



# Great Expectations: The Interactive Grid

**27 March 2019**  
**Melbourne Museum**

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# PROGRAM

27 March 2019, Melbourne Museum

## Great Expectations: The Interactive Grid

9:00am - 9:30am	<b>REGISTRATION AND COFFEE</b>
9:30am - 9:40am	<b>Welcome and Opening Address</b> <b>Siham Knowles</b> - General Manager Network Engineering, AusNet Services
9:40am - 9:45am	<b>Sponsor's Address</b> <b>Cassandra Hogan</b> - National Sector Leader for Power & Utilities, KPMG
9:45am - 10:15am	<b>International Keynote Address</b> <b>Developing network platforms for a smart future</b> <b>Prof Pierluigi Mancarella</b> - Professor of Smart Energy Systems - University of Manchester, UK and Chair Professor of Electrical Power Systems - University of Melbourne
10:15am - 11:25am	<b>Executive Presentations &amp; Panel Discussion</b> <b>The distributed world: Who makes decisions about access and equity?</b> <b>Chair: Andrew Dillon</b> - Chief Executive Officer, Energy Networks Australia <b>Paula Conboy</b> - Chair, Australian Energy Regulator <b>Rosemary Sinclair</b> - Chief Executive Officer, Energy Consumers Australia <b>Gabrielle Kuiper</b> - Distributed Energy Resources Strategy Specialist, Energy Security Board
11:25am - 11:45am	<b>MORNING TEA</b>
11:45am - 12:05pm	<b>Keynote Address</b> <b>Victorian Government message to energy networks</b> <b>Hon. Lily D'Ambrosio MP</b> - Victorian Minister for Energy, Environment and Climate Change, Minister for Solar Homes
12:05pm - 12:25pm	<b>System security and reliability</b> <b>Suzanne Falvi</b> - Executive General Manager Security & Reliability, Australian Energy Market Commission
12:25pm - 1:35pm	<b>Presentations &amp; Panel Discussion</b> <b>Effectiveness of regulatory environment in driving non-network solutions</b> <b>Chair: Craig Savage</b> - General Manager Asset Management, United Energy <b>Ann Whitfield</b> - Partner, HoustonKemp Economists <b>Mark Feather</b> - General Manager Policy and Performance, Australian Energy Regulator <b>Alan Reid</b> - Business Development Manager, Reposit Power <b>Matthew Serpell</b> - Regulatory Manager, Electricity Markets, Jemena Electricity Networks, Price Review Project Director, Jemena
1:35pm - 2:20pm	<b>LUNCH</b>
2:20pm - 2:40pm	<b>Distribution network transformation to support DSO evolution</b> <b>Peter Price</b> - Executive General Manager Asset, Safety & Performance / Head of Corporate Strategy, Energy Queensland
2:40pm - 3:00pm	<b>Evolution of transmission networks in a distributed energy world</b> <b>Jacqui Bridge</b> - Transmission Network Development Manager, AusNet Services
3:00pm - 3:15pm	<b>Open Energy Networks update</b> <b>Violette Mouchaileh</b> , Executive General Manager, Emerging Markets & Services, Australian Energy Market Operator <b>Dr Stuart Johnston</b> , Principal - Future Networks, Energy Networks Australia
3:15pm - 4:25pm	<b>Presentations &amp; Panel Discussion</b> <b>Electric vehicles: are networks ready?</b> <b>Chair: Nicole Eastoe</b> - Asset Strategy & Performance Leader, TasNetworks <b>Beth Keddie</b> - General Manager Emerging Opportunities & Acceleration, Yurika <b>Jonathan Spear</b> - Executive Director & General Counsel, Infrastructure Victoria <b>James Kennedy</b> - Engineering Director, Tritium <b>Mark Sprawson</b> - Head of Network Innovation, EA Technology
4:25pm - 4:30pm	<b>Seminar Wrap-up and Close</b> <b>Andrew Dillon</b> - Chief Executive Officer, Energy Networks Australia
4:30pm	<b>REFRESHMENTS</b>



**Siham Knowles**  
General Manager Network  
Engineering  
AusNet Services

Siham is an experienced strategic, commercial executive and engineering professional with over 20 years' experience in the energy sector.

