

ENVIRO14



WASTE • WATER • CLEAN AIR • CLEAN ENERGY

Conference, Expo, Workshops & Tours

17 - 19 Sep 2014 • Adelaide Convention Centre



www.enviroconvention.com.au

Hosted by:



Government Partners:



ENVIRO'14 Partner Organisations:



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QUICK CONFERENCE OVERVIEW

Dates	Wednesday 17 – Friday 19 September 2014
Location	Adelaide Convention Centre
Expected participant numbers	500 + participants from Australia and Asia Pacific
Conference theme	Pathways for better business
Conference streams	The water, waste and energy nexus, waste management practices, resource realignment, recycling technologies, odour control and management, new materials development, finance, policy and R&D
Website	www.enviroconvention.com.au
Contact	Waste Management Association of Australia Phone 02 8746 5000 Email registration@enviroconvention.com.au

Registration fees: Early bird closes 31 July, for the full fee information visit www.enviroconvention.com.au



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The Australian Water Association (AWA) and Waste Management Association of Australia (WMAA) are pleased to continue their longstanding partnership by inviting you to join us in Adelaide to celebrate this premier national assembly of the environment and sustainability industry.

Established in 2000, ENVIRO'14 is the eighth event in a series that is Australia's largest meeting of business and the environment.

The primary objective of ENVIRO is to assemble the leaders of the Australian environment industry, business and policy makers to facilitate cross-fertilisation and networking opportunities across a wide-range of areas including waste management, resource recovery, water, clean air, energy, innovation and integration.

The conference is complemented by a trade exhibition which will showcase products and technologies available to Australian businesses and consumers to enable them to make informed business decisions.

We look forward to welcoming you to Adelaide and to the conference.



Jonathon McKeown
CEO, Australian Water Association



Val Southam
CEO, Waste Management Association of Australia

On behalf of the ENVIRO'14 Organising Committee and our partners from industry and government, we extend a warm invitation to join us in Adelaide from 17 to 19 September for ENVIRO'14 – Pathways for better business.

ENVIRO'14 will explore the integration of waste, water, clean air and energy sectors. By attending, you will hear about cutting-edge technologies, business and communication models, which will help position all industries to profit from future opportunities.

Delegates will be spoilt for choice with a selection of tours and professional development workshops on day one, five concurrent streams throughout days two and three, five renowned keynote speakers, a trade exhibition and networking functions.

Don't miss your opportunity to stay in touch with the latest policies, technology and industry practices. Register today for this stimulating and inspiring program.



Trixie Smith
Technical Program Director



Geoffrey Webster
Program Manager





Dr Jonathan Trent

Jonathan received his Ph.D. in Biological Oceanography at Scripps Institution of Oceanography. He worked at the Boyer Centre for Molecular Medicine at Yale Medical School, studying cell adaptation mechanisms to high temperature. At Argonne National Laboratory he developed biotechnology and bioremediation research using organisms from extreme environments. In 1998, he moved to NASA Ames Research Centre to be part of the newly established Astrobiology Institute. Shortly after coming to NASA, he formed the Protein Nanotechnology Research Group and became an Adjunct Professor at UC Santa Cruz in the Department of Bio molecular Engineering. In 2007, with support from Google, he shifted his research focus to Global Research into Energy and the Environment at NASA (GREEN) and in 2008 he invented OMEGA (Offshore Membrane Enclosures for Growing Algae). Jonathan has raised \$10.8M from NASA and the California Energy Commission to evaluate the feasibility of the OMEGA system to provide sustainable biofuels from wastewater and CO₂ without competing with agriculture for water, fertilizer, or land; to provide solar electricity from the offshore platform; to recycle wastewater as potable water, and to supplement food supplies by providing an infrastructure for aquaculture. He is now leading the "OMEGA Global Initiative" to establish the first OMEGA demonstration project in a protected bay somewhere in the world. In addition to his work at NASA and UC Santa Cruz, Jonathan is an adjunct professor in Japan at Tokyo University for Agriculture and Technology and a lifetime fellow of the California Academy of Science. He has been identified as one of the PE100.



Ben Hewett

Ben is the South Australian Government Architect and Executive Director of the Office for Design and Architecture SA (ODASA). In his role, Ben provides strategic advice to government for major projects, programs and policy. Ben advocates for the value of design by working across state and local government and with industry and academia. He leads South Australia's Design Review Program, chairing a number of precinct and project specific panels.

Ben was the Executive Director of the Integrated Design Commission SA 2010-2012. During this period, Ben was also Director of "5000+: an Integrated Design Strategy for inner Adelaide". 5000+ was a collaborative national pilot project involving the three tiers of government working on the creation of a design-based vision for Adelaide.

Prior to his roles in South Australia, Ben was a Senior Lecturer with the University of Technology School of Architecture teaching and researching Design and Professional Practice; and Director of Offshore Studio, an architectural design research practice. He was previously Design Director with Crone Partners Architecture Studios, leading master plans, commercial towers, residential and mixed-use developments in Sydney, Newcastle, Brisbane, Melbourne, as well as China and the United Arab Emirates. As a Design Architect at the NSW Government Architect's Office, graduating from the prestigious cadet program, Ben worked on a diverse range of public projects and programs including the Sydney Conservatorium of Music, Circular Quay Redevelopment, the Residential Flat Design Code (supporting SEPP 65) and Parramatta Children's Court.





Mayor Felicity-ann Lewis

Mayor Lewis became President of the Australian Local Government Association (ALGA) in September 2012, having previously been Vice President since 2010 and a member of the board since 2009.

Mayor Lewis hails from South Australia and is the City of Marion's first-ever female Mayor and the longest serving Mayor of more than thirteen years. As an advocate for local government, Mayor Lewis has promoted Marion Council and the community by developing strong alliances with all levels of government and has established good working relations with neighbouring councils.

Mayor Lewis is a passionate supporter of reform in local government and was President of the Local Government Association of South Australia in 2009/11. She is also the Disability Champion for Local Government in Australia. Mayor Lewis is a Senior Lecturer in Health Education at Flinders University focussing on health promotion and health education. She has recently been awarded the degree of Doctor of Education..

With a strong interest in environmental issues, Mayor Lewis was appointed as a member of South Australia's Natural Resources Management Council in 2010 and has been reappointed for a further 3 year term. She has a passion and commitment for reconciliation and has been involved in a number of committees to advance this important issue.

Mayor Lewis currently serves as a People of Australia Ambassador and most recently, has been announced as the 2014 Australian of the Year for South Australia.



Richard J. Pope

Richard directs the odour control services for Arcadis, a global company of 22,000. He has worked on air quality and odour related issues for more than 30 years, conducted odour projects at over 250 municipal and industrial facilities across the USA and internationally, been personally involved in the planning and design of over 200 odour control technology systems, and has given over 100 presentations at state, national and international conferences.

