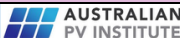


2025 APSRC			
2nd to 4th December 2025			
2-Dec TUES	7.45am	Registration opens	
	8.45 - 9.00	Welcome from 2025 APSRC Conference Chair (Paul Shaw, UQ) and "Welcome to Country" Location: GHD Auditorium	
	9.00 – 10.30	DAY 1 Plenary Session Location: GHD Auditorium Chair: Ken Guthrie, SET	
	9.00am	Dr. James Hazelton, Endeavour Energy Presentation: "The distribution network's evolving role in supporting PV uptake and the wider energy transition: Electrification, Storage and Flexibility"	
	9.30am	Dr. Maria Herrando, Instituto Tecnológico de Aragón, SPAIN Presentation: "Solar Hybrid Photovoltaic-Thermal (PV-T) Systems for Power, Heating & Cooling: Technology, Markets, and Future Prospects"	
	10.00am	Assoc. Prof. Heping Shen, ANU Presentation: "Towards Cost-Effective Perovskite/Silicon Tandem Solar Cells"	
	10.30 – 11.00	Morning Tea Located in Level 3 Foyer	
	11.00 – 12.20	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S = Nominated for a Stream Award	
		PV Devices Perovskite Solar Cells I Chair: Guoliang Wang, University of Sydney Location: GHD Auditorium (Rm 200)	Renewable Energy Deployment & Integration Inverters and batteries Chair: Rob Passey, UNSW Location: 301B
	11.00 - 11.20	Can Zheng UQ "5-Chloro-2-Hydroxypyridine Derivatives with Push-Pull Electron Structure Enable Durable and Efficient Perovskite Solar Cells"	Baran Yildiz, UNSW - "An overview of network measures and standards to control inverter-based consumer energy resources in Australia"
	11.20 - 11.40	Yi-Bing Cheng Foshan Xianhu Laboratory "Recent Advances and Strategic Outlook for the Development of Perovskite Photovoltaics in China"	Mehdi Aghaeimeybodi, CSIRO - "Techno-economic analysis of battery energy storage systems in solar parks"
	11.40 - 12.00	Ershad Parvazian Swansea University "Roll-to-Roll Perovskite Solar Cells and Modules: Capabilities, Challenges and Future Directions"	Wajha Tasnim Urmi, RMIT - "Thermal Characterisation and Modelling of Lithium Phosphate Batteries for Optimised Performance and Safety"
	12.00 - 12.20	Syed Nazmus Sakib Macquarie University "Stability Studies of Microwave-Processed Perovskite Solar Cells"	Lauren Ashby, UNSW - "Evaluating the Value of Solar Battery Storage"
	12.20 – 1.20	Lunch Located in Level 3 Foyer	
	1.20 – 3.00	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S = Nominated for a Stream Award	
		PV Devices Cells And Modules Degradation I Chair: Brendan Wright, UNSW Location: GHD Auditorium (Rm 200)	Renewable Energy Deployment & Integration Overviews Chairs: *** Location: 301B
	1.20 - 1.40	Xinyuan Wu UNSW "Evaluating Stability and Degradation Mechanisms of EVA-Encapsulated Glass-Backsheet TOPCon Modules under Accelerated Damp-Heat Conditions"	Andrew Blakers FTSE, ANU - "Global renewable energy pathfinding"
	1.40 - 2.00	Haoran Wang UNSW "A Novel Damp Heat-Induced Failure Mechanism in PV Modules (with Case Study in TOPCon)"	Dale Cartwright, APA - "The challenges of deployment of solar farms in Western Australia's Pilbara region"
	2.00 - 2.20	Anjie Li UNSW "Assessment of LAF and Non-LAF TOPCon Solar Cells under Soldering Flux-Induced Damp-Heat Degradation"	Andrew Blakers FTSE, ANU - "An Integrated System Plan for Cambodia, Laos, Thailand and Vietnam"
	2.20 - 2.40	Anh Huy Tuan Le UNSW "Accelerating regeneration of LeTID affected silicon solar cells under field-related conditions"	Rama Sharma, UNSW - "Balancing performance, cost and sustainability through integrated decision optimisation for utility-scale PV systems"
