



THE UNIVERSITY OF
MELBOURNE

Melbourne
Energy
Institute

Annual Report 2025



Contents

Message from the Director	3
About the Melbourne Energy Institute	4
Meet the Team	5
MEI's Partners	6
Highlights of 2024	7
MEI Research Programs	11
Seed Funded Projects	15
Spotlight on a Researcher	16
Engagement	19
Governance	30
Financial Summary	33

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Message from the Director



Dear colleagues and friends of the Melbourne Energy Institute, welcome to the 2025 MEI annual report. I have had the privilege to be the Director of MEI since July 2025 and have thoroughly enjoyed learning much more about the breadth and excellence of energy-related research at the University.

I would like to start by acknowledging the hard work of the fantastic MEI team, that not only so capably continued running the institute after Professor Michael Brear stepped down as Director and the search for a new one was ongoing, but also for helping me transition into my new role more easily.

The past year has again been very busy for MEI, delivering an Energy Systems Seminar Series focused on the gas supply chain, a well-attended Energy Systems Short Course, a new-look MEI Symposium, our regular AEMO webinars, fellowship meetings, and six public lectures. At the same time, we have expanded our fellowship and added deputy leads for each of our research programs to the executive committee to better represent the diverse capabilities across the University. MEI further introduced the Collaborative Energy Transition Catalyst, a new early-career focussed seed-funding initiative to enable interdisciplinary research. Five projects were awarded funding, and we are very much looking forward to seeing the research progress in 2026.

In parallel, our talented PhD students and staff affiliated with MEI have continued working hard on research projects that relate to the systems, technologies and materials needed for the transition to cleaner energy and transport. The range of activities is truly fascinating, covering anything from how machine learning can help reduce the amount of fuel we need to fly, making the energy transition fairer for countries polluting the least, how consumers influence the EV transition, pathways to decarbonising shipping, how Australia can make the switch to geothermal power, integrating solar PV into buildings, novel processes for more efficient carbon capture, to unlocking higher performance of energy storage. This Annual Report highlights many of them, along with two major projects, the launch of the second phase of the groundbreaking Net Zero Australia project and the award of the new Australian Research Council (ARC) Centre of Excellence on Renewable Fuels, in which the University of Melbourne will play a major role.

But there is no time to be complacent. The world keeps changing and we need to respond to new challenges by continuing to deliver influential interdisciplinary research, teaching and independent advice to support the transition to a sustainable, just and resilient energy system.

I thank all outside and inside the University who keep supporting MEI.

Best wishes,

Professor Richard Sandberg
Director, Melbourne Energy Institute
Chair of Computational Mechanics, Mechanical Engineering
The University of Melbourne

About the Melbourne Energy Institute

The Melbourne Energy Institute (MEI) delivers influential, interdisciplinary research on the transition to a sustainable, just, and resilient energy system. We work in partnership with the community, industry and government on the world's energy challenges.

MEI's work explores the systems, technologies and materials needed for the transition to cleaner energy and transport. Our specialist team of over 300 researchers brings expertise from across multiple disciplines, including engineering, science, social science, law, economics, architecture, planning and health. A part of the University of Melbourne, we are backed by an institution making the largest investment in research of any Australian university, and supporting the country's largest cohort of research students.

Our research capabilities span four areas:

- Energy Systems
- Power Generation and Transport
- Heavy Industry and Resources
- Energy Materials

We work with many leading organisations in Australia and overseas, and we welcome joint proposals, directly funded research, PhD internships, and broader, strategic collaborations. Contact us at mei-info@unimelb.edu.au to find out more.



Meet the MEI Team

MEI is run by a team of dedicated staff who look after the Institute's research programs, stakeholder engagement, and communication activities.

Our team is highly skilled, responsive, and collaborative. Guided by our Executive Committee and supported by an expert advisory network, the Melbourne Energy Institute's dedicated team works across the University of Melbourne to connect researchers and enable collaborations spanning multiple academic disciplines.

The Institute is governed by an Advisory Board that provides strategic guidance and includes representatives from leading organisations such as Siemens Energy, Grattan Institute, Iberdrola Australia, APA, Viva Energy Australia, VicGrid, and Lightsource bp.



Prof Richard Sandberg
Director



Anita La Rosa
Institute Manager



Franca Tomaras
Events Coordinator



Josey Biasol
Administration and
Events Assistant



Prof Kathryn Mumford
Program Leader
Heavy Industry and
Resources



Prof Pierluigi Mancarella
Program Leader
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A/Prof Wallace Wong
Program Leader
Energy Materials



A/Prof David Keith
Program Leader
Power Generation
and Transport



Dr Tim T. Werner
Deputy Program Leader
Heavy Industry and
Resources



Dr Ye Wang
Deputy Program Leader
Energy Systems



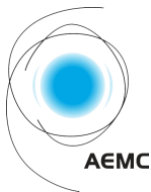
A/Prof James Bullock
Deputy Program Leader
Energy Materials



A/Prof Shiao Huey Chow
Deputy Program Leader
Power Generation and
Transport

MEI's Partners

Collaboration and knowledge transfer with university, industry, and government are the cornerstone of MEI's work. Some of MEI's partners include:



2025 Research Highlights



How machine learning could reduce the fuel we need to fly

Experimenting with aircraft engines is expensive, so research on aviation fuel efficiency often relies on simulations that even requires supercomputers. Now, research led by the University of Melbourne has demonstrated that machine learning can reduce the need for computational muscle and improve the accuracy of aircraft engine design tools. [Read more >](#)



Making the energy transition fairer for countries historically polluting the least

For the countries that watched others grow rich burning fossil fuels, the climate impacts they must now endure and mitigate, can pose unfair burden while trying to simultaneously decarbonise and grow their own economies. Recognising this inequity, researchers from the University of Melbourne are working with countries across South Asia to ensure the transition to clean energy is not only efficient, but just. [Read more >](#)



Driving change: The EV choices steering Australia's future

Understanding how consumers will influence the electric vehicle (EV) transition is how we can design systems that make low-emissions mobility appealing, affordable, and beneficial for communities across Australia. This is the work of Associate Professor David Keith's latest research, going under the hood to uncover what's on the road ahead for Australia's transition to net-zero transport. [Read more >](#)



Soaking up solar: Community batteries creating wins on both sides of the meter

Community-owned energy storage is popping in densely populated parts of Australian cities, to store excess local energy, including solar, and make it available to local neighbourhoods. But what set-up creates the most value for the communities these batteries serve? Power Melbourne, a pilot program by the City of Melbourne, has partnered with researchers from the University of Melbourne to test the financial feasibility of community batteries, with researchers finding a new hybrid approach combining benefits on both sides of the meter, delivering greater flexibility and financial returns than either model alone. [Read more >](#)



What a carbon levy on global shipping means for Australia's biggest export

If international shipping and aviation were a country, its carbon emissions would only be behind China, the US, India and Russia. Perhaps surprisingly then, the greenhouse gas emissions generated by moving people and things around the world by sea and air are not included in any nation's reporting and so are very often forgotten.

