP2007	Global warming impact of suburbanization: The case of Sydney	2018	Chen, G., Hadjikakou, M., Wiedmann, T. and Shi, L.	Journal of Cleaner Production	172, 287-301	Journal article	https://doi.org/10. 1016/ j.jclepro.2017.10.1 61	suburbanization, carbon footprint, EIO- LCA, city carbon map, multi-region input- output modelling
RP2007	The Australian industrial ecology virtual laboratory and multi-scale assessment of buildings and construction	2018	Baynes, T. M., Crawford, R. H., Schinabeck, J., Bontinck, PA., Stephan, A., Wiedmann, T., Lenzen, M., Kenway, S., Yu, M., Teh, S. H., Lane, J., Geschke, A., Fry, J. and Chen, G.	Energy and Buildings	164, 14-20	Journal article	<u>http://dx.doi.org/1 0.1016/j.enbuild.2</u> 017.12.056	Input-output analysis, embodied energy, embodied emissions, environmental footprint, low-impact buildings, building component
RP2007	Carbon assessment for urban precincts: Integrated model and case studies	2017	Huang, B., Xing, K.,and Pullen, S.	Energy and Buildings	153, 111-125	Journal article	https://doi.org/10. 1016/j.enbuild.201 7.07.087	Life-cycle emissions, inter-building effects, precinct integrated modelling, carbon offsetting
RP2007	Mixed-unit hybrid life cycle assessment applied to the recycling of construction materials	2018	Teh, S.H., Wiedmann, T. and Moore, S.	Journal of Economic Structures	7(1), 13	Journal article	https://doi.org/10. 1186/s40008-018- 0112-4	Hybrid LCA, material flow analysis, mixed- unit input-output model, concrete, steel, recycling, recycled concrete aggregate
RP2007	Decomposition of integrated hybrid life cycle inventories by origin and final- stage inputs	In prep.	Teh, S.H., Wiedmann, T.	Journal of Economic Structures		Journal article		Decomposition, total impact multipliers, life cycle inventories, hybrid life cycle assessment, integrated hybrid LCA, mixed-unit hybrid LCA, concrete

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RP2007	A framework for the integrated optimisation of the life cycle greenhouse gas emissions and cost of buildings	2018	Fouché, M. and Crawford, R.H.	Energy and Buildings	171, 155-167	Journal article	https://doi.org/10. 1016/j.enbuild.201 8.04.018	Life cycle assessment, life cycle cost, greenhouse gas emissions, buildings
RP2008	Sub Project: Community Engagement Regarding Biosolids	2014	Hayes, J.	UNSW		Report		
RP2008	Sub Project: Odour in Biosolids Processing Strategies	2014	Fisher, R.	UNSW		Report		
RP2008	The impact of malodour on communities: a review of assessment techniques	2014	Hayes, J.E., Stevenson, R.J. and Stuetz, R.M.	Science of the Total Environment	500-501, 395-407	Journal article	http://dx.doi.org/1 0.1016/j.scitotenv. 2014.09.003	Odour measurement, community, sensory analysis, dose– response, survey
RP2008	Biosolids odour and carbon intensity	2015	Stuetz, R. and Alvarez-Gaitan J.P.	UNSW		Report		
RP2008	The impact of malodour on communities: a review of assessment techniques	2015	Hayes, J.	CRCLCL		Factsheet		
RP2008	Stage 2 proposal. Optimisation runs to maximise biogas production and solids content in biosolids processing operations in an odour-constrained world	2015	Alvarez-Gaitan J.P. and Fisher, R.	UNSW		Report		
RP2008	Narrative for the CRC Low Carbon and other collaborative efforts on Cronulla for media engagement	2015	Alvarez-Gaitan J.P.	UNSW		Report		
RP2008	Biosolids and community engagement	2015	Hayes, J.	Sydney Water		Factsheet		
RP2008	Energy usage and generation benchmarking in biosolids operations	2015	Alvarez-Gaitan J.P.	Sydney Water		Factsheet		
RP2008	Cronulla biosolids: towards world-class performance	2015	Alvarez-Gaitan J.P., Aurisch, R. and Van Rys, D.	Sydney Water		Factsheet		
RP2008	Odour Monitoring. Evaluating online sensor performance	2015	Vitanage, D., Fisher, R., Alvarez-Gaitan J.P.and Hayes, J.	Sydney Water		Factsheet		
RP2008	Odour minimisation in biosolids	2015	Fisher, R.	Sydney Water		Factsheet		
RP2008	Optimisation and monitoring trials at Cronulla	2015	Fisher, R., Alvarez-Gaitan J.P. and McTaggart, M.	Sydney Water		Factsheet		
RP2008	Cronulla biosolids: odour response frameworks	2015	Fisher, R., Alvarez-Gaitan J.P., Aurish, R., and Van Rhys, D.	Sydney Water		Factsheet		
RP2008	Biosolids Research Program. CRC for Low Carbon Living July 2015	2015	Vitanage, D., Fisher, R., Alvarez-Gaitan J.P. and Hayes, J.	Sydney Water		Factsheet		
RP2008	Energy and process benchmarking of sludge processing lines using different wastewater treatment configurations [draft]	2016	Alvarez-Gaitan J.P. and Short, M.	CRCLCL		Report		
RP2008	Cronulla optimisation runs. Results, communication and implementation plan [draft]	2016	Alvarez-Gaitan J.P.	CRCLCL		Report		
RP2008	Towards a comprehensive greenhouse gas emission inventory for biosolids	2016	Alvarez-Gaitan J.P., Short, M.D., Lundie, S. and Stuetz, R.M.	Water Research	96, 299-307	Journal article	http://dx.doi.org/1 0.1016/j.watres.20 16.03.059	Sludge and biosolids treatment, anaerobic digestion, life cycle inventory, life cycle assessment, beneficial biosolids reuse
RP2008	Community survey for environmental malodour	2016	Hayes, J.	CRCLCL		Factsheet		
RP2008	Updated strategies for complaint management	2016	Hayes, J.	CRCLCL		Factsheet		
RP2008	Online dynamic engagement for communities	2016	Hayes, J. and Aurisch, R.	CRCLCL		Factsheet		
RP2008	Outcomes. CRC for LCL beneficial reuse of biosolids	2017	Vitanage, D., Stuetz, R. and Alvarez-	Sydney Water		Factsheet		

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			Gaitan J.P.					
RP2008	Sulfur flows and biosolids processing: Using Material Flux Analysis (MFA) principles at wastewater treatment plants	2017	Fisher, R.M., Alvarez-Gaitan, J.P., Stuetz, R.M. and Moore, S.J.	Journal of Environmental Management	198, 153-162	Journal article	https://doi.org/10. 1016/j.jenvman.20 17.04.056	Sulfur, material flux analysis, biosolids, wastewater treatment, land application
RP2008	Distribution and sensorial relevance of volatile organic compounds emitted throughout wastewater biosolids processing	2017	Fisher, R.M., Le-Minh, N., Sivret, E.C., Alvarez-Gaitan, J.P., Moore, S.J. and Stuetz, R.M.	Science of the Total Environment	599-600, 663-670	Journal article	https://doi.org/10. 1016/j.scitotenv.2 017.04.129	Odour, wastewater treatment, nuisance impact, sludge
RP2008	Unrepresented community odour impact: Improving engagement strategies.	2017	Hayes, J.E., Fisher, R.M., Stevenson, R.J. Mannebeck, C. and Stuetz, R.M.	Science of the Total Environment	609,1650- 1658	Journal article	DOI: 10.1016/j.scitoten v.2017.08.013	Biosolids, community engagement, GC– MS/O, odour wheel, olfactory sensitivity, online engagement
RP2008	Cronulla optimisation runs. Results, communication and implementation plan [draft]	2016	Alvarez-Gaitan J.P.	CRCLCL		Report		
RP2009	Research synthesis report: a research agenda for low carbon mobility	2014	Philp, M. and Taylor, M.A.P.	CRCLCL		Report		
RP2009	Editorial: Special issue on low carbon mobility	2015	Taylor, M.A.P.	International Journal of Sustainable Transportation	11(1), 1-2	Journal article	DOI: 10.1080/1556831 8.2015.1106263	
RP2009	Dense, mixed-use, walkable urban precinct to support sustainable transport or vice versa? A model for consideration from Perth, Western Australia	2016	Hendrigan, C. and Newman, P.	International Journal of Sustainable Transportation	11(1), 11-19	Journal article	DOI: 10.1080/1556831 8.2015.1106225	Transit oriented development, urban land and transportation modelling
RP2009	Assessing greenhouse gas emissions from electric vehicle operation in Australia using temporal vehicle charging and electricity emission characteristics	2015	Mills, G. and MacGill, I.	International Journal of Sustainable Transportation	11(1), 20-30	Journal article	DOI: 10.1080/1556831 8.2015.1106243	Australia, electric vehicle, GHG emissions, Sydney, smart grid, transport- electricity integration
RP2009	Low carbon transport strategy in Europe: A critical review	2015	Emberger, G.	International Journal of Sustainable Transportation	11(1), 31-35	Journal article	DOI: 10.1080/1556831 8.2015.1106246	Analysis, EU transport policy, low carbon strategy, sustainability
RP2009	Research agenda for low-carbon mobility: Issues for New World cities	2015	Philp, M. and Taylor, M.A.P.	International Journal of Sustainable Transportation	11(1), 49-58	Journal article	DOI: 10.1080/1556831 8.2015.1106261	Carbon emissions, car- dependent city, land use-transport integration, low carbon mobility, urban design
RP2010	ISCA 'Infrastructure Sustainability' rating tool and low carbon tendering	2014	Hargroves, K.	CRCLCL		Report		
RP2010	A roadmap for carbon structural adjustment' in the built environment sector	2015	No author	A Sustainable Built Environment National Research Centre		Report	http://bit.ly/2nJgF Mi	
RP2010	A methodology for staging low carbon inclusions	2015	No author	CRCLCL		Method		
RP2010	Low Carbon Inclusions in Commonwealth and NSW Government Built Environment Sector Procurement	2015	Hargroves, K.	CRCLCL		Report		
RP2010	Investigation of the feasibility of key options for reducing the carbon intensity of land development supply chains in NSW. Academic literature review.	2016	No author	CRCLCL		Report		
RP2010	Low carbon inclusions in transport and road agencies procurement policies	2016	Hargroves, K., and Grant, G.	CRCLCL		Report		
RP2010	Investigating the 'low carbon readiness' of built environment supply chain	2016	No author	CRCLCL		Report		