	2.40 - 3.00	Alison Ciesla UNSW "Commercial PV modules in Australia: Comparing measured performance and nameplate ratings"	Alex Lehmann UNSW "Rooftop concentrating solar thermal options for industrial heat"
	3.00 – 3.30	Afternoon Tea Located in Level 3 Foyer	
	3.30 – 5.10	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S = Nominated for a Stream Award	
		PV Devices Cells And Modules Degradation II Chair: Kean Chern Fong, ANU Location: GHD Auditorium (Rm 200)	Renewable Energy Deployment & Integration Modelling Chairs: *** Location: 301B
	3.30 - 3.50	Chandany Sen UNSW "Hidden Chemistry of Encapsulants: Unlocking Damp-Heat Degradation in TOPCon Modules"	Hamed Habibi, Murdoch Uni. - "A Comprehensive Robotic Framework for Inspection and Fault Detection of Single-Axis Tracking PV Farms"
	3.50 - 4.10	Ho Yuet Rachel Yeung UNSW "Lab to Field: Predicting Ultraviolet-Induced Degradation in TOPCon PV modules"	Zeinab Haydous, UNSW - "Adaptive Tilt Control for PV Thermal Management: A Proof of Concept"
	4.10 - 4.30	Jiaxin Yang UNSW "The Root Cause of UV Instabilities in Silicon-Solar Cells"	Will Simpson, UQ - "Investigation of Airflow Development in a PV Farm"
	4.30 - 4.50	Muhammad Umair Khan UNSW "Hydrogen and Fixed Charge: Understanding Ultraviolet-Induced Degradation in Modern TOPCon Solar Cells"	Debby Ramadhani, UNSW - "Dynamic Sky View Factor Computation for Enhanced PV Temperature Prediction in a Terrain-Shaded Site"
	4.50 - 5.10	Aeron Johns UNSW "Investigating the spectra-dependency of UV-induced degradation and recovery in p-type c-Si structures"	Ali Shakiba, UNSW - "Improving Accuracy in PV Performance Loss Rate Estimation via Environmental Clustering"
	5.10 - 6.30	POSTER SESSION Location: Level 3 Room 301	
	6.00 - 6.30	APVI AGM (Rm 316, Level 3) 	
	6.30 - 8.00	Networking Drinks Located in the Outdoor Area - the Amphitheatre	

3-Dec WED	6:30am	APSRC Fun Run! (see APSRC website for details)			
	8.00am	Registration opens			
	8:55 – 10.30	DAY 2 Plenary Session Location: GHD Auditorium Chair: Roger Dargaville, Monash			
	8:55 - 9:00am	Rebecca Yang: Announcement of the New Applications for PV Network			
	9.00am	Dr. Kimberley Swords FTSE, Riffle Advisory Presentation:"Things you wish you knew (but were afraid to ask)... perspectives on the energy transition from legacy generators, approvers, project developers and landholders"			
	9.30am	Liana Downey GAICD, Blueprint Institute Presentation:"Developing the Australian Solar Thermal Strategy: Context, Insights, and Enablers"			
	10.00am	Prof. Steve Albrecht, Helmholtz-Zentrum Berlin, Germany Presentation:"Toward Efficient and Stable Perovskite Tandem Solar Cells"			
	10.30 – 11.00	Morning Tea Located in Level 3 Foyer			
	11.00 – 12.30	Industry Workshops			
		PV Manufacturing I Chairs: Nathan Chang & Jessica Yajie Jiang, UNSW Location: GHD Auditorium (Rm 200)	High Comfort, Low Carbon Lighting Chair: *** Location: 301B	PV Recycling/Circular Economy Chair: Rabin Basnet, ANU Location: 316A	PV Forecasting and Firm Power Management Chair: Abhnil Prasad, UNSW Location: Rm 316
		Talks by presenters (for both sessions, not in speaker order) Shubham Duttagupta BT Imaging "Australian Manufacturing of Characterisation Equipment - Connecting the PV Value Chain from Lab to Gigafactory to Field" Paul Moonie Halocell Energy Ltd "Bridging the Valley of Death: commercialising perovskite PVs in a high-cost manufacturing market" Louise Hurll Stellar PV "Bringing Solar Manufacturing Back to Australia - Ingots and Wafers" Zi Ouyang JA Solar "From 24% to 30%: Pathways and prospects for continuous breakthroughs in commercial photovoltaic technology" Michelle Vaquero Contreras, UNSW, ACAP "The Case for