With collaborators from the Universities of Western Australia, Wollongong and New South Wales, Professor Michael Brear and PhD researcher Nguyen Cao discuss the International Maritime Organisation's proposed emissions regulation for international shipping and what this may mean for Australia's own decarbonisation and exports. [Read more >](#)



We're missing out on the clean 'natural nuclear' energy beneath our feet

Sometimes described as 'natural nuclear', geothermal energy has the potential to power all our needs for billions of years. The complexity lies in how far down we need to go to access sufficient heat. Now, with adoption of optimised drilling techniques from the oil and gas sector, University of Melbourne researchers are exploring how Australia can make the switch to geothermal power, including in Victoria's energy centre, the Latrobe Valley. [Read more >](#)



The Net Zero Australia Project launches Phase 2 of its groundbreaking research

The Net Zero Australia (NZAu) Project has kicked off a new phase of analysis, bringing together world leading experts to build on its highly successful earlier study. The NZAu Project was started in 2021 because no comprehensive, non-political and rigorous modelling had been done to illustrate the scale, cost, pace and impacts of the Australian energy transition. This next phase of the Project will continue the partnership between the University of Melbourne, the University of Queensland and Princeton University. [Read more >](#)



Doing it for themselves: Buildings designed to generate their own power

Buildings are some of our biggest consumers of electricity, but what if they could be built integrating clean energy production into their very fabric? With this simple shift in perspective, suddenly every surface of a building can be seen as a potential power generator. To overcome the complexity involved in proving feasibility, demonstrating return on investment and delivering efficient designs, the University of Melbourne's Professor Rebecca Yang, is creating new tools and frameworks, so developers can easily ascertain and capitalise on the benefits of building-integrated photovoltaics. [Read more >](#)



Unlocking faster, cleaner energy storage through hidden ion pathways

With the move toward electrification, the need for energy storage that's both powerful and fast-charging is also growing. Energy storage devices, known as supercapacitors, are already used where rapid bursts of power are needed – such as in renewable energy systems, electric vehicles, and even regenerative braking. But improving their performance has been limited by how ions, the tiny, charged particles that carry electricity, are known to react. Recent research, led by Professor Zhe Liu, Professor of Computational Materials Engineering at the University of Melbourne, has now uncovered how ions move and interact inside nanoporous carbon electrodes, the core component in supercapacitors, and could hold the key to charging that's up to ten times faster than today. [Read more >](#)



Next-generation power systems researchers from across the globe reunite in Melbourne

Over nearly two decades, the Seminar for the Next Generation of Researchers in Power Systems has brought together outstanding PhD students and postdoctoral researchers to share cutting-edge work, build global networks, and shape the future of energy globally. Now, after a five-year break brought on by the Covid-19 pandemic, the invitation-only event returns, with its 12th edition to be hosted from 30 November by the University of Melbourne. This year's cohort represents 18 universities across Europe, Asia, North and South America, and Australia, spanning research interests from grid stability and inverter-based resources to data-driven distribution system analytics, electricity markets, energy justice, and low-carbon planning. [Read more >](#)



New ARC Centre of Excellence targets scalable, affordable renewable fuels

Renewable fuels – including green hydrogen, ammonia, methanol and sustainable aviation fuels – are essential for decarbonising “hard-to-abate” sectors such as heavy industry, shipping, aviation and steelmaking. A new Australian Research Council (ARC) Centre of Excellence on Renewable Fuels will bring together fundamental science and industry collaboration to accelerate the development of renewable fuel technologies – with a focus on making them cost-competitive and scalable. [Read more >](#)



Exploring how energy technologies interact with one another, society and the environment.

The Energy Systems research program includes the technical, economic and environmental analysis of energy networks, wholesale and retail energy markets and energy system planning.

Capabilities

- Energy network, system and market integration of renewable, fossil and nuclear energy sources
- Distributed energy resources and smart grids
- Integrated energy networks and multi-energy systems
- Security, reliability and resilience assessment of future energy systems
- Retail energy markets and consumer behaviour
- AC and DC power electronics

Impact

- Collaborations with the Australian Energy Market Commission (AEMC) and the Australian Energy Regulator (AER) on power system resilience and reliability
- Integrated electricity-gas-hydrogen modelling for the Future Fuels CRC
- Development of transmission network planning methodology for National Grid ESO, Great Britain
- The Net Zero Australia Project with the University of Queensland, and Princeton University

Research Centres

- Centre for Market Design
- Melbourne Centre for Law and the Environment
- Power and Energy Systems Group
- Thermodynamics Laboratory

Program Leaders

Primary Program Leader:

- Professor Pierluigi Mancarella

Deputy Program Leader:

- Dr Ye Wang

Researchers

- Professor Lu Aye
- Professor James Bailey
- Professor Robin Batterham
- Professor Howard Bondell
- Professor Michael Brear
- Professor David Byrne
- Professor Robert Crawford
- Professor Saman Halgamuge
- Dr Christopher Hall
- Dr James Helal
- Professor William Ho
- Professor Glenn Hoetker
- Professor Chris Manzie
- Associate Professor Leslie Martin
- Professor Brendon McNiven
- Dr Keith Moffat
- Dr Reihana Mohideen
- Prof Dragan Nestic
- Professor Nando Ochoa
- Associate Professor Behzad Rismanchi
- Professor Prakash Singh
- Professor Kate Smith-Miles
- Associate Professor Adel N. Toosi
- Professor Rebecca Yang

Heavy Industry and Resources



Accelerating decarbonisation of the heavy industry and resources sectors.

This research program studies clean fuels, storage and production; carbon dioxide capture and utilisation; and industrial electrolysis.

Capabilities

- Renewable integration into mining process
- Hydrogen to clean fuel conversion and safety
- Industrial electrolysis for carbon dioxide conversion and hydrogen production
- Carbon capture and storage (CCS)
- Sub-surface storage of hydrogen
- Resource law

Impact

- GeoCQuest project on CCS with BHP, Stanford and Cambridge
- Advisory to the Australian Government's updated National Hydrogen Strategy
- Provision of expert advice to the Australian Government's Hydrogen Guarantee of Origin scheme
- Novel Direct Air Capture - mineralisation (DAC-MIN) process for carbon dioxide abatement

Research Centres

- [Advanced Separation Technologies Group](#)
- [ARC Centre of Excellence for Renewable Fuels](#)
- [Clean Energy Lab](#)
- [Melbourne Centre for Law and the Environment](#)
- [Peter Cook Centre for CCS Research](#)
- [Thermodynamics Laboratory](#)

Program Leaders

Primary Program Leader:

- [Professor Kathryn Mumford](#)

Deputy Program Leader:

- [Dr Tim T. Werner](#)

Researchers

- [Professor Robin Batterham](#)
- [Associate Professor Joe Berry](#)
- [Professor Peter Cook](#)
- [Dr Glen Farivar](#)
- [Professor Damien Giurco](#)
- [Associate Professor Eirini Goudeli](#)
- [Professor Ralf Haese](#)
- [Professor Sandra Kentish](#)
- [Dr Aaron Li](#)
- [Associate Professor Gang Li](#)
- [Professor Jacqueline Peel](#)
- [Professor Richard Sandberg](#)
- [Professor Colin Scholes](#)
- [Professor Mohsen Talei](#)
- [Dr Helena Wang](#)
- [Professor Yi Yang](#)

Power Generation and Transport



Investigating renewable and low emission power plants for stationary and mobile applications.

