



Federal Ministry
for Economic Affairs
and Energy

Federal Ministry
of Education
and Research



AUSTRALIAN-GERMAN ENERGY SYMPOSIUM 2019

18th and 19th of September 2019
Old Quadrangle, Melbourne, Victoria

Some of the confirmed speakers at the Energy Symposium include:



Professor Ken Baldwin
Director, Energy Change
Institute
Australian National
University

Professor Ken Baldwin is the Director of the Energy Change Institute at the ANU, and Deputy Director of the Research School of Physics and Engineering.

From 2011 – 2013 Professor Baldwin was a member of the Project Steering Committee for the Australian Energy Technology Assessment (AETA) produced by the Bureau of Resources and Energy Economics (BREE). He has been a Board member of the South-East Region of Renewable Energy Excellence (SERREE) since 2014. In 2015 he was appointed as a member of the Socio-Economic Modelling Advisory Committee to the South Australian Nuclear Fuel Cycle Royal Commission. Professor Baldwin is also chair of the Energy Cluster of the Australia-Indonesia Centre from 2015.

Professor Baldwin is an inaugural ANU Public Policy Fellow, and winner of the 2004 Australian Government Eureka Prize for Promoting Understanding of Science, for his role in initiating and championing “Science meets Parliament”.

In 2007, Professor Baldwin was awarded the W.H. Beattie Steele Medal, the highest honour of the Australian Optical Society. In 2010 he was awarded the Barry Inglis Medal by the National Measurement Institute for excellence in precision measurement. Professor Baldwin is a Fellow of the American Physical Society, the Institute of Physics (UK), the Optical Society of America and the Australian Institute of Physics.



Marc Barrington
Chief Executive Officer
SIMEC Energy Australia

Marc Barrington joined SIMEC Energy Australia (SEA) as CEO in July 2018. Marc works with a strong team of executives at SEA with the aim of delivering compelling solutions for commercial and industrial consumers of energy, including the requirements of the Liberty/GFG Group.

He is an experienced executive with significant exposure to Australia’s energy markets. Prior to

joining SIMEC Energy, Marc was Head of Sales, Asia Pacific at wind turbine OEM, Senvion, and prior to this, he held senior positions at AGL Energy including General Manager Energy Services, Head of Eco-Markets and Senior Energy Trader.



Dr. Marnie Shaw
Research Leader, Battery
Storage and Grid
Integration Program
Australian National
University

Marnie Shaw is a Research Leader in the Battery Storage and Grid Integration Program at the Australian National University and convenor of the Energy Efficiency research cluster at the ANU's Energy Change Institute. Dr. Shaw's research interests lie in applying analytics and machine learning to a range of data-rich problems, including the integration of renewable energy into the electricity grid. At the ANU, she has been looking at how community energy models (e.g. shared battery systems) can support increasing amounts of renewable energy in the grid, reduce energy costs for consumers, and address important issues around energy equity.



Dr. Falk Boemeke
International Cooperation
on Energy Division
Federal Ministry for
Economic Affairs &
Energy, Germany

Dr Falk Bömeke is currently heading the division "International Cooperation on Energy" at the Federal Ministry for Economic Affairs and Energy. Among other responsibilities he specifically covers the bilateral energy cooperation with the U.S., Canada, Australia and South Africa as well as the Berlin Energy Transition Dialogue, a large annual international energy conference.

Previously he worked as Head of the Economic and Energy Division at the German Embassy in Pretoria, as Economic Counselor at the German Embassy in Washington and in the European Department of the Federal Foreign Office in Berlin as well as in the Parliamentary and Cabinet Division, the Automobile and Electric Vehicle Division and the European Law Division at the Federal Ministry for Economic Affairs.

Dr Falk Bömeke has studied law at the Universität zu Köln (University of Cologne), the Université de Paris 1 Panthéon Sorbonne (University of Paris) and the University of Sydney. He holds a law degree and PhD of the University of Cologne and an LL.M. (Master of Law) of the University of Sydney.



Professor Michael Brear
Director, Melbourne
Energy Institute
University of Melbourne

Professor Michael Brear is the Director of the Melbourne Energy Institute at the University of Melbourne. He guides the Institute's research on the technical, economic, environmental and social impacts of energy systems. His own research is collaborative with industry and government on the technical, economic and environmental analysis of transport and energy systems; systems with reciprocating engines and gas turbines; combustion of conventional and alternative fuels.

Michael is a Fellow of Engineers Australia and the Australian Institute of Energy and he previously established the University's Master of Energy Systems. Prior to commencing at the University, he worked for ICI Australia (now Orica), then undertook graduate studies at Cambridge University and post-doctoral research at the Massachusetts Institute of Technology.



Dr. Amanda Cahill
CEO
The Next Economy

Amanda is the CEO of The Next Economy. Originally trained as an anthropologist, Amanda has spent over two decades working on community development projects across Asia, the Pacific and regional Australia. The focus of her work at The Next Economy is to support communities to develop more resilient, just and sustainable regional economies. Most of this work involves supporting regional communities in Australia to transition away from fossil fuels and towards a zero emissions economy. Amanda has a PhD in Human Geography from the Australian National University and has adjunct positions with The University of Queensland and University of Sydney.



Karen Cain
Chief Executive Officer
LaTrobe Valley Authority

Karen has significant senior experience working across government, leading strategic innovation, and developing and implementing policy in the public sector.

