



EnergyManagement
Association of New Zealand

The Rise of Consumer Power

Our Changing Energy Marketplace

EMANZ Conference 2014

27 - 28 May, Auckland Museum

Our energy marketplace is changing. Energy consumption is flat and falling in some areas, and rising sharply in others.

Smarter technologies and commercial arrangements are creating a range of opportunities for purchasing and managing energy and services to improve business performance.

So what are these opportunities, and how can we make the most of them?



TRANSPower

DAY 1 - TUESDAY 27 MAY

THE EVENT CENTRE, AUCKLAND MUSEUM

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8.00 - Registration and Coffee

9.00 - Conference Opening and Welcome

Ewan Gebbie Executive Officer, EMANZ

Morning Strand: Energy Efficiency Policy - Global and Local Perspectives

9.10 - Energy Efficiency in NZ - Get Going or Get Left Behind

Dr Nigel Jollands Principal Policy Manager, Energy Efficiency and Climate Change, European Bank for Reconstruction and Development.

If NZ is not aggressive in its promotion of energy efficiency it risks further diminishing its relative competitiveness in the international market. Dr Jollands will outline current trends in EU energy efficiency policies and finance and the surprising rise in energy efficiency action in countries like Kazakhstan, Turkey and Russia.

9.50 - Shaping Your City Towards a Sustainable Future

Monica Barone CEO, City of Sydney

Since 2007 the City of Sydney has worked to achieve the ambitious targets within its long term vision - Sustainable Sydney 2030. Monica will outline the range of energy efficiency and 'green infrastructure' programmes designed and implemented by the City of Sydney. Monica will explain the process of community engagement that led to the long term vision and the ongoing engagement required to implement what are largely voluntary programmes.

10.30 - Morning tea, networking and exhibitor displays

11.00 - Political Leaders Present Their Views on Energy Policies

*David Shearer MP, Labour Party Energy Spokesperson
Gareth Hughes MP, Green Party Energy Spokesperson*

11.40 - The Economy - Its Transformation and its Implications for Energy Management

John Carnegie Manager, Energy Environment & Infrastructure, Business NZ

Having emerged from the effects of the global financial crisis and the initial implications of the Christchurch earthquakes, the economy is now performing strongly across a wide range of economic indicators. But is this just a matter of normal service having resumed? John will discuss the early evidence that new business trends seem to be emerging which could signal a transformation in the way business operates.

12.00 - Panel Discussion with morning presenters

Mai Chen Founding Partner, Chen Palmer

12.30 - Lunch, networking and exhibitors displays

Afternoon Strand: Shifting Power to the Consumer

1.30 - Financing Energy Upgrades

Gary Nalder Director Asset Finance, Westpac Institutional Bank

Gary will provide a brief overview of Westpac's objectives in lending and facilitating investment in the clean technology and environmental services sector in New Zealand. A focus of his presentation will be on Westpac's energy efficient funding solutions designed to help remove some of the existing barriers that prevent energy efficiency projects from proceeding.

2.00 - Energy Performance Contracts - An (Australian) Government Perspective

Sam Burke Senior Manager, Property and Accommodation, Victorian Government

Energy Performance Contracting (EPC) has been utilised around the world for over 20 years, and is considered by many to be the most effective way to deliver energy efficiency retrofits to existing buildings. Sam will describe how EPC has been used in Australia, primarily by the Victorian Government. He will explain the investment criteria, the procurement process, funding options, and how to establish a contract. He will also focus on measurement and verification, including some tips on how to do it successfully.

2.30 - Energy Performance Contracts - Holy Grail or Mirage?

Dr Paul Bannister Managing Director, Exergy

Over the past 15 years Energy Performance Contracts have frequently been cited as a key mechanism for increasing uptake of energy efficiency works. The theory looks great - no capital up front, risks carried by the contractor, and guaranteed outcomes. So why have EPCs not become the standard method of delivery in New Zealand while they have become so central to the US market? Dr Bannister will dissect the EPC concept in order to identify the key strengths and weaknesses - as well as the leading myths - of EPCs.