The Power Generation and Transport Program explores advanced wind, solar, gas turbines, reciprocating engine and energy storage technologies.

Capabilities

- Gas turbines and reciprocating engines
- Electrical generators and drives
- Conventional, hybrid, electric and nuclear powerplant for land, sea and air
- Wind, solar PV and energy storage dynamics and optimisation
- Transport, storage, and use of hydrogen and other clean fuels
- Low drag vehicles for land, sea and air
- Advanced computational methods and machine learning in energy applications
- Electric vehicles, charging infrastructure, and consumer behaviour

Impact

- Improved aircraft engine aerodynamics for General Electric Aerospace
- More accurate design tools for heat transfer in thermal and nuclear power generation with MHI
- Propulsion, engines and fuels for Ford and DST Group
- Hydrogen and clean fuel combustion with Caterpillar and Siemens Energy

Research Centres

- [ARC Centre for Exciton Science](#)
- [ARC Centre of Excellence for Renewable Fuels](#)
- [Australian Centre for Offshore Wind Energy \(ACOWE\)](#)
- [Fluid Mechanics Group](#)
- [Peter Cook Centre for CCS Research](#)
- [Thermodynamics Laboratory](#)

Program Leaders

Primary Program Leader:

- [Associate Professor David Keith](#)

Deputy Program Leader:

- [Associate Professor Shiao Huey Chow](#)

Researchers

- [Professor Robin Batterham](#)
- [Dr Graeme Beardsmore](#)
- [Professor Michael Brear](#)
- [Professor Mark Cassidy](#)
- [Professor Shyamali Dharmage](#)
- [Professor Lloyd Hollenberg](#)
- [Professor Chris Manzie](#)
- [Dr Patricia Lavieri](#)
- [Associate Professor Leslie Martin](#)
- [Professor Jason Monty](#)
- [Professor Guillermo Narsilio](#)
- [Associate Professor Behzad Rismanchi](#)
- [Professor Robyn Schofield](#)
- [Professor Mark Stevenson](#)
- [Professor Mohsen Talei](#)
- [Dr Sebastian Tebbe](#)
- [Professor Yinghui Tian](#)
- [Dr Claire Vincent](#)
- [Professor Rachel Webster](#)
- [Professor Yi Yang](#)

Energy Materials



Discovery and optimisation of materials for energy applications.

Bringing together researchers working in materials science and engineering, this program explores materials for energy generation, storage, transport, and consumption such as hydrogen electrolysis, batteries, solar energy conversion and lighting.

Capabilities

- Materials and device optimisation in solar photovoltaic technologies
- Energy materials design aided by theory and computation
- Developing next-generation catalysts for carbon dioxide reduction
- Novel materials and processes for gas separation and capture

Impact

- Development of >30% solar cell efficiencies and 30c/Wp capital costs at scale, as part of the Australian Centre for Advanced Photovoltaics
- Collaboration with JinkoSolar on advanced passivated contact solar cell architectures
- Use of nanomaterials to improve the performance of solar windows with ClearVue PV
- Improvement of performance and reduce cost of anode materials in batteries for the Future Battery Industries CRC in conjunction with industry partners including Syrah Resources

Research Centres

- [ARC Centre for Exciton Science](#)
- [ARC Training Centre in Future Energy Storage Technologies](#)
- [Experimental Condensed Matter Physics Group](#)
- [Integrated Computational Materials Engineering Group](#)

Program Leaders

Primary Program Leader:

- [Associate Professor Wallace Wong](#)

Deputy Program Leader:

- [Associate Professor James Bullock](#)

Researchers

- [Associate Professor Christian Brandl](#)
- [Professor Amanda Ellis](#)
- [Professor Ken Ghiggino](#)
- [Dr Carol Hua](#)
- [Professor David Jamieson](#)
- [Professor Sandra Kentish](#)
- [Associate Professor Gang Li](#)
- [Associate Professor Wen Li](#)
- [Dr Tesfaye Molla](#)
- [Professor Paul Mulvaney](#)
- [Professor Kathryn Mumford](#)
- [Professor Greg Qiao](#)
- [Professor Colin Scholes](#)
- [Professor Martin Seviar](#)
- [Professor Trevor Smith](#)
- [Professor Rebecca Yang](#)

Seed Funded Projects

The Melbourne Energy Institute’s seed funding programs support University researchers wanting to initiate significant, energy-related research projects and raise external research funding.

MEI provided cash and in-kind support for the following seed funding initiatives under two separate seed funding rounds.

Special seed funding round for new starters

MEI awarded seed funding to four projects totalling \$193k, as part of a special funding round to support interdisciplinary projects led by early-mid career researchers (ECRs). The aim of this special seed funding round was:

- to help ‘recent starters’ undertake significant, energy-related research and attract external funding;
- to introduce these recent starters to one another and encourage them to collaborate outside their own discipline or research group; and
- for established teaching and research staff to support the recent starters in these efforts, particularly by introducing them to industry and government and helping frame research programs.

2025 Collaborative Energy Transition Catalyst

As part of MEI’s Collaborative Energy Transition Catalyst seeding funding program, MEI awarded funding to five projects, totalling \$220k. A requirement of the funding was that projects must be interdisciplinary, led by ECRs, and involving at least two Faculties, Departments or Schools.

Project	Lead researcher and Department/ Faculty:	Mentor or other researchers involved in the project:
Metal-Organic Frameworks for Green Hydrogen Production	Dr Helena Wang , Chemical Engineering, Faculty of Engineering and IT Dr Carol Hua , Chemistry, Faculty of Science	Prof. Kathryn Mumford , Chemical Engineering, Faculty of Engineering and IT
Evaluating the Energy Storage Potential of Australia’s Abandoned Mines	Dr Melissa Kozul , Mechanical Engineering, Faculty of Engineering and IT Dr Tim Werner , Geography, Earth and Atmospheric Sciences, Faculty of Science	Prof. Richard Sandberg , Melbourne Energy Institute
Light duty fleet modelling for Australia	Dr Dominic Davis , Mechanical Engineering, Faculty of Engineering and IT A/Prof David Keith , Melbourne Business School	Dr. Patricia Lavieri , Infrastructure Engineering, Faculty of Engineering and IT
Data-Driven Optimisation-Based Control for Remote Microgrid Battery Operation	Dr Keith Moffat , Electrical and Electronic Engineering, Faculty of Engineering and IT Dr Ye Wang , Maths and Stats, Faculty of Science Dr Glen Farviar , Electrical and Electronic Engineering, Faculty of Engineering and IT	Prof. Pierluigi Mancarella , Electrical and Electronic Engineering, Faculty of Engineering and IT
Development of Scalable, Binder-Free Turbostratic Carbon Film for Cost-Effective, High-Performance Perovskite Photovoltaics	Dr Mehrdad Parsa , Chemical Engineering, Faculty of Engineering and IT	A/Prof Wallace Wong , Chemistry, Faculty of Science Prof. Amanda Ellis , Chemical and Biomedical Engineering, Faculty of Engineering and IT
Unlocking nature positive designs for offshore wind	Dr Brendan Lanham , BioSciences, Faculty of Science	A/Prof Shiao Huey Chow , Infrastructure Engineering, Faculty of Engineering and IT A/Prof John Morrongiello , BioSciences, Faculty of Science Dr Rebecca Morris , BioSciences, Faculty of Science
Engineering on Screen: Storytelling the Energy Transition – A Film Festival	Dr Claudia Sandberg , Mechanical Engineering, Faculty of Engineering and IT	Dr Mitch Goodwin , Faculty of Arts
Advancing Critical Subsea Cable Engineering — Routing, Installation, and Inspection — via Vision-Guided Autonomous Underwater Vehicles (AUVs)	Dr Ye Pu , Electrical and Electronic Engineering, Faculty of Engineering and IT	Prof Yinghui Tian , Infrastructure Engineering, Faculty of Engineering and IT
Geothermal Heat Buffering for Coastal Vegetation Restoration	Dr Xiaoying (Annie) Gu , Infrastructure Engineering, Faculty of Engineering and IT	Dr Yufei Wang , Coastal Engineering, National University of Singapore