Karen's career in education as a teacher, principal and senior public sector manager in two states, Victoria and Tasmania, led to experience in working across communities to link and to build partnerships that harness capacity and growth. Karen's direct work with families and the community as a principal in government schools

and as a regional director, particularly in regional areas has led to a strong understanding and commitment to public sector practice that involves and benefits those that it serves.

More recently her work has focussed on the role of system leadership to design and establish a practice that ensures that implementation of state government policy is led by and with community built on strong evidence of need and expertise. This involves building partnerships for collective effort to identify gaps and opportunities and to bring sectors together for common purpose and action based on what works for long term sustainable gain. Her experience in developing and delivering on issues that reflect what matters to community and government has led to her appointment as Chief Executive Officer at the Latrobe Valley Authority, which she has held since April 2017.

Karen is a fellow of Leadership Victoria's Williamson Community Leadership Program and was also a member of the Gippsland Regional Managers Forum for six years. She was awarded the Institute for Public Administration Australia Victorian Top 50 Public Sector Women Award in 2018. For the past 24 years, she has owned and operated a commercial beef farm with her husband at Boolarra South in South Gippsland Victoria.



Professor Michael Cardew-Hall
Pro Vice-Chancellor
(Innovation)
The Australian National
University

Professor Michael Cardew-Hall is a Chartered Engineer and a Fellow of the Institution of Mechanical Engineers and Institution of Engineers Australia. He has held technical and management positions with GEC and Rolls-Royce Aero Engines in the UK prior to joining ANU in 1993. He has been an active researcher in the area of CAD, Computer Aided Manufacture, application of machine learning and knowledge based systems to manufacturing and optimisation of manufacturing processes, in particular sheet metal forming. Much of this work has been carried out in collaboration with industry partners, particularly in the automotive sector.

Professor Michael Cardew-Hall has ongoing interest in technology transfer, commercialisation and industrial policy and has been involved in a number of spin off start-up companies. He has served as a Director of the Australian Solar Institute, Lithicon AS, Simile Systems, ATPi and is currently Chair of the Boards of Australian Scientific Instruments and the Social Research Centre, and CEO of ANU Enterprise.

Professor Michael Cardew-Hall was previously CEO of ANU Connect Ventures, a pre-seed venture capital fund associated with ANU and holds a seat on the ANU Connect Ventures Investment Committee. He also held the positions of Head Department of Engineering, Deputy Dean, and Acting Dean of the College of Engineering & Computer Science at ANU.



The Hon. Lily D'Ambrosio
Minister for Energy,
Environment and Climate
Change
Minister for Solar Homes
Victorian Government

The Hon. Lily D'Ambrosio is a member of the Australian Labor Party and has represented the electorate of Mill Park in the Victorian Legislative Assembly since 2002. In 2016 she became Minister for Energy, Environment and Climate Change and Minister for Suburban Development, and on the recent return of the Andrews Labor Government she was appointed Minister for Energy, Environment and Climate Change and Minister for Solar Homes.

Minister D'Ambrosio is a leader in action on climate change, renewable energy and energy efficiency in Australia. She oversaw the passage of the Climate Change Act, Victoria's landmark climate legislation which saw it become the first Australian state to legislate in line with the Paris Agreement for net zero emissions by 2050. The Minister has also overseen an overhaul of the Environmental Protection Act 1970, refocussing the regulatory body to focus on the prevention of harm to human and environmental health.

She remains the only woman responsible for energy across the nine national and sub-national governments in Australia, and is a leading advocate for a modernised Australian energy system that facilitates a smooth transition into a clean, reliable and affordable energy future.



Benedikt S. Deuchert MSc
(ETH)
Project Manager Central &
Western Europe, Entelios
AG, Munich, Germany

Benedikt Deuchert is responsible for developing strategic business opportunities for Entelios, one of the leading demand response companies in Europe. He is currently responsible for the activities of the NODES marketplace for local flexibility resources in Central and Western Europe. He is also engaged in research projects as well as regulatory affairs in this context.

Before joining Entelios, he gained experience with Siemens Building Technologies and BMW of North America.

Benedikt Deuchert holds an MSc (Master of Science) degree in Electrical Engineering from the Swiss Federal Institute of Technology (ETH) Zurich.



Andrew Dickson
Development Manager
Asian Renewable Energy
Hub

Andrew Dickson has been a renewable energy project developer for 15 years, and has developed wind, solar thermal and solar PV projects in South Australia, Queensland, the ACT, NSW and Western Australia.

He is Development Manager for the Asian Renewable Energy Hub, a 15GW wind and solar project in the Pilbara in Western Australia, which will produce green hydrogen at scale, primarily for export.



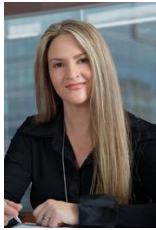
Vince Duffy
Executive Director,
Department for Energy
and Mining
South Australian
Government

Graduate Diploma in Advanced Economics (University of Adelaide)

Bachelor of Economics (University of Adelaide)

I have been working on energy market reform issues, primarily economic regulation, National Electricity Market issues and sustainability, since joining the Electricity Reform & Sales Unit (ERSU) in August 1999.

My previous experience in the Government has included working as an economist in the Economics Branch of Treasury and Finance and at the Passenger Transport Board as well as working as a budget officer in Treasury and Finance. From 1982 until 1993, I was employed as a Licensed Aircraft Maintenance Engineer with Australian Airlines.