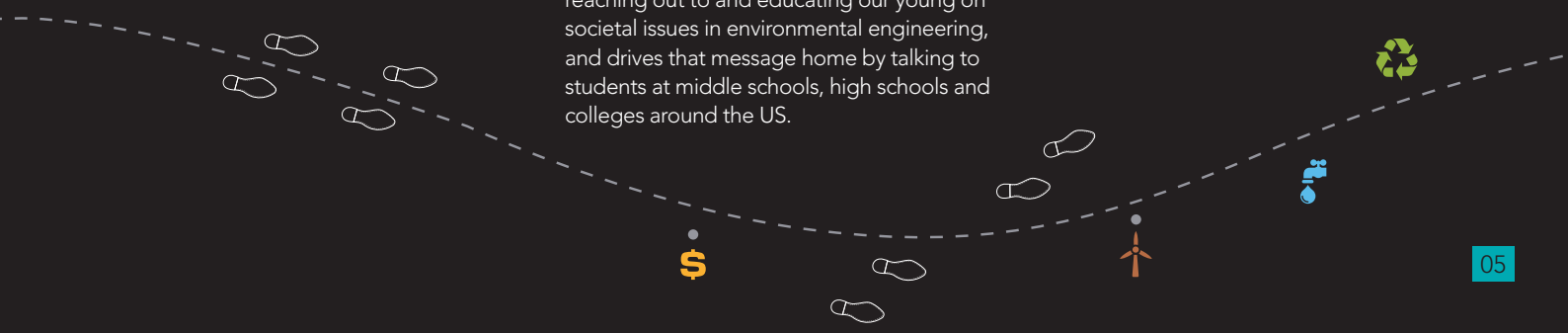
Richard manages a centralised team of dedicated odour specialists who provide full-service, long-term odour control planning by conducting field investigations, performing odour dispersion modeling to further define off-site impacts, and assisting in selecting the level of control required. His background includes developing immediate and long term odour control and corrosion plans that emphasize simple solutions where viable and innovative and/or sophisticated solutions where necessary, but always developed in concert with the owner through careful evaluation, planning and staging.

Richard has a Master's Degree in Environmental Engineering, is a registered professional engineer and is Board Certified by the American Academy of Environmental Engineers and Scientists (AAEES). He is the immediate past chair of the Water Environment Federation's (WEF's) Air Quality and Odour Control Committee, a contributing author on several odour-related text books sponsored by WEF/ASCE, and a member of the Water Environment Research Foundation (WERF) sub-committee that reviews wastewater collection system and wastewater treatment plant odour related research projects. As Chair of the Kindergarten through 12th Grade (K-12) Committee for the AAEES, he believes in reaching out to and educating our young on societal issues in environmental engineering, and drives that message home by talking to students at middle schools, high schools and colleges around the US.



Jon Dee

Jon is the Managing Director and was the founding Chairman of DoSomething!. He is the 2010 NSW Australian of the Year and one of Australia's most influential environmental campaigners. Since 1992, he has inspired millions of Australians to make positive environmental and social change. In 1991 Jon and Pat Cash founded the environment group Planet Ark. In his 15 years heading up Planet Ark, Jon instigated National Recycling Week, the National Recycling Hotline, and RecyclingNearYou.com.au which is used by over a million Australians every year. He also founded National Tree Day with Olivia Newton-John, an event for which 2 million volunteers have planted over 15 million trees. Jon founded World Environment News, the world's leading environmental news service used annually by eight million people. In a personal capacity, Jon initiated the successful lobbying campaign for Australia's three year phase-out of incandescent light globes. In 2008, Jon joined Pat Cash and Tina Jackson to found DoSomething!. Since its inception, the organisation has established a series of innovative campaigns to bring about real and measurable change.





**DAY 1:
WEDNESDAY
17 SEPTEMBER
2014**

TOURS

INDUSTRY TOUR: Turning water into wine

Time: 0900 - 1700

Limit: 30

For those interested in recycled water initiatives and local government sustainability policy.

This story starts at the Christies Beach Waste Water Treatment Plant where you will be met by the first of today's experts who will share with you the story of a successful micro utility. The tour will call into the Aldinga Treatment Plant, past the Sellicks Hill Pumping Station and onto the wineries so that you can see the extent and complexity of the scheme. Along the way experts will talk to you about the Willunga Basin Water scheme and how it supports the local wine industry.

Lunch on regional produce and taste Gemtree wine grown using biodynamic and sustainable farming practices. Talk to the chief wine maker about Gemtree's approach to winemaking. After lunch Onkaparinga Council will take you on a guided tour of their water sensitive urban design applications. Stretch your legs with a walk through the Hart Road wetland while you hear about the broader sustainability initiatives being undertaken by the City of Onkaparinga, the largest council in SA.

INDUSTRY TOUR: Developing water, waste and energy resources

Time: 0900 - 1600

Limit: 30

For those interested in materials development, waste recycling and advanced manufacturing.

This session starts with an industry tour of Wingfield Waste Management Facility and ResourceCo C&D Waste Recycling. From there the tour heads to the Ian Wark Centre of Materials Research, University of SA, Mawson Lakes. This Centre is unique in Australia and you will experience first hand examples of hydrogen fuel cell technology, nano technology and e-waste applications. Then to Salisbury wetlands for lunch and a presentation on innovative water purification technology and City of Salisbury sustainability initiatives. This visit concludes with a visit to Australia's only solar panel manufacturing facility, Tindo Solar. The return trip to the city via Lightsview new urban development for visual of micro water utility in operation.

INDUSTRY TOUR: Waste management north of the city

Time: 1000 - 1600

Limit: 40

For those interested in waste management practices, construction and demolition waste, organics, composting and general recycling

See first hand MRF (Materials Recovery Facility) and award winning CDL (Container Deposit Legislation) at the Wingfield Waste Management Facility. Travel via Salisbury Wetlands where the bus will stop for morning lunch and meet up with another tour group. Then it is onto Jeffries Composting facility. Dublin Landfill will be the next stop with the return journey via NAWMA (Northern Adelaide Waste Management Authority) where you will see a major metropolitan recycling scheme in action.

WELCOME RECEPTION ENVIRO'14 Trade Exhibition

Time: 1800 - 2000

Date: Wed, 17 Sep 2014

Venue: ENVIRO Trade
Exhibition, Adelaide
Convention Centre



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WORKSHOPS

INDUSTRY TOUR: Waste management south of the city

Time: 0930 - 1700

Limit: 80

Sponsored by Solo Resource Recovery

For those interested in landfill management and resource recovery, organics and composting.

The tour starts with a visit to the Solo transfer station and MRF with a travelling detour through the newly developed Tonsley Clean Tech Park and the state of the art TAFE training facilities. After this you will join the Turning Water into Wine tour people for lunch at Gemtree Winery in McLaren Vale, followed by a visit to Peat's Garden Soils' organics/composting facility. The tour will return to the city via the SRWRA (Southern Region Waste Resource Authority) landfill where you will see the innovative Tarpomatic landfill cover in action.