Spotlight on a Researcher

Supporting early career researchers is central to MEI's mission and growth. Meet some of our talented researchers working on the transition to cleaner energy.



Spotlight on a Researcher: Jan Wisniewski

Exploring policies to get homes and businesses off gas might have unintended consequences for those least able to afford the shift. Getting off gas is accelerating as a social movement, as people look to disconnect from natural gas at home or work, to reduce their carbon emissions. Jan's research explores what this might mean for those vulnerable households who can't afford to change.

[Read more >](#)



Spotlight on a Researcher: Zhean Shao

Renewable energy, potentially generated on the factory rooftop, increasingly makes sense for local manufacturers. Zhean Shao's PhD explores what it takes to maximise the benefits, with adaptive scheduling that boosts energy efficiency and production.

[Read more >](#)



Spotlight on a Researcher: Dr Carol Hua

Dr Carol Hua's research in chemistry results in creating new smart materials - for low energy displays, chemical sensing and data processing. These can influence many varied aspects of our energy transition, among them the production of green hydrogen - which is next on the cards for Dr Hua.

[Read more >](#)



Spotlight on a Researcher: Dr Sleiman Mhanna

As we transition away from coal to renewables, to electrification and to more consumer energy resources, our energy systems need new models to smoothly manage energy flows. Dr Sleiman Mhanna's research in advanced mathematical program modelling is helping to solve the complexities this creates as well as finding ways to benefit from the opportunities.

[Read more >](#)



Spotlight on a Researcher: Dr Tim Werner

The energy transition needs resources such as lithium, nickel and copper to sustain it, but mining these can create its own adverse impacts. Dr Tim Werner's research brings together diverse environmental and social data sets to find patterns of risk as a result of mining for the energy transition, to help avoid them.

[Read more >](#)



Spotlight on our new Director: Professor Richard Sandberg

Originally trained in aerospace engineering, the Melbourne Energy Institute's new Interim Director, Professor Richard Sandberg, began his career solving problems to improve the design and performance of jet engines. Now, he's shifting focus to tackle one of the most critical challenges of our time: the global energy transition.

[Read more >](#)



Spotlight on Researcher: Dr Melissa Kozul

With a focus on reducing energy and transport emissions to arrest climate change, Dr Melissa Kozul has specialised in understanding turbine air flows at a microscopic level. Her most recent research uses supercomputers to uncover how these turbines can operate more efficiently -- with applications for both airplane engines and electricity generation.

[Read more >](#)



Spotlight on Researcher: Dr Ye Wang

Bringing advanced mathematics to optimising energy systems for the transition to cleaner energy, Dr Ye Wang's research delivers sophisticated optimisation-based algorithms that help address some of the fundamental challenges in transitioning to cleaner energy, while operating energy systems efficiently and reliably.

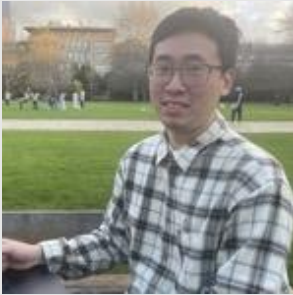
[Read more >](#)



Spotlight on Students in Renewable Energy

Connecting passion to purpose, Students in Renewable Energy (SiRE), is a University of Melbourne student organisation bringing together the next generation of energy leaders - connecting talented individuals to determined organisations driving the renewable energy transition. We interviewed its outgoing President, Tess Tregear, and incoming President, Miles Cowton, on its role, its achievements and its future.

[Read more >](#)



Spotlight on a researcher: Jiaou Song

Hydrogen could play a range of roles in reducing our energy emissions, provided we can store and transport it safely at cryogenic temperatures. Graduate researcher, Jiaou Song's PhD work is refining mathematical models that help predict what cryogenic hydrogen will do in different conditions, so we can avoid fires and explosions, in both research, and in adopting hydrogen as a clean source of energy.

[Read more >](#)

Engagement

Featuring researchers, policy-makers and industry experts, our regular seminars, public lectures and annual Symposium go behind the scenes on how our energy markets and systems operate, dissecting technical challenges and delving into energy policy.

MEI Seminar Series

The [MEI Seminar Series](#) provides participants with the foundations to better understand the Australian energy system. This includes the technologies that support it and the markets and systems within which it operates. Each year, the focus is turned to one of our primary energy vectors, cycling through the major topics of electricity, natural gas, and energy commodities. In 2025, the focus once again turned to the gas supply chain.

Gas Supply Chain: MEI Seminar Series 2025		
DATE	SEMINAR	SPEAKER
13 March 2025	1: Conventional and unconventional natural gas	Steve Henzell , <i>Technical Advisor, Worley</i>
14 May 2025	2: Gas markets and gas retailing	Matthew Clemow , <i>Group Manager Gas Market and System Operations, Australian Energy Market Operator (AEMO)</i>
18 June 2025	3: Liquefied natural gas and export	Carolyn Au , <i>LNG Adviser, Shell Australia</i>
24 July 2025	4: The role of natural gas pipelines in the evolving energy system	Mark Fothergill , <i>General Manager Gas Pipelines and Storage Engineering, APA Group</i>
20 August 2025	5: Green hydrogen as an alternative to natural gas	Michael Bielinski , <i>Head of Projects Asia Pacific, Siemens Energy</i>
17 September 2025	6: Blue hydrogen as an alternative to natural gas	Associate Professor Simon Smart , <i>School of Chemical Engineering, University of Queensland</i>
15 October 2025	7: Short and long-term options for LNG plant decarbonisation	Professor Eric F. May , <i>Managing Director, Future Energy Exports CRC; Director, Gas Capture Technologies Pty Ltd.</i>

18



Steve Henzell, *Technical Advisor at Worley*, described the evolution of gas supply in Australia and explained the growth into export markets and the transition into a mature resource.



Matthew Clemow, *Group Manager Gas Market and System Operations at AEMO*, provided an overview of AEMO's role and functions within Australia's East Coast Gas System including the energy market regulatory framework and how the gas markets balance supply and demand.