In her role as General Manager Network Engineering at AusNet Services, Siham is leading the management of the electricity distribution and transmission assets and the technical research into the energy transition, including facilitating the wide scale adoption of embedded resources. Siham has also led the implementation of a risk-based approach to asset management that balances the environmental, economic and social needs of today without sacrificing the interests of future generations.

During her diverse career at some of Australia's major energy companies, Siham has been involved in corporate strategy, business planning, as well as developing business, contract and commercial asset strategies and supporting major capital evaluation.

She has worked with senior management and boards to develop and implement corporate change.

Siham has a degree in electrical engineering from the American University of Beirut.



**Cassandra Hogan**  
National Sector Leader for  
Power & Utilities  
KPMG

Cassandra joined KPMG in 2007, following a 16-year career in the power and utilities sector where she worked in varied leadership roles across multiple divisions.

Since joining KPMG, Cassandra has leveraged her unparalleled breadth of experience in the utilities sector to shape and guide the transformation programs of her clients. She is a passionate advocate for the self-empowerment of her clients and has become a valued advisor through her ability to help leadership teams work more productively together to deliver customer value.

As National Sector Lead for Power and Utilities, Cassandra brings a whole of firm perspective to problems, aware that technical solutions are only as good as their ability to be implemented.



**Prof Pierluigi Mancarella**  
Professor of Smart Energy  
Systems  
University of Manchester, UK  
Chair Professor of Electrical  
Power Systems  
University of Melbourne

Over the last ten years, Pierluigi has been involved in or led some 50 research projects and consultancy and professional activities in the UK, Europe, Australia and internationally, in the areas of techno-economics of smart grid technologies and distributed energy systems, risk and resilience assessment of future networks, integrated multi-energy systems modelling and energy infrastructure investment under uncertainty.

Pierluigi is author/editor of four books, several book chapters, and over 200 research papers. He is an editor of the IEEE Transactions on Smart Grid, the IEEE Systems Journal and the International Journal of Electrical Power and Energy Systems, as well as Guest Editor of the Philosophical Transactions of the Royal Society A.

Pierluigi is an IEEE Power and Energy Society Distinguished Lecturer, the past Chair of the Energy Working Group of the IEEE European Public Policy Initiative and led the Melbourne Energy Institute's work "Power system security assessment of the future National Electricity Market" commissioned by the Finkel Review.



**Andrew Dillon**  
Chief Executive Officer  
Energy Networks Australia

Andrew leads the peak national body representing gas distribution and electricity transmission and distribution businesses throughout Australia. He is an experienced energy sector executive with more than two decades in the industry.

Andrew has held several executive roles in the energy industry, including at AustNet Services, an ASX-listed energy network owner, General Manager Corporate Affairs at the Energy Supply Association of Australia and as a senior ministerial adviser in the Victorian Government.

Andrew is a Director of the Australian Gas Industry Trust, a former Director of Goulburn Valley Water and is a member of the Hydrogen Strategy Group, led by Dr Alan Finkel, Australia's Chief Scientist.



**Paula Conboy**  
Chair  
Australian Energy Regulator

Paula was appointed as the full time state/territory member and Australian Energy Regulator Chair in October 2014. In July 2017 she was appointed to the Council of Australian Government Energy Council's Energy Security Board.

Paula has significant experience developing and implementing energy market reform and managing utility regulators in a number of jurisdictions. She was previously a full time board member of the Ontario Energy Board (OEB) in Canada's most populous province. Prior to her work with the OEB, Paula was vice president responsible for Regulatory and Government Affairs at PowerStream, a major Ontario electricity distribution company.

Paula holds a MSc (Agr Econ) from Guelph University and is a graduate of the Australian Institute of Company Directors.

Paula sits on the advisory board of the Hawthorn Club, the international professional network for women in the energy sector. During the winter months, she follows the fortunes of the Western Bulldogs in the Australian Football League.