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RP2010	Work plan	2016	No author	CRCLCL		Report		
RP2010	Recommended low carbon inclusions for pilot	2016	No author	CRCLCL		Report		
RP2010	Findings from stakeholder survey on low carbon readiness	2016	No author	CRCLCL		Report		
RP2011	Do energy rating tools support high performance design?	2016	Prasad, D.	Sourceable		Article	http://bit.ly/2mZLO HH	
RP2011	Low carbon precinct assessment	2014	Newton, P., Plume, J., Wiedmann, T., Ngo, T., Taylor, M. and Sproul, A.	CRC LCL Annual Forum	Sydney	Presentation		
RP2011	Modelling Urban Precincts for Sustainability – a Smart City	2015	Mitchell, J.	BIM Symposium	Shanghai	Presentation		
RP2011	Information modelling at a precinct scale to manage the carbon load of the built environment	2015	Plume, J.	BIM World	Paris	Presentation		
RP2011	Information modelling at a precinct scale to manage the carbon load of the built environment	2015	Plume, J.	Locate 15	Brisbane	Presentation		
RP2011	Information modelling at a precinct scale to manage the carbon load of the built environment	2015	Plume, J.	buildingSMART International Summit	London	Presentation		
RP2011	Information modelling standards: straightjacket or platform for innovation	2016	Plume J., Mitchell J., Marchant D. and Newhouse, O.	Smart Cities Workshop – UNSW	Sydney	Presentation		
RP2011	Information modelling at a precinct scale to manage the carbon load in the built environment	2016	Plume, J.	CRC LCL Industry Network Meeting	Sydney	Presentation		
RP2011	Data Interoperability: from BIM to PIM for smarter urban management	2016	Plume, J.	Urban Growth – Green Square Meeting	Sydney	Presentation		
RP2011	Proposal for an open data model schema for precinct-scale information management	2016	Plume J., Marchant D., Mitchell J. and Newhouse, O.	International High- Performance Built Environment Conference – A Sustainable Built Environment Conference	Sydney	Paper		
RP2011	Including stakeholder intent in precinct information models	2016	Marchant D. and Plume J.	International High- Performance Built Environment Conference – A Sustainable Built Environment Conference	Sydney	Paper		
RP2011	Precinct information modelling: A new digital platform for integrated design, assessment and management of the built environment. In A. X. Sanchez, K. D. Hampson and G. London (Eds) Integrating Information across the Built Environment Industry	2017	Newton, P., Plume, J., Marchant, D., Mitchell, J. and Ngo, T.	Routledge		Book chapter	ISBN: 9781315201863	
RP2011	Precinct Information Modelling – Technical Investigation: Land Use and Development Types	2016	Mitchell J., Marchant D. and Plume J.	CRCLCL	Sydney	Report		
RP2011	Precinct Information Modelling – Technical Investigation: PIM Prototype Tools,	2016	Marchant D., Mitchell J. and Plume J.	CRCLCL	Sydney	Report		
RP2011	Precinct Information Modelling – Technical Investigation: Precinct Information Schema	2016	Marchant D., Plume J. and Mitchell J.	CRCLCL	Sydney	Report		
RP2011	Precinct Information Modelling – Technical Investigation: Precinct Object Library Implementation Types	2016	Mitchell J., Marchant D. and Plume J.	CRCLCL	Sydney	Report		
RP2011	<ul> <li>Precinct Information Modelling – Collaboration Reports:</li> <li>Empowering Broadway</li> <li>Energy, Transport, Waste and Water Demand Forecasting and Scenario Planning for Precinct Projects</li> <li>Integrated Carbon Metrics Project</li> </ul>	2016	Plume J., Mitchell J. and Marchant D.	CRCLCL	Sydney	Report		

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	Microclimate and Urban Heat Island Decision-Support Tool (RP2023)							
RP2011	IFC Standard: proposed spatial structure extensions for infrastructure and precincts, buildingSMART International, AS ISO 16739:2013 Industry Foundation Classes (IFC) for data sharing in the construction and facility management industries.	2016	Plume, J.		London	Standard		
	Broadway Precinct Model, populated with base data to support project RP2018 Empowering Broadway.	2016	Mitchell, J.	CRCLCL	Sydney	Model		
	Tonsley Precinct Model, based on the Tonsley masterplan and the main assembly building BIM.	2015	Marchant D., Mitchell J. and Plume J.	CRCLCL	Sydney	Model		
RP2011	The PIM/ICM app provides two main functions: import, render and explore geospatial data in common formats at multiple scales, such as Shapefiles, GeoJSON, KMZ and IFC, perform analysis of the features of the imported data.	2015	Ngo, T., Lade, O. and Lim, B.	CRCLCL	Melbourne	Software tool		
	PIM Converter: software tool that converts GIS Shapefiles into IFC PIM format, applied mainly to implement the base model of the Broadway precinct.	2015	Ngo, T., Lade, O. and Lim, B.	CRCLCL	Melbourne	Software tool		
RP2011	ETWW Precinct Model, demonstrator that holds the common data for the Energy, Transport, Water & Waste Demand Forecasting Tool (RP2002).	2016	Marchant, D.	CRCLCL	Sydney	Software tool		
	PIM Add-In for Revit: embedded functionality in a commercial BIM authoring tool to support precinct land use & development type modelling, demonstrating linking to the buildingSMART Data Dictionary (bsDD).	2016	Marchant, D.	CRCLCL	Sydney	Software tool		
RP2011	PIM Add-In for ArchiCAD: embedded functionality in a commercial BIM authoring tool to support precinct land use & development type modelling, demonstrating linking to an external data source for property type definitions and values.	2016	Mitchell, J.	CRCLCL	Sydney	Software Tool		
RP2011	Precinct Information Modelling: Project Progress Report	2017	Plume, J., Mitchell, J. and Marchant, D.	CRCLCL	Sydney	Report		
RP2011	PIM Viewer (precinct model navigator, viewer and data linkage) – on-going development	2017	Marchant, D.	CRCLCL	Sydney	Software tool		
RP2011	Precinct information modelling. Position paper	2017	Plume, J., Mitchell, J., Marchant, D. and Newton, P.	CRCLCL	Sydney	Report		Precinct information modelling, interoperability, information modelling, open exchange standards
RP2011	Precinct information modelling. Outcomes report.	2017	Plume, J., Mitchell, J. and Marchant, D	CRCLCL	Sydney	Report		PIM, precinct information modelling, information exchange standards, precinct
RP2014	Mainstreaming green infrastructure elements into the design of public road reserves: challenges for road authorities	2016	Black, J. Tara, K. and Pakzad, P.	International Journal of Environmental Protection	6(1)	Journal article		
RP2014	A conceptual framework for assessing green infrastructure sustainability performance	2015	Pakzad, P. and Osmond, P.	State of Australian City conference	Gold Coast	Paper	ISBN: 978-1- 925455-03-8	
RP2014	Developing a sustainability indicator set for measuring green infrastructure performance	2016	Pakzad, P. and Osmond, P.	Procedia - Social and Behavioral Sciences	216, 68-79	Journal article	https://doi.org/10. 1016/j.sbspro.201 5.12.009	Sustainable development, green infrastructure, urban ecosystem,

#	Title	Date	Authors	Journal / proceedings / publisher	No., vol, location etc	Туре	ISSN, DOI, ISBN etc	Keywords
								sustainability indicators, conceptual framework
RP2014	Review of tools for quantifying the contribution of green infrastructure to carbon performance	2015	Pakzad, P., Osmond, P. and Philipp, C.	9th International Conference on Urban Climate	Toulouse, France	Paper		
RP2014	Thermal impact of blue infrastructure: Case study Cheonggyecheon, Seoul	2015	Philipp, C., Wannous, J. and Pakzad, P.	9th International Conference on Urban Climate	Toulouse, France	Paper	DOI: 10.13140/RG.2.1. 4440.2643	
RP2014	Towards planning an eco-city: A conceptual framework for assessing green infrastructure sustainability performance in Australia	2015		State of Australian Cities conference	Gold Coast	Paper		
RP2014	Assessment of the microclimatic impacts of urban green infrastructure based on local climate zone classification	2017	Pakzad, P., Osmond, P. and Philipp, C.	Green Infrastructure. Nature based solutions for sustainable and resilient cities conference.	Orvieto, Italy	Paper		
RP2014	Developing key sustainability indicators for assessing green infrastructure performance	2017	Pakzad, P., Osmond, P. and Corkery, L.	Procedia Engineering	180, 146-156	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.174	Green infrastructure, sustainable development, performance indicators, ecosystem services, human health, ecosystem health
RP2014	How sustainable is your green infrastructure?	2017	Pakzad, P.	CRCLCL		Factsheet		
RP2015	Carbon Reductions and Co-benefits: Final Report – Part I, Literature and practice review of Australian policies relating urban planning and public health	2015	Philp, M., Taylor, M.A.P. and Thompson, S.	CRCLCL		Report		
RP2015	Carbon Reductions and Co-benefits: Final Report – Part II An analysis of current levels of active transport usage in Australia - towards a measure of baseline activity	2015	Taylor, M.A.P. and Thompson, S.	CRCLCL		Report		
RP2015	Active transport: policy directions for creating built environments that support health and wellbeing.	2017	Thompson, S.M. and Taylor, M.A.P.	IET Books	In Dia, H (ed), Low carbon mobility for future cities: principles and applications.	Book chapter	ISBN: 9781785611971	Environmental economics, public transport
RP2015	An analysis of active transport in Melbourne: baseline activity for assessment of low carbon mobility interventions.	In review	Taylor, M.A.P. and Thompson, S.M.	Urban Policy and Research.		Journal article		
RP2015	Walking access to public transport in Melbourne – a potential contribution to public health	In prep.	Taylor, M.A.P. and Thompson, S.M.			Journal article		
RP2016	Assessing the impact of solar PV on domestic electricity consumption in Sydney: exploring the prospect of rebound effects – RP2016 Final Report	2016	Deng, G. and Newtown, P.	CRCLCL		Report		
RP2016	Assessing the impact of solar PV on domestic electricity consumption: exploring the prospect of rebound effects, Report prepared for steering committee meeting.	2015	Deng, G. and Newtown, P.	CRCLCL		Report		
RP2016	Assessing the impact of solar PV on domestic electricity consumption in Sydney: exploring the prospect of rebound effects	2016	Deng, G. and Newtown, P.	Inverness IV23LP	Scotland	Presentation		

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RP2017	Energy–health benchmarking: A new tool in the pursuit of fit-for-purpose water recycling	2015	Short, M.D.	RecycleWater – National Water Recycling & Reuse Technology conference	Melbourne,	Presentation		
RP2017	Einfluss der wassernutzung auf die auslastung und den energieverbrauch bei der abwasserwiederverwendung (Impact of water demand on energy consumption during wastewater reuse)	2015	Krampe, J., Short, M.D., Regel, R., van den Akker, B. and Saint, C.	Proceedings of: Aachen Conference on Water Technology	Aachen	Paper	ISBN: 978-3- 95886-056-8	
RP2017	Energy benchmarking for efficient, low-carbon water recycling operations	2015	Clos, I.	CRCLCL Participants Forum	Sydney	Poster		
RP2017	Benchmarking the energy-health nexus for more efficient water recycling operations	2015	Short, M.D., van den Akker, B. and Regel, R.	Water	42(3): 68-74	Journal article		
RP2017	Energy benchmarking for efficient, low-carbon water recycling operations	2016	Clos, I.	CRCLCL Participants Forum	Sydney	Poster		
RP2017	Aerobic granular sludge for energy efficient wastewater treatment and reuse	2016	Thwaites, B.	CRCLCL Participants Forum	Sydney	Poster		
RP2017	Comparison of an anaerobic feed and split anaerobic–aerobic feed on granular sludge development, performance and ecology	2016	Thwaites, B.J., Reeve, P., Dinesh, N., Short, M.D. and van den Akker, B.	Chemosphere	172: 408:417	Journal article	DOI: 10.1016/j.chemos phere.2016.12.13 3	
RP2017	Comparison of microbial log performance of granular and activated sludge: Impacts on wastewater reuse	2017	Thwaites, B.J., Reeve, P., Dinesh, N., Short, M.D. Alvarez-Gaitan, J.P., van den Akker, B., and Stuetz, R.	10th International Conference on Biofilm Reactors, International Water Association (IWA)	Dublin, Ireland	Presentation		
RP2017	Ecology and performance of aerobic granular sludge treating high-saline municipal wastewater	2017	Thwaites, B.J., Reeve, P., Dinesh, N., Short, M.D. Alvarez-Gaitan, J.P., van den Akker, B., and Stuetz, R.	10th International Conference on Biofilm Reactors, International Water Association (IWA)	Dublin, Ireland	Presentation		
RP2017	Ecology and performance of aerobic granular sludge treating high-saline municipal wastewater	2017	Thwaites, B.J., van den Akker, B., Reeve, P., Short, M.D., Dinesh, N., Alvarez- Gaitan, J.P. and Stuetz, R.	Water Science & Technology	2	Journal article	doi: 10.2166/wst.2017. 626	Aerobic granular sludge, high-saline municipal wastewater treatment, microbial ecology, sulfide ecology
RP2017	Reducing the energy intensity and carbon emissions of wastewater treatment	2017		CRCLCL		Factsheet		
RP2018	Energy efficiency in advanced wastewater treatment: understanding the genesis and evolution of European energy benchmarking	In review	Clos, I., Krampeb, J., Alvarez-Gaitan, J.P., Saint, C.P. and Short, M.D.	Critical Reviews in Environmental Science and Technology		Journal article		WWTP, benchmarking, energy efficiency, energy saving measures, process level optimisation
RP2018	HotHouse: on collaboration as key to better neighbourhoods	2015	Wallace, P.	The Fifth Estate		Article	http://bit.ly/2mxwl go	
RP2018	Empowering Broadway. Phase 1 research report	2016	Swinbourne, R., Hilson, D. and Yeomans, W.	CRCLCL		Report		
RP2018	Driving low carbon transitions at a precinct scale. Case study: Sydney's Broadway precinct	2017		CRCLCL		Case study		
RP2019	Interview with Dr Vivienne Waller, project leader, enabling carbon reductions through composting food waste for growing	2015	No author	774 ABC		Report		
RP2019	Resident engagement with onsite composting in apartment blocks in the city of Melbourne	2016	Christie, B. and Waller, V.	CRCLCL		Report		
	Municipal composting schemes: International case studies.	2016	Altman, V.	CRCLCL		Report		
RP2019	Swinburne steps closer to a sustainable future	2016	No author	Swinburne University		Blog	http://bit.ly/2ntGS	