3.00 - Afternoon tea, networking and exhibitor displays

3.30 - Keeping the Energy Flowing through Demand Response

Quintin Tahau Demand Response Manager, Transpower

Transpower is currently leading the development of demand response (DR) in New Zealand through the implementation of a DR technology platform on which products can be developed, and programmes established. Quintin will discuss the outcomes of the programme, including the performance of the various DR providers and progress against the longer term objectives. Quintin will also discuss the next steps in the evolution of DR as a non-transmission solution.

4.00 - A Smart Metering Solution

*Mac McIntyre General Manager Network, Counties Power and
Craig Hackett Business Development Manager, Metrix*

Counties Power is renewing their metering stock with a smart metering solution. Key drivers were improved network infrastructure performance and provision of high levels of service value to the Retailers. This resulted in the formation of a collaborative partnership with Metrix. Early indicators suggest successful implementation of the Silver Spring Networks and Landis + Gyr technology. This presentation provides a high level progress update of the smart mesh rollout and the experiences of both companies working in partnership.

4.30 - What's the New 'Black' in Great Outcomes for Public Works?

*Priyani de Silva-Currie Principal Asset Management and
Business Manager, Opus and Keith Clark Quality and Assurance
Manager, EECA*

When working in new territory most people think instant information, do more for less and twitter-like client discussions. It's not surprising that the message for greater outcomes struggles against the noise. Our inspiring experience suggests that it is true relationships enriched with shared values and purpose that reveal the 'new black' in attaining greater public works outcomes. Our aim is to allow you to laugh, share and reflect on an incredible journey that's sure to enrich and refresh your mind. And while we're at it ... remind you of our greatest tool for attaining great outcomes in a new territory; our relationships ... surely it's the new black!

5.00 - Panel Discussion with afternoon presenters

Scott Noyes EMANZ Governance Committee

5.20 - Day 1 closing remarks

5.30 - EMANZ 20th Birthday celebration cocktails/drinks

DAY 2 - WEDNESDAY 28 MAY

THE AUDITORIUM, AUCKLAND MUSEUM

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8.00 - EMANZ AGM - open to all EMANZ members

8.30 - Registration and Coffee

9.00 - Welcome to Day 2

Priyani de Silva-Currie Chairperson, EMANZ

Morning Strand: New Ways to Power the Consumer

9.10 - Power to the People

Ari Sargent CEO, Powershop

Powershop was and remains the only electricity retailer to recognise that they have a customer experience; an experience they obsess about and jealously protect. Ari discusses his learnings at Powershop and the transformational change in customers' attitude to electricity that simplification can bring.

9.40 - Energy Management and Sustainability - Making the Connection

Calum Revfem Managing Director, Envirostate

Energy use in buildings accounts for about 40% of global energy use, meaning that significant shifts in building energy use will have tangible impacts in addressing core sustainability challenges. Calum will outline the pivotal role energy managers play in the integrated design process and the opportunity they have to link building operations, building user's experience and measuring and communicating the building's value to stakeholders.

10.10 - Powering the Future in Transport

Russell Watson Network Engineering Manager and Kashani Sharma Graduate Engineer, Northpower

Electric Vehicles (EVs) are being promoted worldwide in response to environmental concerns like climate change and global warming. Russell and Kashani present a case study undertaken by Northpower to study its impact on a Low Voltage (LV) network for different levels of EV penetration. Besides the impact assessment, the presentation examines the performance of Northpower-owned electric vehicles, the Nissan Leaf and Mitsubishi i-MiEV.

10.40 - Morning tea and networking

11.10 - The BEES Findings and Opportunities

Lynda Amitrano Evaluations and Building Sustainability Manager, BRANZ

The Building Energy End-use Study (BEES) was a 7-year project investigating energy and water use in commercial office and retail buildings in New Zealand. This was the first time a comprehensive nationwide study focussing on these areas had been undertaken in New Zealand. Lynda will provide an overview of the results of the BEES programme.

