



icRS 2025

***2025 International
Conference on
Resource
Sustainability***

July 16-18, 2025

Adelaide, Australia

www.icrsconf.com

The University of Adelaide

2025 International Conference on Resource Sustainability (icRS 2025)

Welcome to icRS 2025!

The sustainable development of human society depends on resources. Addressing critical societal challenges, such as climate change, resource depletion, and environmental protection, requires sustainable management of resources using interdisciplinary approaches.

The [International Conference on Resource Sustainability \(icRS\)](#) series serve as an international platform for researchers and practitioners around the world with diverse background and expertise to share the most recent ideas, outcomes, and practices on resource sustainability.

icRS embraces interdisciplinarity, welcoming contributions from ANY discipline including natural sciences, social sciences, and engineering on ANY aspect of resource sustainability. We define resource broadly, including physical resources, biological resources, and "misplaced" resources:

- physical resources: metals, non-metallic minerals, energy, water, etc.
- biological resources: food, forestry, land, ecological systems, etc.
- "misplaced" resources: air emissions, water pollutants, solid waste, etc.

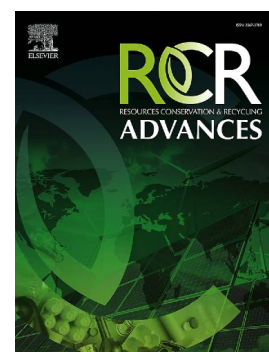
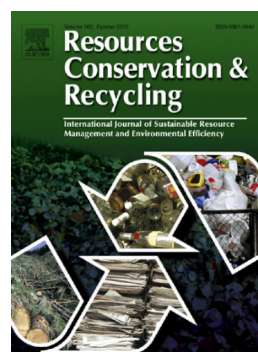
icRS 2025, hosted by The University of Adelaide, will include invited keynote speeches and parallel sessions on a variety of topics related to resource sustainability.

icRS 2025 is sponsored by the flagship journal in sustainable resources management *Resources, Conservation & Recycling* (RCR; 2024 Impact Factor: 10.9) and its sister journal *Resources, Conservation & Recycling Advances* (RCRADV; 2024 Impact Factor: 6.4). High quality papers presented at icRS 2025 will be recommended to special issues in these journals as well as other supporting journals.

We are looking forward to meeting you.

Prof. Ming Xu

icRS Conference General Chair



2025 International Conference on Resource Sustainability

(icRS 2025)

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icRS 2025 Program

Tuesday, 15 July 2025

14:00-18:00 Registration (The Braggs, The University of Adelaide)

Wednesday, 16 July 2025

Registration (The Braggs, The University of Adelaide)

8:30-16:00
9:00-9:30 Opening Ceremony
Professor **Jian Zuo**, Conference Chair, The University of Adelaide
Professor **Michael Goodsite**, Pro Vice-Chancellor, Research Operations and Commercialisation, The University of Adelaide
Professor **Jane Burry**, Head of School, School of Architecture and Civil Engineering, The University of Adelaide
Professor **Ming Xu**, General Chair and Distinguished Professor, Tsinghua University

9:30-11:00 Keynote Session
9-9:30am Professor Fu Guo, Beijing Information Science and Technology University & Beijing University of Technology
China's Circular Economy Practices in Electric Vehicle Electronic Control Modules
9:30-10am Professor Tuan Ngo, University of Melbourne
Leveraging AI and Modern Methods of Construction for Sustainable Resource Management in the Built Environment

Room The Braggs

11:00-11:30 Morning Tea and Networking

Parallel Sessions 1.1

Session 1: Carbon and Climate Futures

Session 2: Circular Economy and Resource Efficiency

Session 3: Life Cycle Thinking and Environmental Assessment

Session 4: Smart Systems and Data-Driven Sustainability

Session 5: Sustainable Behaviour and Social Transitions

Session 6: Sustainable Manufacturing and Industrial Innovation

Room Inkgarni Wardli B17

Hughes 322

Hughes 323

Horace Lamb 422

Santos G04

Santos G13

Chair **Houssini, Khaoula**

Ni, Zhiqin

Chang, Huimin

Feng, Tiantian

Ehsan Sharifi

Yasushi Sasaki

Diving into the complexities of the global plastics supply chain: a trade-linked material flow analysis.

Determination of Toxic elements in incinerated hospital waste.

Life cycle assessment of various metallurgical processing routes for producing metal commodities from polymetallic nodules from the Clarion-Clipperton Zone.

A method for extracting extensive field roads based on dual-temporal branch net.

Fostering Sustainable Innovation Behavior through Human-AI Collaboration: The Mediating Role of Intra-team Climate and the Moderating Effect of Task Complexity in Architectural Design.

Life cycle data challenge replacing plastics with alternatives: Potential environmental impacts of polyethylene packaging and alternatives in European markets.

11:30-11:50

Houssini, Khaoula (Tsinghua University); Li, Jinhui; Tan, Quanyin.

Bilawal, Raza (University of Peshawar); Bushra, Khan.

Wijaya, Jeanny (Kyoto University); Zun, Moe Thiri; McLellan, Benjamin Craig

Shen, Yunqi (Aerospace Information Research Institute, Chinese Academy of Sciences); Wang, Hongyan.

LAI, Lingzhi (The Hong Kong Polytechnic University); WEI, Hsi-Hsien; Hsu, Shu-Chien.

Tacker, Manfred; Gstöhl, Andrin; Hafner-Kuhn, Tasja; Rauch, Marius; **Nduagu, Experience (ExxonMobil Technology and Engineering Company);** Sotomayor, Luis; Richa, Kirti; Roux, Timothee; Auras, Rafael.

Investigating the ethical issues of AI application for climate change adaptation in Kenyan agriculture

Addressing the 'last mile' deficiency: a bi-objective model for e-waste community transshipment centre location problem.

Application of new sewage sludge fertilizer to tea cultivation and its impact on the environment.

Application of field spectroscopy and Sentinel-2 Satellite data for Estimating Leaf Nitrogen Concentration in Tobacco.

Sustainable consumption drivers and mechanisms: A critical realism approach.

Bridging the Gap Between Recycled Crude Phosphoric Acid and White Phosphorus.

11:50-12:10

Momanyi, Wiliter (University of Tsukuba); Matsui, Kenichi

Ni, Zhiqin (Xi'an Jiaotong-Liverpool University).

Katahira, Tomohito; Tao, Momoka; Miyahara, Shinnosuke; Yagi, Fumio; Yamaguchi, Takashi; **Yamauchi, Masahito (National Institute of Technology, Kagoshima College).**

Du, Xin (Chinese Academy of Sciences); Hu, Haoxuan; Xu, Jingyuan; Li, Qiangzi; Wang, Hongyan; Zhang, Yuan; Shen, Yunqi.

