



Asset Management **FORUM | 2020**

25th November 2020 — DAY 1
VIRTUAL EVENT
Timing: 9.00am to 12:10pm

2nd December 2020 — DAY 2
VIRTUAL EVENT
Timing: 9.00am to 12:35pm

ABOUT THE PRESENTERS

ASSET MANAGEMENT FORUM 2020

25TH NOVEMBER 2020 — DAY 1



9.00am **Welcome from** EEA Asset Management Group (AMG)

9.05am **Andrew Smaill** — Director / Consultant, Partna Group

Topic: Asset Management Plans

Andrew is an expert advisor with over 27 years' experience in infrastructure investment planning, asset management, strategy, and regulatory design. His experience spans electricity transmission, electricity and gas distribution, telecommunications, and energy markets. Andrew has completed consulting projects across New Zealand, Australia, Singapore, and Canada. He holds an honours degree in Electrical Engineering from Canterbury University and an Executive MBA from Queensland University.

Andrew has held senior roles within the electricity industry and in consulting, and has represented the New Zealand Electricity Engineers Association (EEA) on a joint Australian/ New Zealand standards committee for demand side management (EL-054) and has been a member and / or the chair of multiple New Zealand electricity industry working groups. Andrew is a member of the Institute of Asset Management.

Andrew co-founded Partna Consulting Group2 in 2004, as a locally owned and operated consultancy company, based in Wellington. Partna brings extensive experience in asset management, investment planning, and regulatory design, working within and across organisations and sectors. Partna also brings extensive experience in developing robust business cases to secure funding for our clients.

9.35am

Break out Session — Topic: What makes a good AMP

9.50am **Julian Morton** — Performance and Risk Manager, Transpower

Topic: Risk Management

Julian is the Manager of Performance and Risk at Transpower. Over the last 4 years at Transpower Julian has been developing organisational capability in the use of asset health, risk profiling, and system performance for investment planning. Prior to joining Transpower, Julian had 15 years' experience with Melbourne Water and Yarra Valley Water in the various asset management roles across a diverse range of built and natural assets.

10.20am **Charles Lake** — Control Systems Manager, Orion

Topic: Auto-reclose for fire

Charles has over 40 years' experience in working with control systems and IT systems in generation, distribution, aerospace and retail systems. In his current role as Control Systems Manager with Orion he is responsible for the team managing Distribution Management Systems, Load Management Systems, associated communication links, field RTUS, and remote operator consoles.

10.50am

Table talk Session — Topic: Risk management approaches

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11.05am Richard Kingsford — Asset Planning and Engineering Manager, WEL

Topic: WEL's ISO55000 journey challenges and benefits

Richard has 20 years of experience across the industry in both planning and operational roles. In his current role he must manage existing assets for the current environment while understanding the impact of new technologies, changing landscape and expectations. Working in WEL brings the opportunity to forecast future network and DSO requirements, then use both technologies and cutting-edge technologies to address these requirements

11.35am David Lynch — Asset Management and Information Manager, Genesis

Topic: Maintenance Strategy review

David has almost 10 years' experience working within the New Zealand Power Generation industry. Based at the Huntly Power Station after graduating from the University of Waikato with MEng, he began his career with Genesis Energy and has since gained a broad exposure to both thermal and renewable generation assets. With Genesis he has held various Engineering and Asset management roles, and has recently been involved in leading Asset management, Process Safety and Maintenance Strategy initiatives across the Genesis asset base. This paper will share some insights from these workstreams, focusing on the Maintenance Strategy reviews in particular.

12.05pm Closing Remarks: EEA Asset Management Group (AMG)

12.10pm Close of Day 1.

ABOUT THE EEA ASSET MANAGEMENT GROUP (AMG) - SCOPE

The AMG coverage includes:

- Electricity Technical Regulation;
- Reliability, Security of Supply and Power Quality;
- Asset condition assessment process and practices;
- Asset specific management practices;
- Demand Management, Metering Infrastructure and Embedded Generation;
- Critical infrastructure protection, resilience and security;
- Electric and Magnetic Fields;
- Broadband Network construction utilising industry assets and resources;
- Industry Skills & Training.

ASSET MANAGEMENT FORUM 2020

2ND DECEMBER 2020 — DAY 2



9.00am **Welcome from** EEA Asset Management Group (AMG)

9.05am **Allan Miller** — Director and Engineer, Alan Miller Consulting

Topic: Forecasting Utility-Scale PV Solar Uptake in New Zealand

Allan is a consulting engineer, providing independent expert advice in the electricity and technology industries. He is also a member of the Electricity Authority IPAG and a director of Network Tasman. His experience includes leadership and technical roles in the electricity and international high-tech industry. He was director of the Electric Power Engineering Centre (EPECentre), University of Canterbury, from 2011 to 2017, where he established and led the GREEN Grid research programme. Prior to that Allan was a product manager, followed by Managing Director, of Allied Telesis Labs Ltd, a product development centre for the Japanese computer networking company Allied Telesis. He has worked as a hardware and software engineer, as an analyst for Transpower during the establishment of the wholesale electricity market, and Western Power in Perth, Western Australia, where he led a demand response programme. He holds a Ph.D. and B.E. Hons in electrical and electronic engineering.