Australian-made Polysilicon" Buyi YAN Hangzhou Microquanta Semiconductor Co., Ltd. "High Yield Production of Perovskite Solar Module and its Applications"		11.00 – 11.20 Marina Lunardi, Smart Energy Council "Queensland Solar Stewardship Pilot - Findings and Learnings" 11.20 – 11.40 Rabin Basnet, ANU "The untapped market of PV module reuse in Australia" 11.40 – 12.00 Alex May, Sircel, "Solar Panel Recycling at Sircel" 12.00 - 12.20 Deepika Mathur, Northern Institute, CDU "Planning a Circular Solar Future for Northern Australia"	11.00 – 11.20 Alberto Troccoli, WEMC "How Climate Projections Are Powering Solar Investments" 11.20 – 11.40 Joaquin Ferrer, Repath GmbH "The Certainty of Uncertainty: Modelling Climate Risk and Performance for PV Portfolios in Australia and New Zealand" 11.40 – 12.00 Anthony Cornelius, "Hail Risk and Resilience for Solar Farms" 12.00 - 12.20 A/Prof. Michael Cholette, QUT "When does soiling matter? Lessons from Concentrating Solar Power"
	12.30 – 1.30	Lunch Located in Level 3 Foyer			
	1.30 – 3.00	Industry Workshops			
		PV Manufacturing II Chairs: Nathan Chang & Jessica Yajie Jiang, UNSW Location: GHD Auditorium (Rm 200)	Renewable Heat for Manufacturing, Mining and Fuels Chair: Ken Guthrie Location: 301B	Photovoltaic Thermal (PVT) Chair: Dominic Zaal Location: 316A	Space PV Chair: Gavin Conibeer, UNSW Location: Rm 316
		Talks from presenters (continued from previous session) Followed by Panel discussion: Including all speakers from both sessions	1. Robert Taylor, UNSW "PVT Session Introduction" 2. Maria Herrando, ITA "Overview of the status of PVT applications and technology internationally" 3. Doug Smith, Coolsheet "Coolsheet PVT + commercial heat pumps" 4. Erik Parsons, Corellan "The Ultimate Efficiency Boost: Combining Solar PVT and Liquid Desiccant Cooling for Peak Performance" 5. Glen Ryan, Sunovate "More Than Just Hot Air" 6. Ken Guthrie, SET "Adoption of ISO 9806 as an Australian Standard for testing of PVT"	1. Bruce Leslie, Vast Solar, "Grid Connect Power" 2. Dougal Adamson, FPR Energy, "Heat and Power for Mining" 3. Amy Philbrook, ARUP, "Renewable Fuel Production" 4. Yen Chean Soo Too, CSIRO Energy "TBC" 5. Wes Stein, CSIRO Energy "Advanced Power Systems"	
	3.00 – 3.30	Afternoon Tea Located in Level 3 Foyer			
	3.30 – 4:50	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S - Nominated for a Stream Award			
		PV Devices Characterisation I Chair: Di Yan, Melbourne University Location: GHD Auditorium (Rm 200)	Renewable Energy Deployment & Integration Social Chairs: *** Location: 301B	Solar Buildings & Solar Heating and Cooling Water Heating Chairs: Ken Guthrie Location: 316A	
	3.30 - 3.50	Rama Sharma UNSW "Fully automated photovoltaic defect and severity analysis at scale without labels"	Benjamin Hofmann, ANU - "Common Energy Practises and the Prevalence of Load Shifting in the South Coast"	INVITED SPEAKER Robert Taylor UNSW "IEA SHC Task 69: A PV Hot Water Technology Brief"	
	3.50 - 4.10	Arthur Julien UNSW "PL and EL image analysis via statistical modelling to study perovskite solar cell homogeneity"	Nick Gorman, UNSW - "Understanding electricity demand: household load profile aggregation dynamics, and trends in regional demand profiles"		
	4.10 - 4.30	Tanushree JB Nath UNSW "Contactless Series Resistance Imaging of Solar Cells with Line-Scan Luminescence: A Quantitative Approach"	Martin Egan, UTS - "Energy citizens: listening to the energy transitions newest stakeholder"	Baran Yildiz UNSW "Turning household water heating systems into MW batteries to support the integration of consumer energy resources (CER)"	