Karen Durand
Corporate Sustainability
Manager
Incitec Pivot

Karen Durand is an Environmental Geoscientist who is Corporate Sustainability Manager of Incitec Pivot Limited, a global fertiliser and explosives manufacturing company with a multibillion-dollar ammonia manufacturing base in Australia. Before working for Incitec Pivot, Karen's research investigated the use of stable oxygen and carbon isotope ratios in freshwater molluscs, speleothems and tufas from northwest Queensland as indicators of past average temperature curves for their use in palaeoclimate reconstruction and the calibration of predictive climate change models. Karen has a working knowledge of the issues associated with climate change for both the agricultural and mining customers served by Incitec Pivot and emissions intensive manufacturers. She also understands the challenges facing large industrial users of energy, particularly in Australia. Karen works closely with engineers involved in the feasibility assessment and development of 'green ammonia' projects within Incitec Pivot.



Paul-Georg Garmer
Senior Manager Public
Affairs
TenneT

Senior Manager Public Affairs at TenneT TSO GmbH since April 2013, Mr. Garmer came from the German Association of Energy and Water Industries (BDEW) where he started in 2008 as deputy head of the department of energy and environmental policy. Prior he worked from 2003 till 2008 as head of energy politics and regulation at the "Bundesverband der deutschen Gas- und Wasserwirtschaft" (BGW). Previously he worked as head of office for a German Member of Parliament (Bundestag) in Bonn and Berlin.



**Professor Ross Garnaut
AC**
Professorial Research
Fellow in Economics
University of Melbourne

Professor Ross Garnaut AC is a Professorial Research Fellow in Economics at The University of Melbourne. He was previously distinguished Professor of Economics at the Australian National University, the ANU Director of the Asia Pacific School of Economics and Management and Honorary head of the Department of Economics. He is the author of numerous publications in scholarly journals on international economics, public finance and economic development, particularly in relation to East Asia and the Southwest Pacific. Recent books include *The Great Crash of 2008* (with David Llewellyn-Smith, 2009); *Dog Days: Australia After the Boom* (2013); and *Forty Years of Reform and Development in China* (2018). He is Distinguished Fellow of the Australian Economic Society, Distinguished Fellow of the Australian Agricultural and Resources Economic Society and Honorary Professor of the Career Academy of Social Sciences.

Professor Garnaut has had longstanding and successful roles as policy advisor, diplomat and businessman. He was the senior economic policy official in Papua New Guinea's Department of Finance in the years straddling Independence in 1975, principal economic adviser to Australian Prime Minister Bob Hawke 1983-1985, and Australian Ambassador to China 1985-1988.

He is the author of a number of influential reports to the Australian Government, including *Australia and the Northeast Asian Ascendancy*, 1989, *The Review of the Federal State Financial Relations* (with Vince Fitzgerald) 2002, *The Garnaut Climate Change Review 2008*, and *The Garnaut Review 2011: Australia and the Global Response to Climate Change*.

Professor Garnaut has chaired the boards of major Australian and International companies since 1988, including Lihir Gold Ltd (1995 – 2010); Bank of Western Australia Ltd (1988 – 1995); Primary Industry Bank of Australia Ltd (1989 – 1994); Papua New Guinea Sustainable Development Limited Pty Ltd (2002 – 2012) and its subsidiary OK Tedi Mining Ltd; Lonely Planet Pty Ltd; Aluminium Smelters of Victoria Ltd; ZEN Energy Technologies Pty Ltd. In September 2017, ZEN Energy formed a strategic partnership with global company GFG Alliance and SIMEC Energy was founded. Professor Garnaut remains as President of SIMEC Energy Australia. Professor Garnaut was made Officer of the Order of Australia (AO) in 1991 for service to education and international relations and a Companion of the Order of Australia (AC) in 2007 for service on climate change and energy.



Dr. Jemma Green
Co-Founder and Chair
Powerledger

Dr. Jemma Green is Power Ledger's Chair, providing strategic external relations, risk management and leadership development for the company. Jemma has more than 15 years' experience in finance and risk advisory, having worked for 11 years in investment banking in London.

Jemma is a research fellow at the Curtin University Sustainability Policy (CUSP) Institute, whose doctoral research into “Citizen Utilities” has produced unique insights into the challenges and opportunities for the deployment of rooftop solar PV and battery storage within multi-unit developments and the application of the blockchain.

Jemma is experienced in the challenges of sustainable cities through her role as an independent Councilor of the City of Perth. She is also the Chair of Climate-KIC Australia, a founder of the Global Blockchain Business Council and a contributor to Forbes on blockchain disruption.



Anthea Harris
Deputy Secretary Energy
Group
Department of
Environment, Land, Water
and Planning

Anthea Harris is Deputy Secretary of the newly formed Energy Group within the Department of Environment, Land, Water and Planning. Prior to this, Anthea was Lead Deputy Secretary of Strategy and Planning Group at the Department of Economic Development, Jobs, Transport and Resources.

Anthea was previously Chief Executive Officer of the Climate Change Authority, held senior roles within the Commonwealth Department of Climate Change and Energy Efficiency, led the Secretariat for the National Emissions Trading Taskforce and held positions with the Victorian Department of Premier and Cabinet, Frontier Economics and at the Productivity Commission.



