<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sponsors</td>
<td>3</td>
</tr>
<tr>
<td>Welcome from the EMANZ chair</td>
<td>4</td>
</tr>
<tr>
<td>Welcome from EMANZ</td>
<td>5</td>
</tr>
<tr>
<td>Programme</td>
<td></td>
</tr>
<tr>
<td>Day 1 programme</td>
<td>6</td>
</tr>
<tr>
<td>Day 2 programme</td>
<td>7</td>
</tr>
<tr>
<td>Speaker and EMANZ profiles</td>
<td>9 – 15</td>
</tr>
<tr>
<td>Social Programme</td>
<td>16</td>
</tr>
<tr>
<td>Field Trip</td>
<td>17</td>
</tr>
<tr>
<td>Exhibitors</td>
<td>17 – 20</td>
</tr>
<tr>
<td>General information from EMANZ</td>
<td>21</td>
</tr>
</tbody>
</table>
A very warm welcome to you all to our Smart Cities conference. We are thrilled to see many of you back who have joined us in the past, as well as those who are joining us for the first time.

I wish to thank all the people who have helped make this a successful and vibrant event. Thank you to our EMANZ staff, Ewan and Jenny, the sponsors, presenters, James and his event management team, and to you all as delegates who are here supporting this conference.

The conference team have developed a programme based on your feedback last year which will interest all of you with a variety of themes around international, transport, industrial and commercial energy management sectors.

We have chosen Christchurch as the conference location this year to provide support for the local businesses here, to learn some lessons from the recent earthquakes, consider the significant rebuild in front of us, and ensure that our South Island members and industry are more easily able to participate in EMANZ events.

I hope that you will find the conference informative and that you will take the opportunity to meet new contacts and catch up with your fellow colleagues. I look forward to talking with many of you over the next two days.

Priyani de Silva-Currie
Chairperson

EMANZ
Welcome to the EMANZ 2012 Conference

The focus of this year’s conference is on energy issues relating to the development of New Zealand’s cities. Topics will incorporate the task ahead for the Christchurch rebuild, and how all New Zealand cities can become smarter in their use of energy.

This will be a memorable occasion, with a line up of speakers you won’t want to miss, including Dr Paul Bannister – the architect of NABERS, and Allan Jones MBE, Chief Development Officer, Energy and Climate Change - for the City of Sydney, Bob Dixon global head of efficiency and sustainability for Siemens, Simon James, GM Energy and Environment for Honeywell speaking on energy performance contracting, There is also a long list of local speakers to bring you right up to speed on topics such as electric vehicles, industrial energy efficiency practices, biodiesel in NZ, and much more.

You will notice from the Conference Schedule there has been generous allowance for discussion. These have been put into the programme as a result of the feedback from the last conference where delegates suggested they needed more time to discuss the issues being raised in presentations.

Judging by the conversations we regularly have with members, the discussions will be lively; not least because delegates are from a wide range of backgrounds with a wide range of skills. So get your questions out there so that you have the best chance to learn something new.

Today and tomorrow you will hear about some significant and innovative developments. Make the most of it, and thanks for taking time to participate in our conference.

I hope that you will have a great stay in Christchurch.

Ewan Gebbie
Executive Officer

EMANZ
EMANZ ANNUAL CONFERENCE 22 - 23 MARCH 2012

DAY 1 PROGRAMME

21 MARCH 2012

Pre conference social function (6.30 - 7.30 pm)

DAY 1 - 22 MARCH 2012

Session 1

7.30 am Registration opens
9.00 am Welcome and house keeping
9.10 am Keynote speaker Paul Bannister (Exergy Australia Pty Ltd) NABERS: Transforming energy efficiency in Australia
9.40 am Robert Dixon (Siemens Industry Inc.) Catching the Green Wave - Global Best Practices in Energy Efficiency & Sustainability

10.10 am Morning tea

11.10 am Hon Phil Heatley (Minister of Energy and Resources)
11.40 am Dale Alloway (Arc Innovations) Big Data and the Electricity Industry

12.10 pm Discussion

12.30 pm Lunch

Session 2a - Transport

1.30 pm Ben Martel (International Telematics Ltd) Energy measurement and management in transport fleets

Session 2b - Commercial

1.30 pm Leonid Itskovich (Christchurch City Council) District Heating and Renewable Co-generation - a Vision for Sustainable Cities

2.00 pm Doug Clover (Victoria University) Will New Zealanders buy electric cars? A survey of car buyers’ preferences and the implications for the New Zealand electricity sector