	4.30 - 4.50	Zhiwen Zheng UNSW " Outdoor photoluminescence imaging under concentrated sunlight"	Benjamin Hofmann, ANU - "Understanding social impacts on local energy demand: An Agent Based Model"	BIAN Mengmeng China Academy of Building Research "Research on GHG Reduction of Solar Hot Water System in China"	
	4:50 - 5:45	POSTER SESSION Location: Level 3 Room 301			
	Coaches have been arranged to transfer delegates from the conference venue to the Conference Dinner at Customs House Brisbane CBD at 6:15pm				
	7:00 - 10:00	Conference Dinner Location: Customs House 399 Queens St Brisbane			

4-Dec	8.00am	Registration opens			
	9.00 – 10.30	DAY 3 Plenary Session Location: GHD Auditorium Chair: Marnie Shaw, ANU			
THURS	9.00am	Prof. Karen Hussey, Australian Government’s Emissions Reduction Assurance Committee Presentation: "Unpacking and understanding the climate change policy landscape (and where PVs do and don’t fit)"			
	9.30am	Geoff Stapleton AO, GSES/SEIAP Presentation: "Establishing Solar Training in the Pacific Island Countries and Territories"			
	10.00am	Fengli Du, China Solar Thermal Alliance Presentation: "The current status of Solar Thermal deployment in China and key uptake drivers"			
	10.30 – 11.00	Morning Tea Located in Level 3 Foyer			
	11.00 – 12.20	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S = Nominated for a Stream Award			
		PV Devices PV Buffet Chair: Arther Julien, UNSW Location: GHD Auditorium (Rm 200)	Renewable Energy Deployment & Integration Mixed bag Chairs: *** Location: 301B	Solar Buildings & Solar Heating and Cooling Chairs: *** Location: 316A	
		Harshvardhan Gupta Technical University of Denmark "Surfactant-assisted hydrothermal growth of Sb2(S,Se)3 thin film solar cell performance"	Nathan Chang, UNSW - "Pathways to Reducing Utility PV Levelised Cost of Electricity Towards ARENA's 30- 30-30 Goal"	INVITED SPEAKER	
		Sandhuli Hettiarachchi Dehigaspitiya Macquarie University "Synthesis of AgInS2/ZnS Quantum Dots for Luminescent Solar Concentrators: PLQY Enhancement through Shell Optimization"	Bin Lu, ANU - "Ultra-low-cost-solar for economy-wide decarbonisation"	Li Bojia, China Academy of Building Research - "Research on Comprehensive Evaluation of PV Building in China"	
		Oliver Lindsay UQ "Designing multi-phase systems for single component organic photovoltaics"	Hossein Saberi, UNSW - "Assessing PV Compliance Across Australian Grids: Insights from Project CICCADA"	Hong Gic Oh, Exemplary Energy- "Enhanced Weather and Climate Data for Energy System and Weather-proofing Simulations"	
		12.00 – 12.20	Brett Hallam UNSW "Sustainable PV: Optimising Material Consumption, Cost and Environmental Outcomes Through Smart Sustainability Approaches"	Ellie Kallmier, UNSW - "An overview of retail electricity tariffs in the National Electricity Market"	Nargess Nourbakhsh, UNSW "Energy Data Platform (EDP)"
	12.20 – 1.20	Lunch Located in Level 3 Foyer			
	1.20 – 3.00	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S = Nominated for a Stream Award			
		PV Devices Silicon Solar Cells Chairs: Ning Song & James Bullock Location: GHD Auditorium (Rm 200)	Renewable Energy Deployment & Integration Large-scale solar Chairs: *** Location: 301B	CST & Process Heat and Chemistry CST systems and technologies Chairs: *** Location: 316A	
		1.20 - 1.40	Li Wang UNSW "Production-Ready Silver Revolution: 85% reduction in industrial TOPCon solar cells silver consumption through screen-printing metallisation"	Hanrong Huang, UNSW - "Py-Microgrid: An Open-Source Hybrid Microgrid Optimisation Framework for RE Integration in Remote Mining Operations"	Ye Wang, ANU - "Optimising Mirror Shapes of Target-aligned Heliostats for Maximum Annual Optical Performance"