Carolyn Au, Shell Australia's LNG Advisor, explained how LNG is growing to become almost one quarter of the world's supply of energy today. She also addressed some present realities impacting the LNG industry, as well as future directions taking into consideration carbon intensity and global impacts.



Michael Bielinski, Head of Projects Asia Pacific at Siemens Energy, discussing the role that green hydrogen has to play in the future energy landscape in Australia in replacing natural gas as well as other fossil fuels.

MEI Energy Systems Short Course

MEI's Energy Systems Short Course teaches skills in analysing the financial, technical, and environmental performance of energy projects. The course centres on practical, hands on, modelling exercises. Participants develop their own spreadsheet models, and learn how to answer questions such as: Is a proposed wind farm or gas turbine a good investment? What is the probability that it will earn a commercial rate of return? What is the best financing structure for the project?

The 2025 Short Course was taught by **Dr John Burgess**, a University of Melbourne Honorary Professorial Fellow, with the assistance of **Jonathan Anderson**, Sustainable Mobility Manager at Keolis Downer. Among the attendees were graduate students from the University of Melbourne and professionals from MEI's industry partners.



Congratulations to all participants of MEI's 2025 Energy Systems Short Course.

MEI Symposium 25

Each year, the MEI Symposium showcases the multidisciplinary energy research taking place throughout the University of Melbourne. It provides a space for collaboration, as well as an opportunity to celebrate the past year's accomplishments.

In 2025, [MEI's annual symposium](#) once again showcased diverse research for a clean energy future. It convened several hundred attendees, who heard from [17 energy experts](#) across MEI's [4 research programs](#).

Hydrogen, the coolest kid on the block: Opening plenary discussion

Technologies and lessons from the LNG industry are central to the development of future CO₂ and hydrogen supply chains as proposed by **Professor Eric May**, Managing Director, Future Energy Exports CRC Director; Gas Capture Technologies Pty Ltd, the Symposium's opening speaker.



Professor Eric May, Managing Director of the Future Energy Exports CRC and Director of Gas Capture Technologies, was the opening plenary speaker at MEI's 2025 Symposium.

Four research streams each shared five breakthrough areas of research

Session 1: Power Generation and Transport

Chaired by MEI's [Power Generation and Transport](#) Program Leader **A/Prof David Keith**, this session kicked-off with a keynote from **Professor Nedunchezian Swaminathan** from the Department of Engineering, Hopkinson Lab, University of Cambridge, on the challenges and opportunities associated with decarbonising the power and transport sector.

This was followed by discussion on battery value chain sustainability, supercomputers solving for more efficient compressors, and a provocation on how much electric vehicles reduce gasoline consumption.

Session 2: Energy Materials

Dr Christian Brandl, chaired the [Energy Materials](#) session that focused on the discovery and optimisation of materials for energy applications, which opened with a keynote by **Professor Rachel Caruso**, Distinguished Professor, School of Science, RMIT and Deputy Director of the ARC Centre of Excellence for Green Electrochemical Transformation of Carbon Dioxide (GETCO2).

The speakers which followed examined processes to hydrogenate carbon dioxide to methanol, design interfaces to harness potential of LIB materials, and work to integrate solar photovoltaic technologies directly into building materials.

Session 3: Heavy Industry and Resources

Chaired by MEI's Heavy Industry and Resources Program Leader **Professor Kathryn Mumford**, the session began with a keynote on the commercial and technical complexity of decarbonisation in industry, delivered by GHD's APAC Decarbonisation Leader, **Dr Michael Simioni**.

This talk was followed by presentations on advances in direct air capture of CO₂, electrochemical hydrogen transport and protonic ceramic fuel cells.

Session 4: Energy Systems

Chaired by MEI's Energy Systems Program Leader, **Professor Pierluigi Mancarella**, this stream looked at how clean energy technologies integrate with one another, society and the environment, starting off a keynote defining system strength from **Professor Ian Hiskens**, Vennema Professor of Engineering, Electrical and Computer Engineering at University of Michigan.

Presenters in this session also explored AI in supporting household solar PV decisions, energy market reform for long-duration energy storage, and how we manage deep uncertainty in planning the future of Australia's energy system.

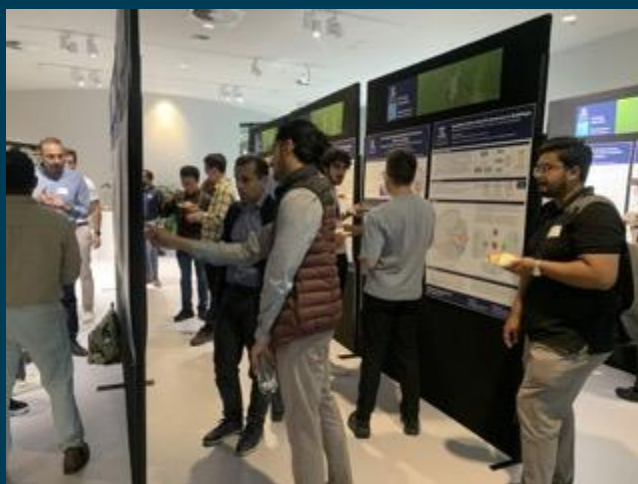


Clockwise from top: **Professor Nedunchezian Swaminathan**, University of Cambridge; **Professor Rachel Caruso**, RMIT; **Dr Michael Simioni**, GHD; and **Professor Ian Hiskens**, University of Michigan; during their keynote presentations at MEI Symposium 25.

MEI Poster Competition 2025

As part of MEI Symposium 25, post-doctoral research fellows and post-graduate research students participated in the MEI Poster Competition, presenting their own research aligned to MEI's Research Programs.

MEI Poster Competition winners	
Energy Materials	WINNER: Lingzhi Cao, PhD Student Deciphering Ion Specificity at Water-Mediated Graphene Interfaces via Interpretable Machine Learning
	2ND PLACE: Aga Ridhova, PhD Student Solution Processed MoOx Thin Films as Hole Selective Contacts for Silicon Solar Cells
	3RD PLACE: Xuhui Zhu, PhD Student Rapid Selective Recycling of Spent LiFePO4 Cathodes via a Deep Eutectic Solvent-Assisted Carbothermal Shock Method
Energy Systems	WINNER: Ronggen Chen, PhD Student Optimal Co-Planning of Hybrid Energy Hubs and Integrated Electricity-Hydrogen Transmission Infrastructure
	2ND PLACE: Orlando Pereira Guzman, PhD Student Physics-Informed AI for Calculating PV Hosting Capacity in LV Networks
	3RD PLACE: Chatum Aloj Sankalpa Wijethunga Gamage, PhD Student Context-Aware Stochastic Modeling of Consumer Energy Resource Aggregators in Electricity Markets
Heavy Industry and Resources	WINNER: Shayan Khakmardan, PhD Student Parametric Life Cycle Assessment of Critical Battery Minerals Industry: Case of Lithium
	2ND PLACE: Ahmad Emamian, PhD Student A Detailed Assessment of Mining Land Transformation Factors in Australia
	3RD PLACE: Jiaou Song, PhD Student Condensation Kinetics of N2 at Cryogenic conditions from atomistic simulations
Power Generation and Transport	WINNER: Yue Gu, PhD Student Machine-learning strategies for transition/turbulence modelling for Low-Pressure Turbines with unsteady inflow conditions
	2ND PLACE: Kha Meng Ng, PhD Student How do biomethane impurities affect combustion appliances?
	3RD PLACE: Isrrah Malabanan, PhD Student Co-producing knowledge on residential electric vehicle charging access for renters and multi-unit dwelling residents



Post-doctoral research fellows and post-graduate research students presenting their posters during the MEI Poster Competition.