2.30 pm Andrew Simcock (Biodiesel NZ Ltd) The growth of the NZ biodiesel fuel market

3.00 pm Discussion

3.30 pm Afternoon tea

Field trip to Christchurch International Airport

5.00 pm Pre dinner drinks

7.00 pm Conference Dinner featuring Gary McCormick
## Day 2 Programme

### Day 2 - 23 March 2012

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 3 International</th>
<th>Session 4a - New Horizons</th>
<th>Session 4b - Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.00 am</td>
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<tr>
<td>9.00 am</td>
<td>Keynote speaker Allan Jones MBE (City of Sydney)  <em>Moving Sydney Towards a Sustainable Low Carbon Future</em></td>
<td>Karen Chaney (EECA) <em>Making it mainstream</em></td>
<td>Craig Duff (Active Refrigeration) <em>The changes that are currently taking place in the industrial heat pump space</em></td>
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<td>9.45 am</td>
<td>Simon James (Honeywell) <em>Energy performance contracting</em></td>
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<td>10.15 am</td>
<td>Morning tea</td>
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<td>11.00 am</td>
<td>Peter Townsend (Canterbury Employers Chamber of Commerce) <em>New Zealand’s greatest natural disaster: Issues, resolution and lessons.</em></td>
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<td>Lyndon Haugh (Carter Holt Harvey) <em>Practical issues with improving energy efficiency in an industrial environment</em></td>
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<tr>
<td>11.45 am</td>
<td>Discussion about session topics</td>
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<tr>
<td>12.15 pm</td>
<td>Lunch</td>
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<td>1.30 pm</td>
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<td>Michelle Dawson (Auckland Council) <em>New scale, new opportunity for Auckland</em></td>
<td>Craig Duff (Active Refrigeration) <em>The changes that are currently taking place in the industrial heat pump space</em></td>
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<tr>
<td>2.00 pm</td>
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<td>Lyndon Haugh (Carter Holt Harvey) <em>Practical issues with improving energy efficiency in an industrial environment</em></td>
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<tr>
<td>2.30 pm</td>
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<td>Joint discussion in one room about session topics and conference closure</td>
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<td>3.30 pm</td>
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<td>Afternoon tea</td>
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</tbody>
</table>
ENERGY MANAGEMENT

Through our specialist energy teams we can offer a diverse range of services in conjunction with our asset management programmes, allowing you to make informed decisions whilst being leading edge in terms of technology, efficiency and responsibility.

Services we can offer via our energy teams include;

» Energy Audits (NZ Accredited Energy Auditor)
» Equipment Comparison reports
» Projected operational running costs
» Thermal modelling
» Compliance reports
» Alternative design solutions (passive and active)
» Rating tools management
» Continuous energy optimisation and commissioning
» Energy monitoring and verification
» Carbon management and environmental auditing
» Renewable energy options

ASSET MANAGEMENT

Opus International provides total asset management services tailored to many differing industry sectors. We provide a centralised and coordinated approach to our service. We provide rich knowledge and experience that will create efficiencies and enhance effectiveness of current processes through proven asset management methodologies, independent advice, capacity to resource specific tasks, as well as an enviable knowledge of relevant codes and standards.

Services we can offer via our asset management team include;

» Asset management plans (strategic, tactical and operational)
» Condition surveys (creation, validation, decision support tools)
» Compliance audits
» Feasibility and functionality assessments
» Valuations and economic analysis
» Facilities and property portfolio management
» Building services design and management
» Stakeholder consultation and public participation
» NZ Treasury Better Business Cases

For further information please contact:
Priyani de Silva-Currie
Phone: 03 548 1099
Email: Priyani@opus.co.nz

Visit our website
www.opus.co.nz
Abstract This presentation summarises a practical strategy for a sustainable energy society deriving its initial energy needs from low carbon energy resources whilst at the same time establishing a decentralised energy, water and waste infrastructure to enable future energy and water needs to be derived from wholly renewable resources within the Sustainable Sydney 2030 timescale to reduce greenhouse gas emissions by 70% by 2030. These concepts can be applied to any community in the Australia or indeed in the world.

The presentation will cover the following:

- Sustainable Sydney 2030 – Green Infrastructure Plan.
- Showing by Doing – Implementing decentralised energy, water and waste projects on its own buildings and operations.

Background Allan is Chief Development Officer, Energy and Climate Change of the City of Sydney. Allan is also a Board member of the National Climate Change Adaptation Research Facility. Prior to his appointment Allan was Chief Executive Officer of the London Climate Change Agency and prior to that Woking Borough Council’s Director of Thameswey Ltd.