11.40- Bringing ISO 50001 Certification to New Zealand

Dr Ann Smith CEO, Enviro-Mark Solutions

Dr Smith introduces a new energy performance improvement programme which has been developed through a unique partnership between Enviro-Mark Solutions and EMANZ. The programme provides robust certification for companies seeking recognition for the way they manage their energy use and their performance improvement achievements.

12.10 - EECA Business - What's in the Pipeline

Greg Visser General Manager, EECA Business

The energy efficiency market is complex, with many players and a lot of conflicting information. EECA Business has invested in a research project and pilot to uncover opportunities to improve the way we support both businesses and the market supporting them. Greg will outline how EECA's gone about this, and give a flavour of EECA's thinking so far.

12.40 - Panel Discussion with morning presenters

Priyani de Silva-Currie Chairperson, EMANZ

1.00 - Lunch and networking

Afternoon Strand: The Power of Technology

1.45 - 2.30 Energy Tour 1 - The Auckland Museum

1.45 - High Resolution Sub-Metering Leads to Savings

Tom Leys CEO and Director, GridSpy

An industrial power user noted their loads recently increased with the introduction of a high energy process. Success with monitoring has encouraged the power user to examine other ways to improve efficiency and led to partnerships with EECA business partners.

2.00 - Power Quality - What's This 'Quality' Thing?

Hans Pietsch Energy Manager, Otago University

Back in the good old days power quality was not much of an issue. Now - with technology involving electronic ballasts, switching power supplies, uninterruptible power supply, variable speed drives and distributed generation - all of these can affect power quality. Hans will explore the issues.

2.15 - Thermal Equalisation and Destratification and its Effect on Energy Use

Stuart Dale Managing Director, Airius

Well controlled thermal destratification and air circulation offers significant energy savings in conditioned buildings. This presentation outlines the implications of a stratified space and its impact on HVAC energy efficiency.

2.30 - 3.15 Energy Tour 2 - The Auckland Museum

2.30 - Reviewing New Building Design for Energy Efficiency

Sam Roose Senior Energy Engineer, Enercon/LineTech Consulting

Sam will focus on the first two stages of the design review process (concept and detailed design reports), and the methods required to fully explore energy management opportunities at these stages. The use of energy modelling will be discussed, as well as cases where design reviews do not require energy modelling (allowing reduced cost).

2.55 - Measurement and Verification - Your Credibility Hangs On It

Wes Nielsen Project Engineer/Auditor, 0800 Save Energy

Investing in energy efficiency can be a daunting prospect for many businesses and their funding partners. The prospect of spending large sums of money to avoid future costs comes with a range of inherent risks. It is therefore critically important that the energy efficiency industry is able to credibly and transparently demonstrate that efficiency promises are being delivered through Measurement and Verification (M&V) activities.

3.15 - Afternoon tea and networking

3.40 - Low Carbon Auckland: Auckland's Energy Resilience and Low Carbon Action Plan

Robert Perry Principal Strategy Analyst, Auckland Council

Auckland has a vision to become the world's most liveable city. Robert will outline how the draft Auckland's Energy Resilience and Low Carbon Action Plan will enable Auckland to combine growth, development and a higher quality of life with improving energy resilience and reducing GHG emissions by around 5.3 million tonnes.

4.10 - NABERSNZ - An Assessor's Perspective

Lance Jimmieson Managing Director, Jackson Engineering Advisers and Vanessa McGrath Senior Technical Coordinator, NZGBC

Lance and Vanessa will provide a brief introduction to NABERSNZ, discuss the growth of NABERSNZ to date, and describe how NABERSNZ relates to Energy Managers. They will outline which energy loads are included in NABERSNZ ratings, how to ensure a building is NABERSNZ ready, how NABERSNZ can be used as a tool to aid the implementation of energy audit recommendations, and how NABERSNZ and energy audits work together to improve building performance.

4.35 - Day 2 and Conference closing remarks

Scott Noyes EMANZ Governance Committee

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