Jonna C. Baquillas (De La Salle University), Ivan Henderson V. Gue.

Yasushi Sasaki (Tohoku University); Siahaan, Andrey Stephan; Ishihara, Shingo; Iwahana, Ryota; Kashiwaya, Yoshiaki; Nagasaka, Tetsuya.

12:10-12:30	Global economic impact assessment of future water scarcity under climate change.	Future economic profitability potential of electric vehicle battery recycling from a multi-regional perspective.		How does lower cost choose the different portfolios of warrant products? A dynamic simulation analysis from the perspective of trading agents.	Evaluation of Urban Park Green Space Accessibility and Layout Optimization in the Context of an Aging Population.	Strength and sustainability aspects of blast furnace slag-silicomanganese fume-based cement mortars.
	Wang, Chenglong (Chongqing University); Shuai, Chenyang; Chen, Xi	Wimmer, Eric (Technical University of Munich)		Cui, Mingli (China University of Geosciences (Beijing)) ; Feng, Tiantian; Shen, Xianyue; Wang, Haoran.	Zhang, Xuan Feng (Southeast University) ; Gong, He; Yu, Shan Chu.	Bahraq, Ashraf A. (King Fahd University of Petroleum and Minerals) ; Nasir, Muhammad; Khalid, Hammad R.
12:30-13:30	Lunch Break					
	Parallel Sessions 1.2					
	Session 7: Carbon and Climate Futures	Session 8: Circular Economy and Resource Efficiency	Session 9: Life Cycle Thinking and Environmental Assessment	Session 10: Smart Systems and Data-Driven Sustainability	Session 11: Sustainable Behaviour and Social Transitions	Session 12: Sustainable Manufacturing and Industrial Innovation
Room	Inkgarni Wardli B17	Hughes 322	Hughes 323	Horace Lamb 422	Santos G04	Santos G13
Chair	Kandula, Ramanaiah	Bello Yañez, Xochitl Virginia	Tian, Jinping	Liu, Lirong	Li, Guomin	Saberian, Mohammad
13:30-13:50	The regional and personal disparities of global renewable energy use from four perspectives.	From past to future: mapping the trajectory of tire wear particles.	Future shifts in environmental footprints of the global agricultural system.	Rapid 3D instance proxy reconstruction of urban sewer networks from generic data: A learning-based and spatially explicit approach.	Managing stakeholder trust dynamics in industrial symbiosis.	Enhancing concrete sustainability: evaluating pyrolysed coffee biochar for concrete applications and field performance.
	Wang, Zhuanting; HE, HE (Shanghai University)	Ying, Lebing (The Hong Kong Polytechnic University) ; Hsu, Shu-Chien	Jetashree (Radboud University) ; van Zeist, Willem-Jan; Wicke, Birka; Stehfest, Elke; Luchtenbelt, Hermen.	Wu, Junhao (Huazhong University of Science and Technology) ; Ma, Ling.	Cheruvallil, Sana Yousef (Coventry University) ; Meadows, Maureen; Robins, Jessica; Yudoko, Gatot; Utama, Akbar Adhi.	Saberian, Mohammad (RMIT University) ; Li, Jie.
13:50-14:10	Green hydrometallurgical recovery of silver from waste photovoltaic cells using α-amino acids: Mechanism study and process development.	Lithium in sonora, mexico: a social life-cycle assessment.	Techno-economic analysis (TEA) and life cycle assessment (LCA) of a commercialized 2500 ton/d scale sludge-to-energy utility in a textile industrial park.	Environmental Impact of 5G Energy-Saving Techniques from a Socioeconomic Perspective.	Mapping the European Green Deal: a RAG-based knowledge graph analysis.	Water resource dispatching strategy considering resources conservation for dust suppression in dry bulk ports.
	Li, Huan (Guangzhou Institute of Energy Conversion (GIEC), Chinese Academy of Sciences) ; Gu, Jing; Wang, Yazhuo; Xie, Wenhao; Xie, Jianjun; Yuan, Haora.	Bello Yañez, Xochitl Virginia (CIEMAD-IPN) ; Martínez Rodríguez, María Concepción; Padilla Rivera, Alejandro.	Tian, Jinping (Tsinghua University) ; Yang, Kun	Wang, Kaixuan; Sun, Shuo; Guan, Youbang; Huang, Chong; Xiao, Pei; Liu, Lirong (University of Surrey) .	Nurpeiis, Ayazhan (Tsinghua University) ; Xie, Jinliang; Chen, Chuke; Xiong, Ruoxi; Cai, Zimeng; Wang, Ziqi; Li, Nan; Xu, Ming.	Guo, Jiaqi (Dalian University of Technology) ; Wang, Wenyuan; Kwong, Philip; Peng, Yun; Pei, Zihan; Li, Jiakang.
14:10-14:30	Spatio-temporal patterns and mitigation strategies of agricultural organic waste-related greenhouse gas emissions in China.	Green solvents for efficiently separate and recovery of polyethylene terephthalate (PET).	Retrieval augmented generation enhanced large language model life cycle sustainability assessment for renewable ammonia generation.	Does digital infrastructure promote regional inclusive green growth? An empirical study from China.	Pathways towards improved waste management: Integrating the roles of government, market, and society.	Evaluating losses from water scarcity and the benefits of water resource management measures to intercity supply chains in China based on water quantity and quality.
	Wu, Yue (China Agricultural University) ; Tian, Peiyu; Shang, Beier; Zhang, Weifeng; Li, Yangyang	Wang, Lei (Westlake University) ; Deng, Lulu.	Daniel, Thorin James (University of Surrey) ; Xuan, Jin; Liu, Lirong; Cai, Qiong; Xing, Lei; Xu, Xinli.	Lai, Tianxin (Chongqing University) ; Hong, Jingke; Liu, Bingsheng.	Tan, Shizheng (Taiyuan University of Technology School of Economics and Management) ; Li, Wei; Li, Guomin.	She, Yunlei (Beijing Institute of Technology) ; Chen, Jiayang; Zhou, Qi; Qu, Shen.