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RP2019	City of Melbourne: Staff engagement with on-site office composting	2018	Christie, B. and Waller, V.	CRCLCL		Report		
RP2019	City of Port Phillip: Staff engagement with on-site office composting	2018	Christie, B. and Waller, V.	CRCLCL		Report		
RP2019	Transforming food 'waste' into compost: reducing GHGs, landfill and fertilizers	2018		CRCLCL		Factsheet		
RP2021	Low carbon mobility for future cities: principles and applications	2017	Dia, H. (ed)	IET Digital Library		Book	ISBN: 978-1- 78561-197-1	
RP2023	Urban heat island and overheating characteristics in Sydney, Australia. an analysis of multiyear measurements	2017	Santamouris, M. et al.	Sustainability	9(5), 712	Journal article	10.3390/su90507 12	Urban heat island, coastal cities, Sydney, Australia
RP2023	Cooling our cities: a decision support tool for reducing urban heat	2017		CRCLCL		Factsheet		
RP2024	Guide to urban cooling strategies	2017	Osmond, P. and Sharifi, E.	CRCLCL		Book	https://bit.ly/2tliNL H	
RP2028	Carbon reductions and co-benefits: Report on benefits of adopting a co- benefits framework in the Australian local government context	2016	Karim, S.M, Thompson, S. and Williams, P.	CRCLCL		Report		Carbon, local government, planning, health
RP2028	Scoping Document outlining the development of the Low Carbon Living calculator	2016	Thompson, J., Stevenson, M., Giles-Corti, B., Newton, P., Thompson, S. and Sarvi, M.	CRCLCL		Report		Carbon, urban design, planning
RP3001	Household energy use: consumption and expenditure patterns 1993 - 2012	2015	Burke, T. and Ralston, L.	CRCLCL		Report		
RP3001	The Australian household, material consumption and the low carbon society	2015	Burke, T. and Ralston, L.	CRCLCL		Report		
RP3002	Modelling the adoption of energy efficient retrofits by mid-tier commercial buildings	2015	Marquez, L., McGregor, J., Seo, S., Walton, A., Moglia, M., Higgins, A. and Gardner, J.	MODSIM2015	Gold Coast, Queensland	Presentation		
RP3002	Forecasting uptake of retrofit packages in office building stock under government incentives	2014	Higgins A., Syme M., McGregor J., Marques L. and Seongwon, S.	Energy Policy	65, 501-511	Journal article	http://dx.doi.org/1 0.1016/j.enpol.20 13.10.041	Office buildings, energy efficiency, diffusion model, incentives, retrofit
RP3002	Understanding influence networks using an agent-based model of technology adoption for commercial building retrofits	2013	Marquez, L., Higgins, A., Syme, M., McGregor, J., and Seo, S.	International Symposium on Operational Research and Applications	Marrakesh, Morocco	Presentation		
RP3003	A low carbon living spatial data hub	2013	Taeihagh, A. and Randolph, B.	CRCLCL		Report		
RP3004	Deliberative democracy/participatory sustainability for low carbon living: scoping study	2015	Hartz-Karp, J., Gollagher, M. and Petrova, S.	CRCLCL		Report		
	CRC living laboratories framework: final report	2013	No author	CRCLCL		Report		014
RP3005 RP3006	Collaborative research in the real world: review of living laboratories Education for low carbon living final report	2013 2013	Salter, R. and White, S. Winfree, T., Podkalicka, A. and Hargroves, C.	CRCLCL CRCLCL		Report Report		Citizen utilities
RP3007	Community renewable energy in Australia: exploring its character and emergence as a social movement in the context of climate action	2016	Mey, F. and Hicks, J.	People, Place and Policy		Journal article		
RP3007	Community renewable energy at a crossroads. A think piece on degrowth, technology, and the democratization of the German energy system	2017	Rommel, J., Radtke, J., Jorck, G. von, Mey, F., and Yildiz, Ö.	Journal of Cleaner Production		Journal article	http://dx.doi.org/1 0.1016/j.jclepro.20 16.11.114	Cooperatives, energy transition, conviviality, sustainable consumption
RP3007	Can local government play a greater role for community renewable energy? A case study from Australia.	2016	Mey, F., Diesendorf, M. and MacGill, I.	Energy Research and Social Science	21, 33–43	Journal article	https://doi.org/10. 1016/j.erss.2016. 06.019	Local government, Renewable energy, community renewable energy

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RP3007	Bürgerenergie in Australien. neuer hoffnungsträger trotz mangelnder politischer unterstueztung	2017	Mey, F.	Springer VS	In: Handbook on Energy Transition and Participation	Book chapter		
RP3007	Energiegenossenschaften das erfolgsmodell braucht neue dynamik	2015	Müller, J.R., Domiok, D., Flieger, B., Holstenkamp, L., Mey, F. and Radtke, J.	Gaia	24 (2), 96– 101	Journal article	DOI: 10.14512/gaia.24. 2.7	
RP3007	Communities can lead the way in a fair and clean energy transition	2017	Mey, F. and Smiles, J.	ecogeneration online		Article	http://bit.ly/2mWg Orf	
RP3007	Community energy steps up decarbonising at the local level	2016	Hicks, J. and Mey, F.	Renew Magazine	136, 60–63	Article		
RP3007	Power to the people: how communities can help meet our renewable energy goals	2016	MacGill, I. and Mey, F.	The Conversation		Article	http://bit.ly/2oaP2 YW	
RP3007	Community renewable energy in Australia: exploring its character and emergence in the context of climate change action	2015	Mey, F. and Hicks, J.	5th EMES International Research Conference on Social Enterprise	Helsinki	Paper		
RP3007	Community renewable energy – how to guide	2013	Hicks, J., Ison, N., Gilding, J. and Mey, F.	Community Power Agency and Backroad Connections		Guide	http://bit.ly/2nJhO Dj	
RP3007	A construction market report for Australia and New Zealand	2012	Mey, F.	Renewable Energy in the Age of Climate Targets and Carbon Tax. BCI Australia Publication		Article		
RP3007	Research posters	2013- 2016	Mey, F.	CRCLCL Forum	Sydney	Poster		
RP3007	Citizen utilities: the future of solar?	2016	Nerman, P.	ABC Radio national, The Science Show		Article	https://ab.co/2JZS 7dF	Battery storage
RP3007	The role of institutional factors in community renewable energy development: A three country comparison	2016	Mey, F.	CRCLCL Forum	Sydney	Poster		
RP3007	Who owns an energy transition? Strategic action fields and community wind energy in Denmark	In review	Mey, F. and Diesendorf, M.	Energy Research & Social Science		Journal article		Community wind energy, Denmark
RP3008	Sustainable urban transitions	2013	Twomey, P.	Proceedings of Society of Heterodox Economists Annual Conference	Sydney	Presentation		
RP3008	Future finance and business: potential for disruptive contributions to urban decarbonisation and resilience	2015	Gaziulusoy, A.I., Twomey, P., Wiseman, J. and Ryan, P.	CRCLCL		Report	http://bit.ly/2mWy 2F1	
RP3008	Visions and pathways for low- to zero-carbon urban living - Australia 2050	2013	Twomey, P. and Ryan, C.	CRCLCL		Report		
RP3008	CRCLCL and VEIL in visions for low-carbon resilient futures	2014	Gaziulusoy, A.I.	The Fifth Estate		Article	http://bit.ly/2nX4tV c	
RP3008	A review of roadmaps for transitioning to a zero carbon built environment in Australia	2014	McGrail, S	CRCLCL		Report	https://bit.ly/2yzW nva	
RP3008	Boxing Day 2040 William's Story	2014	Symes, A	CRCLCL		Video	https://vimeo.com/ 111481492	
RP3008	Business evolution: a vision of Melbourne in 2040	2014	Cave, T. and Bissett-Johnson, K.	CRCLCL		Video	https://vimeo.com/ 110845826	
RP3008	Disruptive social innovation for a low-carbon world	2014	Alexander, S.	CRCLCL		Report	https://bit.ly/1s70 CCq	
RP3008	Eco-Acupuncture: designing and facilitating pathways for urban transformation, for a resilient low carbon future	2013	Ryan, C	Journal of Cleaner Production,	50, 189-199	Journal article	doi: 10.1016/j.jclepro.2 012.11.029	
RP3008	How Melbourne and Sydney might look in 2040 - the future is yet to be designed	2014	Wheeldon, D.	Architecture and Design		Article	https://bit.ly/2JY1c Uu	
RP3008	How Melbourne and Sydney might look in 2040 - the future is yet to be	2014	Wheeldon, D.	Architecture Lab		Article	https://bit.ly/2tsbQ	