Dr. Luke Haywood
Researcher
Mercator Research
Institute on Global
Commons and Climate
Change

Dr. Luke Haywood heads research on the Economic consequences of Coal Exit at the Mercator Institute on Global Commons and Climate Change (MCC Berlin) and is guest researcher at the German Institute of Economic Research (DIW Berlin) and the Research Institute of the Federal Employment Agency (IAB). His current research concerns on the consequences of the Coal Exit for directly and indirectly affected workers as well as for coal mining regions in the short and long run. He has closely followed the German Coal Commission and evaluated associated policy measures. He is also interested in the effects of other public policy, especially on the labor

market. He has analyzed the role of minimum wages, maternal employment protection, subsidies for low-wage employees, and unemployment benefits.

Dr Luke Haywood teaches in the PhD program of the Berlin Doctoral Program in Economics and Management Science (BDPEMS) and at the Berlin School of Economics and Law (HWR). Prior to joining MCC, he was labor economist at the OECD and the German Institute for Economic Research (DIW Berlin). He has consulted for the World Bank, Oxford Analytica, and the London School of Economics. His work uses detailed administrative as well as household survey data from the German, French, British, Ghanaian, Japanese, and Nigerian labor markets. He has taught at the University of Oxford, University Paris 1 Panthéon- Sorbonne and University Paris-Est. He holds a PhD from the Paris School of Economics and an M.Phil in Economics and a B.A. in Philosophy, Politics and Economics from the University of Oxford.



Jochen Homann
President of the
Bundesnetzagentur

Jochen Homann has been President of the Bundesnetzagentur (Federal Network Agency) since 2012. Prior to this, he was responsible as State Secretary at the Federal Ministry of Economics and Technology for energy policy, industrial policy and technology policy. From 2006 to 2008 Mr Homann was head of the directorate-general for economic policy, and before that in charge of the policy division for external economic affairs and the division for economic and structural policy research. From 1991 to 2001 Mr Homann headed the policy division in the directorate-general for economic and financial policy at the Federal Chancellery.



Professor Frank Jotzo
Co-Director, Energy
Transition Hub
Director, Centre for
Climate and Energy Policy
Australian National
University

Professor Frank Jotzo is the inaugural Director of the Centre for Climate Energy and Policy, a lead author of the IPCC's 5th and 6th Assessment Reports, co-Director of the Energy Transition Hub and co-editor-in-chief of the journal Climate Policy. He has been in numerous formal and informal advisory roles to governments, including in Australia's Garnaut Climate Change Review and to Indonesia's Ministry of Finance. He has advised international organisations including the World Bank and leads a research program with Chinese partners.



Stefan Kapferer
Chairman of the General
Executive Management
Board
German Federal
Association of Energy and
Water Industries (BDEW)

Stefan Kapferer has been Chairman of the General Executive Management Board of the German Federal Association of Energy and Water Industries (BDEW) since 2016. Before joining the BDEW, he held several high-level positions, among them as Deputy Secretary-General of the OECD, State Secretary in the Federal Ministry for Economic Affairs and Energy and State Secretary for the Federal Ministry of Health.



Michael Lord
Zero Carbon Researcher
Energy Transition Hub

Michael Lord is researching how Australia can convert its vast potential to generate renewable energy into energy-intensive exports. Until May Michael Lord was Head of Research at award-winning climate think tank Beyond Zero Emissions where he explored opportunities to eliminate emissions from the manufacturing sector. He was lead author of BZE's Electrifying Industry report showing the benefits of switching from fossil fuels renewable electricity in industrial heat processes. He also wrote Rethinking Cement – the world's first report to show how to eliminate emissions from the cement sector, as well as 'The 10 Gigawatt Vision – How renewable energy can power jobs and investment in the Northern Territory'.



Holger Lösch

Deputy Director General &
Member of the Executive
Board
Federation of German
Industries (BDI)

Since becoming a Member of the Executive Board in 2011, Holger Lösch is responsible for energy research and policy at BDI. Holger Lösch is a trained journalist and was head of programming at Bayerischer Rundfunk Television. Afterwards, Holger Lösch moved from Bayerischer Rundfunk to the Schörghuber Group in Munich and was head of the central area Communication and Marketing and member of the group management committee.



Dr. Gunnar Luderer

Co-Director, Energy
Transition Hub
Deputy Chair, Research
Domain III -
Transformation Pathways
Potsdam Institute for
Climate Impact Research
(PIK)

Gunnar Luderer leads the Energy Systems Group at PIK, and is the Lead Scientist for the REMIND Integrated Energy Economy Climate Model. He also serves as Deputy Chair of Research Department III - Transformation Pathways. He was a lead author of the 2013 and 2018 UNEP Emissions Gap Reports and a contributing author to the Fifth Assessment Report, the Special Report on Renewable Energy Sources as well as the Special Report on Warming of 1.5°C of the Intergovernmental Panel on Climate Change. He studied Physics, Economics and Atmospheric Sciences at the University of Heidelberg and Oregon State University. He performed his doctoral studies at the MPI for Chemistry in Mainz.



Dr. Silvia Madeddu

Senior Industry Expert
Potsdam Institute for
Climate Impact Research
(PIK)

Silvia Madeddu is a postdoctoral researcher at PIK (Research Domain 3 – Sustainable Solutions) and a member of the Energy Transition Hub. She joined the START project in 2018 and her research focuses on decarbonisation of energy-intensive industries. Silvia holds a Master Degree in Science from The University of Padova, Italy, and a PhD in Materials Science and Engineering from The University of Sheffield, United Kingdom. After completing the PhD, she worked for a company as Chief Scientist, specialising on the development of Carbon Capture and Utilisation technologies.