14:30-14:50	Decoupling relationship between electricity CO2 emissions and economic growth: Evidence from urban agglomerations, China	Exploring the circular economy future of lithium-ion batteries in Australia.	Design specifications and Life Cycle Assessment (ISO 14067) for a pyrolyzer economically optimal for moderate flows (500 to 1000 tons per annum) of waste biomass.	Exploring global railway technology evolution and SDG alignment via large language model-driven patent analysis.	Challenges of C&D waste recycling with regards to the public opposition: A case study of Victoria, Australia.	Multifaceted benefits of magnesium hydroxide dosing in sewer systems: Impacts on downstream wastewater treatment processes.
	Ge, Yuanyuan (Chongqing university) ; Xiang, Pengcheng	Zhou, Haiwei (The University of Melbourne) ; Li, Wen; Langdon, Rusty; Singh, Parkash J.; Wang, Peng.	Ladd, Brenton (Universidad Cientifica Del Sur)	Wang, Jiaming (The Hong Kong Polytechnic University) ; Hsu, Shu-Chien; Wang, Peng; Huang, Lei.	Behzad, Moein (RMIT University) ; Shoostarian, Salman; Maqsood, Tayyab; Jayasuriya, Sajani.	Cen, Xiaotong (University of New South Wales) ; Duan, Haoran; Hu, Zhetai; Yuan, Zhiguo; Zheng, Min.
14:50-15:10	Integrated carbon capture and methanation for valorisation of sludge: process optimization and performance evaluation	Development of sustainable hybrid composite material from agro and e-waste for thermal management in electronic packing.	Reliability and economic analysis of urban rainwater harvesting for non-potable water demand: cases of commercial buildings with large catchment.	Leveraging knowledge graphs for key technologies in intelligent non-coal mines construction and operation.	Resource constraints of energy transition: analysis of platinum demand in the hydrogen energy industry.	Spatiotemporal assessment of sustainable development in China's cold chain logistics for agricultural products: A dual-perspective approach.
	Wang, Nuo (The Hong Kong Polytechnic University)	Kandula, Ramanaiah (Siddhartha Academy of Higher Education)	Karim, Md. Rezaul (Islamic University of Technology (IUT)) ; Hossain, Md. Asif; Imteaz, Monzur.	Liu, Xuan (Wuhan University) ; Wang, Yang; Xu, Xiaofeng.	Li, Guomin (Taiyuan University OF Technology) ; Liu, Xiaoqin; Li, Wei; Li, Xin; Wang, Yaqi.	Zhu, Ziwei (Chongqing University) ; Tao, Fengming; Yuan, Beifei.
15:10-15:30	Development of 3D printed sustainable bio composite materials from biomass and e-waste for energy saving applications.	The emission reduction potential of "replacing plastic with bamboo" for takeout tableware in China.	Utilization of landfill-recovered aggregates in geopolymer concrete: A step towards circular economy.	Assessing the quality of recycled Low-Density Polyethylene (LDPE) pellets: Influence of source segregation on material properties and applications.	Assessing the Variability and Performance of Drinking Water Treatment Sludge as a Supplementary Cementitious Material.	Unveiling the virtual water use of China's rural residents through regional trade network.
	Kandula, Ramanaiah (Siddhartha Academy of Higher Education) ; AV, Ratna Prasad.	Wang, Wenhuan (Zhejiang University of Technology)	Mankhair, Roshan Vilasrao (Indian Institute of Technology Bombay) ; Chandel, Munish Kumar.	Dinesh, Adithya (Indian Institute of Technology Bombay) ; Chandel, Munish Kumar.	Liu, Jiarui; Liu, Yue; Zhuge, Yan (University of South Australia) .	Yang, Yaqi (Southwest University) ; Chen, Xi; Shuai, Chenyang.
15:30-16:00	Afternoon Tea Break and Networking					
	Parallel Sessions1.3					
	Session 13: Carbon and Climate Futures	Session 14: Circular Economy and Resource Efficiency	Session 15: Life Cycle Thinking and Environmental Assessment	Session 16: Smart Systems and Data-Driven Sustainability	Session 17: Sustainable Behaviour and Social Transitions	Session 18: Sustainable Manufacturing and Industrial Innovation
Room	Inkgarni Wardli B17	Hughes 322	Hughes 323	Horace Lamb 422	Santos G04	Santos G13
Chair	Wu, Huanyu	Kunanusont, Nattanaï	Yang, Yuantao	Wang, Yang	Martínez-Rodríguez, María-Concepción	Sadie, Homer
16:00-16:20	Retrieval augmented generation enhanced large language model life cycle sustainability assessment for renewable ammonia generation.	Multiscale optimization of China's power battery recycling: city-level pathways for pollution and carbon reduction in sustainable systems.	Decarbonization and equalization: The dual effects of supply chain restructuring within China.	Dynamic lifecycle emission assessment of photovoltaic technology in Australia based on AI-driven climate forecasting.	Educational trials to promote life cycle thinking for environmentally sustainable dietary transitions in China.	Spatial dynamics and decoupling of building material stock and economic development in the Guangdong-Hong Kong-Macao Greater Bay Area.
	Daniel, Thorin James (University of Surrey) ; Xuan, Jin; Liu, Lirong; Cai, Qiong; Xing, Lei; Xu, Xinli.	Tian, Xi; Peng, Fei (Nanchang University) ; Meng, Fanran; Liu, Yaobi	Yang, Yuantao (Beijing University of Technology) ; Yang, Haoyan; Zhang, Bin; He, Weijun.	Chen, Kehao (The University of Adelaide); Duan, Zhuocheng; Sheng, Yuan; Han, Jixuan.	Wu, Yinglei (University of Tokyo); Kurisu, Kiyo; Gao, Xiaofeng; Fukushi, Kensuke.	Huang, Yujin (City University of Hong Kong); Li, Yunyao; Sun, Shujie; Yan, Jinming; Dong, Liang.
16:20-16:40	Navigating wind turbine evolution, materials	Resource recovery potential of municipal solid waste from a	A lifecycle perspective of a new generation sustainable modified asphalt-rubber	Developing an activity-based framework for community	Policies to promote construction material	A comparative study of compressive strength and workability of concrete made