Allan’s role at the City is to deliver its Green Infrastructure Plan and major energy and climate change projects, including trigeneration, renewable energy, alternative waste treatment, automated waste collection and decentralised water. Since his appointment 2 years ago the City has reduced greenhouse gas emissions in its own buildings and operations by 18% and is well on the way to reducing emissions in its own buildings by 48% and in its overall emissions by 20% by 2012/13 as well as setting in place the green infrastructure for its Local Government Area to reduce emissions by 70% by 2030.

During his time in London Allan set up and ran the London Climate Change Agency, developed the energy and climate change elements of the London Plan, Mayor’s Climate Change Action Plan and the Mayoral Climate Change Statutory Duty as well as developing and implementing decentralised energy and renewable energy projects in London.

During his time at Woking, Allan reduced CO2 emissions by 77.5% from 1990 levels to 2004 and undertook groundbreaking work on energy efficiency, trigeneration, renewable gases from waste, alternative fuels for transport, renewable energy and fuel cells. Under Allan, Woking installed 81 private wire decentralised energy systems, nearly 10% of the UK’s total installed solar energy photovoltaics and the first fuel cell CHP in the UK.

Allan was appointed a Member of the British Empire in 1999 for services to energy and water efficiency and was instrumental in Woking Borough Council gaining the Queen’s Award for Enterprise: Sustainable Development 2001 in the development of Local Sustainable Community Energy Systems, the only local authority ever to receive a Queen’s Award for Enterprise.
Andrew Simcock
Biodiesel New Zealand
The growth of the NZ biodiesel fuel market

**ABSTRACT** Biodiesel New Zealand, a renewable fuel business of Solid Energy, has been making and selling high quality bio diesel derived from used vegetable oil (UCO) for over four years. In the last 3 years, the business has introduced and been growing oilseed rape (OSR) for the production of Biogold biodiesel. Biodiesel New Zealand is the leading supplier of biodiesel in New Zealand having a multiple feedstock, fully integrated, market led strategy to increasingly supply the New Zealand diesel market with quality bio diesel promoting benefits, growth and scale relevant to today’s key markets.

**BACKGROUND** Andrew Simcock was appointed General Manager of Biodiesel New Zealand, Solid Energy New Zealand Ltd’s renewable fuel business in October 2008. Mr Simcock, brings marketing, commercial and general management experience to the business. His career includes roles with PlaceMakers, Skope Industries, Carter Holt Harvey, PDL Industries and Firestone. Alongside a Master of Commerce (Honours) degree from the University of Canterbury, Mr Simcock also has a BSc in plant and microbial sciences.

Bob Dixon
Siemens Infrastructure & Cities
Catching the Green Wave - Global Best Practices in Energy Efficiency & Sustainability

**ABSTRACT** The combination of a global crisis including the unpredictability of energy supply, increasing demand for energy particularly in developing regions, energy security due to terrorist activities, rising cost of fuel both for businesses and consumers, global warming affecting climate change, increasing government mandates and incentives to lower energy usage all have contributed to creating a green wave. The result is that most building owners are left to navigate through uncharted waters in developing the right energy efficiency strategies to meet market conditions or legislative expectations. And while traditional efficiency solutions are offered through the “usual suspects” of Energy Service Companies (ESCos) or some utilities, it is the collaboration between government and industry that can ultimately create a clear navigational path to help building owners and professionals achieve energy efficiency and sustainability goals. This speech will strive to highlight the market and natural forces that created the Green wave, and discuss some of the global best practices and technologies that government and industry leaders can utilize in buildings to help solve our global energy and climate problems.

**BACKGROUND** Bob Dixon has over 35 years of experience in building systems, facility operations, energy conservation and management. He currently serves as the Global Head of Efficiency & Sustainability, Vice President and Senior Advisor to the Management Board of the Building Technologies Division of Siemens.

In this position, he is responsible for advising government and business leaders around the world on global initiatives for building efficiency and sustainability, enabling the reduction of carbon emissions and energy consumption, and conserving natural resources.

In addition, Bob is responsible for assessing the strategic implications of efficiency and sustainability global trends and opportunities, including identification and evaluation of partnership opportunities and sourced technologies, enhancing efficiency and sustainability strategies. He is the first designated Senior Principle Expert for the 39,000 employee Building Technologies Division.