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	designed						rr	
RP3008	International sustainability research and urban design leaders join forces with Australian counterparts	2014	CRCLCL	CRCLCL		Media Release		
RP3008	Library as hub: a vision of Melbourne in 2040	2014	Cave, T. and Bissett-Johnson, K.	CRCLCL		Video	https://vimeo.com/ 110845974	
RP3008	Mobility: a vision of Sydney in 2040	2014	Jamieson, S.	CRCLCL		Video	https://vimeo.com/ 111380934	
RP3008	Pathways to a zero-carbon economy: learning from large scale de- carbonised strategies	2014	Wiseman, J.	CRCLCL		Report	https://bit.ly/2yukE mg	
RP3008	Public footprint: a vision of Melbourne in 2040	2014	Cave, T. and Bissett-Johnson, K.	CRCLCL		Video	https://vimeo.com/ 110845906	
RP3008	Review of system innovation and transition theories	2014	Twomey, P. and Gaziulusoy, A.I.	CRCLCL		Report	https://bit.ly/2tiWm qB	
RP3008	Short trips: a vision of Melbourne in 2040	2014	Cave, T. and Bissett Johnson, K.	CRCLCL		Video	https://vimeo.com/ 110845391	
RP3008	Smart products: a vision of Melbourne in 2040	2014	Cave, T. and Bissett Johnson, K.	CRCLCL		Video	https://vimeo.com/ 110838156	
RP3008	Smart travel: a vision of Melbourne in 2040	2014	Cave, T. and Bissett Johnson, K.	CRCLCL		Video	https://vimeo.com/ 110845465	
RP3008	Sydney and Melbourne stakeholders see de-centralisation as key to a low carbon urban future	2014	CRCLCL	CRLCLC		Media Release		
RP3008	Timebank: a vision of Melbourne in 2040	2014	Cave, T. and Bissett-Johnson, K.	CRCLCL		Video	https://vimeo.com/ 110845262	
RP3008	Transforming Australian cities through green, smart technologies	2014	Merrett, R.	CRCLCL		Article	www.cio.com.au	
RP3008	Using futures inquiry to create low-carbon, resilient urban features: A review of practice, theory and process options for the Visions and Pathways project	2014	McGrail, S. and Gaziulusoy, I.	CRCLCL		Report	https://bit.ly/2tsfcu w	
RP3008	Waste is gold: a vision of Melbourne in 2040	2014	Cave, T. and Bissett Johnson, K.	CRCLCL		Video	vimeo.com/11084 6064	
RP3008	Workplace: a vision of Melbourne in 2040	2014	Cave, T. and Bissett Johnson, K.	CRCLCL		Video	vimeo.com/11084 5620	
RP3008	Emerging approaches in business model innovation relevant to sustainability and low carbon transitions	2014	Gaziulusoy, A.I., and Twomey, P.	CRCLCL		Report		
RP3008	Design research for city futures: framing the emerging area of design for system innovations and transitions	2015	Gaziulusoy, A.I., and Ryan, C.	Global Cleaner Production and Sustainable Consumption Conference	Sitges, Spain	Presentation		
RP3008	Emerging approaches in business model innovation relevant to sustainability and low-carbon transitions in Australian cities.	2015	Gaziulusoy, A.I., and Twomey, P.	State of Australian Cities National Conference	Gold Coast, Australia	Presentation		
RP3008	Low-carbon, resilient, city futures - a design-mediated approach: visions and pathways 2040.	2015	Gaziulusoy, A.I., and Ryan, C.	8th Making Cities Liveable Conference	Melbourne, Australia.	Presentation		
RP3008	Decarbonization of cities: you're dreaming!	2015	Ryan, C., McCormick, K., Gaziulusoy, A.I., Twomey, P. and McGrail, S.	The Solutions Journal	5(6),12-15	Journal article	http://thesolutionsj ournal.org/node/2 37270	
RP3008	Simple in theory, but not in practice: A 'warts and all' reflection on the use of visioning exercises in urban contexts.	2015	McGrail, S., Gaziulusoy, A.I. and Twomey, P.	State of Australian Cities National Conference,	Gold Coast	Presentation		
RP3008	Framing processes in the envisioning of low-carbon, resilient cities: results from two visioning exercises	2015	McGrail, S., Gaziulusoy, A.I. and Twomey, P.	Sustainability	7(7), 8649- 8683	Journal article	doi: 10.3390/su70786 49	
RP3008	Identifying and addressing challenges faced by transdisciplinary research teams in climate change research	2015	Gaziulusoy, A.I., Ryan, C., McGrail, S., Chandler, P. and Twomey, P.	Journal of Cleaner Production	123, 55-64	Journal article	doi: 10.1016/j.jclepro.2 015.08.049	
RP3008	Towards a collaborative city: the case for a Melbourne Metropolitan	2016	Brennan, M.	The Conversation		Article	http://bit.ly/2lpSC	

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	Commission		Twomey, P., McGrail, S., Gaziulusoy, A. İ.	State of Australian Cities	Gold Coast,		NH	
RP3008	Visions and scenarios of low-carbon resilient Australian cities in 2040.	2015	and Rvan. C.	National Conference	Australia	Presentation		
RP3008	Scenarios 2040, Results from the second year of Visions and Pathways 2040	2016	Ryan, C., Twomey, P., Gaziulusoy, A. I., McGrail, S. and Chandler, P.	CRCLCL		Report		
RP3008	My vision of 2040	2015	Flannery, T.	CRCLCL		Video	https://bit.ly/2xJuD nE	
RP3008	My vision of 2040	2015	Maher, A.	CRCLCL		Video	https://bit.ly/2xIZ0 up	
RP3008	My vision of 2040	2015	Yarwood, S.	CRCLCL		Video	https://bit.ly/2xIBZ rm	
RP3008	My vision of 2040	2015	Harding, R.	CRCLCL		Video	https://bit.ly/2Jr0E FA	
RP3008	My vision of 2040	2015	Smith, G.	CRCLCL		Video	https://bit.ly/2xIBTj u	
RP3008	My vision of 2040	2015	Horton, T.	CRCLCL		Video	https://bit.ly/2xlzZ PZ	
RP3008	My vision of 2040	2015	Gleeson, B.	CRCLCL		Video	https://bit.ly/2sHB 191	
RP3008	Visions 2040 – Results from the first year of Visions and Pathways 2040: Glimpses of the future and critical uncertainties	2015	Ryan, C., Twomey, P., Gaziulusoy, A.I. and McGrail, S.	CRCLCL		Report	https://bit.ly/2LiJZ 4j	
	The Digital Economy: Two Models of Peer-to-Peer Value Generation	2016	Gaziulusoy, A.I. and Ryan, C.	CRCLCL		Report	https://bit.ly/1pIA7 VV	
RP3008	Virtual City Experimentation: A Critical Role for Design Visioning. In J. Evans, A. Karvonen & R. Raven (Eds.) The Experimental City	2016	Ryan, C., Gaziulusoy, I., McCormick, K., and Trudgeon, M.	Routledge		Book chapter	ISBN: 978-1-315- 71982-5	
	Media coverage and events – July 2013 to present	2013 - present	Various	Various:		Media	www.joshshouse. com.au/news	
RP3009	Josh's House – Video Series – Episode 1 - Introduction – Episode 2 - Plumbing and Greywater – Episode 3 - Walls and Insulation – Episode 4 - Roof and House Performance Monitoring – Episode 5 - Windows and Glazing – Episode 6 - Reduce, Reuse and Recycling, – Episode 7 - Water – Episode 8 - The Landscape Special – Episode 9 - The Power of the Sun – Episode 10 - Moving In – Episode 11 – Sustainable House Day – Episode 12 - Series One Final	2013- 2014	Byrne, J. and Hutchens, B.	Josh Byrne & Associates		Video	http://joshshouse. com.au/videos/ser ies-1-the-build/	High performance housing, energy efficiency, water efficiency, sustainable housing
RP3009	Josh's House – Video Series Updates – Episode 13 - Josh Bares All – Episode 14 - Productive and Playful Garden – Episode 15 - Looking Ahead – Episode 16 - Battery Storage Josh's House – Video Series Extras	2014-15	Byrne, J. and Hutchens, B.	Josh Byrne & Associates		Video	http://joshshouse. com.au/videos/ser ies-2-updates/	High performance housing, energy efficiency, water efficiency, sustainable housing
RP3009	Josh's House – Video Series Extras – Interview: Griff Morris, Co-Designer – Interview: Dr Brad Pettitt, City of Fremantle Mayor – Interview: Ed Hauck, Department of Water, WA	2013-15	Byrne, J. and Hutchens, B.	Josh Byrne & Associates		Video		

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	<ul> <li>Interview: Peter Tinley, WA Opposition Spokesperson for Housing</li> <li>Interview: Lynn McLaren, WA Greens Spokesperson for Housing</li> <li>CGI Animation</li> <li>Interview: Michael Mobbs</li> <li>Interview: Costa Georgiadis</li> <li>Universal Access</li> <li>Interview: Griffin Longley</li> <li>Interview: Peter Newman</li> <li>Interview: Jemma Green</li> <li>Pilot Episode</li> </ul>							
RP3009	Josh's House - Design Fact Sheets - Grey Water Plumbing - Integrated Water Systems - Josh's House Self-Guided Tour Map - Landscaping FAQ's - Solar Energy - Solar Energy Storage - Universal Access and Liveable Homes - Building Waste - Wall Types and Insulation - Windows and Glazing - Window Furnishings	2013-14	Byrne, J.	Josh Byrne & Associates		Video		
RP3009	Josh's House – Plans – House Plans for Josh's House – Performance Monitoring Plan – Landscape Plans for Josh's House – Sustainability House Plans for Josh's House – Landscaping Design for Josh's House – Irrigation Design – Integrated Water System Plans	2013-14	Byrne, J.	Josh Byrne & Associates		Building plans, schematics and factsheets	http://joshshouse. com.au/resources /plans/	High performance housing, energy efficiency, water efficiency, sustainable housing
RP3009	Optimising residential water efficiency – The Josh's House Project	2014	Byrne, J., Dallas, S. and Newman, P.	Conference proceedings: OzWater	Brisbane	Paper		Water efficiency, water-energy nexus
RP3009	Josh's House: Star Performers - Video Series – Episode 1 - Zero Emission House - Melbourne – Episode 2 - CSR House - NSW – Episode 3 - Innovation House - Townsville – Episode 5 - Lochiel Park 1 – Episode 6 - Lochiel Park 2	2014-15	Byrne, J. and Hutchens, B.	Josh Byrne & Associates		Video	http://joshshouse. com.au/videos/sta r-performers- videos/	High performance housing, energy efficiency, water efficiency, sustainable housing
RP3009	Josh's House: Star Performers – Video Series Extras – Interview: Michael Ambrose - Zero Emission House – Interview: Scott Clarkson - CSR House – Interview: Darren Finlay - Innovation House - Townsville – Interview: Nicholas Wolf - Pilbara Vernacular House – Interview: Wasim Saman - Lochiel Park – Interview: Stephen Berry - Lochiel Park	2014-15	Byrne, J. and Hutchens, B.	Josh Byrne & Associates		Video	http://joshshouse. com.au/videos/sta r-performers- videos/	High performance housing, energy efficiency, water efficiency, sustainable housing
RP3009	Josh's House: Living Labs - Video Series – Episode 1 – Series Introduction	2015-16	Byrne, J., Eon, C. and Hutchens, B.	Josh Byrne & Associates		Video	http://joshshouse. com.au/videos/livi	Low carbon living, energy efficiency,

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	<ul> <li>Episode 2 – Saving Energy</li> <li>Episode 3 – Saving water</li> <li>Episode 4 – Wrap up</li> </ul>						ng-labs-videos/	water efficiency, behaviour change
RP3009	Josh's House: Living Labs - Factsheets - Natural Heating and Cooling - Instantaneous Hot Water - Converting Lights - Set Up Your Fridge - Standby Power Checklist - Waterwise Gardening - How to Use Greywater - Waterwise Shower Head - Waterwise Toilet Solutions - Leaking Tap - Your Checklists	2015-16	Byrne, J. and Eon, C.	Josh Byrne & Associates		Factsheets	http://joshshouse. com.au/resources /living-labs- lifestyle- factsheets/	Low carbon living, energy efficiency, water efficiency, behaviour change
RP3009	Sustainability tools and frameworks for high performance housing	2016	Byrne, J. and Eon, C.	CRCLCL		Report		High performance housing, sustainability rating, low carbon housing
RP3009	Monitoring and verification of the performance of residential buildings	2016	Byrne, J. and Eon, C.	CRCLCL		Report		Performance monitoring, high performance housing, low carbon housing
RP3009	A technique for quantifying the reduction of solar radiation due to cloud and tree cover	2017	Loveday, J., Loveday, G.K., Byrne, J., Ong, B.K. and Newman, P.	Procedia Engineering	180, 403-412	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.199	Micro-climate, residential landscapes, energy use, radiant energy, temperature sensors, data logging, low-cost
RP3009	Quantifying radiation from thermal imaging of residential landscape elements	2017	Loveday, J., Loveday, G., Byrne, J., Ong, B.K., & Newman, P.	Renewable Energy and Environmental Sustainability	2, 17	Journal article	https://doi.org/10. 1051/rees/201704 1	Micro-climate, residential landscapes,
RP3009	Verification of an emerging LCA design tool through real life performance monitoring	2017	Eon, C., Murphy, L., Byrne, J. and Anda, M.	Renewable Energy and Environmental Sustainability	2, 26	Journal article	https://doi.org/10. 1051/rees/201701 7	LCA, embodied energy, operational energy, residential housing
RP3009	Josh's house - a more even relationship with the grid	2017	Byrne, J., Taylor, M. and Green, J.	Renewable Energy and Environmental Sustainability	2, 37	Journal article	https://doi.org/10. 1051/rees/201701 6	Solar power, distributed storage, residential housing
RP3009	Unravelling everyday heating practices in residential homes	2017	Eon, C., Morrison, G. and Byrne, J.	Energy Procedia	121, 198-205	Journal article	<u>https://doi.org/10.</u> <u>1016/j.egypro.201</u> 7.08.018	Living Labs, everyday practice, behaviour, house, home heating systems, thermal comfort, renewable energy
RP3009	Methods to enable residential building sustainability: integrating and evaluating energy, water, materials and liveability. In Hartz-Karp, J. and Marinova, D. Eds. Methods for Sustainability Research.	2017	Eon, C. and Byrne, J.	Edwards Elgar		Book chapter	http://www.e- elgar.com/shop/m ethods-for-	Sustainable housing, zero-emission housing (ZEH), thermal