	challenges, and end-of-life in the 2050 energy transition.	city corporation area in Bangladesh.	ingrained with fly ash and pond ash.	energy management: a case in Guangzhou, China.	circularity: An integrated participatory systems model.	with river gravel and crushed rock.
	Gómez-Soto, Moisés (Tsinghua University) ; Li, Jinhui; Zeng, Xianlai.	Karim, Md. Rezaul (Islamic University of Technology (IUT)) ; Chowdhury, Iraj Mahmud; Khan, Munir Hayet; Imteaz, Monzur	Kaur, Harmandeep; Biligiri, Krishna Prapoorna (Indian Institute of Technology Tirupati) .	Liu, Xuan (Eindhoven University of Technology); Xu, Qian; Chang, Ruidong; Wang, Qian-Cheng.	Amarasinghe, Isuri (Griffith University); Stewart, Rodney; Sahin, Oz; Liu, Tingting.	Yacap, Neil Angelo; Sadie, Homer Tomurong (University of the Philippines Diliman); Sadie, Noriza Tibon.
16:40-17:00	Selling green electricity to SMEs of China: exploring main concerns and potential strategies.	Evaluating manure management strategies on material flow of agricultural system at the field-village-township level in China	Lignin and crumb rubber as sustainable bio-asphalt binders: harnessing industrial wastes in roadway infrastructure.	Estimating Construction and Demolition Waste through automated Detection of Building Changes: a Building Inventory Approach	Dietary structure and nutrition in Agro-pastoral Transitional Zone of southeastern Tibetan Plateau.	Dopamine and tannic acid surface engineering of recycled carbon fibers: Revolutionizing interfacial bonding in high-performance alkali-activated composites.
	Zhong, Cheng (China University of Geosciences Beijing) ; Feng, Tian-tian; Cui, Ming-li	Tian, Peiyu (China Agricultural University) ; Shang, Beier; Su, Yuao; Wu, Bingyan; Wu, Yue; Luo, Wenhai; Li, Guoxue; Li, Yangyang	Wah, Renuka; Kaur, Harmandeep; Biligiri, Krishna Prapoorna (Indian Institute of Technology Tirupati) .	Gong, Suxia (University of Liège); Brasseur, Amandine; Courard, Luc; Teller, Jacques.	Wang, Ling-en; Lu, Yiru (Institute of Geographic Sciences and Natural Resources Research, CAS); Li, Yunyun.	Li, Huanyu (Shanghai Jiao Tong University); Yang, Jian.
17:00-17:20	Bridging space and activity: ontology-based insights into urban park engagement.	A versatile direct recycling approach for Ni-rich Li-ion batteries degraded under various conditions via thermal treatment and solid-state reaction.	Estimating the embodied carbon and costs of concrete modular high-rise residential buildings in Hong Kong.	Modeling urban vulnerability to flooding using GeoAI: A multi-hyper graph approach to independent urban systems.	A criteria system of Environmental, Social, and Governance (ESG) in transportation based on Sustainable Development Goals (SDGs): How does it contribute to urban metro?	Is municipal solid waste incineration fly ash modified asphalt binder sustainable in building roadway infrastructure?
	Liu, Xuan (Eindhoven University of Technology) ; Feng, Zhaorong; Wang, Qian-Cheng.	Kunanusont, Nattana (National Science and Technology Development Agency) ; Tammawat, Phontip; Sesuk, Thanathon; Eiamlamai, Priew; Limthongkul, Pimpa.	Mankata, Lawrence Martin (The University of Hong Kong) ; Pan, Wei.	Wang, Wenrui (Wuhan University); Wang, Yang.	Ma, Haoran (The Hong Kong Polytechnic University); Lu, Shengfang; Ren, Jingzheng.	Hazim, Sheikh; Biligiri, Krishna Prapoorna (Indian Institute of Technology Tirupati); Ramaiah, B. J.
17:20-17:40	China's dining transition undermines food waste reduction efforts.	Production of granular planting soil using construction waste mud cake.	PET plastic recycling policies and sustainable construction: a mixed-methods study from a circular economy perspective.	Policy frameworks for managing end-of-life cross-laminated timber in the built environment: Comparative analysis and implementation pathways.	Regulation and management of constructed wetlands for domestic wastewater treatment in urban areas.	Utilization of waste glass as partial replacement for fine aggregates in concrete pavement blocks.
	Song, Yueyao (Tsinghua University) ; Liu, Jianguo.	Wu, Lingyi (Shenzhen University) ; Zhao, Bicen; Liu, Jian.	Han, Jixuan (The University of Adelaide) ; Sheng, Yuan; Duan, Zhuocheng; Chen, Kehao.	Duan, Zhuocheng (The University of Adelaide); Chen, Kehao; Han, Jixuan; Sheng, Yuan	Dominguez Solis, Diego (Instituto Politécnico Nacional); Martinez Rodriguez, Maria Concepcion; Ramirez Escamilla, Hector Guadalupe.	Villanueva, Krisha Anne; Sadie, Homer (University of the Philippines Diliman).
17:40-18:00	Cross-regional collaborative management network of construction waste in the Guangdong - Hong Kong - Macao Greater Bay Area.	Development of movable modular ecological system.			Governance of sustainability and sustainable public policies in Mexico.	Evaluation of Manufactured Sand as River Sand Substitute in Concrete in the Philippines.
	Wu, Huanyu (Shenzhen University) ; Shi, Chunhong; Long, Wujian; Mei, Liu; Xiong, Chen; Li, Lixiao.	Liu, Jian; Zhao, Bicen; Wu, Lingyi (Shenzhen University) .			Martínez-Rodríguez, María-Concepción (Instituto Politécnico Nacional); Ramírez-	Juco, Ronn Laurence; Geraldez, Ryan Gabriel; Sadie, Noriza Tibon (University of the Philippines