INDUSTRY TOUR: Tonsley Clean Tech Industrial and Urban Development

Time: 1000 - 1500

Bus tour

Limit: 40

For urban planners, architects, designers project, contract and facility managers, clean tech industry, trainers and educators.

The former Mitsubishi site is being transformed into a state of the art combined sustainable industrial precinct and urban development. On this tour you will hear from CIC the developer of the site how they are future proofing the site to ensure operational costs are minimized and how waste and water are to be managed. You will be shown the first class industrial and apprentice training facilities and laboratories on site. Lunch will be provided.

PROFESSIONAL DEVELOPMENT: Improving your business - design for manufacturers

Time: 0900 - 1130

Room: Riverbank 1

Limit: 50

Facilitated by: Enterprise Connect

This hands on workshop is suitable for companies, or people, involved in design and production.

You will learn tried and proven techniques for meeting the needs of your customers and hear from companies who have improved their bottom line as a result.

This workshop will appeal to designers, owners and manufacturers of businesses.

PROFESSIONAL DEVELOPMENT: Improving your business - design for the service sector

Time: 1230 - 1600

Room: Riverbank 1

Limit: 50

Facilitated by: Enterprise Connect

A practical workshop that will appeal to companies, or people, who provide a service to their customers. These include designers, entrepreneurs, business owners, managers and service providers.

Learn tried and proven techniques for meeting your customers' needs and hear from companies who have improved their bottom line as a result.

ACTION WORKSHOP: Potential for energy reduction in the mining and mineral industries

Time: 0900 - 1400

Room: Riverbank 3





Facilitated by: University of Adelaide

The Energy and Mining workshop is for business operators and researchers interested in hybrid technologies and decentralized energy systems.

Ross De Garis, Director of De Garis Consulting, will chair and facilitate this workshop. Joining Ross are the following notable speakers:

- Prof Stephen Grano, Director Institute for Mineral and Energy Resources, University of Adelaide: Future and Emerging Technology Options to Reduce Energy Consumption in the Mining, Smelting and Refining Sectors. Integration of Geothermal and Intermittent RE Sources into the Mining Sector
- Tom Cawley, Balance Energy: Energy Efficiency and Energy Auditing in the Mining and Mineral Sectors.
- Con Manias, FCT Combustion: Improved Energy Efficiency in the Mineral Processing Industry and the Use of Waste as Fuel.
- Dr Ross Haywood, Hatch: Renewable Energy in the Mineral Processing Sector.
- Mark Skeleton, FMG: Energy Options for Remote Mining Projects.

PROGRAM: DAY 2: THURSDAY 18 SEPTEMBER 2014

0730	Registration Open Tea and Coffee served in the Exhibition Area				
	OPENING PLENARY Room: Hall E				
0900	Welcome and housekeeping				
0915	Welcome to Country Uncle Lewis				
0920	Official Opening The Hon Ian Hunter MLC, SA Minister for Sustainability, Environment and Conservation				
0930	KEYNOTE PRESENTATION: How best practice in resource and energy efficiency can boost the bottom line! Jon Dee, Founder and Managing Director, Do Something!				
0950	KEYNOTE PRESENTATION: OMEGA: An ecology of technologies for energy, food, water, and a sustainable green economy Dr Jonathon Trent, OMEGA Project Scientist, Bioengineering Branch, NASA Ames Research Centre (USA)				
1030	Morning tea break served in the Trade Exhibition				
	AUSTRALIA'S ENERGY FROM WASTE FUTURE Room: Hall E Session sponsored by: 	BEST PRACTICE EXAMPLES OF RESOURCE RECOVERY AND INFRASTRUCTURE MANAGEMENT Room: Riverbank 1 Session sponsored by: 	EMERGING TECHNOLOGIES DRIVING SUSTAINABILITY IN THE WATER SECTOR Room: Riverbank 2	AIR QUALITY TECHNOLOGY AND SYSTEM SOLUTIONS Room: Riverbank 3	ENERGY, SUSTAINABLE BUILT ENVIRONMENT, ENERGY EFFICIENCY AND GENERATION Room: Riverbank 4 Session Chair: Stewart Martin, University of SA
1100	Session introduction SITA-ResourceCo Alternative Fuels	Session introduction	Session introduction	Session introduction	Session introduction
1105	Results of the latest technologies Dr Ben Ballard, State University of New York (USA) Hosted by: 	Innovative developments in kerbside resource recovery Presenter TBC, SKM Recycling (VIC)	The Schools Water Efficiency Program - Data logger technology driving water efficiency practices in Victorian schools Les Walker, Dept of Environment and Primary Industries (VIC)	Single Pass Biotrickling Filters: A solution for odour, not just H2S James Dwyer, CleanTeQ Limited (VIC)	Lochiel Park - 10 years on and lessons learnt Prof Wasim Saman, UniSA (SA)
1125	Opportunities for the waste industry through the RET and ERF/CFI explained Mark Williamson, Clean Energy Regulator (ACT)	Repurposing a brownfields facility to a modern integrated resource recovery precinct John Phillips, Wingfield Waste and Recycling Precinct (SA)	Class A water recycling at Barwon Water Adam Cunningham, Barwon Water (VIC)	Odour dispersion modelling for a cogeneration plant Dr Matthew Pickett, Jacobs (SA)	Lowering the carbon footprint of the built environment Prof Deo Prasad, UNSW (NSW)