**Rosemary Sinclair**  
Chief Executive Officer  
Energy Consumers  
Australia

Rosemary is the CEO of Energy Consumers Australia (ECA), 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. She has held a number of directorships on unlisted company and not-for-profit boards, both in Australia and overseas.

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.



**Gabrielle Kuiper**  
Distributed Energy  
Resources Strategy  
Specialist  
Energy Security Board

Gabrielle is an energy, sustainability and climate change professional with over 20 years' experience in the corporate world, government, non-government organisations and academia. She is currently on secondment from the Australian Energy Market Operator to the Energy Security Board as the Distributed Energy Resources (DER) Strategy Specialist.

Gabrielle has held senior executive or senior advisory energy-related positions in the Office of the Australian Prime Minister, the Public Interest Advocacy Centre (PIAC) and in the NSW Government.

In 2018 she travelled to North America, the UK and Europe as a Churchill Fellow investigating the regulation of clean, smart, customer-centric energy networks.



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

Minister Lily D'Ambrosio 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.



**Suzanne Falvi**  
Executive General Manger  
Security & Reliability  
Australian Energy Market  
Commission

Suzanne leads the team responsible for reviews and rule changes relating to system security and reliability. She also leads the Reliability Panel Secretariat.

Before her appointment as Executive General Manager, Security and Reliability at Australian Energy Market Commission, Suzanne worked as a Senior Policy Adviser for the ACT Government in their energy policy team, as in house counsel in a solar technology research and development company and as Special Counsel for Minter Ellison specialising in competition, energy, administrative law and commercial litigation.

Suzanne holds a Bachelor of Economics, a Bachelor of Law with Honours and a Master of Laws in International Law from the Australian National University.



**Craig Savage**  
General Manager Asset  
Management  
United Energy

Craig is currently the General Manager, Asset Management for United Energy, responsible for overseeing network asset life-cycle management to deliver a safe and reliable service at least long-term cost, including functional accountability for technical and engineering standards and policies, investment strategy and network safety and performance improvement.

Prior to this, he has been Jemena's Strategic Asset Manager and Asset Manager for the United Energy network. Over the past 15 years, Craig has managed the development and implementation of United Energy's asset life-cycle management, asset safety and reliability improvement initiatives while maintaining positions as a Distribution Asset Manager, System Performance Manager and in his more recent and current roles. Craig is currently a member of the Energy Network Australia's Asset Management Committee and a member of the Australian Power Institute and Energy Network Australia's Innovation Steering Group promoting industry driven collaborative research with universities.



**Ann Whitfield**  
Partner  
HoustonKemp Economists

Ann has over 25 years' experience working as an economist for both private consultancies and government. Ann's particular areas of expertise include utility regulation, cost benefit analysis (particularly in relation to investment assessments) and broader issues of energy market development.

Ann has advised both regulators and utility businesses in Australia, including the COAG Energy Council, the Australian Energy Market Commission, the Australian Energy Regulator, various jurisdictional regulators and a range of utility businesses in the electricity, gas, water, rail and aviation sectors.

Ann is a recognised expert in the application of the Regulatory Investment Tests for electricity network investments and has direct, practical experience of the application of these tests to non-network solutions and assessing the impacts on distributed energy resources.



**Mark Feather**  
General Manager Policy and  
Performance  
Australian Energy Regulator

Mark joined the Australian Energy Regulator in October 2018 as General Manager, Policy and Performance, responsible for policy development and advocacy, as well as having carriage of policy projects including the Default Market Offer and Value of Customer Reliability. Prior to this role, Mark was the Executive Director of the Energy Policy and Programs Branch in the Victorian Government's Department of Environment, Land, Water and Planning where he led work on energy markets and regulation. Mark has also advised the former Victorian Government Department of Economic Development, Jobs, Transport and Resources on energy transition and policy issues as they impact industrial customers.

Prior to working for the Victorian Government, Mark held roles with the Australian Energy Market Commission and Ofgem in the UK. Mark worked at Ofgem for a 10 year period. During this period Mark was Director of Industry Codes and Licensing, Assistant Director, Gas Distribution Network Sales Project and Head of Gas Trading Arrangements.