					Escamilla, Héctor Guadalupe; Domínguez-Solis, Diego.	Diliman); Sadie, Homer Tomurong.
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	Thursday, 17 July 2025.					
8:30-16:00	Registration (The Braggs, The University of Adelaide)					
9:00-10:30	Keynote Session	9-9:30am Professor Sarah Wheeler, Flinders University Understanding the Drivers of Household Food Waste Behaviour in Australia 9:30-10am Professor Sabrina Spatari, Israel Institute of Technology Computational chemistry methods in LCA of early-stage technology 10-10:30am Professor Yansong Shen, UNSW End of life solar panel recycling				
	Room	The Braggs				
10:30-11:00	Morning Tea and Networking					
	Parallel Sessions 2.1					
	Session 19: Carbon and Climate Futures	Session 20: Circular Economy and Resource Efficiency	Session 21: Life Cycle Thinking and Environmental Assessment	Session 22: Smart Systems and Data-Driven Sustainability	Session 23: Sustainable Behaviour and Social Transitions	Session 24: Sustainable Manufacturing and Industrial Innovation
Room	Inkgarni Wardli B17	Hughes 322	Hughes 323	Horace Lamb 422	Santos G04	Santos G13
Chair	Belyamani, Imane	Seo, Yuna	Sato, Kenichi	Gao, Wenfang	Mahmoudzadeh, Mahdi	Liu, Liyuan
11:00-11:20	Sustainable Valorization of End-of-life Tires for Hydrogen Production: Process design, modelling, and techno-economic analysis.	Characterisation and recycling potential of glass fibre reinforced nylon 6 sucker rod guides.	Life cycle environmental impact assessment of tyre manufacturing: A comparison of new and retreaded tyres.	Towards construction digitalization and sustainability: A digital twin-enabled framework.	Assessing the Impact of User Behavioural Characteristics on the Market Potential for V2G Participation in Ancillary Services.	Understanding industry performance through market-driven entry barriers: Lessons from China's ICEV to EV industries.
	Liu, Jingyuan (The Hong Kong Polytechnic University); Ren, Jingzheng.	amang, Chundu Gyem (University of Southern Queensland); Manalo, Allan; Ferdous, Wahid; Burey, Polly; Shelley, Tristan.	Tripathy, Priyam Prasambit (IIT Bombay); Shilin, Anokha.	Chen, Zhe (The University of Hong Kong); Xue, Fan.	Sun, Zhuoluo; Shen, Han (Harbin Institute of Technology, Shenzhen); Zeng, Yuan.	Li, Fan (The Chinese University of Hong Kong); Xu, Yuan.
11:20-11:40	Hydrogen potential in China's aviation sector: A techno-economic supply chain perspective.	Sustainable extraction of pectin and insoluble dietary fibre from apple pomace.	Enhancing sustainable management of residential buildings in Hong Kong through CIM-based Life Cycle Assessment	Decision support system for optimizing greenhouse heating strategies in South Korea.	Implications of changing dietary structure for optimizing phosphorus metabolism pattern.	Regional specialization and spatiotemporal evolution of China's photovoltaic manufacturing industry chain.
	Arras, Maximilian (Tsinghua University); Zimmer, Falk; Ma, Linwei.	Goonathilaka, Amanda (Deakin University); Talekar, Sachin; Holland, Brendan; Barrow, Colin.	Wang, Jiajia (The University of Hong Kong); Xue, Fan.	Seok, Seungwon (Jeonbuk National University); Kim, Solhee; Yoon, Siwon; Kim, Taegon.	Zhang, Yue (Beijing Normal University); Xu, Linyu.	Xiong, Xinyi (The Chinese University of Hong Kong); Xu, Yuan.
11:40-12:00	Quantitating and decomposing driving factors of carbon emissions in the China's iron and steel industry from the perspective of energy-material-economy nexus.	Transforming UAE date palm biowaste into sustainable resources: activated carbon and ferrite nanocomposite for water treatment applications.	Assessing the environmental impact of energy mix adjustments in construction and demolition waste recycling.	Development of a Framework to Support Whole Life Cycle Net-Zero Carbon Buildings through Integration of Building Information Modelling and Digital Twins.	The cost of green: environmental regulations, corporate finance strategies and sustainable growth.	Transformations and developments of medical waste disposal technologies and management models in China.
	Yang, Xingyuan (Tsinghua University); Yang, Honghua; Zhang, Yuqiong; Zhao, Qiang; Ma, Linwei; Li, Zheng; Ni, Weidou	Ibrahim, Anood; Iqbal, Jibran (Zayed University, UAE).	Sheng, Yuan (University of Adelaide); Han, Jixuan; Li, Xin; Chen, Kehao; Duan, Zhuocheng	Shen, Kaining (The University of New South Wales); Ding, Lan; Wang, Cynthia Changxin; Prasad, Deo.	Zhang, Lanya (Beijing Normal University); Xu, Linyu.	Chen, Yang (University of Chinese Academy of Sciences); Feng, Qinzhong; Liu, Liyuan.
12:00-12:20	Carbon emissions implications of energy infrastructure investments in Belt and Road Initiative host countries.	Material flow analysis for sustainable resource management: insights from the automotive plastics.	Material and leaching properties of recycled crushed stone from ash from wood biomass power plants.	Facile and highly sensitive colorimetric nanoparticle sensor for perfluorooctanoic acid (PFOA) in water.	The "vortex effect" in heterogeneous e-commerce networks: an examination of resource dissipation in the evolution of e-commerce spaces and its governance strategies.	Precisely selective and environmentally friendly thiol-functionalized mesoporous silica for Hg(II) removal from wastewater.

	Ali, Tariq (Jiangxi Agricultural University); Li, Xiu'e; Sun, Wenhui; Cui, Qi.	Seo, Yuna (Tokyo University of Science).	Sato, Kenichi (Fukuoka University).	Ricacho, John Salvador (The University of Sydney); Li, Jiaying.	Chen, Mingshan (Chongqing University).	Feng, Qinzhong (University of Chinese Academy of Sciences); Liu, Liyuan; Chen, Yang.
12:20-12:40	Ultrasound-assisted extraction of brominated flame retardants from WEEE Plastics: Efficiency and environmental impact.	Effect of retarder derived from fruit peel waste on the rheology of concrete.	Exploring the correlation between environmental factors and water quality in Taihu lake: Implications for future control strategies.	Quantitative evaluation method for carbon reduction potential of spent lithium-ion battery recycling process coupled with multi-dimensional parameters.	Manufacturer trade-ins and the endowment effect: Profitability and environmental impact.	A systems approach in sustainability transitions: Leading consumers towards sustainable consumption.
	Belyamani, Imane (Zayed University); Gripon, Layla; Cauret, Laurent	Choudhary, Garima (Visvesvaraya National Institute of Technology); Wanjari, Swapnil.	Wang, Jiayi; Tang, Xiaonan (Xi'an Jiaotong-Liverpool University).	Gao, Wenfang (Hebei University of Technology).	Mahmoudzadeh, Mahdi (University of Auckland); Nasiry, Javad.	Jonna C. Baquillas (De La Salle University).
12:45–13:45	Lunch Break					
	Parallel Sessions 2.2					
	Session 25: Carbon and Climate Futures	Session 26: Circular Economy and Resource Efficiency	Session 27: Life Cycle Thinking and Environmental Assessment	Session 28: Smart Systems and Data-Driven Sustainability	Session 29: Sustainable Behaviour and Social Transitions	Session 30: Sustainable Manufacturing and Industrial Innovation
Room	Inkgarni Wardli B17	Hughes 322	Hughes 323	Horace Lamb 422	Santos G04	Santos G13
Chair	Li, Jingwei	Philip Kwong	Nduagu, Experience	Xu, Linyu	Nguyen, Tiep	Kim, Solhee
13:45-14:05	Site selection assessment of PV-CSP power plants in China based on resource conditions and techno-economic performance.	Estimation and prediction of recyclable woody biomass ash.	Cropland expansion and forest decline: A remote sensing assessment of landscape modifications in Amazon Brazil.	Decomposition and allocation of carbon emission allowance in megacities: A case study of Shenzhen, China.	Assessing sustainability reports by universities in reporting on Sustainable Development Goals.	Catalytic conversion of inert gas molecules based on MOF composites.
	Dai, Xiaoyu (Tsinghua University); Fang, Yujuan; Li, Zheng.	Ike, Minori (Kyoto University); Takaoka, Masaki.	Jung, Jaeyoung (Jeonbuk National Univ.); Seok, Seungwon; Kim, Solhee; Kim, Taegon.	Wang, Dong; Zeng, Yuan; Deng, Peng (Harbin Institute of Technology Shenzhen); Li, Jue; Li, Yating.	Cheng, Yu (Deakin University); Karunasena, Gayani; Hu, Xin; Liu, Chunlu.	Liu, Xize (Nankai University); Li, Bo; Ma, Jian-Gong; Cheng, Peng.
14:05-14:25	Assessing climate hazards and risks to transition mineral production in Australia.	Robust design for a multi-echelon regional construction and demolition waste reverse logistics network with risk pooling effect.	Rethinking plastic packaging substitution: Life cycle assessment studies of polyethylene and alternatives across the US and Europe to guide decision-making.	Low-carbon energy transition for residential centralized heating in China: measurement, policy impacts, and mitigation potential.	Government strategy for charging infrastructure construction: A tripartite evolutionary game framework.	Decarbonizing hard-to-abate refineries via co-deployment of green hydrogen and CCUS.
	Savage, Tom (The University of Melbourne); Werner, Tim.	Yang, Chenxi (Nanchang University); Chen, Jianguo.	Tacker, Manfred; Avery, Elizabeth; Hafner-Kuhn, Tasja; Lawrence, Emma; Gstöhl, Andrin; Rauch, Marius; Nduagu, Experience (ExxonMobil Technology and Engineering Company); Sotomayor, Luis; Richa, Kirti;	Yu, Yanhui (Chongqing University, Chongqing); Cai, Weiguang.	Duan, Xu (Chongqing University); Xiang, Pengcheng.	Gao, Hanbo (Tsinghua University); Liu, Yingjie; Tian, Jinping; Chen, Lyujun.