He currently serves as Industry First-Vice Chair for the Alliance to Save Energy, and is a past president of National Association of Energy Service Companies (NAESCO). He served as the Industry Member on the Buildings and Appliances Task Force under the Asia-Pacific Partnership on Clean Development and Climate.

Ben Martell
International Telematics
Energy measurement and management in transport fleets

**ABSTRACT** A brief look into some of the newer ways in which transport fleets and in particular heavy vehicle fleets are measuring their energy requirements and outputs. This will involve a brief explanation of the an industry known as ‘telematics’ and what it aims to empower transport operators with the ability to monitor.

**BACKGROUND** Ben is Chief Technical Officer at International Telematics, a New Zealand company formed in 2005 with offices in New Zealand, United States and Australia, to address the needs of transport operators who require, or whose customers require, the need to monitor themselves in real time. Prior to this he spent a long time helping to bring the Internet and its ensuing infrastructure to New Zealand. Stints with Mercedes Benz and Porsche in Europe have also given him a detailed understanding of the sophisticated electronics that now resides in modern vehicles.
ABSTRACT Over the last few years CIAL have embarked on an extensive redevelopment of the terminal facilities to provide a world class efficient, cost effective and pleasing environment for its clients and operators. One of the key criteria in the design of the facility has been to incorporate the latest energy efficiency initiatives from building design, equipment selection, controls and monitoring and targeting systems. In this session we will look into the new Integrated Terminal Project and the impact on the monitoring and targeting system, how the information is utilised to plot performance and highlight opportunities for improved energy management.

The project has involved the installation of large heat pumps utilising artesian water for the heat source/sink coupled to a control system that ensures energy costs are kept to a minimum whilst delivering the required comfort levels within the terminal. Following this session you will have the opportunity to tour the main plant room at CIAL which houses the heat pumps and control system. Key staff will be present to answer any questions you may have.

BACKGROUND Charlie has extensive experience in the energy sector in New Zealand. Initially trained as a mechanical engineer with A & T Burt, however over the 20 years he has focused on the energy sector with a particular interest in electricity.

From starting with ECNZ (Electricity Corporation NZ) as Commercial Engineer Charlie moved to Southpower when he progressed to National Sales Development Manager. Following deregulation of the electricity industry Charlie moved to TransAlta NZ becoming the National Sales Manager controlling the delivery of services for both LPG and electricity to their major customers throughout New Zealand via a strong customer focused team. TransAlta was then sold and renamed On-energy where he remained until 2001.

In 2001 Charlie established a utility consulting business and established a close working relationship with Enercon Energy Consulting. In mid 2011 Charlie joined Enercon as Business Development Manager with a focus on developing relationships and services to meet clients needs.
Craig Duff
Active Refrigeration Limited
The changes that are currently taking place in the industrial heat pump space

ABSTRACT High temperature ammonia heat pump technology is widely used abroad. This presentation outlines the opportunities that exist in New Zealand with this natural refrigerant along with the relative ease of implementation. The presentation covers energy and environmental benefits through high temperature ammonia heat pumps with genuine high temperature latent heating. High efficiencies are demonstrated with this technology that is proven and therefore no longer an entry level barrier to industry.

BACKGROUND Following Craig’s Refrigeration Apprenticeship, he completed a New Zealand Certificate in Engineering and then a Mechanical Engineering Degree. He has been heavily involved in industrial refrigeration in New Zealand throughout his working career.

Craig is recognised by peers as one of the leaders in New Zealand’s refrigeration field with his significant contribution. He is a co-owner and Director of Active Refrigeration Limited who execute project and servicing of industrial refrigeration equipment nationwide.

David Procter
Philips Lighting NZ Limited
Reducing energy costs with efficient lighting and lighting controls

ABSTRACT For offices and commercial buildings, lighting accounts for up to 35% of energy consumption. Developments in energy-efficient lighting, lighting controls, and LED present a number of options for organisations to replace their outdated lighting systems and reduce their energy costs.

This presentation will focus on these new lighting developments, local customer case studies, and total cost of ownership calculations to quantify the potential opportunities for organisations.

BACKGROUND David manages Philips New Zealand’s customer programmes including the development and launch of energy-efficient lighting products for the commercial market. He has a number of years of industry experience in launching technical products to market, and increasing uptake of energy-efficient solutions.

Dale Alloway
Arc Innovations Limited
Big Data and the Electricity Industry

ABSTRACT Data volumes in the electricity industry are exploding, led primarily by the investment in smart metering and new ways of communicating with electricity consumers. This paper looks at some of the demands and challenges ‘big data’ is posing for the industry and some of the opportunities for industry players and consumers in the future.