Mark holds an Honours Degree in Law and Bachelor of Arts from the University of Adelaide and a Post Graduate Diploma in European Competition Law from Kings College, University of London.



**Alan Reid**  
 Business Development  
 Manager  
 Reposit Power

Alan is the Head of Business Relations at Reposit Power. Working closely with Reposit's key business partners, his role is to maximise ongoing value for Reposit's customers from the delivery of aggregated Virtual Power Plant (VPP) services to market.

Alan has over a decade of experience in the energy sector in both technical and governance capacities having held senior roles within both energy distribution and retailing businesses.

Alan holds an Honours degree in Engineering and Masters degree in Business Administration as well as qualifications in risk and corporate governance.



**Matthew Serpell**  
 Regulatory Manager,  
 Electricity Markets  
 Jemena Electricity  
 Networks, Price Review  
 Project Director  
 Jemena

Matthew has worked in the electricity sector for 20 years and currently holds the role of 'Manager Regulation, Electricity Markets' at Jemena. Over his career, Matthew has held positions in finance and information technology where he has played key roles in market reforms including the implementation of full retail contestability and smart metering.

Over the past ten years, Matthew has worked in network pricing followed by economic regulation. In both roles he has been actively involved in industry reforms, seeking to achieve positive outcomes for customers and industry alike.

Matthew joined Jemena in 2014 and has since taken on the leadership of economic regulation across Jemena, successfully managing the implementation of significant regulatory and compliance projects. He is the project director for Jemena's five-yearly price reset process.

Matthew holds an executive MBA from the University of NSW.



**Peter Price**  
 Executive General  
 Manager Asset, Safety &  
 Performance /  
 Head of Corporate Strategy  
 Energy Queensland

Peter was appointed to the Energy Queensland Executive in November 2016 and is responsible for leading the group's engineering and asset management strategies, which includes the safe and efficient management of the group's electricity distribution networks.

Prior to joining Energy Queensland, Peter was a member of Energex's executive management team for ten years. His career with Energex included managing and leading capital planning and program delivery, asset management, procurement, regulatory issues and the growth of new commercial businesses.

Peter holds both a bachelor (honours) degree and a masters degree in engineering at the University of Queensland, and is a fellow of the Australian Institute of Company Directors. Peter is also Chair of Energy Skills Queensland.



**Jacqui Bridge**  
 Transmission Network  
 Development Manager  
 AusNet Services

Jacqui leads AusNet Services' Transmission Development team, representing AusNet Services' transmission interests in planning and development of the future network. Jacqui is a passionate advocate for development of networks to support the transition to a lower carbon energy future.

Jacqui holds a Bachelor of Engineering (Industrial) from the University of NSW and has over 25 years' experience in the energy sector. Jacqui led Power and Energy Strategic Consulting practices at two of Australia's leading technical consultancy firms - SKM/Jacobs and PB/WSP prior to joining AusNet Services.





**Violette Mouchaileh**  
Executive General Manager,  
Emerging Markets &  
Services

**Australian Energy Market  
Operator**

Violette has responsibility for strategies focussing on markets for distributed energy resources and data and information. She has held various roles at her time at AEMO across gas and electricity, in market design development, market change implementation and operational roles.

Prior to joining AEMO, Violette held various positions with the Australian Government driving energy market policy, including with the Australian Energy Regulator and Australian Competition and Consumer Commission.

Violette 15 years' experience in the Australian energy industry.

Her experience includes economic regulation, energy policy development, development of regulatory frameworks, market development and design, and market change implementation including implementing major reforms such as establishment of energy governance framework and national planning arrangements, network and retail pricing reforms, establishment of the gas Short Term Trading Market, Power of Choice and demand side initiatives including the AEMO/ARENA demand response trial.



**Dr Stuart Johnston**  
Principal - Future Networks  
Energy Networks Australia

Stuart has diverse experience in the electricity, natural resources and university sectors. He has worked at Energy Networks Australia since 2014, and is currently the Principal, Network Transformation, where he is responsible for policy and thought leadership on issues of critical importance to managing transformational change for the industry including the Electricity Transformation Roadmap and Open Energy Networks.