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							sustainability- research	performance, performance verification, thermography, airtightness, infiltration, LCA, multi-criteria assessment
	10 household living labs study – results summary report	2017	Eon, C. and Byrne, J.	CRCLCL		Report		Low carbon living, energy efficiency, water efficiency, behaviour change
RP3009	Mainstreaming zero energy housing	2017	Byrne, J.	CRCLCL		Factsheet		
RP3009	Influencing energy and water use within a home system of practice	2017	Eon, C., Liu, X., Morrison, G.M. and Byrne, J.	Energy and Buildings		Journal article	https://doi.org/10. 1016/j.enbuild.201 7.10.053	efficiency, water efficiency, routines
RP3009	The influence of design and everyday practices on individual heating and cooling behaviour in residential homes	2017	Eon, C., Morrison, G. M. & Byrne, J.	Energy Efficiency		Journal article	https://doi.org/10. 1007/s12053-017- 9563-y	Living Labs, everyday practice, behaviour, design, thermal comfort, renewable energy
	Mainstreaming High Performance, Zero Energy Housing – Josh's House and Beyond	2017	Byrne, J.	GBCA		Webinar		
RP3009	The home as a system of practice and its implications for energy and water metabolism. Submitted to Sustainable Production and Consumption.	2017	Eon, C., Breadsell, J., Morrison, G. M. and Byrne, J.	Sustainable Production and Consumption		Journal article	https://doi.org/10. 1016/j.spc.2017.1 2.001	Home system, everyday practice, energy, water, automation, routines
	Integrating theories of practice and behaviour into home settings through living laboratories	In review	Eon, C., Breadsell, J., Morrison, G. M. and Byrne, J.	Science				
RP3010	Regional program development guide	2015	Blue Mountains World Heritage Institute	CRCLCL		Report		
RP3010	Helping businesses and communities reduce their carbon footprint	2016	Low Carbon Living Blue Mountains	CRCLCL		Other		
	Visitor and resident survey report	2016	Low Carbon Living Blue Mountains	CRCLCL		Report		
RP3010	Guide for new regions	2016	Low Carbon Living Blue Mountains	CRCLCL		Report		
RP3010	Reducing the carbon footprint of tourism and communities – our Low Carbon Living Program	2017		CRCLCL		Factsheet		
RP3011	Asset mapping and social innovation for low carbon communities	2015	Sharp, D.	8th Making Cities Liveable Conference	Melbourne	Presentation		
	Beyond Zero,	2014	Salter, R.	3CR		Media		
RP3011	Interview with Steve Wide, Alicia Sometimes and Josh Earl	2014	Salter, R.	3CR		Media		
RP3011	New grassroots carbon reduction project set for City of Yarra	2015	Aliento, W.	The Fifth Estate		Article	http://bit.ly/2mv91 8n	
RP3011	A guide to running a 'livewell group' to reduce your carbon emissions	2016	Salter, R.	Livewell		Guide	http://bit.ly/2mv8r Ya	
RP3011	Interview with Steve Wide, Alicia Sometimes and Josh Earl	2015	Robert Salter Interview with Steve Wide, Alicia Sometimes and Josh Earl, The Breakfasters,	3RRR		Interview		
RP3011	The sustainable hour interview with Mik Aidt and Tony Gleeson,	2015	Salter, R.	Geelong Community Radio Station		Interview		
RP3011	Asset mapping and social innovation for low carbon communities	2015	Sharp, D.	8th Making Cities Liveable Conference	Melbourne, Australia	Paper		Living labs

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RP3011	Co-operative enterprise in cities: imagining and creating sustainable futures	2017	Sharp, D.	Ecocity World Summit	Melbourne, Australia	Presentation		Urban enterprise
RP3011	Fearless sharing, networked cooperativism and municipal internationalism	2017	Sharp, D. and Healy, S.	New Economy Network Australia Conference	Melbourne, Australia	Presentation		Sharing cities
RP3011	Direct impacts of an urban living lab from the participants' perspective: Livewell Yarra	2017	Sharp, D. and Salter, R.	Sustainability	9, 1699	Journal article	doi:10.3390/su91 01699	Urban sustainability, urban living lab, sustainability transitions, urban experiments, action research, transition management
RP3011	Sharing cities for urban transformation: Narrative, policy and practice	2018	Sharp, D.	Urban Policy and Research		Journal article	https://doi.org/10. 1080/08111146.2 017.1421533	Sharing economy, sharing cities, urban transformation, social innovation, urban governance, urban policy, transition experiments, narrative, empowerment
	Co-production and co-governance for city transitions: Vision mapping	In prep	Sharp, D. and Ramos, J.	Journal of Peer Production		Journal article		Co-governance
RP3011	The sharing city as a new mode of governance for the urban commons	In prep	Sharp, D.	Diverse Economies Handbook		Book chapter		Sharing cities
RP3012	Transitioning to low carbon living: a review of environmental psychology and associated literature	2015	O'Brien, L. V. and Kashima, Y.	CRCLCL		Report		
RP3012	Transformation to low carbon living: social psychology of low carbon behavioural practice	2015	O'Brien, L. V. and Kashima, Y.	CRCLCL		Report		
RP3012	Building & validating the low carbon readiness index	2016	O'Brien, L. V. and Kashima, Y.	CRCLCL		Report		Bond strength
RP3012	Using behaviour change insights to translate research into policy & practice	2017	Kashima, Y., O'Brien, L., Moglia, M., McNeill, I. and Summerhayes, S.	CRCLCL		Guide note		
RP3012	The psychology of low carbon living: From beliefs to behaviours	2016	Anderson, R.C.	Annual Conference of the Society for Australasian Social Psychologists	Brisbane, Australia	Presentation		
RP3012	The psychology of low carbon living: Modelling and predicting low carbon household behaviours	2017	Anderson, R.C.	Annual Conference of the Society for Australasian Social Psychologists	Melbourne, Australia	Presentation		
RP3015	Game-based learning to reduce carbon footprint	2014	No author	Swinburne University		Media Release	http://bit.ly/1kXJ06	
RP3015	Learning for low carbon living: the potential of mobile learning applications for built environment trades and professionals in Australia	2017	Winfree, T., Goldacre, P., Sherkat, M., Graham, P., Mendoza, A. and Miller, T.	Procedia Engineering	180, 1773- 1783	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.340	Education, built environment, mobile learning, sustainability, emotional requirements, user segmentation
RP3015	Does it Fit Me Better? User Segmentation in Requirements Engineering	2016	Sherkat, M., Mendoza, A. and Miller, T.	23rd Asia-Pacific Software Engineering Conference	New Zealand	Presentation		
RP3015	Does it Fit Me Better? User Segmentation in Requirements Engineering	2017	Sherkat, M., Mendoza, A. and Miller, T.	IEEE Xplore digital library		Journal article	DOI: 10.1109/APSEC.2 016.020	
RP3015	Learning for low carbon living: the potential of mobile learning applications for built environment trades and professionals in Australia	2016	Winfree, T., Goldacre, P., Sherkat, M., Graham, P., Mendoza, A. and Miller, T.	SBE16 International High- Performance Built Environment Conference	Sydney	Presentation		
RP3015	Mediating digital technologies in the Australian built environment	2016	Winfree, T.	7th Nordic International Society	Copenhagen	Presentation		

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				of Cultural-historical Activity Research Conference				
RP3015	Emotional attachment framework for people-oriented software	In review	Sherkat, M., Mendoza, A., Miller, T., and Burrows, D.	Journal of Systems and Software		Journal article		People-oriented software, requirements engineering, emotional goals, emotional attachment framework
RP3016	Welcome to the Energyfit homes initiative!	2014	No author	CRCLCL		Blog		
KP3010	Energyfit Home Initiative. Working paper 1 - Literature review and gap analysis	2014	Romanach, L.M., Jeanneret, T., Hall, N. and Yip, E.	CRCLCL		Report		
RP3016	EnergyFit Homes Initiative. Working paper 2 - Focus group results	2014	Hall, N., Jeanneret, T. and Romanach, L.	CRCLCL		Report		
KP3010	EnergyFit Homes Initiative Working paper 3 - National consumer survey results	2015	Romanach, L.M., Jeanneret, T., Hall, N. and Yip, E.	CRCLCL		Report		
RP3016	EnergyFit Homes Initiative. Working paper 4 - Housing specialist and real estate industry survey	2015	Romanach, L.M., Jeanneret, T., Hall, N. and Yip, E.	CRCLCL		Report		
	EnergyFit Homes Initiative. Working paper 5 - Message frame testing	2015	Leviston, Z., Malkin, S., Green, M. and Gardner, J.	CRCLCL		Report		
KP3010	EnergyFit Homes Initiative. Working paper 6 - Australian information systems for household energy efficiency	2014	Clarke, M. and Potts, J.	CRCLCL		Report		
	EnergyFit Homes Initiative. Working Paper 7 - Desktop review report of international tools and systems relevant to benchmarking low carbon homes	2015	Clarke, M.	CRCLCL		Report		
	EnergyFit Homes Initiative. Working paper 8: Stakeholder map - Industry and government preferences for a national residential building energy efficiency information system	2015	Adams, H. and Clark, M.	CRCLCL		Report		
RP3016	Enhancing the Market for Energy Efficient Homes Implementing a national voluntary disclosure system for the energy performance of existing homes	2016	Adams, H., Clark, M. and Potts, J.	CRCLCL		Report		RP3016, Energy Efficiency, Rating systems, Discosure, Residential property, Real estate
RP3016	Business case/implementation plan – RP3016 Final report	2015		CRCLCL		Report		
	Adelaide Living Laboratory, value proposition: low carbon housing policy	2015	Berry, S. and Davidson, K.	CRCLCL		Report		
	Adelaide Living Laboratory. Value proposition: literature review	2015	Berry, S. and Davidson, K.	CRCLCL		Report		
	Adelaide Living Laboratory. Value Proposition: Householder Experience	2015	Berry, S. and Davidson, K.	CRCLCL	-	Report		
RP3017	Adelaide Living Laboratory update	2014	No author	CRCLCL		Blog	http://bit.ly/2mSC	
RP3017	Green village proves high value of low carbon living	2016	Radford, C.	The Lead (SA)		Article	кĎК	
RP3017	Tonsley snatches 6 Star Communities rating	2015	No author	The Fifth Estate		Article	http://bit.ly/2mWU Ghc	
	Zero carbon housing could add billions to the bottom line	2016	Jewell, C.	The Fifth Estate		Article	http://bit.ly/2nFdo 0h	
RP3017	Living Labs in Europe – Insights from a traveller	2014	No author	CRCLCL		Blog		
RP3017	Six stars for Tonsley Urban renewal project, Climate Control news -	2015		Climate Control news		Article	http://www.climate controlnews.com. au/news/six-stars- for-tonsley-urban- renewal-project	
RP3017	Zero carbon housing policy can save billions and lift living standards research confirms	2016	No author	CRCLCL		Media Release	http://bit.ly/2mv8s	
RP3017	Co-creating urban environments to engage citizens in a low-carbon future	2016	Davis, A. and Jane, A.	International High Performance Built Environment Conference	Sydney	Presentation		
RP3017	Zero carbon goal for estate	2016		Cockburn Gazette, Perth	T	Article		