		1.40 - 2.00	Aga Ridhova Melbourne University "Solution Processed MoOx Thin Films as Hole Selective Contacts for Silicon Solar Cells"	Ammar Elnosh, Murdoch Uni.- "Towards adaptive PV Digital Twins: Data-driven modelling challenges for diagnostics applications"	Ahmed Eissa, UNSW "On-Sun Thermal Performance and Flux Mapping of a CT/PV Hybrid Module"
		2.00 - 2.20	Di Yan Melbourne University "Improving the thermal stability of aluminium doped zinc oxide with different capping layers for polycrystalline silicon passivated contacts"	Jiuei Shang, UNSW - "An open-source PyPSA model for supporting off-grid hybrid renewable energy system investment decisions"	Mahdiar Taheri, ANU "Characterisation of low-grade Australian ores for fluidised bed ironmaking: Ore heating pathways"
		2.20 - 2.40	Yuhao Cheng UNSW "Screen-printed aluminium contacts for silver-free tunnel oxide passivated back contact (TBC) solar cells"	Dylan McConnell, UNSW - "Integrating Industrial Demand Response into Capacity Expansion Models: Curtailment and Load Shifting"	Tim Anderson, CSU "Effect of Localised High-Velocity Ports on Particle Heating in Solar Fluidised Beds"
	2.40 - 3.00	Kean Chern Fong ANU "Transparent Ultra Thin Polysilicon Passivated Contacts""	Moran Zhong, UNSW - "Revenue Sensitivity to PV Modelling Accuracy in the National Electricity Market"	Robert Taylor, UNSW "Decision Support Tool for Decarbonisation and Electrification of Low Temperature Industrial Thermal Systems"	
	3.00 - 3.30	Afternoon Tea Located in Level 3 Foyer			
	3.30 – 4:50	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S = Nominated for a Stream Award			
		PV Devices Characterisation II Chair: Rabin Basnet, ANU Location: GHD Auditorium (Rm 200)	Renewable Energy Deployment & Integration Optimisation of PV output Chairs: *** Location: 301B	PV Devices Perovskite Solar Cells II Chair: Jueming Bing, University of Sydney Location: 316A	CEEM, UNSW Workshop
		3.30 - 3.50	Hyunsun Song UNSW "Novel light trapping structures for 40 um silicon solar cell"	Yang Tang, UNSW - "Understanding and Reducing The Risk of Extreme Photovoltaic Degradation"	Jie Zhao Monash University "Toward Scalable, Efficient, and Stable Perovskite Solar Cells: From Ink Design to Interface Passivation"
		3.50 - 4.10	Khoa Nguyen ANU "Let's go outside! Enabling Australia-wide comparative outdoor testing of perovskite-based solar devices"	Sijin Wang, UNSW - "Quantifying photovoltaic module-to-module mismatch losses with real-world rooftop systems"	Hui Jin UQ "The Effects of Alkyl Chain Length and Halide Anions in Fluorinated Additives for Scalable Perovskite Solar Cells"
		4.10 - 4.30	Arthur Julien UNSW "Investigating perovskite solar cell non-uniformities via hyperspectral reflectance and PL imaging"	Grace Liu, UNSW - "Predicting panel soiling recovery from environmental measurements during rain events in Africa"	Dongxu He UQ "Homogeneous 2D/3D heterostructured tin halide perovskite photovoltaics"
		4.30 - 4.50	Tanushree JB Nath UNSW "Sensitivity analysis of photoluminescence-based series resistance imaging methods using a simulated ground truth"	Sijin Wang, UNSW - "Physics-informed machine learning pipeline for fault classification and forecasting in utility-scale photovoltaic systems"	Hongzhe Xu UQ "Heteroepitaxy for highly stable cesium tin halide perovskite solar cells"
	4:50 - 5.30	Closing Ceremony/Award Presentations Location: GHD Auditorium			
5.30 - 7.00	Closing Networking Drinks Located in the Outdoor Area - the Amphitheatre				