Prior to 2014, Stuart spent 13 years at TransGrid as Corporate Environment Manager and Property, Easements and Environment Manager for the Southern Region.

Before joining TransGrid, Stuart worked for 15 years in asset and environmental management and research with the NSW National Parks and Wildlife Service and the Australian National University, where he also lectured and undertook his PhD studies.



**Nicole Eastoe**  
Asset Strategy &  
Performance Leader  
TasNetworks

Nicole is Leader Asset Strategy and Performance at TasNetworks, managing technical requirements and whole of lifecycle investment in network assets. With her team, they work to ensure customers' service performance requirements are met.

Nicole has over 20 years' experience in the mining and energy industry, eleven of which have been spent in senior leadership positions where she has gained a wealth of energy industry and leadership experience. Her key areas of expertise are asset management, risk management, portfolio and project management and economic regulation. Nicole is a graduate of the Australian Institute of Company Directors and representative on the Energy Networks Australia Asset Management Committee



**Beth Keddle**  
General Manager  
Emerging Opportunities &  
Acceleration  
Yurika

Beth Keddle's focus as General Manager Emerging Opportunities and Acceleration at Yurika is to unlock the potential of new energy technologies to deliver value for customers and their communities.

Jemena, Better Place, BHP and Deutsche Bank have all benefited from Beth's customer focus and strategic approach to identifying synergies with emerging new-tech trends.

Beth has helped to deliver award-winning products that help residential customers reduce their energy use, supported strategic transformation to position an incumbent for success in changing energy markets, championed a disruptive business model to facilitate electric vehicle take-up and facilitated BHP's Value Management function at its base metals operation in Chile.

Beth holds engineering and commerce degrees and a Masters of Environment to complement 15 years of experience and innovation in strategy and finance across the banking, resources, transport, energy, health and industrial sectors.



**Jonathan Spear**  
Executive Director &  
General Counsel  
Infrastructure Victoria

Jonathan is Executive Director and General Counsel with Infrastructure Victoria. He has previously held senior leadership, policy, strategy and legal roles with the Department of Premier & Cabinet, Department of Justice, Victoria Police and Slater & Gordon Lawyers.

Jonathan holds a Bachelor of Arts (Hons), Bachelor of Laws (Hons), Master of Laws, Executive Master of Public Administration, Doctor of Philosophy (History) and is a Graduate of the Australian Institute of Company Directors.



**James Kennedy**  
Engineering Director  
Tritium

James Kennedy is the Chief Technology Officer of Tritium, a Brisbane-based power electronics company specialising in the design and manufacture of electric vehicle (EV) fast charge infrastructure.

James has more than 15 years' experience in embedded and power electronics design and manufacturing. He has been a key member of the Tritium team since founding the company in 2001 and has directed engineering operations since that time.

James has had a long involvement with EVs. Prior to Tritium, James was involved with the University of Queensland's "Sunshark" solar vehicle, and continues to be active in this area. He has also been integral in other non-EV battery storage projects, ranging from James Cameron's "Deepsea Challenger" submarine to multi-MWh stationary storage systems in green buildings.



**Mark Sprawson**  
Head of Network  
Innovation  
EA Technology

Through a career working both within a network operator and consultancy environment, Mark Sprawson has contributed to a broad range of strategic studies associated with network development and policy.

Mark led the team that developed the world's first techno-economic model to evaluate the impact that distributed energy resources will have on electricity distribution networks and also contributed to Energy Networks Australia's Network Transformation Roadmap.

He has been involved in several high profile innovative projects in the electric vehicle space in the UK, including My Electric Avenue and Electric Nation. Mark has recently been engaged in a number of projects to define the strategy and vision of network operators as they transition to Distribution System Operators and is playing a leading role in the development of the possible models moving forward within the Open Energy Networks initiative for Energy Networks Australia and Australian Energy Market Operator.



# Notes



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# Energy Networks Australia

**Energy Networks Australia**

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