1145	Energy from Waste Industry Perspective - Outcomes of the National Energy from Waste Symposium Dr Ron Wainberg, Hyder Consulting (NSW)	Mechanised Treatment of Organics in Victoria - From pilot to commercial scale production Simon Spencer, Veolia (VIC)	Nano-materials and microfluidic processing strategies in clean technology Prof Colin Raston, School of Chemical and Physical Sciences, Flinders University (SA)	Biofiltration for emission and odour control Tony Ryan, Odour Control Systems (NSW)	Lattice Boltzmann Method applied to building energy consumption prediction Edouard Walther, LMT Cachan (France)
1205	Alternate Fuel - A successful case study Brian McGrath, ResourceCo (SA)	The Business of Waste: Putting a value on our industry Richard Collins, WME Media (NSW)	Development of a UCG process water treatment demonstration plant Dr Veronique Levy, Linc Energy (QLD)	Advancement in the production of bio-surfactants leads to new technologies for the control of odour from waste Andrew Proud, Global Future Solutions (QLD)	The beautiful challenge of manufacturing solar panels in Australia Richard Inwood, Tindo Solar (SA)
1225	Complexity of turnkey EFW project delivery Andres Kronenberg, Hitachi Zosen Inova (Switzerland)	Presentation to be advised	Resource recovery from wastewater and trucked organic waste Phil Woods, Sydney Water (NSW)	The impact of high tallow load on biogas composition from a 1000L UASB digester treating unamended abattoir effluent Tamara Emms, Churchill Abattoir (QLD)	Evaluation of desiccant evaporative cooling system for Australian Climate Zones Dr Ramadas Narayanan, CQ University (QLD)
1245	Questions	Questions	Questions	Questions	Questions
1250	Lunch Break served in the Trade Exhibition				
	PLENARY Room: Hall E				
1400	KEYNOTE PRESENTATION: The role of design in innovation and integration Benjamin Hewett, South Australian Government Architect and Executive Director of the Office for Design and Architecture SA (ODASA)				
1430	KEYNOTE PRESENTATION: Malodour Frontiers – Yesterday, today, tomorrow Richard J Pope, Vice-President - ARCADIS (USA)				
1500	Afternoon Tea served in the Trade Exhibition				
	ENERGY FROM WASTE CASE STUDIES Room: Hall E Session sponsored by: 	POLICY, DRIVERS AND INNOVATION Room: Riverbank 1	SUSTAINABILITY CONSIDERATIONS IN WASTEWATER MANAGEMENT AND WATERWAY QUALITY Room: Riverbank 2	AIR QUALITY INDUSTRY BEST PRACTICE Room: Riverbank 3	CASE STUDIES - ENERGY, WASTE AND WATER Room: Riverbank 4 Session Chair: Monica Oliphant, Monica Oliphant Research
1530	Session introduction Rawtec	Session introduction	Session introduction	Session introduction	Session introduction
1535	Working together to make EFW work in Australia Anthony Douglas, Pheonix Energy Australia (VIC)	Waste policy and strategy Vaughan Levitze, ZeroWaste SA (SA)	Future water management targets: Meeting the challenge in dense urban areas Celest Morgan, E2DesignLab (VIC)	Managing odour at large scale waste composting facilities: a ten year case study at Canning Vale, WA Brendan Doherty, Southern Metropolitan Regional Council (WA)	Oil from algae project Ollie Clark, Muradel (SA)
1555	Anaerobic Biodigesters: Opportunities and challenges for evolving markets Dr Jayant Keskar, CRC for Contamination Assessment and Remediation of the Environment (SA)	Future directions in waste management and recycling for Australia Mark Rawson, Rawtec (SA)	Designing and Installing On-site Wastewater Systems – A technical guideline developed by the Sydney Catchment Authority Alison Kniha, Sydney Catchment Authority (NSW)	What's all the stink about? Tools and techniques for community wastewater management Dave Pennington, Australia Water Environments (SA)	Battery storage systems for frid augmentation in domestic applications Richard Turner, Zen Home Energy (SA)
1615	Energy from organic waste Dr Jayant Keskar, CRC CARE (state)	Taking account: Commercial drivers of waste and regulatory reform in South Australia - 2014 Tiana Nairn, Environment Protection Authority (SA)	Urban Water Quality Ponds – Are they the solution or the problem? David Butt (ACT)	Presentation title to be advised Warren McLean, Master Butchers Limited (SA)	Reducing CO2 emissions with electrical and thermal storage Dr Peter Pudney, UniSA (SA)
1635	Presentation to be advised	Understanding the financial drivers of kerbside recycling models Gary Whitehead, Visy (VIC)	Accommodation camps cost benefit and sustainability in sewage treatment Giselle Degrebrot, Water Infrastructure Science and Engineering (WA)	Presentation to be advised	Community Energy creating a win-win Rachael Hamilton, City of Campbelltown (SA)
1655	Discussion led by Dr Ballard	SA manufacturing and innovation policy Adam Reid, Department of State Development (SA)	Improving waterway quality through centralised sewerage systems Jon Theobald, South East Water (VIC)	Presentation to be advised	Energy, water and waste at the Australian Animal Health Laboratory Paul Godsell, CSIRO Australian Animal Health Laboratory (VIC)
1715	Questions	Questions	Questions	Questions	Questions
1720	Close Day 2				
1900	GALA DINNER Adelaide Oval				