Public seminars, lectures, and workshops

During 2025, MEI held numerous public seminars, lectures and workshops that informed broader collaboration and debate. Local and international experts from both industry and academia were invited to share diverse perspectives on the shift toward cleaner energy and transportation systems. This includes discussions on the short and long-term effects of energy policies and technological advancements.

AEMO Quarterly Dynamics webinars

Delivered in partnership with the Australian Energy Market Operator (AEMO), this webinar series sheds light on the findings of AEMO's Quarterly Energy Dynamics reports, examining emerging trends across Australia's electricity and gas markets. MEI has become a key dissemination point for the findings of the quarterly report via the seminars, which are presented by **Kerry Galloway**, Manager - Market Insights from the Australian Energy Market Operator (AEMO) at AEMO.

[View the recordings](#) of all AEMO Quarterly Dynamics webinars

MEI public lecture - Scaling solar to drive global decarbonisation

20 February 2025

MEI was pleased to host a public lecture with **Professor Pietro Altermatt**, Principal Scientist at Trina Solar, and visiting professor of PV materials at Oxford University.

This lecture explored the ongoing scaling of photovoltaics (PV) and its connection to global decarbonisation efforts and anticipated advancements in PV technology, sustainability challenges, and supply chain concerns, along with options for non-Chinese manufacturing of PV, and the prospects for Real Zero.

MEI public lecture: Building tomorrow's power system - The case for transmission

24 February 2025

As we move towards a decarbonised future, long-distance transmission is becoming more critical than ever. But how are different regions tackling this challenge?

MEI was pleased to host a public lecture with **Dr Madeleine McPherson** from Canada's University of Victoria who explored the global approaches to inter-regional transmission, comparing strategies from the United States, Europe, Canada and Australia.



Professor Altermatt presenting on future expansion of PV manufacturing.



Dr. McPherson speaking on wind production speeds.

Transmission lines connect high-quality renewable resource areas to load centres, lowering the cost of generation. Interconnecting different parts of the power system makes the network more reliable and resilient. Larger transmission networks allow operators to balance power production and consumption between different parts of the country. The benefits of transmission are broadly acknowledged, but building transmission infrastructure proves difficult. Politics, governance, financing and permitting are significant barriers globally. The United States, Europe, Canada and Australia are each tackling these barriers in different ways. This presentation compared the different approaches being taken to tackle inter-regional transmission, identified the winning strategies, and highlighted gaps in each region.

[View the slides and recording here.](#)

MEI public lecture: Power system planning under multi-scale climate-induced uncertainty

14 April 2025

MEI hosted a public lecture by **Assistant Professor Ángela Flores** of the University of Chile, who discussed how power systems are facing increasing pressure from climate change.

The rise in global temperatures, more variable precipitation patterns, and the increase in frequency and severity of extreme weather events pose substantial risks for power systems across multiple time scales.

In this talk, a comprehensive power system planning model was introduced to anticipate both short and long-term uncertainties by leveraging multi-scale stochastic programming. A novel approach was then presented for constructing multi-scale scenario trees to represent climate-induced uncertainty, using historical weather data and future climate projections. Finally, suitable decomposition methods for capacity planning under uncertainty and possible enhancements were explored.

[View the slides and recording here.](#)



Assistant Professor Ángela Flores presenting on how to plan power systems under uncertainty.

MEI public lecture: Contracts for gas prioritisation to power plants and grid reliability during winter emergencies

8 May 2025

The Melbourne Energy Institute hosted a public lecture by **Associate Professor Chiara Lo Prete** from Pennsylvania State University, who spoke on contracts for gas prioritisation to power plants and grid reliability during winter emergencies.

Over the past decade, cold weather events such as the 2014 Polar Vortex and Winter Storm Uri caused widespread power outages, driven in part by fuel supply interruptions at gas-fired power plants. These interruptions are especially acute in the Northeastern U.S., where pipeline constraints during peak heating demand periods limit gas deliveries to power plants. During such periods, residential and commercial customers are prioritised over other customers holding firm gas transportation contracts. Additionally, federal regulations mandate non-discriminatory access to pipeline capacity among firm contract holders, placing power plants and industrial customers at the same priority level.

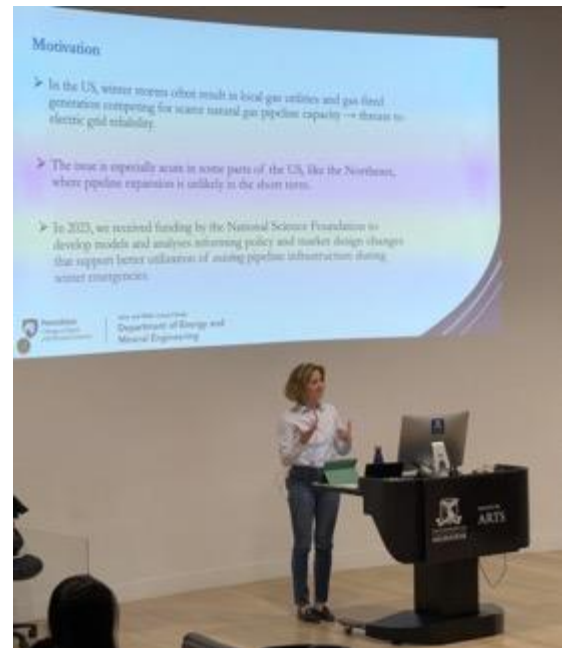
This paper and presentation explored an alternative strategy to improve gas allocation efficiency within existing infrastructure.

[View the recording and Prof. Lo Prete's academic paper here.](#)

MEI public lecture: Opportunities and challenges in power flow control in a modern grid **30 June 2025**

The Melbourne Energy Institute hosted a public lecture by **Dr Kalyan Sen**, Fulbright Scholar and IEEE PES Distinguished Lecturer, who explored power flow control in a modern grid.

The power industry's pressing need for the most economical ways to transfer bulk power along a desired path may be met by building new transmission lines, which is a long and costly process. Alternatively, it may be quicker and cheaper to utilise the existing transmission lines more efficiently. Power flow control in a transmission line is an art that is still being perfected.



Associate Professor Chiara Lo Prete presenting on grid reliability during winter emergencies.

MEI public lecture: The economics of electric vehicles **17 September 2025**

The Melbourne Energy Institute, in conjunction with the Melbourne Environmental Data Analytics Lab (MEDAL) within the Faculty of Business and Economics, hosted a public lecture by **Associate Professor Teevrat Garg** of University of California.

In this lecture, Professor Garg discussed the economics of decarbonising parts of the transportation sector, highlighting various challenges and opportunities in the adoption, use and charging of passenger vehicles. He also addressed knowledge gaps that need resolving to achieve cost-effective decarbonisation of light-duty transportation. This session included a panel discussion with a Q&A session.