BACKGROUND Dale Alloway, CEO, Arc Innovations Limited. Dale has a strong business leadership background with a proven record in business change and growth in many senior roles in the technology innovation and telecommunications sectors. These roles have seen him develop and broaden numerous high profile product offerings, deliver major change programs in business design and capability, and deploy major enterprise system infrastructure, including major billing systems and communications networks.

Doug Clover
Victoria University of Wellington
Will New Zealanders buy electric cars? A survey of car buyers’ preferences and the implications for the New Zealand electricity sector

ABSTRACT In 2010, the New Zealand light duty passenger fleet comprised approximately 2.5 million vehicles, consumed an estimated 106 PJ of petroleum energy, and produced an estimated 7,200,000 tonnes CO2e, making it New Zealand’s largest user of fossil fuels and one of the major sources of greenhouse gas emissions. It has been proposed that electric vehicles, using lithium ion battery technology, have the potential to reduce New Zealand’s reliance on imported petroleum and also reduce emission of greenhouse gases. However, concerns have been raised that these vehicles will be too expensive and have technological limitations, which will prevent them being bought in sufficient quantities to make a difference.

To estimate the potential demand by New Zealand car buyers for electric vehicles a nationwide survey was undertaken in 2010. The data from the survey was then used to develop a discrete choice model which can estimate the proportions and types of electric vehicle that will enter the fleet taking
into account vehicle prices and changing technological capabilities. By incorporating these estimates into a car ownership model, and using the Electricity Authority’s Generation Expansion Model, future energy consumption and greenhouse gas emissions from 2010 to 2030 can then be estimated.

BACKGROUND Doug Clover has a long term interest in the promoting the development of sustainable energy and transport solutions. He has a background working in energy and transport policy in the government sector and for the Parliamentary Commissioner for the Environment. He is currently completing a PhD project on the effect of introducing electric vehicles into New Zealand.

Karen Chaney
EECA
Making it mainstream

ABSTRACT How can EECA and the energy management industry work together to make energy management a part of everyday business decision-making?

BACKGROUND Karen emigrated from the UK in late 2001 after four years as a project manager in the telecoms industry in London. Since arriving in New Zealand, Karen has spent over 10 years undertaking a variety of roles within the electricity supply industry. These have ranged from a consultancy-based role providing advice on workplace compliance matters to the likes of Meridian and Transpower, policy development roles with the transmission team of the Electricity Commission, to a leadership role as the director of the Commission’s retail team. In October 2011, Karen joined EECA as the Programme Manager Commercial, responsible for delivery of EECA’s energy efficiency programmes in the commercial sector.

Active Energy Management
Architecture from power plant to plug
EcoStruxure integrated system architecture

As consumers, businesses, and entire economies become increasingly reliant on technology, they insist that devices become more intuitive, more efficient, and more intelligent. With EcoStruxure, Schneider Electric encourages them to expect the same of their energy.

EcoStruxure is an approach to creating intelligent energy management systems. These systems are simplified, save money, and most importantly, reduce waste by enabling a guaranteed compatibility between the management of power, white space, process and machines, building control, and security. EcoStruxure’s agile architecture brings optimised systems within reach of a wider audience because of its compatible product designs and open-platform software. It provides end-users with the critical tools needed to reduce their design time, CapEx and OpEx.

Schneider Electric has created a demo centre to experience the EcoStruxure approach. The system brings together a complete solution from the process control (PAC and SCADA), security (BMS and PELCO), IT (APC) and energy management (Power metering and NSX). The demo centre is operational and is available for customer demonstrations and tours.

For more information on EcoStruxure please visit our stand or the global website www.schneider-electric.com
Dr Leonid Itskovich
Christchurch City Council

**ABSTRACT** The rebuild of Central Christchurch after the devastating earthquakes presents a unique opportunity: to introduce renewable energy and energy efficiency at a city-wide scale. Energy-related measures are considered in the draft Central City Plan, with the most prominent idea of creating a District Energy System based mainly on renewable primary energy sources, co-generation of electricity and heat and the utilization of waste heat.

While the concept is common knowledge and a way of life in many European and American cities, it is not common in New Zealand. Feasibility studies were conducted in 2011 with regards to implementing district heating in Christchurch as a means of re-building a more prosperous, healthy and resilient city. These studies brought the renewable district energy from just a remote possibility to a practical implementation model stage.