			Roux, Timothee; Auras, Rafael.			
14:25-14:45	Preparation of a new CO2 capture-mineralization integrated material based on coal fly ash: modification method, properties and mechanism.	Integrating success factors for recycling operations in material flow modelling.	Unintended consequences of material substitution: Life cycle assessments of polyethylene packaging and alternatives in the US.	Urban morphology and traffic congestion: Identifying spatial drivers for enhancing sustainable road transport and emission reduction	Rural household dietary characteristics in agricultural, pastoral, and agropastoral transition zones of the Qinghai Plateau, China.	Analysis of the effects of biochar on the carbon sequestration capacity of cement composites.
	Li, Jingwei (Shandong University); Liu, Yanhui; Wang, Qing; Wang, Wenlong.	Suß, Sandro (Technische Universität Braunschweig); Mennenga, Mark; Herrmann, Christoph.	Avery, Elizabeth; Lawrence, Emma; Nduagu, Experience (ExxonMobil Technology and Engineering Company); Sotomayor, Luis; Richa, Kirti; Roux, Timothee; Auras, Rafael.	Zheng, Xincheng (Beijing Normal University); Xu, Linyu.	Wang, Shenghong (Institute of Geographic Sciences and Natural Resources Research, CAS); Li, Yunyun; Wang, Ling'en.	Li, Zhaocheng (University of New South Wales); Li, Wengui.
14:45-15:05	Heterogeneous Variations on Historical of Mercury, Dioxins, and CO2 emissions from Medical Waste Incineration Process in China: Emission Inventory, Driving Factors, and the Impact of COVID-19.	Landfilling to road building: synergistic effect of recycled composite waste and crumb rubber in the development of a sustainable asphalt binder.	Challenges and insights in recycling perovskite photovoltaics at low TRL: an LCA perspective.	Dual-Coupling of Carbon Effects: Linking Emission-Absorption Patterns to Land Use Intensity and Economic Contribution in Urban Agglomerations	Model and effectiveness of green bond issuance by power groups: empirical evidence based on carbon neutral bonds in China.	Quantitative assessment of carbon reduction mechanisms in low-carbon agricultural technologies: optimizing complementary, substitution, spillover, and rebound effects.
	Liu, Liyuan (University of Chinese Academy of Sciences); Feng, Qinzhong; Chen, Yang; Guo, Jianbo.	Avula, Kartheek; Murthy, Spoorthy Bannur; Biligiri, Krishna Prapoorna (Indian Institute of Technology Tirupati).	Peerukhan, Afzal Khan (University of Liege); Mohamed, Nada; Leonard, Angeline.	Zhang, Xing (Beijing Normal University); Xu, Linyu.	Zhang, Qin (Jiangxi Agricultural University); Ali, Tariq; Zhang, Ligu.	Kim, Solhee (Jeonbuk National University); Jeon, Jeongbae; Seok, Seungwon; Jung, Jaeyoung; Kim, Miso; Kim, Taegon
15:05-15:25	Decoupling industrial development from carbon emissions in resource-based cities -based on 90 cities in China.	Sustainability through misplaced resource valorisation: Biochar-based adsorbent for pharmaceutical pollutant remediation.		How does climate change impact the low-carbon transition of power sector in negative power supply areas? Evidence from the Greater Bay Area	Sustainable resource allocation for transportation mega projects in developing countries: Barriers and Challenges.	Human-centric disaster resilience: uncovering social inequity in climate change.
	Wang, Xu (Wuhan University); Wang, Yang; Liu, Xuan.	Raju, Neenu P. (Symbiosis International (Deemed University), Pune, India); Verma, Meenakshi; Singh, Pooja; Dhanorkar, Manikprabhu.		Wang, Yufei (Beijing Normal University); Xu, Linyu.	Nguyen, Tiep; Hallo, Leonie (University of Adelaide); Gunawan, Indra.	Liu, Bingsheng; Wei, Ran (Chongqing University); Tang, Jingyuan; Hong, Jingke; Lu, Qiuchen; Guo, Chengchen; Wu, Hengliang.
15:25-15:45	Future of steelmaking in India: A comparative analysis of energy demand and raw material requirements across different production scenarios.	Determining causality in sustainability transitions: Identifying drivers of sustainable consumption using DEMATEL.			An integrated design approach for improving energy efficiency and thermal comfort in social housing: a case study in temperate climate Australia.	Comparative evaluation of network constituent materials: durability, operational efficiency, hydraulic performance, and environmental impact.
	Tripathy, Priyam P. (IIT Bombay); Kalbar, Pradip P. ; Modi, Anish.	Jonna C. Baquillas (De La Salle University), Ivan Henderson V. Gue.			Wei, Jinxi (Deakin University); Guan, Ziqi; Li, Chenxiang; Cheng, Yu; Noguchi, Masa.	Kenga Mwambi, Ecclesiaste (Institut National du Bâtiment et des Travaux Publics); Nathan Tuzolana, Nathan; Phanzu Didiana, Evariste.