Associate Professor Garg with panel members.

Popular articles

The following lists a selection of articles authored by MEI researchers and Fellows. The articles appeared in *Pursuit*, an academic research publication by the University of Melbourne, and *The Conversation*, a leading publisher of research-based news and analysis.

Pursuit, 18 April 2025

We're missing out on the clean 'natural nuclear' energy beneath our feet

Geothermal energy from the Earth's core gives Australia the potential to warm houses and power businesses 24/7 using existing infrastructure from other energy industries. By Dr Graeme Beardsmore and Professor Rachel Webster, University of Melbourne.

The Conversation, 18 September 2025

Heat, air quality, insurance costs: how climate change is affecting our homes – and our health

Our homes can and must protect us against some of the risks of climate change. By Ang Li, University of Melbourne.

The Conversation, 27 May 2025

Is it OK to leave device chargers plugged in all the time? An expert explains

'Vampire power' is real. By Glen Farivar, University of Melbourne.

The Conversation, 23 November 2025

This year's climate talks saw real progress – just not on fossil fuels

Expectations were extremely low ahead of this year's UN climate talks. Remarkably, organisers in Brazil managed to secure real progress at COP30. By Jacqueline Peel, University of Melbourne.

The Conversation, 24 June 2025

A carbon levy on global shipping promises to slash emissions. We calculated what that means for Australia's biggest export

A proposed shake-up of the global shipping industry would encourage the use of clean fuels and penalise companies that stick to cheaper, more polluting fuels. By Michael Brear, The University of Melbourne; Gerhard (Gerry) F. Swiegers, University of Wollongong; Michael Leslie Johns, The University of Western Australia; Nguyen Cao, The University of Melbourne, and Rose Amal, UNSW Sydney.

The Conversation, 9 October 2025

Renewables have now passed coal globally – and growth is fastest in countries like Bhutan and Nepal

Even as clean energy progress slows in the US and EU, developing nations such as Bhutan, Nepal, Sri Lanka and the Maldives are surging ahead. By Reihana Mohideen, The University of Melbourne.

Communications

Using various communications channels, MEI contributes to the national energy debate by presenting a range of views on relevant and critical industry issues.

energy@melbourne: MEI's monthly e-newsletter

MEI's monthly external newsletter, energy@melbourne, is our key communication tool. The e-newsletter has a subscriber list of over 6,000 individuals from industry, government, academia, and the wider community. All public engagement initiatives are promoted through this newsletter, as are MEI researchers' projects and successes, and other relevant industry news. Newsletter subscribers were well engaged over 2025, with each newsletter attracting above industry average open rates. Read the 2025 editions of energy@melbourne below.

[energy@melbourne: February 2025](#)

[energy@melbourne: March 2025](#)

[energy@melbourne: April 2025](#)

[energy@melbourne: May 2025](#)

[energy@melbourne: June 2025](#)

[energy@melbourne: July 2025](#)

[energy@melbourne: August 2025](#)

[energy@melbourne: September 2025](#)

[energy@melbourne: October 2025](#)

[energy@melbourne: November 2025](#)

[energy@melbourne: December 2025](#)

Media

The MEI Director, Program Leaders, and Fellows are often called on by media to provide expert commentary relating to the Australia's energy sector. In 2025, numerous interviews were given by members of the Melbourne Energy Institute, and many of these were syndicated across multiple publications Australia wide. The following provides a snapshot of some of the interviews and media articles featuring MEI researchers in 2025.

- **5 March 2025.** Prof. Michael Brear was interviewed by ABC's The World Today: [**Questions after Commonwealth cans renewable project**](#)

- **14 March 2025.** Prof. Pierluigi Mancarella was interviewed on live breakfast radio by [**ABC South Australia**](#) about SA's power infrastructure and recent power outages.
- **29 April 2025.** Prof. Pierluigi Mancarella was interviewed live on CNA TV (Singapore's national media network, Mediacorp) about the 2025 power outages across Spain and Portugal.
- **12 September 2025.** Prof. Michael Brear was interviewed by ABC Radio National: [**Taxing carbon on the border and at sea**](#)
- **15 October 2025.** Prof. Michael Brear was interviewed by the Sydney Morning Herald: [**Australia to stare down Trump's threats over new global carbon tax**](#)
- **23 October 2025.** Prof. Michael Brear was interviewed by ABC Radio National: [**What does a delay in a shipping emissions cut mean for Australia?**](#)
- **13 November 2025.** Prof. Michael Brear was interviewed by ABC radio for [**Melbourne Drive**](#).

Net Zero Australia (NZAu) Project media activity:

- **14 August 2025.** NZAu media release: [**The Net Zero Australia Project launches Phase 2 of its groundbreaking research**](#)
- **24 September 2025.** The NZAu project was quoted in an article by The Australian: [**Go for gas to power green goals – Narrabri's 'time has come', says Malinauskas**](#)
- **24 September 2025.** The NZAu project was quoted in an article in The Australian: [**Climate targets costlier and slower than leaders admit**](#)
- **24 September 2025.** An op-ed co-authored by Prof. Michael Brear and Prof. Chri Grieg (Princeton University) was published by The Australian: [**Net-zero targets at risk**](#)
- **10 December 2025.** NZAu media release: [**Net Zero Australia Project to launch new report on the nation's decarbonisation progress**](#)
- **11 December 2025.** The NZAu project was quoted in an article by The Australian Financial Review: [**Plant 200,000ha of forest every year to hit net zero: report**](#)
- **30 December 2025.** An op-ed co-authored by UoM's Prof Michael Brear and Alasdair McCall was published by The Australian: [**Mixed report card for energy push**](#)
- **30 December 2025.** The NZAu project was quoted in an article by The Australian: [**Green energy goal runs late**](#)
- The NZAu Project's modelling and reports were widely cited in media and political debate, with some of its findings being misrepresented. On **5 November 2025**, the NZAu Project released the following statement in response to coverage of its

modelling being misused: **The cost of Australia reaching net zero emissions**. This led to multiple media reports, of which a selection are listed below:

- [Academics say their net zero costing is being 'misrepresented' after Nationals repeat \\$9tn claim \(The Guardian, 5 Nov 2025\)](#)
- ["\\$300 billion, not \\$9 trillion:" Net zero report authors put record straight after Nationals inflate costs 30-fold \(Renew Economy, 5 Nov 2025\)](#)
- [The \\$9tn cost to Australians: how a 'misrepresented' figure on net zero took on a life of its own \(The Guardian, 19 Nov 2025\)](#)
- [Australia will hit climate targets late: Net Zero Australia \(24 Sep 2025\)](#)
- [2035 target falls short of scientific consensus \(The Energy, 25 Sep 2025\)](#)
- [Two words in Sussan Ley's nonsensical net zero press conference might come back to haunt her \(The Sydney Morning Herald, 13 Sept 2025\)](#)

MEI website user statistics:

Website user statistics suggest good engagement, with 45,590 sessions showing solid traffic, while 8,767 new users indicate moderate growth with a strong base of returning visitors. A 31.83% bounce rate is better than typical benchmarks.