PROGRAM: DAY 3: FRIDAY 19 SEPTEMBER 2014

0730	Registration Open Tea and Coffee served in the Exhibition Area				
0800	NETWORKING BREAKFAST Trade Exhibition Area				
	PLENARY Room: Hall E				
0900	Welcome				
0905	KEYNOTE PRESENTATION: Innovation across the nation Dr Felicity-ann Lewis, President ALGA & Mayor of City of Marion				
0935	PANEL DISCUSSION - LOW CARBON LIVING AND ITS IMPLICATIONS AND OPPORTUNITIES FOR BUSINESS Facilitated by: Hon.Robert Hill (Chair of the CRC for Low Carbon Living and University of Adelaide) Panellists: · Professor Deo Prasad, Head of the CRC for Low Carbon Living · Hon. Susan Close MP, Minister for Manufacturing and Innovation (SA) · John Ringham, CEO SA Water · Elisa de Wit, Partner & Head of Climate Change, Norton Rose Fulbright				
1030	Morning Tea Break served in the Trade Exhibition				
	PROGRESSIVE GREENWASTE AND FOOD ORGANICS PROGRAMS Room: Hall E	PRODUCT STEWARDSHIP PROGRAMS AND LEARNINGS Room: Riverbank 1	EFFECTIVE, EFFICIENT AND SUSTAINABLE WATER SERVICE DELIVERY Room: Riverbank 2	INNOVATIVE REGIONAL RESOURCE RECOVERY Room: Riverbank 3	THE FUTURE ENERGY MIX FOR AUSTRALIA Room: Riverbank 4 Session Chair: Wasim Saman, Barbara Hardy Institute, Uni SA
1100	Session introduction	Session introduction	Session introduction	Session introduction	Session introduction
1105	Food Waste Research: Leveraging the University and industry partnership Dr Anne Sharp, University of South Australia (SA)	Product Stewardship 2.0: Beyond TVs & computers in Australia John Gertsakis, InfoActiv (VIC)	Flexible finance and delivery options for water and wastewater infrastructure Jamie Roodenrys, Osmoflo Water and Wastewater Solutions (SA)	Fortnightly kerbside collection pilot Marina Wagner, Fleurieu Regional Waste Authority (SA)	What and How – The changing energy landscape in Australia Craig Oakeshott, Australian Energy Regulator (state)
1125	Turning household garden organics into a vital resource on farms in the Barwon Region of Victoria Gayle Seddon, Barwon Regional Waste Management Group (VIC)	Corporate Stewardship - True or false John Phillips, KESAB Environmental Solutions (SA)	Business for sustainability Ian Porter, Nous Group (NSW)	A Crushing Experience - Waste innovation Kerrie Tomkins, Grampians Regional Waste Management Group (VIC)	Regulation and its relationship to business Jeremy Schultz, Finlaysons (SA)
1145	Municipal food waste systems: lessons, costs and performance Justin Lang, ZeroWaste SA (SA)	Product stewardship: Key learnings from current experience Carmel Dollison, ANZRP (VIC)	Stopping money going down the drain: The dollar value of water sensitive urban design Celest Morgan, E2DesignLab (VIC)	Governance and implementation of a waste to resources approach Kelly Brooks, Melbourne Water (VIC)	Presentation to be advised
1205	Case study in food waste recovery Katherine Mansas, Sodexo Australia (WA)	Product Stewardship opportunities for State and Local Government Departments John Polhill, Sustainability Victoria (VIC)	From Water to Wine: Sustainable water solutions for Australian wine regions Mark Watson, Willunga Basin Water Corp (SA)	Think Lateral. Act Local - Challenges and opportunities for regional waste management Bill Grant, Blue Environment (VIC)	Geothermal and other renewables Terry Kallis, Petratherm (SA)
1225	A Wheelie Good Contract – Bankstown buys back their OWN Garden Organics Daniella Santucci, Bankstown City Council (NSW)	Pathways to paint stewardship in Australia Jade Barnaby, Sustainability Victoria (VIC)	Pilbara industrial water scheme options for dewatering surplus and large demands Giselle Degebrodt, Water Infrastructure Science & Engineering (WA)	Halve waste Mike Ritchie, MRA Consulting (NSW)	Review of the RET and the likely policy implications John Grimes, Australian Solar Council (ACT)
1245	Questions	Questions	Questions	Questions	Questions
1250	Lunch Break served in the Trade Exhibition				
	CHANGING PERCEPTIONS THROUGH COMMUNICATION AND EDUCATION Room: Hall E Session sponsored by: 	THE CIRCULAR ECONOMY AND INDUSTRIAL ECOLOGY Room: Riverbank 1	ENERGY, WATER AND WASTE NEXUS ISSUES Room: Riverbank 2	THE ROLE OF THE URBAN WATER SECTOR IN CREATING LIVEABLE COMMUNITIES Room: Riverbank 3 Facilitated by: Sally Armstrong, Sydney Water	INNOVATION-IMPLEMENTATION Room: Riverbank 4 Session Chair: Charlie Hargroves, Entrepreneurship, Commercialisation and Innovation Centre, University of Adelaide
1400	Session introduction Loren Mercier, City of Charles Sturt	Session introduction	Session introduction	Session introduction	Session introduction
1405	Presentation to be advised	Industrial Ecology: The missing link in sustainable resource management Grant Musgrove, Australian Council of Recycling (QLD)	Energy, waste and water leadership Ian Porter, Nous Group (NSW)	Liveability is increasingly coming to the fore of consideration in the planning and performance management of cities and regions. This session will explore the outcomes of WSAA's recent research project, exploring the contribution of the urban water sector towards: • Meeting social, environmental and economic needs of communities • Addressing community values and preferences for amenity, wellbeing and a sense of place • Resilience and sustainability – responsiveness to shocks and plans for long term development	The role of innovation in the transition to sustainability development Charlie Hargroves, Entrepreneurship, Commercialisation and Innovation Centre, University of Adelaide (SA)
1425	Partnerships on a passage to sustainability Richard Olesinski OAM, Keep Australia Beautiful National (SA)	Waste management that gives back Jan Fitzgerald, Coles	Opportunities for the waste, water and energy sectors under the Emissions Reduction Fund Elisa de Wit, Norton Rose Fulbright (VIC)		Improving communications with mainstream business Helen Millicer, One Planet Consulting (VIC)
1445	Is it time for a Re-Think? LaVergne Lehman, Grampians Central West Waste & Resource Recovery Group (VIC)	Presentation to be advised	Towards a new understanding of the balance between energy use and effluent quality Shona Fitzgerald, Sydney Water (NSW)		Getting value out of carbon emissions; innovations in waste treatment and CO2 conversion Prof Stefaan Simons, International Energy Policy Institute (SA)
1505	Getting collaboration right key to recycle right Simone Cunningham, ZeroWaste SA (SA)	Emergent technologies that will change the face of recycling Colin Barker, Advitech (NSW)	SA Water's research experiences in bridging the wastewater - energy nexus Dr Ben van den Akker, SA Water (SA)	Led by Sally Armstrong, Manager of People and Places at Sydney Water, this interactive workshop session will examine the findings of WSAA's recent report on the role of the urban water industry in contributing to liveability and will engage with a range of perspectives on this issue including water industry representatives, water utilities, developers and private sector participants.	From Grey to Green: Life support for human habitats Sheryn Pitman, Botanic Gardens of Adelaide (SA)
1525	The bin is mightier when explored! Simple mechanisms to improve recovery of materials and reduce waste at work Kathy Scarborough, KESAB Environmental Solutions (SA)	Resource recovery is our passion! Judith Alcorn, The University of Melbourne (VIC)	Preparing for the Unknown: Adapting Sydney Water for the potential impacts of climate change Natalie Quinn, Sydney Water (NSW)		Status, challenges and opportunities of cooperatives and private MSEs solid waste collection initiative Getachew Agwar, Addis Ababa University (ETHIOPIA)
1545	Questions	Questions	Questions		Questions
1550	Afternoon Tea Break served in the Trade Exhibition				
	CLOSING PLENARY Room: Hall E				
1615	Closing remarks Vaughan Levitzke, Zero Waste SA				
1630	Closing Drinks				

*While the information published in this brochure is correct at time of publication, ENVIRO reserves the right to alter or delete items from the program.
The organisers will not be liable for any cost or damage arising from any action based on the information contained within this website.



BECOME A MEMBER AND SAVE \$\$\$ ON YOUR REGISTRATION

Take advantage of the \$300 members discount by joining one of the participating associations before you register (Individual memberships range from \$110 to \$250).

For more information about membership please visit:

Australian Water Association (AWA)
www.awa.asn.au

Waste Management Association Australia (WMAA)
www.wmaa.asn.au

Australian Solar Council (ASC)
www.solar.org.au

Clean Air Society of Australia & New Zealand (CASANZ)
www.casanz.org.au

HOST ORGANISATIONS



Australian Water Association (AWA)

The Australian Water Association (AWA) is Australia's leading membership association for water professionals and organisations.

AWA is independent and not for profit. It plays an essential role in supporting the Australian water sector in the delivery of effective and sustainable water management practices. AWA's mission is to foster knowledge, understanding and advancement in sustainable water management – its science, practice and policy – through advocacy, collaboration and professional development.

AWA operates across all Australian States and Territories through an active branch network as well as maintaining extensive international links, including with the International Water Association.

Visit www.awa.asn.au



Waste Management Association of Australia (WMAA)

WMAA is the peak body for all stakeholders in the waste and resource recovery industry. WMAA's purpose is to support its members in achieving sustainable waste and resource management across Australia through leadership, collaboration, and knowledge sharing.