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RP3017	The viability of electrical energy storage for low-energy households	2017	Grantham, A., Pudney, P., Ward. L.A., Whaley, D. and Boland, J.	Solar Energy	155, 1216- 1224	Journal article	https://doi.org/10. 1016/j.solener.20 17.07.063	Distributed energy, energy storage, low- energy homes, payback period
RP3017	From rationalism to critical pragmatism: Revisiting Arnstein's ladder of public participation in co-creation and consultation	2017	Davis, A. and Jane, A.	State of Australian Cities Conference	Adelaide, Australia	Paper	http://apo.org.au/n ode/178271	Co-creation, public participation, evaluation, critical pragmatism
RP3017	From rhetoric to reality: Theo <etical circular<br="" on="" perspectives="" realising="" the="">economy</etical>	2017	Davis, A.	Powering the Change to a Circular Economy Conference	Adelaide, Australia	Presentation		Low carbon development, co- creation, urban design
RP3017	Understanding the value generated by a co-creation approach to the bull en1.ironment	2017	Davis, A.	AAE Conference	Oxford, UK	Paper		Co-creation, participation, value network analysis
RP3019	Pathways to achieve low carbon living outcomes through collaborative urban development planning in Australia	2014	Gollagher, M.	CRCLCL		Poster		
RP3019	Pathways to achieve low carbon living outcomes through collaborative urban development planning in Australia	2016	Gollagher, M., Petrova, S., Raphaely, T. and Marinova, D.	CRCLCL		Report		
RP3020	Using schools as change agents to create low carbon communities	2015	Odell, P.	City of Adelaide public event: 'Fresh Thinking – Turning Ideas into Action		Presentation		
RP3020	Australian schools going green to combat climate change	2015	Emery, R.	SBS News Online		Video	http://www.sbs.co m.au/news/article/ 2015/11/27/austra lian-schools- going-green- combat-climate- change	
RP3020	Perth schools needed for low-carbon pilot program	2015	No author	The Fifth Estate		Article	http://bit.ly/1gsSR Ec	
RP3020	Stage I: Low carbon high performance schools (Scoping Study)	2015	Rauland, V., Odell, P., Hall, S., Newman, P. and Lewis, A.	CRCLCL		Report	http://bit.ly/1gsSR Ec	
RP3020	Influencing change through a low carbon schools community program	2016	Rauland, V. and Odell, P.	CRCLCL		Article		
RP3020	Low Carbon Schools - Decarbonising schools and communities	2016	Rauland, V.	Melville Rotary Club		Presentation		
	Low carbon schools pilot program	2016	Rauland, V.	WALGA		Presentation		
	Stories from the field: creating social impact: low carbon schools	2016	Rauland, V. and Odell, P.	Social Impact Festival		Presentation		
RP3020	Low carbon schools - the 4cs cutting costs, carbon and consumption	2016	Rauland, V.	AAEE: Wired for Science Expo		Presentation		
RP3020	Let's Start at The Very Beginning: The Importance of Engaging Schools	2016	Rauland, V.	CRC LCL: Participants Annual Forum	Sydney	Presentation		
RP3020	Green schools cost too much and kids should focus on real learning": Low Carbon Schools Pilot Program	2017	Rauland, V.	People Cities Conference		Presentation		
RP3020	Low Carbon Schools: The importance of schools in decarbonising society	2017	Rauland, V.	World Renewable Energy Conference (WREC)		Presentation		
RP3020	Low-Carbon Schools: Empowering tomorrow's sustainability champions	2017	Curtin University	Curtin University		Media	http://news.curtin. edu.au/stories/low -carbon-schools- empowering- tomorrows- sustainability- champions/	
RP3020	Schools: Taking the lead in our low carbon transition	2017	Rauland, V. and Odell, P.	CRCLCL		Factsheet		

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RP3020	Schools taking the lead on climate action	2017	Rauland, V.	The Fifth Estate		Article	https://www.thefift hestate.com.au/co lumns/spinifex/sch ools-taking-the- lead-on-climate- action/97311	Schools, climate change, carbon,
RP3020	Low carbon schools: the social impact of reducing carbon emissions	2016	O'Dell, P. and Rauland, V.	West Australian Sustainable Education Forum (WASEF)	Perth, Australia	Presentation		
RP3020	Empowering schools & creating a low carbon community	2016	O'Dell, P. and Rauland, V.	Social Impact Festival	Perth, Australia	Presentation		
RP3020	Using school buildings and facilities to create a low carbon future	2017	O'Dell, P.	World Environmental Education Congress	Vancouver, Canada	Presentation		
RP3021	Digital media and low carbon renovation practices.	2015	Hunter, S.	AHURI PhD Symposium		Presentation		
RP3021	Greening the Block: Sustainability in mainstream lifestyle TV	2015	Aggeli, A. and Melles, G.	Unmaking Waste	Adelaide, Australia	Presentation		
RP3021	I'd just Google it: media and home renovation practices in Australia	2015	Hulse, K., Podkalicka, A., Milne, E., Winfree, T. and Melles, G.	CRCLCL		Report		
RP3021	Hashtag sustainability? Home renovators' media world	2016	Podkalicka, A., Milne, E., Hulse, K., Melles, G. and Winfree, T.	CRCLCL		Report		
RP3021	Media and home renovation practice: Investigating the everyday politics of low-carbon living in Australia	2016	Podkalicka, A.	Asian Cultural Studies Conference	Kobe, Japan	Presentation		
RP3021	Diverse media practices and economies of Australian home renovators: budgeting, self-education and documentation	2017	Podkalicka, A. and Milne, E.	Continuum: Journal of Media and Cultural Studies	31,(5), 694- 705	Journal article	http://dx.doi.org/1 0.1080/10304312. 2017.1281882	
RP3021	Under the radar? Home renovation practices in Australia	2017	Hulse, K. and Podkalicka, A.	Australasian Housing Researchers Conference		Presentation		
RP3021	I want this wall off The Block: Mediated notions of the ideal home	2017	Hunter, S.	AHURI Symposium		Presentation		
RP3021	I want this wall off The Block: The role of digital media in home renovation and implications for consumption	2017	Hunter, S.	ANZCA Australian and New Zealand Communication Association	Newcastle, NSW	Presentation		
RP3021	DIY Home Renovation as collective practice: The role of social media	2017	Aggeli, A.	Building a new economy for Australia conference	Brisbane, Australia	Presentation		
RP3021	Co-design in the context of collaborative research centre projects: homeowner DIY renovation design fictions	2018	Melles, G.	The International Journal of Architectonic, Spatial, and Environmental Design	12(1), 11-26	Journal article	https://doi.org/10. 18848/2325- 1662/CGP/v12i01/ 11-26	Co-design, collaborative research centre, design research, home renovation
RP3022	Policy impediments and incentives for effective education and training	2016	Fjen, J., Winfree, T. and Esposto, A.	CRCLCL		Report		
RP3023	Submission to VIC reverse auction consultation	2016	Hicks, J.	Coalition for Community Energy		Submission		Community energy, wind power community-ownership
RP3023	Submission to NSW wind energy planning guidelines review	2016	Hicks, J.	Community Power Agency		Submission		Community energy, wind power community-ownership
RP3023	Guide to community-owned renewable energy for Victorians	2016	Lane, T., Hicks, J, Thompson, B. and Memery, C.	Victorian Government		Guide	http://bit.ly/2nbjaC O	Community energy, wind power community-ownership
RP3023	Navigating between motivations, theory and the practical realities of community owned renewable energy	In review	Hicks, J. and Ison, N.	Energy Policy		Journal article		Community energy, wind power community-ownership
RP3023	Keynote presentation: benefits and opportunities of community -owned	2016	Hicks, J. and Ison, N.	Australian Regional	Canberra	Presentation		Community energy,

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	renewable energy			Development Conference				wind power community-ownership
	Benefits and opportunities of community –owned renewable energy at the New England Energy Forum	2016	Hicks, J.	University of New England		Presentation		Community energy, wind power community-ownership
RP3023	Case studies of Denmark Community Wind, Hepburn Community Wind and Shapinsay Development Trust	2016	Hicks, J.	UNSW		Case Study		Community energy, wind power community-ownership
RP3023	Community renewable energy in Australia:	2015	Hicks, J.	Clean Energy Regional Responses conference		Presentation		Community energy, wind power community-ownership
RP3023	Best practice community engagement in wind development	2014	Lane, T. and Hicks, J.	ACT Government		Guide	http://bit.ly/2nd0lel	engagement
RP3023	Community renewable energy in Australia: exploring its character and emergence in the context of climate change action	2015	Mey, F. and Hicks, M.	EMES 5th Social Enterprise Research Conference	Helsinki	Paper		Community energy, wind power community-ownership
RPSUZS	Shifting energy identities: within community-owned renewable energy projects	2015	Hicks, J.	Energy Narratives conference	Cambridge	Presentation		Community energy, wind power community-ownership
RP3023	Presentation	2014	Hicks, J.	APRU Postgraduate Conference	Jakarta	Presentation		Community energy, wind power community-ownership
RP3023	Presentation	2014	Hicks, J.	Institute for Australian Geographers	Melbourne	Presentation		Community energy, wind power community-ownership
RP3023	Community energy steps up	2016	Hicks, J. and Mey, F.	ReNEW	136, 60-63	Article		
RP3023	An exploration of the boundaries of 'community' in community renewable energy projects: Navigating between motivations and context	2018	Hicks, J. and Ison, N.	Energy Policy	113, 523-534	Journal article	https://doi.org/10. 1016/j.enpol.2017 .10.031	Community renewable energy, action research
	Low Carbon Living open learning training (4 modules)	2018	Various	TAFE NSW		моос	https://lowcarbonli ving.sydneytafe.e du.au/	
RP3025	Our free, vocational and interactive online training and education in carbon reduction	2017		CRCLCL		Factsheet		
RP3028	A review of agent-based modelling of technology diffusion with special reference to residential energy efficiency	2017	Moglia, M., Cook, S. and McGregor, J.	Sustainable Cities and Society	31, 173-182	Journal article	http://dx.doi.org/1 0.1016/j.scs.2017. 03.006	Agent-based modelling, diffusion of innovation, HVAC, lighting, appliances
	An agent-based model of residential energy efficiency adoption	2018	Moglia, M., Podkalicka, A. and McGregor, J.	Journal of Artificial Societies and Social Simulation	21(3)	Journal article	DOI: 10.18564/jasss.37 29	Energy efficiency, policy assessment, innovation diffusion, solar hot water, consumat, ex-ante
RP3028	Actor, intermediary, and context: locating media as part of consumption and home renovation practice	In prep.	Podkalicka, A.	Journal of Communication Research and Practice		Journal article		
RP3028	Final Report:. Mapping the adoption processes of energy efficient products in the residential sector	2018	Moglia, M., Podkalicka, A., Marquez, L., Fiess, S., McGregor, J. and Xu, C.	CRCLCL		Report		Energy efficiency, agent-based modelling, solar hot water, consumer choice