Leonid’s presentation discusses the results of the technical, economic and environmental feasibility studies conducted recently by local and Scandinavian specialists, and various aspects and issues associated with the vision of large-scale renewable energy co-generation for the city.

**BACKGROUND** Leonid is Christchurch City Council’s Energy Manager. He is not only a passionate promoter of innovation, energy efficiency and renewable energy but a persistent and successful implementer of the ideals of sustainable energy.

Under Leonid’s leadership in energy management, the Christchurch City Council achieved outstanding and sustained results in implementing a broad range of energy efficiency measures and projects that resulted in an estimated reduction of $100M in energy costs for the community.

Lyndon Haugh
Carter Holt Harvey Limited
Practical issues with improving energy efficiency in an industrial environment

**ABSTRACT** The topic will review a number of energy efficiency and cost savings improvements made in a Pulp & Paper manufacturing plant environment, the practical issue that arise when working on turning these into reality and offer thoughts on how to improve the momentum in continuing down the path of continuous energy efficiency improvement.

**BACKGROUND** Lyndon is an electrical engineer who has worked in the pulp & paper industry at the Kinleith mill for many years in maintenance and project engineering, as well as production management roles. Much of this time has been spent leading multidisciplinary teams of engineers on many and varied capital projects ranging from boilers, to pulping and chemical plants. Production management has centred around energy (steam and electricity) production and use as well as chemical processing. A particular interest in energy use and efficiency over the past few years has recently led to a more full time involvement in these matters.

Michelle Dawson
Auckland Council
New scale, new opportunity for Auckland

**ABSTRACT** With the transition to a single council, Auckland Council’s energy team are not continuing down the path of business as usual for energy management. This session will show how Auckland Council is changing its approach to energy management, the tools it has put in place and how it is influencing current and future projects to achieve its goal of 40% reduction in greenhouse gas emissions by 2031.

**BACKGROUND** Michelle Dawson (BMS, PGrad Dip Envt & Mgt, MMS Envt & Mgt) has a background in business and strategy and has applied it to engaging joint business/sustainability outcomes, including energy efficiency. Michelle joined Auckland Council in July 2011 after a break from over 12 years at Waitakere City Council in implementing sustainability and energy management programmes. During her time at Waitakere, the council stabilised it’s greenhouse gas emissions and avoided/saved $1.5 million in energy costs and around 12 million kilowatt hours.

Michelle now joined the Auckland Council as energy manager and is working with a team to reduce the ecological footprint through future proofing and increasing resource efficiency of the council building stock and growing council staff skills to incorporate energy efficiency and whole of life outcomes in day-to-day business processes. Her goal is to expand the experience from Auckland Council to work with local communities, businesses and industries reduce their ecological footprint, future proof their communities and reduce their resource usage.
**Paul Bannister**  
*Exergy Australia*  
**NABERS: Transforming energy efficiency in Australia**

**ABSTRACT** The National Australian Built Environment Rating System (NABERS) has been in operation in various forms since 1999. In this time it has had a major impact particularly in the office sector, which has adopted the rating as a part of general asset evaluation due to its value is securing quality tenants, particular from government. This has led to a massive increase in energy efficiency work in the office sector, with the upper end of the market in particular responding through upgrades that have been improving average performance by more than 30%. The rating now forms part of the Compulsory Building Disclosure scheme, which mandates the declaration of a rating for essentially all office leases or sales above 2000m². Paul will discuss the successes and challenges for the rating system and how it has transformed energy efficiency from a technical outlier to core business.

**BACKGROUND** Dr Paul Bannister is Managing Director of Exergy Australia, Australia’s leading energy management company. He has immense experience of commercial sector energy efficiency, having conducted audits of hundreds of buildings including offices, hospitals, retail developments and universities, as well as a number of manufacturing installations. Paul was the originator of the tools now known as NABERS Energy and Water, which provide in-operation benchmarks for offices, hotels and shopping centres and have significantly changed the market for energy efficiency in Australia.

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**Peter Townsend**  
*Canterbury Employers’ Chamber of Commerce*  
**New Zealand’s greatest natural disaster: Issues, resolution and lessons**

**ABSTRACT** The September 2010 and February 2011 earthquakes will impact radically on the future of Christchurch. The city has been challenged by physical devastation and social dislocation, never seen before in this country. The recreation of the Central City and the rebuilding of the wider community present enormous challenges and opportunities. Positioning the now broken city for the next 150 years will be unique and exciting. There are now, and will continue to be, important lessons for all of New Zealand. In his role as Chief Executive of the Canterbury Employers’ Chamber of Commerce, Peter Townsend will provide first hand insight into the issues associated with Christchurch’s positioning and recovery.