9.35am **Murray Henderson** — Principal Market Advisor, Transpower

Topic: Distributed Energy Resources

Murray has 14 years experience at Transpower working to deliver the system operator service. In that time Murray has worked on most of the major changes to the wholesale electricity market. Most recently a key focus area has been the development of the Electricity Authority's Real Time Pricing (RTP) initiative. RTP will be the biggest change to the electricity market, and Transpower's market system, since their relative inceptions. Part of Murray's current role includes consideration of how Transpower's delivery of the system operator service might be required to change in the future, including as a response to increased Distributed Energy Resources (DER). Murray is the system operator observer for the Electricity Authority's Market Development Advisory Group.

10.05am **Ryan Tulabing** — PhD Candidate for Electrical and Electronics Engineering, University of Auckland

Topics: Merits of Localized Demand Control in Preparing Local Distribution Grids for High Penetration of Solar PV and Electric vehicles

Ryan got his Electrical Engineering degree from the Philippines. His industry experience includes working as a maintenance engineer in a 300-MVA Coal-fired power plant, then as a Project Engineer for Nestle Philippines. He then took his masters degree in Europe under the Erasmus Mundus Joint Masters in Management and Engineering of Environment and Energy hosted by Ecole des Mines de Nantes (France) and Universidad Politecnica de Madrid (Spain). Afterwards, Ryan worked as a research affiliate in Lawrence Berkeley National Laboratory in California USA for a research project about Demand Response in collaboration with China Electric Power Research Institute. He came back to the Philippines on 2015 and taught in a university for a year. Currently, he is finishing his PhD degree about Localized Demand Control at the University of Auckland.

10.35am **Gareth Williams** — Chief Product Officer, Solar City

Topic: The Role of Third Party owned Distributed Energy Resources in Building a Efficient Grid—Case Study

Gareth is Chief Product Officer at SolarCity and leads the development of the solar Zero platform to provide services to home owners, business owners and the electricity industry. He has more than 25 years experience in the energy sector, with the last 15 years focussed on new energy technologies.

Gareth has had multiple senior leadership roles in the electricity industry across information technology, network management and strategy, with a degree in engineering and postgraduate qualifications in renewable energy system design and energy management. Gareth lives with his family in a fully off grid home north of Auckland.

ASSET MANAGEMENT FORUM 2020

2ND DECEMBER 2020 — DAY 2



11.05am **Harsal Patel** — Associate, Power Engineering, BECA

Topic: Utility Scale Battery Energy Storage System Grid Connection

Harshal is Chartered Professional Engineer and an experienced project and design manager delivering large multi-disciplinary projects across industrial, transport, transmission and distribution and generation sectors. His current focus is in the advisory and delivery of renewable energy projects across ANZ which include renewable energy microgrids, low emission energy hubs and grid connections for large scale battery energy storage systems (BESS), solar farms and wind farms.

11.35am **Glenn Sullivan** — Group Manager Electrical Engineering, Fonterra

Topic: Electrification of Dairy Processing—Insights, Innovation and Impact

Glenn Sullivan is the Group Manager Electrical Engineering for Fonterra, leading the asset management function across the Fonterra group. Glenn has been with Fonterra for 13 years. Previously he has gained extensive power systems experience in other industries and the electricity supply sector. He has a particular interest in large scale electricity use in the dairy industry as a means of achieving a low carbon future for Fonterra and related industries. Glenn is a Registered Engineering Associate, a Member of Engineering New Zealand and has a Bachelor Degree in Economics.

12.05pm

Table Talk — Networking

12.10pm **Nigel Wilmont** — Senior Standards and Technology Engineer, Western Power

Topic: Voltage Management and inverters settings—West Australian experience/approach

Nigel has been working as an engineer for over 28 years. Initially at Murdoch University, in research focused on stand-alone & grid-connected inverter energy systems, then in developing national and international standards for these systems. Over the last 12 years working at Western Power he has been key in influencing Western Power approach to management and connection of these small scale renewable energy systems into the grid. This has been through his work with the AS/NZS 4777 standards develop, the Western Power connection requirements as well as responsibility for PQ and voltage strategies work. This year Nigel was recipient for the “2020 National Meritorious Contribution” award from Standards Australia and has been awarded status as a Fellow of the Institute of Engineers Australia.

12.40pm

Closing Remarks: EEA Asset Management Group (AMG)

12.45pm **Close of 2020 Asset Management Forum**



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