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	Energy star ratings for homes? Good idea, but it needs some real estate flair	2016	White, S.	The Conversation		Article	http://bit.ly/2n9FG 0q	Sustainability, energy efficiency, real estate, solar panels
	Government at last turns focus to energy productivity, and the plan looks good	2015	Jewell, C.	The Fifth Estate		Article	http://bit.ly/2nflvjj	
RP3029	Green homes: would you pay more for energy and water efficiency?	2016	Kane, A.	The Guardian		Article	http://bit.ly/29b5Z MU	
RP3029	The myths about sustainable buildings and cities	2016	Heaton, A.	Sourceable		Article	http://bit.ly/1nuYE wL	
RP3029	National conversation on energy efficient housing: Report from initial scoping meeting	2014	Hall, N.	CRCLCL		Blog	http://bit.ly/2mWK MfE	
RP3031	Work-architecture: A new space for real estate	2016	Godfrey, A.	22nd Pacific Rim Real Estate Society Conference	Sunshine Coast	Paper		
RP3033	Media coverage and events – July 2015 to present	2015 - present	Various	Various		Media	www.landcorp.wa. gov.au/innovation/ wgv	Low carbon precinct, zero energy development, sustainable development, residential urban infill
RP3033	Comprehensive guide for residents	2016	LandCorp, Josh Byrne and Associates and Curtin University	Landcorp		Guide	http://bit.ly/2mxDF Ow	Low carbon living, sustainable living, community based social marketing
RP3033	WGV living laboratory	2017		CRCLCL		Factsheet		
RP3033	Density by Design' video series	2017	Byrne. J			Video	www.densitybyde sign.com.au	Urban densification, low carbon developments, sustainable development
RP3033	10 houses as living labs: understanding how people and practice affect housing performance	2017		CRCLCL		Factsheet		
RP3033	Mainstreaming High Performance Housing – Josh's House & WGV	2017	Byrne. J	Future Housing Forum	Brisbane, Australia	Paper		
RP3033	Density by Design	2017	Byrne, J.	Sky news		Interview		Low carbon precinct, zero energy development, sustainable development, residential urban infill
RP3034	Full-stack engagement: vertical integration and process precursors that promote bottom-up urban transformation	2017	Glackin, S. and Gudes, O.	State of Australian Cities,	Adelaide, Australia	Presentation	https://bit.ly/2swY 7A5	Engagement, planning, housing, method
RP3034	A Data Driven Collaborative Planning Approach for Developing Sustainable Medium Density Housing in Cities	2017	Gudes, O, Pettit, C., Glackin, S. and Leith, A.	Adelaide		Presentation	https://bit.ly/2swY 7A5	Data-driven approaches, geographic information systems (GIS), collaborative planning, medium density, digital-planning tools.
RP3035	Using agent based modelling to identify effective water conservation policies	2017		CRCLCL European Network for Housing	Belfast,	Factsheet		
RP3038	Barriers to low carbon living for low-income older Australians	2016	Judd, B., Liu, E. and Mataraarachchi, S.	Research	Ireland	Presentation		

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	It's not easy being green, especially when affordable help is so hard to find	2016	Liu, E. and Judd, B.	The Conversation		Article	http://bit.ly/2nO9P ph	Renewable energy, energy efficiency, energy bill, Centrelink, low income households, solar panels, benefits
RP3038	Lower income barriers to low carbon living: Policy pathways to addressing barriers	2016	Liu, E., Judd, B. and Mataraarachchi, S.	CRCLCL		Report		
RP3038	Carbon reduction programs and lower income households in Australian cities	2016	Liu, E., Judd, B. and Mataraarachchi, S.	International High-Performance Built Environments Conference	Sydney	Paper	http://bit.ly/2qdH6 e5	Australian cities, lower- income households, carbon reduction programs, policy outcomes
RP3038	Lower income challenges to low carbon living in Australia	2017	Liu, E. and Judd, B.	Improving Residential Energy Efficiency Conference	Wollongong	Presentation	http://bit.ly/2qkAiH W	
RP3038	Challenges in transitioning to low carbon living for lower income households in Australia	In pres	Liu, E., Judd, B. and Santamouris, M.	Advances in Building Energy Research		Journal article		
RP3038	Power for all, or only those who can afford it? Impacts of energy deprivation on lower income Australian households' physical and social wellbeing	In review	Liu, E. and Judd, B.	Local Environment		Journal article		
RP3038	Procedural justice in low carbon living for lower-income households: An Australian case study	2017	Liu, E. and Judd, B.	Institute of British Geographers Annual Conference – New and emerging research within the green economy session	London	Presentation		
RP3038	Tenure as barrier to low carbon living	2017	Liu, E. and Judd, B.	State of Australian Cities Conference	Adelaide	Paper		
RP3038	Addressing Australia's worsening energy deprivation	2017	Liu, E. and Judd, B.	CRCLCL		Policy note		
RP3038	Don't fear boarding houses: they're probably not what you think	2015		The Conversation		Article	https://bit.ly/1RZp E0X	
RP3038	Energy costs hit low-income households hardest	2015		Sustainability Matters		Article	https://bit.ly/2Jd8B yM	
RP3044	Summary of existing processes for upgrading and maintenance of social housing properties	2018	Daly, D., Tibbs, M. and Cooper, P.	CRCLCL		Report		
RP3045	Living labs open innovation network: integration and products	2017	Morrison, G.M.	CRCLCL		Factsheet		
SP0006	The built environment: a tool & framework for creating economic, social & environmental value	2017	Summerhayes, S.	CRCLCL		Factsheet		
350000	Evidence-based practice and policy: a systematic review process for the built environment	2017	Nakagawa, S. and Lagisz, M.	CRCLCL		Factsheet		
SP0008	Low carbon built environment knowledge hub: accessible, concise, authoritative evidence	2017		CRCLCL		Factsheet		
SP0008	Low Carbon Built Environment Knowledge Hub Final Report Phase 1	2017	Graham, P., Lawrence, A. and Zwagerman, M.	CRCLCL		Report		
SP0008	Deep Learning – Future of Knowledge Discovery and Mapping	2017	Samarasinghe, G.	Inter-disciplinary Ecology and Evolution Lab		Blog	http://bit.ly/2E1Urx V	
SP0009	Best practice policy and regulation for low carbon outcomes in the built environment	2017	Harrington, P. and Toller, V.	CRCLCL		Report		
SP0009	Best practice policy & regulation for a low carbon built environment	2017		CRCLCL		Policy note		
SP0009	Leading the way - low carbon policies and measures in Australia's capital cities	2017	Harrington, P.	CRCLCL		Report	ISBN 9780992387839	
	Translating research into action. Understanding and extending utilisation of the CRC for Low Carbon Living to support the ASBEC industry roadmap to zero carbon buildings	2017	ClimateWorks Australia	ClimateWorks Australia		Report		

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SP0012	Cooling Western Sydney: Mitigating heat for comfort, health & sustainability	2017	Synnefa, A. and Santamouris, M.	CRCLCL		Factsheet		
SP0012	Cooling Western Sydney A strategic study on the role of water in mitigating urban heat in Western Sydney	2017	Santamouris, M., Storey, M. and Prasad, D.	Sydney Water		Report	https://bit.ly/2iXs8 aN	
SP0016	Reducing carbon through ambitious improvements to the building code energy requirements	2017		CRCLCL		Factsheet		
	Building code energy performance trajectory interim technical report	2018	Bannister, P., Robinson, D., Reedman, L., Harrington, P., Moffitt, S., Zhang, H., Cooper, P., Ma, Z., Ledo, L. and Green, L.	CRCLCL		Report	https://bit.ly/2xHZ XTF	Low carbon, regulation, built environment
	Building Code Energy Performance Trajectory Project. Interim Report. The Bottom Line. The household impacts of delaying improved energy requirements in the Building Code	2018	ASBEC and ClimateWorks Australia	ASBEC and ClimateWorks Australia		Report	https://bit.ly/2sFY Uhk	
Misc	Regenerative cities. Making cities work for people and planet. Background paper.	2017	Girardet, H.	CRCLCL		Report		
Misc	Draft framework for guidelines for sustainable cities and communities	2016	Prasad, D. et al.	CRCLCL		Report		
Misc	Cooling cities. Strategies and technologies to mitigate urban heat. Discussion paper.	2017	Yenneti, K., Santamouris, M., Prasad, D. and Ding, L.	CRCLCL		Report		
NP1003	Community tariffs for embedded electricity networks	In review	Rowe, K., Pudney, P., and Berry, S.	Energy Policy		Journal article		Embedded electricity networks, community tariffs
NP1004	Identify overheating on the top-floors of energy-efficient multi-level dwellings	In review	Sharifi, S., Saman, W., Alemu, A. and Whaley, D.	Building and Environment		Journal article		
NP1006	Child friendly precinct design for low carbon living: improving policies and decision making tools	2015	Gilbert, H.	State of Australian Cities Conference - PhD Symposium	Gold Coast, Australia	Presentation		Child friendly cities, active travel, active plan, car dependence
NP1006	Child friendly precinct design for low carbon living: improving policies and decision making tools	2015	Gilbert, H.	UniSA, School of NBE Research Colloquium	Adelaide, Australia	Presentation		Child friendly cities, active travel, active plan, car dependence
NP1006	Child friendly precinct design for low carbon living: improving policies and decision making tools	2015	Gilbert, H.	CRCLCL Annual Participants Forum	Sydney, Australia	Poster		Child friendly cities, active travel, active plan, car dependence
NP1006	Child friendly precinct design for low carbon living: improving policies and decision making tools	2015	Gilbert, H.	UniSA CRCLCL Symposium	Adelaide, Australia	Presentation		Child friendly cities, active travel, active plan, car dependence
NP1006	Child friendly precinct design for low carbon living: improving policies and decision making tools	2016	Gilbert, H.	CRC Low Carbon Living Annual Participants Forum	Sydney, Australia	Poster		Child friendly cities, active travel, active plan, car dependence
NP1006	Child friendly precinct design for low carbon living: improving policies and decision making tools	2016	Gilbert, H.	UniSA CRCLCL Symposium	Adelaide, Australia	Presentation		Child friendly cities, active travel, active plan, car dependence
NP1006	Sustainability starts with children: Child friendly precinct design for active travel and active play	2016	Gilbert, H.	Australian Climate Change Adaptation Research Network for Settlements and Infrastructure, 12th National Forum,	Adelaide, Australia	Presentation		Active travel, active play, car dependence, child friendly cities
NP1006	Small feet big footprints: child friendly cities for low carbon living	2016	Gilbert, H. and Allan, A.	Urban Transitions Global Summit	Shanghai, China	Poster		Child friendly cities, low carbon living, active travel
NP1006	Small feet big footprints: child friendly cities for low carbon living	2016	Gilbert, H.	Institute of Australian Geographers Conference	Adelaide, Australia	Presentation		Child friendly cities, low carbon living, behaviour change