Dr. Felix Matthes

Research Coordinator for
Energy & Climate Policy
Öko-Institut, Institute for
Applied Ecology

Felix Matthes is the Research Coordinator for Energy & Climate policy at the Öko-Institut, Institute for Applied Ecology. Among many others, he focuses on long-term decarbonisation strategies, energy market design, carbon pricing and the policy mix of energy and climate policy. He is a member of the German branch of the International Association for Energy Economics and the German Association of Policy Science and serves at different advisory boards. In 2018/2019 he was a member of the German Coal Commission.



**Professor James
McCluskey AO**

Deputy Vice-Chancellor
(Research)
University of Melbourne

Professor James McCluskey AO FAA FAHMS is the Deputy Vice-Chancellor (Research) at the University of Melbourne where he has previously held senior roles as Pro Vice-Chancellor (Research Partnerships) and Professor of Microbiology and Immunology.

He is a Redmond Barry Distinguished Professor in Microbiology and Immunology and a Clarivate highly cited researcher for his research on immune recognition and genetic control of immune responses. Professor McCluskey established the South Australian division of the Australian Bone Marrow Donor Registry and has consulted for the Australian Red Cross in solid organ and haemopoietic stem cell transplantation matching since 1990.

He has received several national and international awards for his research and is a Fellow of both the Australian Academy of Science and the Australian Academy of Health and Medical Sciences. In 2018 he was Awarded Officer (AO) in the General Division of the Order of Australia for his contributions to immunity and medical education.

Professor McCluskey has previously served as a board member of the Bionics Institute, the Florey Institute of Neuroscience and Mental Health, St Vincent's Institute, the Burnet Institute and several cooperative research centres. He is currently a board director of the Walter and Eliza Hall Institute of Medical Research, Australian Friends of Asha Slums, Trinity College Melbourne, Nossal Institute Ltd, the Defence Science Institute and UoM Commercial. He is a foundation member of the governing board of the Atlantic Institute (Oxford) and a member

of the advisory board of the Atlantic Fellows for Social Equity, a program to foster indigenous leadership for social change.

Professor McCluskey led the development of the Peter Doherty Institute for Infection and Immunity, a joint venture between The University of Melbourne and Melbourne Health.



Dylan McConnell
Energy Market Researcher
Energy Transition Hub

Dylan is a PhD student at the University of Melbourne's Climate and Energy College, with several years experience as an energy system analyst at the Melbourne Energy Institute. Dylan has a detailed understanding of the cost structure of energy technologies and the Australian National Electricity Market. He was an author of the Melbourne Energy Institute's Renewable Energy Technology Cost Review, commissioned by the Garnaut Review, an investigation of renewable technology costs and projections.

He has also developed simple energy market models for analysing the National Electricity Market electricity dispatch and price-setting system, in the context of understanding the effect of renewable generation and storage technologies, and wholesale electricity demand. More recently, Dylan has lead the openNEM project, which aims to make the wealth of public National Electricity Market (NEM) data more accessible to a wider audience.



A/Professor Malte Meinshausen
Co-Director, Energy
Transition Hub
Deputy Academic
Convenor, Australian-
German Climate and
Energy College
University of Melbourne

A/Prof Malte Meinshausen is co-Director, Energy Transition Hub at The University of Melbourne. Malte is also Deputy Academic Convenor and founding Director of the Australian-German Climate and Energy College. He holds a PhD in "Climate Science & Policy", a Diploma in "Environmental Sciences" from the Swiss Federal Institute of Technology, and an MSc in "Environmental Change and Management" from the University of Oxford, UK.

Before coming to The University of Melbourne, he was a senior research at the Potsdam Institute for Climate Impact Research (PIK) from 2006 to 2011 and continues close collaborations with the Potsdam Institute. Before joining the Potsdam Institute for Climate Impact Research (PIK) in 2006, he was a Post-Doc at the National Center for Atmospheric Research in Boulder, Colorado. He has been contributing author to the Fourth and Fifth Assessment Report of the Intergovernmental Panel on Climate Change, the Special Report on 1.5C degrees and is a lead author for the forthcoming Sixth IPCC Assessment Report.

In 2013, he received a Future Fellowship Award to investigate Australia's fair contribution towards a global mitigation effort. From 2005 to 2017, he was a scientific advisor to the German Environmental Ministry related to international climate change negotiations under the UNFCCC.



Professor Jan Minx
Co-Director, Energy
Transition Hub
Head of working group –
Applied Sustainability
Science
Mercator Research
Institute on Global
Commons and Climate
Change (MCC)

Professor Jan Minx is one of the co-Directors of the Energy Transition Hub. He is Professor for Climate Change and Public Policy at the Priestley International Centre for Climate at the University of Leeds and head of the working group Applied Sustainability Science at the Mercator Research Institute on Global Commons and Climate Change.

Jan takes an interdisciplinary research approach to issues of energy, climate change and sustainable development with applications to cities and infrastructure, global supply chain networks as well as historic and future transformation processes of societies and their governance.

A particular concern is the development of big data applications for research synthesis and global environmental assessments in times of big (i.e. vast and fast-growing) literature. He develops and promotes meta-analytical methods in the social sciences and humanities to stimulate systematic learning and studies processes at the science-policy interface.