Sessions: 45,590
New users: 8,767
Bounce rate: 31.83%

Social media

MEI's research reached a sizable audience through its social media platforms in 2025.

LinkedIn:

MEI's LinkedIn metrics outperform typical benchmarks, with strong visibility, high clicks, and an exceptionally high 29.5% engagement rate. Follower growth and page interest were steady, indicating overall strong performance.

Total impressions: 75,447
Total clicks: 7,605
Total reactions: 1,393
Total engagement rate: 29.5%
Page views: 1,251
Total followers: 4,727
New followers in 2025: 613

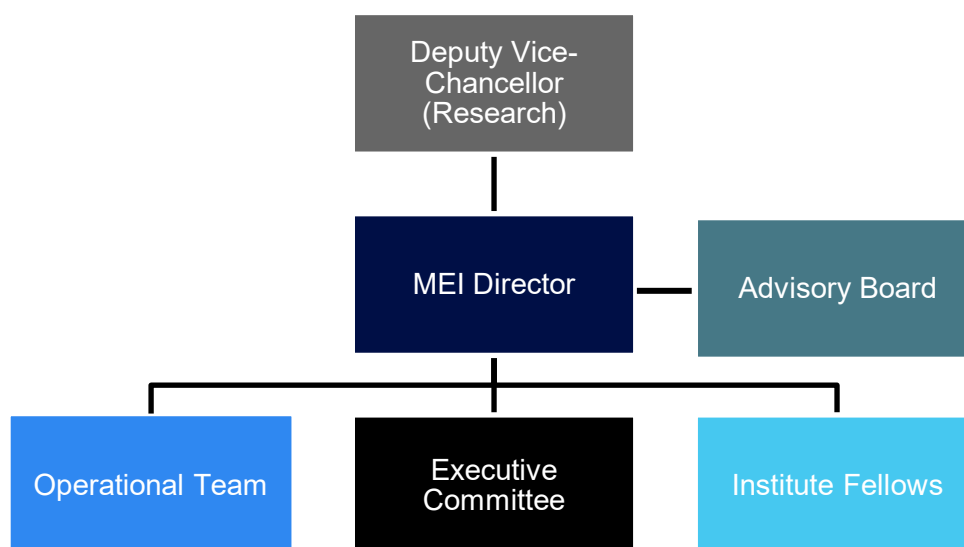
YouTube:

MEI recorded numerous public seminars over 2025. The recordings were posted to the Science at Melbourne YouTube channel, and listed on the MEI website (noting that not all events held in 2025 were recorded).

Total views: 1,866
Watch time: 307 hours
Total impressions: 37,177
Average impression click-through rates: 1.93%

Governance

The Melbourne Energy Institute reports to Deputy Vice-Chancellor (Research) for operational matters. The Institute Director, team of operational professional staff, and the Executive Committee work together to operate MEI, and the Advisory Board provides strategic advice. We also work collaboratively with our Institute Fellows in our research programs and partnerships.



2025 Advisory Board

Andrew Stock, *Fellow*, Climate Council, and energy transition advisor (Chair)

Michael Bielinski, *Regional Head of Projects (Asia Pacific Region)*, Siemens Energy

Mel Cutler, *Sustainability and ESG leader*

Sally Farrier, *Company Director, and utility industry expert*

Tony Wood, *Energy Program Director, Grattan Institute*

2025 Executive Committee

Professor Richard Sandberg, *Director*, Melbourne Energy Institute (Chair)

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Associate Professor Shiahuey Chow, *Senior Lecturer*, Department of Infrastructure Engineering

Dr Chris Goodes, *Enterprise Professor – Sustainable Resources*, Faculty of Engineering and Information

Anita La Rosa, *Institute Manager*, Melbourne Energy Institute

Professor Pierluigi Mancarella, *MEI Program Leader Energy Systems, and Chair Professor of Electrical Power Systems*, Department of Electrical and Electronic Engineering

Professor Kathryn Mumford, *MEI Program Leader Hydrogen and Clean Fuels, and Head of Department*, Chemical Engineering

Associate Professor David Keith, *MEI Program Leader Power Generation and Transport*

Associate Professor Wallace Wong, *MEI Program Leader Energy Materials, and Senior Lecturer*, School of Chemistry

Dr Ye Wang, *Deputy Program Leader, Energy Systems*

Dr Tim T. Werner, *Deputy Program Leader, Heavy Industry and Resources*

2025 Fellowship members

Dr Moustafa Ali, Research Fellow, Mechanical Engineering, Faculty of Engineering and IT
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A/Prof. Christian Brandl, Department of Mechanical Engineering, Faculty of Engineering and IT
Prof. Michael Brear, Department of Mechanical Engineering, Faculty of Engineering and IT
A/Prof. James Bullock, Department of Electrical and Electronic Engineering, Faculty of Engineering and IT
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A/Prof. Sangeetha Chandra-Shekeran, Faculty of Architecture, Building and Planning
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A/Prof. Kate Coleman, Faculty of Education
Prof. Peter Cook, School of Earth Sciences, Faculty of Science
Prof. Robert Crawford, Melbourne School of Design, Faculty of Architecture, Building and Planning
Dr Daniel Creedon, School of Physics, Faculty of Science
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Dr Carol Hua, School of Chemistry, Faculty of Science
Dr Alexander Mitchell Hynd, Asia Institute, Faculty of Arts
Prof. David Jamieson, School of Physics, Faculty of Science
A/Prof. David Jones, School of Chemistry, Faculty of Science
A/Prof. David Keith, Department of Business Administration, Melbourne Business School
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A/Prof. Han Li, Centre for Actuarial Studies, Faculty of Business and Economics

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Ms Becca Liu, Melbourne Climate Futures, Faculty of Medicine, Dentistry and Health Sciences
Dr Jin Liu, School of BioSciences, Faculty of Science
Prof. Zhe Liu, Department of Mechanical Engineering, Faculty of Engineering and IT
Prof. Pierluigi Mancarella, Department of Electrical and Electronic Engineering, Faculty of Engineering and IT
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Dr Ye Wang, School of Mathematics and Statistics, Faculty of Science
Prof. Rachel Webster, School of Physics, Faculty of Science
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Dr Trissia Wijaya, Asia Institute, Faculty of Arts
A/Prof. Wallace Wong, School of Chemistry, Faculty of Science
Prof. Rebecca Yang, Department of Infrastructure Engineering, Faculty of Engineering and IT
Prof. Yi Yang, Department of Mechanical Engineering, Faculty of Engineering and IT
Prof. Yinghui Tian, Department of Infrastructure Engineering, Faculty of Engineering and IT

Financial Summary

University Income	Actuals
Core funding from Deputy Vice-Chancellor (Research)	1,070,260
Other income	74,386
Total Income	1,144,646

Expenditure from University income	
Director - administration	181,272
Institute staff salaries	283,129
Administration and general costs	12,000
Events and communication	12,000
Director - research	66,367
Research project support salaries	103,659
Research project seed funding	412,501
Partnership development	55,774
Total Expenditure	1,126,704

External Income	
ARC	5,450,000
Industry – direct contract and leveraged	10,942,000
Government	0
Philanthropy	0
Total External Income	16,392,000

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