WMAA is the voice of the industry, the first port of call for government when seeking industry views and input. WMAA provides a range of services to support its members, including networking and events, high value information and learning, training, and industry development programs.

WMAA works closely with stakeholders to promote the value of the industry and to ensure the best possible outcomes for its members.

Visit www.wmaa.asn.au

PARTNER ORGANISATIONS



Australian Solar Council (ASC)

The Australian Solar Council (ASC) is a dynamic, not for profit organisation committed to the transition to a sustainable solar powered future for Australia.

Membership is open to all with an interest in solar energy and its role in securing our energy future.

The Australian Solar Council (ASC) promotes the research, development and adoption of solar energy. It advocates the adoption by all levels of government of appropriate policies and programs to promote the use of solar.

The Australian Solar Council (ASC) has been a catalyst for the development of solar applications for 50 years, bringing together the interests of industry, academia and the broader community.

Visit www.solar.org.au



Clean Air Society of Australia & New Zealand (CASANZ)

The Clean Air Society of Australia and New Zealand (CASANZ) is a non-governmental, non-profit organization first formed in the late 1960's to bring together people with an interest in clean air and the mechanics of air pollution.

Its focus is now expanded to encompass broader environmental management affairs, but with particular reference to air quality and related issues including climate change.

The Society is now the premier society in Australia and New Zealand for professionals who are interested in air quality.

Visit www.casanz.org.au

GOVERNMENT PARTNER



Government of South Australia

From the long established container deposit scheme and ban on lightweight plastic bags to our campaign to secure better management of the Murray-Darling Basin, South Australia continues to attract the attention of national and global leaders in environmental management and reform.

The South Australian Government has demonstrated leadership and innovation in climate change, water security, zero waste and renewable energy. We have led the nation in attracting investment for alternative energy sources such as geothermal energy, wind power and solar energy.

South Australia was the first state in Australia to introduce a feed-in scheme to encourage the rapid take-up of solar power. It was also the first State to introduce a regulatory framework tailored to the needs of the rapidly developing geothermal industry.

The South Australian Government recognises that 'green' is good business, presenting major opportunities for South Australian industry and offers several programs for companies in the cleantech area.

Visit www.sa.gov.au

PLATINUM SPONSOR



SKM Recycling

SKM Recycling provides recycling services to businesses, schools, commercial enterprises, government bodies, and to over 30 Councils in Victoria and South Australia.

Established in Melbourne in 1999, SKM Recycling is now an industry leader in sorting recyclables. It has material recovery facilities (MRF) in Coolaroo, Melbourne and Geelong; and transfer stations in Mornington, Laverton, Hallam, and Adelaide.

SKM Recycling's Coolaroo MRF—designed to be the most progressive recyclables recovery system—handles fully commingled or source-separated materials, sorting up to 98% of recyclable material from the recycling stream and processing 800–1000 tonnes per day. The Coolaroo MRF is the largest in the southern hemisphere. Using state-of-the-art sorting equipment, it is the only facility in Australia optically sorting seven grades of plastic.

All SKM Recycling's products (cardboard, mixed paper, whites, plastics sorted by type, glass sorted by colour, glass fines, aluminium and steel) are processed to the highest quality standards and are keenly sought by local and international customers.

SKM Recycling is a proudly Australian and family-owned business.

Founder and director: Joe Italiano. Business manager: Robert Italiano.

Visit www.skmrecycling.com

GOLD SPONSOR



Wingfield Waste & Recycling Centre

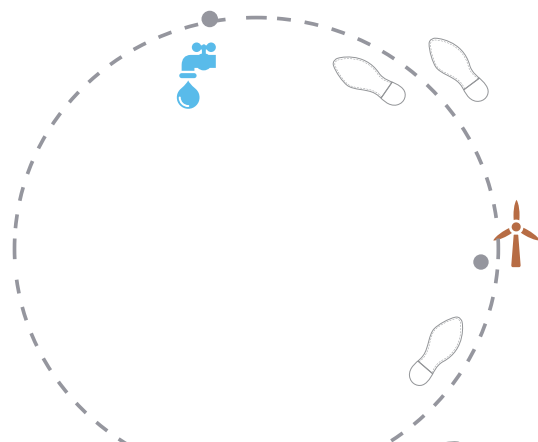
On what was Adelaide's main urban landfill operation in 2004, a vision was committed to transforming a 94-hectare 50 year old dump into a world-class recycling and resource recovery precinct.

Ignoring many doubters, this collaborative cluster of commercial recycling businesses now comprehensively recycles 30% of Adelaide's waste.

Recycling Precinct Partners include:

- Orora: paper and cardboard waste
- Jeffries: recycling 100,000 tonnes of green waste annually
- Adelaide Resource Recovery (ARR) transforming construction and demolition waste into recycled quarry materials and other valuable resources
- TPI (TransPacific Industries), accepting residual waste for the landfill facility at Inkerman, north of Adelaide.
- EDL Energy Developments Ltd harnessing methane gas to generate power.
- KESAB environmental solutions operate the Wingfield Education Centre providing an interactive learning experience on site for school and community visitation.

Visit www.wingfieldrecycling.com.au



SILVER SPONSOR



Visy

At Visy, we've always looked at things differently. Where most see waste, we see opportunity.

This innovative nature is stronger today than ever before. Not happy to rest on our achievements, we now strive to create a world where rubbish is a thing of the past and everything is recyclable.

At the same time we are seeking new ways to package the world. Ones that make transport more efficient, create less waste and wow people when they see our creations on the shelves.

Visit www.visy.com.au

TECHNOLOGY SPONSOR



Hitachi Zosen Inova

Zurich-based Hitachi Zosen Inova (HZI) is a global leader in energy from waste, operating as part of the Hitachi Zosen Corporation Group. Formed from the former Von Roll Inova, HZI acts as an engineering, procurement and construction contractor delivering complete turnkey plants and system solutions for energy recovery from waste.

HZI's solutions are based on efficient and environmentally sound technology, are thoroughly tested, can be flexibly adapted to user requirements, and cover the entire plant life cycle. The company's customers range from experienced waste management companies to up-and-coming partners in new markets worldwide. HZI's innovative and reliable waste and flue gas treatment solutions have been part of some 500 reference projects delivered since 1933.

Visit www.hz-inova.com

BREAKFAST NETWORKING SPONSOR



EPA South Australia

The Environment Protection Authority (EPA) is South Australia's leading environmental regulator, responsible for the protection of air and water quality, and the control of pollution, waste, noise and radiation.

We regulate and influence human activities to protect, enhance and restore the environment. We work with all levels of government, industry and communities to achieve a healthier environment and a prosperous and sustainable future for South Australia.

We are responsible for administering the Environment Protection Act 1993 and the Radiation Protection and Control Act 1982 and also exercise powers under other South Australian planning and environmental legislation.