Before joining the MCC, he was Professor for Science-Policy and Sustainable Development at Hertie School of Governance in Berlin. As Head of the Technical Support Unit of the Working Group 'Mitigation of Climate

Change' of the Intergovernmental Panel on Climate Change (IPCC) he coordinated the Working Group's contribution to the IPCC's Fifth Assessment Report that was published in 2013/2014. He was a senior research fellow at the departments for Sustainable Engineering and the Economics of Climate Change at the Technical University Berlin and the Stockholm Environment Institute.



Frederik Moch

Head of the Structural,
Industry and Service Policy
Department
German Trade Union
Confederation (DGB)

Frederik Moch is the Head of the Structural, Industry and Service Policy Department at the German Trade Union Confederation (DGB) in Berlin. In addition to the department's name giving topics, energy, environmental, climate, mobility and crafts policy are also covered. The focus is on the just design of structural changes in the economy. Frederik Moch is also a lecturer at the Berlin School of Economics and Law. Before joining the DGB, he was working in the policy area at the German Solar Association.



**Professor Chloe Munro
AO**

Chair of the Energy
Transition Hub Advisory
Panel

Professor Chloe Munro AO is a distinguished leader in the public and private sectors, with expertise in energy, infrastructure and natural resources. In 2018 she was made an Officer of the Order of Australia and named as one of the AFR 100 Women of Influence.

Chloe is currently a Professorial Fellow at Monash University and Chair of the Energy Transition Hub Strategic Advisory Panel and the Impact Investment Group's two Solar Funds. She is also an independent director of the banking industry's New Payments Platform, a board member of Lucy Guerin Inc dance company, and a Fellow of the Australian Academy of Technology and Engineering.



A/Professor Tim Nelson
Executive General
Manager, Strategy and
Economic Analysis
Australian Energy Market
Commission

Associate Professor Tim Nelson is the Executive General Manager, Strategy and Economic Analysis, at the Australian Energy Market Commission. Up until November 2018, Tim was the Chief Economist of AGL Energy and led the company's public policy advocacy and its sustainability and ESG strategy. In particular, he led the development of AGL's revised Greenhouse Gas Policy, climate risk disclosure and the Powering Australian Renewables Fund (PARF) concept. He is also a member of the Westpac Stakeholder Advisory Council and is on the Research Committee for the Centre for Policy Development.

Tim is an Associate Professor at Griffith University and is widely published in Australian and international peer-reviewed journals. He has presented at conferences in Australia and throughout Asia and Europe. He holds a PhD in economics for which he earned a Chancellors' Doctoral Research Medal and a first-class honours degree in economics. Tim is also a fellow of the Governance Institute (FGIA and FCIS) and a graduate of the Australian Institute of Company Directors (GAICD).



Dr. Marco Nicolosi
Founding Partner
Connect Energy
Economics

Dr. Marco Nicolosi is a founding partner of Connect Energy Economics and his key expertise covers power market design, the integration of renewables, investment analysis and modelling energy markets and systems. He works as an advisor for federal institutions as well as for utilities and industry associations. Before founding Connect, he was with the Institute of Energy Economics at the University of Cologne (EWI), Germany, and with Ecofys Germany in Berlin.



Prof. Dr. Karen Pittel
Director of the ifo Center
for Energy, Climate and
Resources
ifo Institute for Economic
Research

Prof. Dr. Karen Pittel is Director of the Center for Energy, Climate and Resources at the ifo Institute – one of the most renowned economic research institutes in Germany. In addition, she is professor for Economics at the University of Munich. She is a member of the German Government's Advisory Council on Global Change since 2010 and was recently appointed to the steering committee of the science platform on the German Climate Protection Plan 2050. She advises industry and politics on energy and climate policy related issues. She has also

been active in advising scientific institutions in designing and developing research foci. Her main research focus is on energy, climate and resources as well as growth and sustainable development.



Catherine Raper
First Assistant Secretary,
Europe and Latin America
Division
Department of Foreign
Affairs and Trade

Catherine Raper is First Assistant Secretary, Europe and Latin America Division. She is a senior career officer in Australia's Department of Foreign Affairs and Trade (DFAT) with over 25 years' experience.

In her current position, Ms Raper is responsible for promoting and protecting Australia's prosperity, security and values through DFAT's engagement with Europe, Latin America and the Caribbean.

Previously, Ms Raper served as Australian Representative (Head of Post) in Taipei, Taiwan from 2014-2017. Her overseas experience has also included Minister-Counsellor (Trade) in the Australian Embassy in Washington DC (2010-2012), Counsellor to Australia's Permanent Mission to the WTO in Geneva (2003-2006) (working principally on WTO dispute settlement) and Third Secretary in the Australian Embassy in The Hague (1995-1998).

In Canberra, Ms Raper's previous positions have included Assistant Secretary, Trade Commitments Branch and Deputy Chief Negotiator for Australia at the commencement of the Trans-Pacific Partnership negotiations; Director, Free Trade Agreements Section and Legal Counsel on the Australia-Chile FTA negotiations; and Director, Canada, Latin America and Caribbean Section

Ms Raper holds Bachelor of Arts and Bachelor of Laws (first class honours) degrees from the University of Sydney, a Graduate Diploma in Foreign Affairs and Trade from Monash University and a Graduate Diploma in Legal Practice from the Australian National University. She is admitted as a legal practitioner in the Australian Capital Territory. Ms Raper is married with two children.