**BACKGROUND** Peter Townsend is the Chief Executive of the Canterbury Employers’ Chamber of Commerce and has held that position since 1996. The Employers’ Chamber, as the largest business support agency in the South Island, concentrates on assisting members to improve their enterprises; ensuring members can operate in a business friendly environment; and encouraging new levels of business activity. Peter holds several corporate directorships including being a Board member of New Zealand Trade and Enterprise and the MSI Innovation Board. He is also a Board member of Pegasus Health Ltd and the Air Force Museum Trust.

Peter is the Honorary Consul for Chile for the South Island, a Fellow of the Institute of Directors and a Fellow of the Institute of Management. Peter has a BSc (Hons) and a post Graduate Diploma in Business.

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**Simon James Honeywell**  
*Honeywell Building Solutions*  
**Energy Performance Contracting and Beyond**

**ABSTRACT** Honeywell is a global leader in Energy Performance Contracting. In his presentation Simon will provide an overview of this unique method of delivering and guaranteeing energy efficiency outcomes and provide some local project references. Simon’s presentation will also cover how advances in technology are engaging stakeholders and creating even more significant opportunities to maximize energy efficiency and optimize systems to ensure these gains are maintained.

**BACKGROUND** Simon James is the General Manager for Honeywell’s Energy and Environment Solutions Business covering Australia, New Zealand, South East Asia, India and Middle East. He is responsible for delivering a broad range of solutions that deliver better environmental outcomes for customers by enabling buildings and facilities to improve their energy efficiency and address sustainability as a long term business goal.

With over 25 years experience working for Honeywell, Simon has held a number of leadership, marketing, technology and engineering roles focused on developing and implementing intelligent energy efficient solutions for buildings and facilities. Simon has a diverse range of experience, working in Australia, Asia-Pacific and the United States markets. He is the current President of the Australian Energy Efficiency Council and has previous served as Vice Chair and Board Member of the North American Continental Automated Buildings Association, which promotes advanced Integrated technologies for the automation of homes and buildings.
SOCIAL PROGRAMME

PRE CONFERENCE SOCIAL EVENING
21 March 2012
6.30 – 7.30 pm
Outdoor garden area

PRE DINNER DRINKS
22 March 2012
5.00 pm
Mainland room

CONFERENCE DINNER
22 March 2012
7.00 pm
Head of Avon

Think LED Lighting. Think Philips.
FIELD TRIP—CHRISTCHURCH INTERNATIONAL AIRPORT

Run by Enercon

The field trip will be to Christchurch International Airport departing at 3.45 pm from the conference venue. A bus will be provided to transport delegates to the airport. The airport has strict security so it is necessary that you arrive by bus only in order to be granted access to the area.

Delegates will be separated into 2 groups. Each group will be dropped off at different areas of the airport and will swap places once they have finished in that area.

The field trip will look into the new Integrated Terminal Project and the impact on the monitoring and targeting system, how the information is utilised to plot performance and highlight opportunities for improved energy management.

EXHIBITORS

OPUS INTERNATIONAL CONSULTANTS LTD

Opus is a leading international multi-disciplinary consultancy. Its people are at the forefront of award-winning and innovative projects. Opus is a global company providing excellent solutions to a wide range of clients.

Opus provides specialist advice and project management across a wide range of service sectors. The main areas of work include highway asset development and maintenance, architecture, structural design, infrastructure development, and asset management, water management and environmental planning.

Today, Opus has around 2500 staff in offices and laboratories throughout Australia, Canada, the United Kingdom and New Zealand. It is part of the corporate philosophy of Opus to encourage staff to develop and reach their full potential and in so doing contribute to its success.

CONTACT DETAILS

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Work Group Manager Asset Solutions
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Nelson 7010
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W: www.opus.co.nz
**ENERGY EFFICIENCY AND CONSERVATION AUTHORITY (EECA)**

The Energy Efficiency and Conservation Authority (EECA) is the government agency that encourages, supports and promotes energy efficiency, energy conservation, and the use of renewable sources of energy.

EECA works across the economy to provide people in business and at home with the information, tools, and support they need to make changes in their energy use. EECA works with many partners to do this - with the private sector, community groups, industry associations, and central and local government.