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NP1006	Unlocking the social and environmental benefits of child friendly places through active travel and active play	2018	Gilbert, H., Pieters, J., and Allan, A.	State of Australian Cities Conference 2017	Adelaide, Australia	Paper	DOI: 10.4225/50/5b302 f00342fc	Active travel, active plan, car dependence
NP1006	Unlocking the social and environmental benefits of child friendly places through active travel and active play	2017	Gilbert, H., Pieters, J., and Allan, A.	State of Australian Cities Conference 2017	Adelaide, Australia	Presentation		Active travel, active play, car dependence
NP1006	Child friendly precinct design for low carbon living: improving policies and decision making tools	2017	Gilbert, H.	CRCLCL Annual Participants Forum	Melbourne, Australia	Poster		Child friendly cities, active travel, active plan, car dependence
NP1006	Child friendly precinct design for low carbon living: improving policies and decision making tools	2017	Gilbert, H.	UniSA CRCLCL Symposium	Adelaide, Australia	Presentation		Child friendly cities, active travel, active plan, car dependence
NP1006	Women and Children Step Away from the Car	2017	Garrard, J. and Gilbert, H.	Radio Adelaide	Adelaide, Australia	Radio podcast	https://www.cbaa. org.au/article/step -away-car	Children's travel habits, gender and active travel
NP1006	Child-centred sustainable travel policies for better and longer-lasting outcomes	2017	Gilbert, H.	Australian Walking and Cycling Conference 2017	Adelaide, Australia	Presentation		Sustainable mobility, children's travel patterns
NP1006	Children and sustainable mobility: small feet making smaller carbon footprints	2018	Gilbert, H., Whitzman, C., Pieters, J., and Allan, A.	Australian Planner	1-8	Journal article	https://doi.org/10. 1080/07293682.2 018.1480500	Child friendly cities, sustainable travel, car dependence, active travel, carbon emission reduction
NP2003	Business models for sustainability. In Guerra-Santin et al. Living Labs	2016	Burbridge, M. and Morrison, G.	Springer	391-403	Book chapter	ISBN 978-3-319- 33527-8	Living laboratories
NP2003	If Living Labs are the answer – What's the question? a review of the literature	2016	Burbridge, M.	Procedia Engineering	180, 1725- 1732	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.335	Triple helix, living lab, collaboration, partnership, leadership
NP2003	Happy homes – the relationship between homes and mental wellbeing: a review of the literature	2016	Burbridge, M. and Morrison, G.	7th International Conference on Energy and Environment of Residential Buildings	Brisbane, Australia	Paper	DOI: 10.4225/50/58107 40eae22a	
NP2003	Do as I say, don't do as i do, let alone do as i've done. A study of Australian universities' collective response to climate science. In Sayigh, A. (Ed). Transition Toward 100% Renewable Energy	2018	Burbridge, M.	Springer	49-58	Book chapter		Climate change, leadership, environmental management, partnership
NP2003	Australia's universities are not walking the talk on going low-carbon	2017	Burbridge, M.	The Conversation		Article	https://bit.ly/2K8x U1n	
NP4002	Application of a green infrastructure typology and airborne remote sensing to classify and map urban vegetation for climate adaptation	2016	Bartesaghi Koc, C., Osmond, P., Peters, A., and Irger, M.	Climate Adaptation Conference	Adelaide, Australia	Paper		
NP4002	A methodological framework to assess the thermal performance of green infrastructure through airborne remote sensing	2016	Bartesaghi Koc, C., Osmond, P., Peters, A., and Irger, M.	Procedia Engineering	180, 1306- 1315	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.293	Urban heat island, green infrastructure, typology, local climate zones, urban micro climate, remote sensing, evapotranspiration
NP4002	Mapping and classifying green infrastructure typologies for climate-related studies based on airborne remote sensing data	2017	Bartesaghi Koc, C., Osmond, P. & Peters, A.	GrenInUrbs Conference	Orvito – Italy	Paper		
NP4002	Mapping local climate zones for urban morphology classification based on airborne remote sensing data.	2017	Bartesaghi Koc, C., Osmond, P., Peters, A., and Irger, M.	JURSE Conference,	Dubai - UAE	Paper	https://doi.org/10. 1109/JURSE.201 7.7924611	Buildings, vegetation mapping, remote sensing, laser radar,

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								spatial resolution, software, land surface
NP4002	Towards a comprehensive green infrastructure typology: A systematic review of approaches, methods and typologies. In Urban Ecosystems	2017	Bartesaghi Koc, C., Osmond, P. and Peters, A.	Urban Ecosystems	20(1), 15-35	Book chapter	ISSN: 1083-8155	Urban greening, classification schemes, typologies, systematic review, ecosystem services, spatial scales
NP4002	Three minute thesis competition. Finalist 2017 presentation	2017	Bartesaghi Koc, C.	You tube video		Video	www.youtube.com /watch?v=0ea1NL ar6VM&t=7s	
NP4002	Evaluating the cooling effects of green infrastructure: A systematic review of methods, indicators and data sources	2018	Bartesaghi Koc, C., Osmond, P. and Peters, A.	Solar Energy	166, 486-508	Journal article	https://doi.org/10. 1016/j.solener.20 18.03.008	Urban greening, thermal comfort, urban heat island, urban climatology, temperature mitigation, ecosystem services
NP4002	Understanding land surface temperature differences of Local Climate Zones based on airborne remote sensing data	2018	Bartesaghi Koc, C., Osmond, P., Peters, A., and Irger, M.	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing		Journal article	https://doi.org/10. 1109/JSTARS.20 18.2815004	
	Mapping and classifying green infrastructure typologies for climate-related studies based on remote sensing data	In review	Bartesaghi Koc, C., Osmond, P. and Peters, A.	Urban Forestry and Urban Greening		Journal article		
ND4002	Mapping and classifying green infrastructure typologies for climate-related studies based on remote sensing data'	In review	Bartesaghi Koc, C., Osmond, P. and Peters, A.	Urban Forestry and Urban Greening		Journal article		
	Evaluating the cooling effects of green infrastructure: A systematic review of methods. indicators and data sources'	In review	Bartesaghi Koc, C., Osmond, P. and Peters, A.	Solar Energy		Journal article		
	Towards proactive retrofitting: developing a regenerative framework for building retrofits		Craft, W., Ding, L. and Prasad, D.			Journal article		Regenerative design, building retrofit, regenerative design principles, regenerative framework
	Co-benefits of low carbon policies in the built environment: An investigation into the adoption of co-benefits by Australian local government	2017	Karim, S.M., Thompson, S. and Williams, P.	Procedia Engineering	180, 890-900	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.250	Australia built environment, climate change, co-benefits, health and well being, liveability, local government, low carbon policy, urban planning
NP4005	Urban sustainable resilience values: driving resilience policy that endures	2016	Sanchez, A.X., van der Heijden, J., Osmond P and Prasad D	CIB World Building Congress	Tampere, Finland	Paper	https://bit.ly/2K9hx Sn	Urban, resilience, policy
NP4005	Are some forms of resilience more sustainable than others?	2016	Sanchez, A.X., Osmond, P. and van der Heijden J.	Procedia Engineering	180, pp. 881- 889	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.249	Urban, resilience, policy
NP4005	The untapped potential of information flows for long-term urban resilience policy	2016	Sanchez, A.X., Osmond, P. and van der Heijden J.	6th International Conference on Building Resilience - Building Resilience to Address the Unexpected	Auckland, New Zealand.	Paper	https://bit.ly/2MJr Gqm	Urban, resilience, policy
	Challenges and opportunities behind long-term urban resilience policy in Australia, the UK and the USA	2017	Sanchez, A.X., van der Heijden, J. and Osmond, P.	State of Australian Cities Conference	Adelaide, Australia	Paper	https://bit.ly/2ywh qPj	Urban, resilience, policy
NP4005	Resilient Policies for wicked problems: Achieving resilience in a complex and	2017	Sanchez, A.X., Osmond, P. and van der	Routledge.	London	Book chapter	ISBN	Urban, resilience,

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	uncertain world through information integration. In Sanchez, A.X., Hampson, K.D. and London. G. (Eds) Integrating information across built environments		Heijden J.				9781351783286	policy
NP4005	The city politics of the urban age: a literature review of urban resilience conceptualisations and policies	2018	Sanchez, A.X., van der Heijden, J. and Osmond, P.	Palgrave Communications	Special Issue	Journal article		Urban, resilience, policy
NP4007	Synthesis of calcium silicate from selective thermal transformation of waste glass and waste shell	2017	Herianto, Pahlevani, F., and Sahajwalla, V.	Journal of Cleaner production	172, 3019- 3027	Journal article	https://doi.org/10. 1016/j.jclepro.201 7.11.109	Calcium silicate compound, waste recovery, low carbon materials
NP4008	An evolutionary approach to single-sided ventilated façade design	2017	Marzban, S., Ding, L., and Fiorito, F.	Procedia Engineering	180, 582-590	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.217	Single-sided ventilation, façade design, genetic algorithm (GA), energy efficiency, ventilation efficiency, thermal comfort, visual comfort, multi-criteria assessment, genetic representation
NP4008	Façade optimization in a wind-driven ventilated residential building targeting thermal comfort, IAQ and energy consumption	2016	Marzban, S., Ding, L., Timchenko, V. and Irger, M.	International Journal of Environmental Science and Development	7, (5)	Journal article	10.7763/IJESD.20 16.V7.804.	Façade, genetic algorithm, optimization, ventilation
NP4005	Reconceptualization of climate classifications and climate analysis tools to support evaporative building cooling strategies in the hot humid tropics	2015	Diaz, C., King, S., and Osmond, P.	ICUC9 - 9th International Conference on Urban Climate	Toulouse, France	Paper		Evaporative cooling, tropical climatology, climate analysis, building climate classifications
NP4005	Precipitation and buildings: estimation of the natural potential of locations to sustain indirect evaporative cooling strategies through hot seasons	2015	Diaz, D., Osmond, P. and King, S.	Living and Learning: Research for a Better Built Environment: 49th International Conference of the Architectural Science Association	Melbourne, Australia	Paper	https://bit.ly/2JXsv hv	Precipitation, indirect evaporative cooling, hot climates, climate analysis
NP4005	Influence of rainfall on the thermal and energy performance of a low rise building in diverse locations of the hot humid tropics	2016	Diaz, C. and Osmond, P.	Procedia Engineering	180, 393-402	Journal article	https://doi.org/10. 1016/j.proeng.201 7.04.198	Evaporative cooling, natural cooling, hot humid tropics, wind driven rain, low rise building
NP4010	Studies on optimal application of building integrated photovoltaic/thermal system for commercial buildings in Australia	2017	Yang, S., Fiorito, F., Sproul, A. and Prasad, D.	Solar World Congress	Abu Dhabi	Presentation		Building integrated PV, façade, energy efficiency, thermal comfort
NP4011	PV in Australian apartment buildings – opportunities and barriers	2015	Roberts, M. B., Bruce, A., and MacGill, I.	APSRC	Brisbane	Paper		
NP4011	Using PV to help meet Common Property Energy Demand in Residential Apartment Buildings	2016	Roberts, M. B., Huxham, G., Bruce, A., and MacGill, I.	ASSEP	Sydney	Paper		
NP4011	Solar apartments	2016	Roberts, M.B.	CRCLCL Participants Forum	Sydney	Poster		
NP4011	Photovoltaics on multi-unit residential buildings - Australian strata: a case study	Under review	Roberts, M. B., Bruce, A., and MacGill, I.	Renewable and Sustainable Energy Reviews		Journal article		
NP4011	APVI Submission to the Victorian Government on the review of the general exemption order in response to the draft position paper	2016	Roberts, M.B. and Passey, R	VIC Government		Submission		
	PV for apartment buildings: Which side of the meter?	2017	Roberts, M. B., Bruce, A., and MacGill, I.	APSRC	Melbourne	Paper		
NP4011	Solar Apartments	2017	Roberts, M.B.	CRCLCL Participants Forum	Melbourne	Poster		
NP4011	Submission to the AEMC review of regulatory arrangements for embedded	2017	Roberts, M.B., Passey, R., Bruce, A. and	AEMC		Submission		

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	networks		MacGill, I.A.P.					
NP4011	Submission in response to the NSW Dept of Planning & Environment discussion paper on consumer protections	2017	Roberts, M.B., MacGill, I.A.P. and Passey, R.	NSW Government		Submission		
NP4011	Submission in response to the AEMC's distribution market model draft report	2017	Stringer, N., Roberts, M., and Young, S., Passey, R., Bruce, A. and MacGill, I.	AEMC		Submission		
NP4011	Collective prosumerism: Accessing the potential of embedded networks to increase the deployment of distributed generation on Australian apartment buildings	Under review	Roberts, M.B., Bruce, A., and MacGill, I.	EnergyCon	Cyprus	Paper		
NP5004	Quantifying greenhouse gas emissions: A review of models and tools at the precinct scale, Australia	2017	-j, , j-, ,j, -	WSBE	Hong Kong	Paper	https://bit.ly/2ysp2 Cm	GHG emissions, urban
	Modular system approach for modelling socio-technical transitions towards alternative energy infrastructures in urban areas	2017	Rojas, A., de Haan, F., Aye, L., and Candy, S.	MODSIM	Tasmania, Australia	Paper	https://bit.ly/2MJA xIC	Transitions modelling, low carbon, urban
NP5005	Behaviour change via social sanctions and shared electricity	2018	Burton, C., Candy, S., and Rismanchi, B.	ZEMCH18	Melbourne, Australia	Paper		Electricity conservation, applied behaviour analysis, home energy display, group dynamics, net zero energy community