Alison Reeve

Taskforce Leader for
National Hydrogen
Strategy
Department of Industry,
Innovation and Science,
Australian Government

Alison Reeve is the Taskforce Leader for Australia's National Hydrogen Strategy. She has 15 years' experience in climate change and clean energy policy and technology, in the private, public and not-for-profit sectors. In 2018, Alison led the establishment of the Mission Innovation Hydrogen Challenge, a research, development and demonstration collaboration between 14 countries. She sits on the Board of the Australia-Germany Energy Transition Hub and is a government observer on the Board of Hydrogen Mobility Australia. She has a Bachelor of Engineering from the University of Queensland and a Masters of Public Policy from the Australian National University.



Dr. Daniel Roberts

Director, Hydrogen Energy
Systems Future Science
Platform
CSIRO Energy

Dr. Daniel Roberts is the Director of CSIRO's Hydrogen Energy Future Science Platform, a CSIRO initiative driving new science and technology development in support of the emerging Australian hydrogen industry. Prior to this role, Daniel led CSIRO's thermal and electrochemical research programs, and he continues to play a senior role in CSIRO's gasification RD&D activities.



Dr. Carsten Rolle

Head of the Department
of Energy and Climate
Policy
Federation of German
Industries (BDI)

Dr. Carsten Rolle, born in 1970 in Bonn, has been Head of the Department of Energy and Climate Policy at the Federation of German Industries (BDI) in Berlin since 2013. He has been secretary general of the German Member Committee of the World Energy Council since 2005, when he moved the association to Berlin. After completing a year of military service, he studied economics at the universities of Bonn and Münster, as well as Trinity College, Dublin. Upon receiving his degree in 1996, he became research assistant at the Center of Applied Economic Research Münster, where he worked on international benchmarking projects on behalf of the Bertelsmann Foundation. In 2000, he received his doctorate and was awarded the August Lösch Prize for outstanding academic research in the field of Regional Science.

He began his career at the Federation of German Industries in 2001, when he became manager responsible for telecommunications and postal services. From 2008 until 2012 he was Head of the Department of Energy and

Raw Materials where he developed the BDI's Raw Material Strategy and initiated the foundation of the Resource Alliance (Rohstoffallianz) of the German industry. During this time he also was a lecturer at Viadrina University, Frankfurt/Oder for industrial policy. In his current position he recently lead a comprehensive study project (Kompetenzinitiative Energie der deutschen Industrie) and successfully coordinated BDI's lobbying activities in Brussels and Berlin regarding the renewable energies act and the new energy and environmental state aid guidelines. Carsten Rolle is married and has two children.



Dr. Wolf-Peter Schill
Deputy Head, Department
Energy, Transportation,
Environment
German Institute for
Economic Research (DIW)

Dr. Wolf-Peter Schill is the deputy head of the Department of Energy, Transportation, Environment at the German Institute for Economic Research (DIW Berlin). His areas of expertise include power market modelling, renewable energy integration, energy storage, and different sector coupling strategies. Wolf has worked in various research projects supported by the European Commission, German federal ministries, and Stiftung Mercator. Besides, he is co-editor-in-chief of DIW's policy-oriented journal DIW Wochenbericht / DIW Weekly Report.

Wolf regularly presents his work at international and national conferences (e.g., European Economic Association, International Association for Energy Economics) and has co-authored numerous articles in leading international peer-reviewed journals such as *Nature Energy*, *European Economic Review*, *The Energy Journal*, *Renewable and Sustainable Energy Reviews*, *Applied Energy*, *Energy*, *Energy Policy*, *Economics of Energy* and *Environmental Policy* and others. He holds a diploma in environmental engineering (Dipl.-Ing.) and a doctoral degree in economics (Dr. oec.) from Technische Universität Berlin.



Prof. Dr. Robert Schlögl
Director of the Fritz Haber
Institute of the Max
Planck Society

In 1994 Prof. Dr. Robert Schlögl was appointed to his current position as Director at the Fritz Haber Institute of the Max Planck Society in Berlin. In addition, in 2011 he was also appointed Founding Director at the newly planned Max Planck Institute for Chemical Energy Conversion.

Director of the Max Planck
Institute for Chemical
Energy Conversion

Robert Schlögl's research focuses primarily on the investigation of heterogeneous catalysts, with the aim to combine scientific with technical applicability as well as on the development of nanochemically-optimized materials for energy storage. The application of knowledge-based heterogeneous catalysis for large-scale chemical energy conversion summarizes his current research focus. He is author/co-author of more than 1000 publications and registered inventor of more than 20 patent families. He is a member of the German Academy of Science and Engineering (acatech) and of numerous international organizations as well as a Fellow of the Royal Society of Chemistry. He received numerous national and international awards.



Rosemary Sinclair AM
Chief Executive Officer
Energy Consumers
Australia

Rosemary Sinclair AM is the CEO of Energy Consumers Australia, a company established by the Council of Australian Governments Energy Council of Ministers in 2015 to strengthen independent consumer advocacy on national energy market matters of strategic importance and material consequence for energy consumers, in particular household and small business consumers. ECA focuses on the long-term interests of consumers of energy with respect to the price, quality, safety, reliability and security of supply of energy services.