Visit www.epa.sa.gov.au

LANYARD SPONSOR



Tarpomatic

Superior Environmental Solutions incorporating Tarpomatic Australia are the distributors of an automated tarping machine which provides the most cost effective, fuel efficient way to cover your landfill. With the ever increasing cost of using soil and that it decreases your landfill's life expectancy, an automated tarping machine *"The World's best Cover Up, Makes nothing but sense!"*

Visit www.tarpomatic.com.au

SESSION SPONSORS



City of Charles Sturt

The City of Charles Sturt is located west of Adelaide CBD extending to the coast with a population of approximately 105,000. As a leader in waste management we are committed to working in partnership with our community to reduce the amount of material sent to landfill. Council has developed a wide range of initiatives to support our community to improve recycling rates including a food waste recycling program, illegal dumping strategy, free e-waste recycling service; and community recycling events and education sessions.

Visit www.charlessturt.sa.gov.au



Rawtec

Rawtec is an independent, leading Australian specialist in waste, recycling and sustainability management. Since 2007, Rawtec has assisted hundreds of clients through providing in-depth assessments, practical advice and real solutions. The Rawtec consultancy team includes waste and recycling, engineering, sustainability, economic and behavioural specialists with combined experience spanning more than 40 years.

Visit www.rawtec.com.au

TECHNICAL TOUR SPONSOR



SITA-ResourceCo

SITA-ResourceCo, a JV between SITA Australia and ResourceCo, pioneered the Australian Waste to Energy sector. The first and still only dedicated Commercial and Industrial waste processing plant was commissioned in 2007.

Recycling over 95% of 200,000 tonnes received per annum, SITA-ResourceCo manufactures an alternative fuel product (Processed Engineered Fuel) for energy generation in the cement manufacturing process. This alternative fuel is a direct substitute to traditional fossil fuels and has considerable environmental benefits for end users.

Visit www.resourceco.com.au

SPEAKER SPONSOR - DR BEN BALLARD



Salisbury Water

Salisbury Water, a business unit of the City of Salisbury, specialises in urban stormwater harvesting and managed aquifer recharge. They currently supply 2000 million litres of 'fit for purpose' water to 500 customers in Adelaide's North. Salisbury Water can offer tailored water, waste water and waste to energy solutions.

Visit www.salisbury.sa.gov.au/Services/Salisbury_Water



Solo Resource Recovery

Solo is a 100% Australian owned and operated waste management and industrial services organisation providing solutions for government, business and households for over 80 years. The Adelaide Waste and Recycling Centre North Plympton specialise in the collection, transport, processing and disposal of all forms of waste including, recyclables, organics, construction and demolition and commercial and industrial waste. We have designed, built and manage waste facilities such as transfer stations and recycling plants and manage several landfill operations. We provide services to municipal, commercial and residential customers in New South Wales, Victoria and South Australia with operations just commencing in Western Australia.

Visit www.solo.com.au

PARTICIPATING SPONSOR



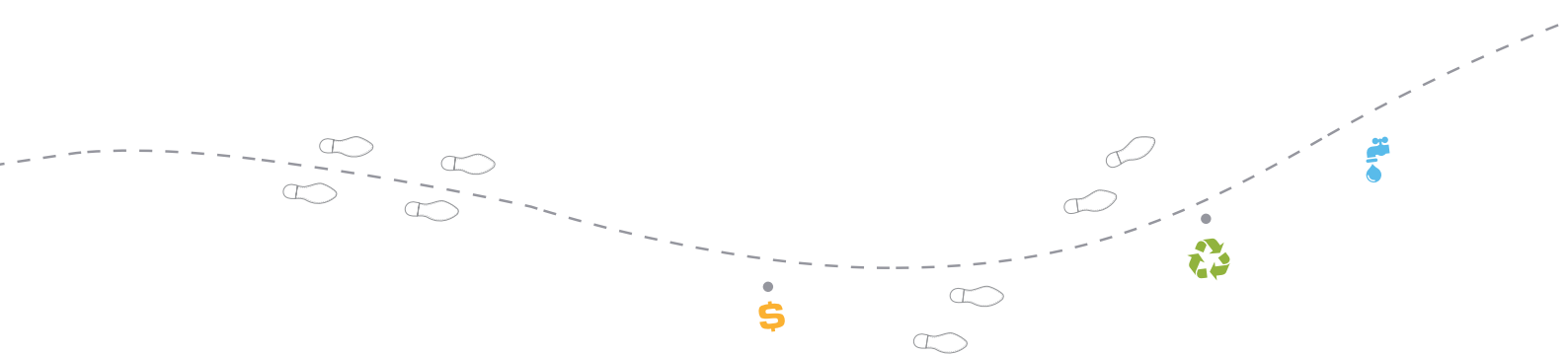
Australian Organics Recycling Association (AORA)

The Australian Organics Recycling Association limited (AORA) has formed as a result of the growth of the organics composting and recycling industry in Australia and the desire of processors to have independence of the waste industry.

AORA's principles:

- Improve Australia's response to issues of soil health, food security and human health.
- Support for a diverse, competitive, innovative, and profitable industry.
- Promotion of good practice and sound environmental management.
- Promotion of dialogue with local communities, government and regulatory authorities.
- Assist in promoting a sustainable, financially viable marketplace.
- The recovery and beneficial reuse of organic resources.
- AORA will operate to support its members, helping them to achieve their objectives through the development and promotion of good practice and the creation of a sustainable regulatory framework.

Visit www.aora.org.au



The ENVIRO'14 Secretariat has arranged special discounted rates at a selection of hotels close to the Adelaide Convention Centre. Details are also available at www.enviroconvention.com.au. To book, please follow the instructions provided for your selected hotel.



InterContinental Adelaide

★★★★★

North Terrace, Adelaide 5000
Distance to ACC: 30 Metres (adjacent to ACC)

Room Rates: Superior King Room \$220.00 per room per night
Riverview King Room \$250.00 per room per night
Club InterContinental King Room – Single, \$310.00 per room per night / Double, \$355.00 per room per night

Breakfast rate: Full cooked breakfast \$35 per person

Parking rate: \$40 per vehicle per night (Valet only)

InterContinental Adelaide provides excellent city centre accommodation that is conveniently located within the heart of the lively Riverbank Precinct. Adjacent to the Adelaide Convention and Adelaide Festival Centre and directly opposite the redeveloped Adelaide Oval which is accessed via the Riverbank pedestrian bridge. The hotel offers 367 guest rooms, two award winning restaurants, cocktail lounge bar, fitness centre and outdoor heated pool.