15:45-16:00	Afternoon Tea Break and Networking	
16:00-17:30	Editorial Panel Session	The Braggs (All Participants)
18:30	Conference Dinner	National Wine Centre

	Friday, 18 July 2025.					
	Parallel Sessions 3.1					
	Session 31: Carbon and Climate Futures	Session 32: Circular Economy and Resource Efficiency	Session 33: Life Cycle Thinking and Environmental Assessment	Session 34: Smart Systems and Data-Driven Sustainability	Session 35: Sustainable Behaviour and Social Transitions	Session 36: Sustainable Manufacturing and Industrial Innovation
Room	Inkgarni Wardli B17	Hughes 322	Hughes 323	Horace Lamb 422	Santos G04	Santos G13
Chair	Ma, Linwei	Bahraq, Ashraf A.	Yuan, Xueliang	Chang, Huimin	Bu, Yan	Kaur, Arshinder
9:00-9:20	A critical review of energy-material-economic flow analysis in low-carbon transition	Thermal separation and characterization of cathode materials from high-nickel NCM processing waste.	Energy-Environment-Economy evaluation of photovoltaic module recycling and disposal.	Contagion mechanism of land market cooling on local government debt risk	Decarbonization potential of the transportation system in the Bay Area urban agglomeration from power-transportation synergy perspective.	Comprehensive life-cycle assessment of oily sludge treatment technologies incorporating cyclone desorption technology.
	Ma, Linwei (Tsinghua University); Yuan, Yuan; Arras, Maximilian; Li, Zheng	Li, Hongxin; Qin, Yige; Yue, Dongbei (Tsinghua University); Bai, Hao; Sun, Tianwei; Wang, Jianchao; Wu, Bo.	Yuan, Xueliang (Shandong University); Sheng, Xuerou; Chen, Leping.	Teng, Xiuxiu (Shandong Jianzhu University); Wang, Yang.	Shang, Xinxin (Beijing Normal University); Xu, Linyu.	Wu, Jiwei (Sichuan University); Wang, Jiayi; Li, Jian; Chang, Huimin.
9:20-9:40	Carbon pricing potential in industrial fisheries: Global challenges and opportunities.	High production of nitrous oxide (N2O) via acidic denitrification approach	A data-driven framework for building decarbonization policy recommendation based on large language model-powered agent.	Revealing iron and carbon transfer characteristics among global multi-regional steel industry chain: an energy-material-economic integrated analysis.	Research on Information Gain of Keyhole Satellite Imagery.	Remote sensing perception model of farmland landscape complexity and its application in crop remote sensing classification.
	Peng, He; Hao, Jianli; Lyu, Linxiang; Wan, Shuyan; An, Chunjiang (Concordia University).	Zuo, Zhiqiang (University of New South Wales); Zheng, Min.	Wu, Fengyi (Chongqing University); Cai, Weiguang.	Yuan, Yuan (Tsinghua university); Ma, Linwei; Li, Zheng; Yang, Shanshan.	Tianwei Zhao; Yaoping Cui (Henan University); Hang Zhang.	Wang, Hongyan (Aerospace Information Research Institute, Chinese Academy of Sciences); Gong, Shuguang; Shen, Yunqi; Du, Xin; Dong, Yong.
9:40-10:00	Key drivers of soil organic carbon fractions across climate zones and soil depths on Australian agricultural soils.	Propose a commodity supply chain model adapted to carbon tax policy.	Biomass - derived lixiviant for sustainable extraction of metals from cathode material of lithium-ion batteries	Upcycling of End-of-Life Solar Panel Waste into Self-cleaning and Anti-Fouling Applications.	A comprehensive energy-material-carbon accounting framework for decarbonizing China's hydrogen sector.	Public attention and attitudes towards green express packaging in China: A text mining approach.
	Jing, Huirong (The University of Melbourne); Pang, Alexis; Karunaratne, Senani; Pan, Baobao; Liang, Xia; Gupta, Dorin; Chen, Deli.	Nguyen, Hoang Tuan (Academy of Finance); Nguyen, Thi Khanh Huyen; Hoang, Thanh Ngan; Mai, Thu Uyen.	Nguyen, Cherry (The University of Adelaide); Kwong, Philip.	Saha, Rahul (RMIT University); Neha; Kaur, Manpreet; Bhawana; Pal, Anuushka; White, Paul; Cole, Ivan; Chen, Xiaobo; Saini, Parveen.	Arras, Maximilian (Tsinghua University); Liang, Anne Yingqiu; Ma, Linwei.	Yuan, Beifei (Chongqing University); Tao, Fengming; Zhu, Ziwei.
10:00-10:20	Unlocking the potential of refuse-derived fuel in cement co-processing: Factors affecting its low uptake.	Rational design of quantum dot-modified MOF/COF composites for efficient photocatalytic hydrogen generation and pollutants degradation.		Next-generation data infrastructure for life cycle assessment.	Optimizing carbon emission paths based on equity: strategies for promoting coordinated regional development in China.	Advanced frugal innovation for sustainable food packaging: A design of experiments framework.
	Pattavidanalage, Geethmi Thisakya (University of Adelaide); Rodrigo, Navodana; Wijewickrama, Chamitha; Zillante, George.	Bajorowicz, Beata (University of Gdansk); Gó rzyński, Daniel.		Chang, Huimin (Thinghua University); Qi, Jianchuan; Li, Nan; Xu, Ming.	Bu, Yan (Harbin Engineering University)	Mohan, Aishwarya; Kaur, Arshinder (IIT Madras); Rao, Balakrishna.
10:30-11:00	Closing Ceremony					
11:00-12:00	Lunch					