Rosemary is a Director of CPA Australia and a recent past Member (part-time) of the Australian Communications and Media Authority. Rosemary has many years of senior large-scale operations, communications and strategy experience in business and government across telecommunications, media and education. Rosemary has held a number of Directorships on unlisted company and not-for-profit Boards, both Australia and international.

Rosemary received the Order of Australia Award in the 2018 Queen's birthday Honours List. Rosemary has degrees in Arts, Law and Business and a Masters of Commerce from UNSW. Rosemary is a qualified CPA and Fellow of the Australian Institute of Company Directors.



David Swift

Independent Adviser on
Energy Market
Development
Energy Security Board

David has worked in the electricity industry for many years, initially in South Australia. He has worked on, or been involved in, the national energy markets in various roles since the late 1990s including through its inception in 1998 and development of the Rules through its early years.

David was a member of the executive leadership team of the Australian Energy Market Operator (AEMO) from its inception until 2019. AEMO has responsibility for operating the electricity and gas markets in eastern and southern Australia and a range of planning and forecasting roles related to these markets. Since November 2015 AEMO's responsibilities have extended to Western Australia.

Prior to the formation of AEMO, David was the Chief Executive of the South Australian Electricity Supply Industry Planning Council. David has had a strong involvement in work to integrate renewable energy into the national grid both in the ESIPC and AEMO. He led AEMO's "Future Power System Security Program" seeking to ensure that the security of Australia's evolving energy markets is maintained with the changing generation mix.

David is now an independent consultant advising the Energy Security Board on energy market development. He is also a Commissioner with the Essential Services Commission of South Australia.



Dr. Falko Ueckerdt

Managing Director –
Germany, Energy
Transition Hub
Postdoctoral Researcher
Potsdam Institute for
Climate Impact Research
(PIK)

Dr. Falko Ueckerdt is a postdoctoral researcher at the Potsdam Institute for Climate Impact Research (PIK) and project leader of the START project.

Dr Ueckerdt works in international projects with researchers from all over the world, including China, USA, India, Europe and Australia. In the CD-links project (<http://www.cd-links.org/>), 10 national modeling teams and 3 global modeling teams cooperate with the aim of deriving coherent national and global low-carbon development pathways.

Since 2015, Dr Ueckerdt is part of the IEA advisory group on grid integration of variable renewables. In the past, he worked in energy planning for the International Renewable Energy Agency (2014/2015) and in e-mobility for the Boston Consulting Group (2009). He has been a contributing author to the Special Report on Renewable Energy Sources and Climate Change Mitigation of the IPCC (2011) and in 2016 he was a postdoctoral research scholar at the Hanley Sustainability Institute of the University of Dayton, Ohio (2016).



Innes Willox
CEO
Australian Industry Group

He has a background in physics and economics and conducts research and policy advice in the field of climate change mitigation, energy system transformation, wind and solar power integration as well as economic impacts of climate change.

Innes Willox is Chief Executive of the Australian Industry Group, a leading industry organisation representing businesses in a broad range of sectors including manufacturing, construction, transport, defence, ICT and labour hire. Innes was appointed Chief Executive in May 2012. His current appointments include:

- Director of Australian Super
- Director of the Innovative Manufacturing Co-operative Research Centre
- Board Member of the Australian American Leadership Dialogue
- Chair of the Migration Council of Australia
- Chair of the Ministerial Advisory Committee on Skilled Migration
- Chair of the RMIT College of Business Industry Advisory Board
- Convenor of the Industry 4.0 Advanced Manufacturing Forum

Innes served as the Australian Consul General to Los Angeles from 2006 to 2008, where he represented wide-ranging Australian interests on the west coast of the United States, including in the areas of trade, finance, culture, bio-technology, environment and energy sectors.

He was Chief of Staff to the Australian Minister for Foreign Affairs, Alexander Downer, from 2004 to 2006. Earlier, Innes held a number of private sector and government positions including Manager of Global Public Affairs for Singapore Airlines based in Singapore (2000-04).

Innes began his working career as a journalist. His positions included Chief of Staff at The Age newspaper in Melbourne and Chief Political Correspondent for The Age in the Canberra Parliamentary Press Gallery. Innes was educated at Melbourne High School; Monash University (BA History and Politics); and Edinburgh



Alex Wonhas
Chief System Design and
Engineering Officer
Australian Energy Market
Operator

Business School. He is on the Board of Windermere – Victoria's oldest family and child services agency. He is based in Melbourne and is a lifetime supporter of the Collingwood Football Club.

Alex joined AEMO in this role in January 2019, and is responsible for delivering AEMO's expanded focus on system design, development and engineering.

Alex joins AEMO with over 15 years of experience in the energy sector, most recently from international engineering and advisory firm Aurecon where he was Managing Director Energy, Resources and Manufacturing and especially focused on growing energy and resources advisory services to supplement Aurecon's traditional engineering business. Prior to Aurecon, Alex was the Executive Director responsible for CSIRO's Environment, Energy and Resources research and development.`

Background and scope of the event:

The Australian-German Energy Symposium is a joint event.

Day 1 is hosted by the Australian Department of the Environment and Energy and the German Federal Ministry for Economic Affairs and Energy.

Day 2 is hosted by the Australian Department of Foreign Affairs and Trade and the German Ministry of Education and Research in the framework of the Australian-German Energy Transition Hub.

The Symposium is about the transition of the Australian and German energy sectors –which are being driven by technical, economic, climatic and policy trends.

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