To book: <https://resweb.passkey.com/go/Enviro2014>

Crowne Plaza Adelaide

★★★★★

16 Hindmarsh Square
Distance to ACC: 1.3kms (5 - 7 minute walk)

Room Rates: Run of House \$185.00 per room per night

Breakfast rate: \$25.00 per person per day

Parking rate: \$36 per 24 hrs (valet only)

Crowne Plaza is Adelaide's hub for the savvy traveller. Perfectly located in the heart of this vibrant city, our award-winning Adelaide CBD accommodation offers modern, spacious room, understated style and superior facilities. With Adelaide's iconic attractions right at our doorstep, the hotel's convenient central location means you are only a short walk from many of Adelaide's sports and cultural attractions, including Rundle Street's fashion boutiques and lively café culture.

To book: <https://aws.passkey.com/event/11371614/owner/3457590/home>

Stamford Plaza Adelaide

★★★★★

150 North Terrace, Adelaide 5000
Distance to ACC: 350 Metres

Room Rates: Superior Room \$175.00 per room per night

Breakfast rate: Full cooked breakfast \$20 per person

Parking rate: \$20 per vehicle per night

Stamford Plaza Adelaide is the finest International 5-star hotel in Adelaide's Central Business District and ideally located on Adelaide's key cultural boulevard, North Terrace. Their excellent location offers guests the ability to stroll to the Adelaide Convention Centre, Adelaide Casino, Festival Centre and boutique shopping.

To book: Contact reservations on 08 8461 1111 or email: reservations@spa.stamford.com.au and quote EN1709. A valid credit card number is required to confirm the booking.

Mercure Grosvenor Hotel Adelaide

★★★★★

125 North Terrace, Adelaide 5000
Distance to ACC: 120 Metres

Room Rates: Economy Room (3 Star) \$119.00 per room per night
Standard Room (4 Star) \$159.00 per room per night

Superior Room (4 Star) \$174.00 per room per night

Privilege Room (4 Star) \$209.00 per room per night

Suites (4 Star) \$239.00 per room per night

Breakfast rate: Full cooked breakfast \$27 per person

Parking rate: \$18 per vehicle per night

The historic Mercure Grosvenor Hotel Adelaide is centrally located in the Adelaide CBD and ideally positioned opposite the Adelaide Convention Centre, Festival Centre, Casino and Adelaide Oval. The hotel offers a variety of 3 and 4 Star room types to suit the needs and budgets of leisure, conference and business travellers. All 4 star rooms have feather duvets, iPod docks, LCD TVs, pay per view movies, internet, hairdryers, tea & coffee facilities, iron and ironing board.

To book: Contact reservations on 08 8407 8888 or email stay@mercuregrosvenorhotel.com.au and quote 'Enviro'14'

BreakFree Adelaide



255 Hindley Street, Adelaide 5000
 Distance to ACC: 600 Metres

Room Rates: Studio Apartment from \$125 per night
 One Bedroom Apartment from \$145 per night
 Two Bedroom Apartment from \$175 per night

Breakfast rate: Continental \$9.95 (part of minibar), Guests may also go to Red Fox Cafe on Currie Street which can be charged back to the room.

Parking rate: \$15 per vehicle, per night

BreakFree Adelaide offers quality, comfort and convenience in the heart of the city's busy West End a 5 minute walk to the Adelaide Convention Centre. All apartments have lounge and dining areas, a private balcony, fully equipped kitchen, laundry, cable TV and in-house movies. Facilities available at BreakFree Adelaide include; 24 hour reception, room service, Restaurant and Bar, internet access, same day laundry and dry cleaning service and undercover car parking.

To book: Phone reservations on 08 8217 2512 and quote 'ENVIRO 2014 Conference'

Oaks Embassy



96 North Terrace, Adelaide 5000
 Distance to ACC: 50 Metres (opposite ACC)

Room Rates: One Bedroom Apartments \$159.00 per room per night
 Two Bedroom Apartments \$229.00 per room per night

Breakfast rate: Full cooked breakfast \$19.90 per person

Parking rate: \$18 per vehicle per night

Perfectly located on North Terrace in the heart of the CBD and opposite the Adelaide Convention Centre Oaks Embassy

Apartment Hotel offers contemporary one, two and three bedroom spacious apartment accommodation. Enjoy the hotel's luxurious facilities including superb indoor heated lap pool, sauna, spa, plunge pool, steam room, gymnasium. Oaks Embassy is a great base for business or pleasure.

To book: <http://oakshotelsresorts.com> and on the top left hand corner enter your location and/or property, date of arrival and number of nights stay with the personalised Corporate/Group/Promo Code - Enviro2014.

Oaks Horizons



104 North Terrace, Adelaide 5000
 Distance to ACC: 50 metres (opposite ACC)

Room Rates: One Bedroom Apartments \$159.00 per room per night
 Two Bedroom Apartments \$229.00 per room per night

Breakfast rate: Full cooked breakfast \$19.90 per person (in Oaks Embassy)

Parking rate: \$18 per vehicle per night

Located opposite the Adelaide Convention Centre in the heart of the CBD, Oaks Horizons offers spacious one and two bedroom apartment accommodation. Leisure facilities include an indoor heated lap pool, sauna, spa, plunge pool, gymnasium, steam room and a licensed cafe.

Oaks Horizons is the perfect place for business or pleasure. Each room feature full kitchen and laundry facilities, private balcony, broadband internet access and room service is available.

To book: <http://oakshotelsresorts.com> and on the top left hand corner enter your location and/or property, date of arrival and number of nights stay with the personalised Corporate/Group/Promo Code - Enviro2014.

Oaks iStay Precinct



185 Morphett Street, Adelaide, SA 5000
 Distance to ACC: 900 Metres

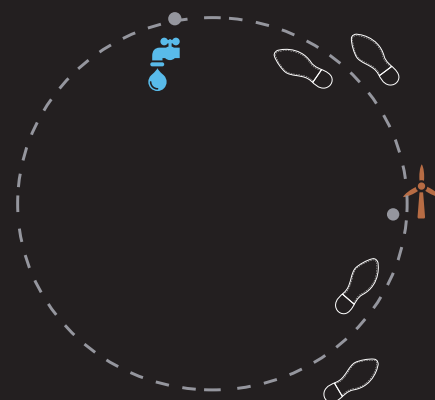
Room Rates: One Bedroom Deluxe Apartments \$129.00 per room per night
 Two Bedroom Apartments \$199.00 per room per night

* Rates are iStay Rates, which are not inclusive of daily housekeeping services.

Parking rate: \$18 per vehicle per night

Centrally located on Morphett Street in the heart of the CBD and only a short walk from the Adelaide Convention Centre, Oaks iStay Precinct Apartment Hotel offers contemporary one and two bedroom spacious apartment accommodation. Enjoy the hotels luxurious facilities including superb heated swimming pool, sauna, spa and steam room. Oaks Precinct is a great base for business or pleasure.

To book: <http://oakshotelsresorts.com> and on the top left hand corner enter your location and/or property, date of arrival and number of nights stay with the personalised Corporate/Group/Promo Code - Enviro2014.





ENVIRO14



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