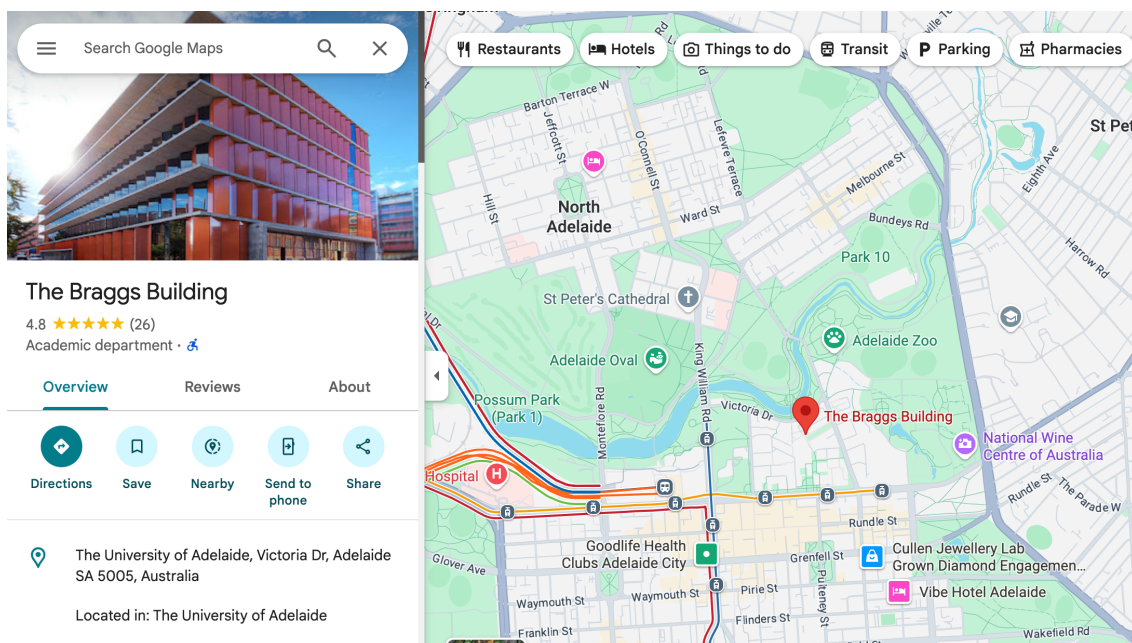
Venue

The University of Adelaide's North Terrace campus

The University of Adelaide's North Terrace campus is located in the cultural heart of the CBD (5 minutes from tram and bus stops, 10 minutes from Adelaide Railway Station). The North Terrace campus lies adjacent to many of South Australia's major arts and cultural institutions, including the State Library of South Australia, the Adelaide Botanic Gardens, the South Australian Museum, the Art Gallery of South Australia, the Adelaide Festival Centre and Adelaide Zoo.



As well as being the main site for teaching and research facilities, the North Terrace campus is home to the student hub and Barr Smith Library. You'll find central services such as disability support, health and counselling, accommodation services and Ask Adelaide. There are also amenities including ATMs, post office, student co-op and campus general store. If you are hungry there are plenty of places to grab a bite to eat, sit down and relax, or get some extra study in.



Building for the registration and keynote session

About Adelaide

[Adelaide](#) is bursting with culture, flavours, events and entertainment. Taste your way through world-famous wine regions only minutes away from the city or soak up the sun at one of our picture-perfect metropolitan beaches. Join the party at our immersive festivals and events or spend the night exploring Adelaide attractions and a thriving restaurant and bar scene. Adelaide is a gateway to some of Australia's best wine country and is dotted with historic buildings, lush parklands and sprawling botanic gardens.

Weather in July

Temperatures in South Australia in July hover around 17°C, although July is in winter. Check Adelaide weather forecast from Bureau of Meteorology: <http://www.bom.gov.au/sa/forecasts/adelaide.shtml>

Wine Experience

Adelaide has been recognised as one of the Great Wine Capitals of the World – a network of nine major global cities that share a common feature: their internationally renowned wine regions. With 200 stunning cellar doors only a short drive away from the city centre and 18 world-renowned wine regions nearby, it's no surprise why.

Places to Visit

- [Adelaide Zoo](#)
- [Glenelg Beach](#)
- [Art Gallery of South Australia](#)
- [South Australian Museum](#)
- [National Wine Center of Australia](#)
- [Adelaide Botanic Gardens](#)

Additional Information about Adelaide

Tourism SA: <https://southaustralia.com/places-to-go/adelaide>

[Pre and Post Touring Information](#) provided by [Adelaide Convention Bureau](#).

Travel, Accommodation and Visa

International Flights to Bangkok

Adelaide is serviced by the world's best international airlines including:

- Qantas Airways
- Qatar Airways
- Singapore Airlines
- Malaysia Airlines
- China Southern Airlines
- Emirates
- Cathay Pacific
- Air New Zealand
- Jetstar International
- Fiji Airways

Domestic Flights to Adelaide

- Qantas Airways
- Jetstar International

- Virgin Australia

Public Transport with Adelaide Metro

Choose from trains, trams and buses with Adelaide Metro: <https://www.adelaidemetro.com.au>

A tram ride through the city's centre is free and will take you between the South Terrace tram stop and the Entertainment Centre at Hindmarsh.

Explore with the free City Connector Loop-Bus which runs frequently until about 6pm each day and Fridays until 9pm seven days a weeks.

Accommodation

Please use the link below to get the best rate for your stay in Adelaide.

- ibis Adelaide (122 GRENFELL ST, ADELAIDE SA 5000, AUSTRALIA)
- Sofitel Adelaide (108 Currie Street, Adelaide, Adelaide, South Australia, 5000)
- Crowne Plaza Adelaide (27 Frome Street, Adelaide, Adelaide, South Australia, 5000)
- Adelaide Rockford (164 Hindley St, Adelaide SA 5000, Australia)
- Hilton Adelaide (233 Victoria Square, Adelaide, Adelaide, South Australia, 5000)
- Adelaide Marriott Hotel (141 King William Street, Adelaide, Adelaide, South Australia, 5000)
- Majestic Roof Garden Hotel (55 Frome Street, Adelaide, Adelaide, South Australia, 5000). Please contact groups@majestichotels.com.au or +61 8 8360 7190 and quote the block code: 150725CON to get the discount.
- Holiday Inn Express Adelaide City Centre (30 Blyth Street, Adelaide, Adelaide, South Australia, 5000)
- InterContinental Adelaide (North Terrace, InterContinental Adelaide, Adelaide, Adelaide, South Australia, 5000)
- Oaks Embassy Adelaide (96 North Terrace, Adelaide SA 5000, Australia)
- Oaks Adelaide Horizons Suites (104 North Terrace Adelaide South Australia 5000 AU)
- Pullman Adelaide (16 Hindmarsh Square, 5000 Adelaide, Australia)
- Stamford Plaza Adelaide (150 North Terrace Adelaide South Australia 5000 AU)
- The Playford Hotel (120 North Terrace Adelaide, South Australia)
- Hotel Grand Chancellor (65 Hindley St, Adelaide SA 5000, Australia)

Visa

Please check visa options from Department of Home Affairs: <https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-finder>

Visa invitation letter will be available after you complete the online registration. When registering, you will be asked for information to prepare your visa invitation letter. You can download the letter from the online registration system once your registration is complete.