**CONTACT DETAILS**

Level 8, 44 The Terrace, Wellington 6011, PO Box 388, Wellington 6140

P: +64 4 470 2200

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**HONEYWELL BUILDING SOLUTIONS**

With our depth of experience in delivering sustainable outcomes, Honeywell can help you with complete, reliable solutions—wherever you are on your sustainability journey.

We provide end to end solutions that combine the best choice of mechanical equipment with the right controls solution. And our integration skills ensure that all the parts of our solutions work together.

Whether you’re looking for small or large step changes in efficiency or sustained performance through proactive monitoring of your building by our on-site or remote service teams, we’re ready to help.

**CONTACT DETAILS**

Mark Ballantyne

P: 04 566 0670

E: mark.ballantyne@honeywell.com

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**PHILIPS**

Philips Lighting is leading the industry transformation from traditional lighting to energy efficient lighting solutions including LED. We provide lighting solutions for interiors and offices, and also outdoor environments including the Christchurch Airport Air Traffic Control Tower and Auckland’s Newmarket Train Station.

Philips has a complete lighting portfolio- from lamps, lighting electronics and LED components and modules to professional and consumer luminaires and automotive applications- which means we can deliver solutions to address specific customer and market requirements. No other company has the breadth and depth of expertise in all aspects of the lighting industry.

**CONTACT DETAILS**

P: 0800 4 LIGHT (0800 454448)

09-3554700

E: solutions.nz@philips.com

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**SCHNEIDER ELECTRIC**

As a global specialist in energy management with operations in more than 100 countries, Schneider Electric offers integrated solutions across multiple market segments, including leadership positions in energy and infrastructure, industrial processes, building automation, and data centres/networks, as well as a broad presence in residential applications. Focused on making energy safe, reliable, and efficient, the company’s 100,000+ employees achieved sales of more than 15.8 billion euros in 2009, through an active commitment to help individuals and organisations “Make the most of their energy”.

**CONTACT DETAILS**

Schneider Electric

P: 0800 652 999

E: sales@nz.schneider-electric.com

W: www.schneider-electric.com/nz
ENERGY NEWS

Energy News is New Zealand’s online news and information service for the energy sector including a comprehensive industry participant and energy asset database.

Energy News was launched in 2008 and now boasts around 4700 readers every month from 220+ subscribing organisations. Its readership consists of New Zealand energy sector organisations and services companies spanning the electricity, oil and gas, petroleum and alternative energy value chain.

The subscription site provides executive interviews, news, opinions and commentary on a daily basis. It also hosts a suite of information resources including two large databases of the sector participants and energy resources. Other information tools include 30-minute electricity supply and demand monitoring, petroleum permit deadline summary, and an oil price monitor.

ENERGY SOLUTIONS PROVIDERS (ESP)

Energy Solutions Providers (ESP) specialises in assisting organisations develop and implement evidence-based energy management programmes.

To date ESP works with a range of NZ’s premier businesses, organisations and local governments, including ASB (nationwide), Air New Zealand, Fairfax, Auckland Council, Bridgestone NZ and Landcare Research. The effectiveness of ESP’s programmes are ensured by using the industry leading expertise ESP provides to assist with organisational and process change.

At the heart of ESP solution real-time monitoring which we install through our clients entire property portfolio. The data is collected across the gateway as all key sub loads. These sub-loads can include chillers, mechanical plant, UPS IT systems as well as lighting and general power.

But what stands ESP’s system out form all others is ESP’s own web based programme “phantom analytics” (www.phantomanalytics.co.nz )

STERIL AIRE INC

Steril-Aire Inc. is a global leader in high-output ultraviolet germicidal solutions for improved indoor air quality and energy efficiency. Our UVC Emitters™ are systems-engineered to deliver the highest output under HVAC conditions (10° C @ 2.0 m/s air velocity), providing the best germicidal control.

Steril-Aire devices are used around the world and throughout NZ in hospitals, laboratories, schools, government facilities, offices and homes. They are also effective in reducing mold and bacterial contamination during food processing, packaging and storage to enhance quality and safety and extend shelf life and product yield.

Come talk to us on our stand the at ‘SMART CITIES’ EMANZ conference 2012 about how Steril-Aire can improve your triple bottom line; People, Planet & Profit.

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Sean McNulty
Business Development Manager

David Everett
Technical Manager
SMART POWER

Smart Power has provided clients with a one stop shop for all aspects of independent energy management advice since 1993.

Clients may tailor their energy management package to suit their needs from our full range of services:

- Energy Procurement
- Risk assessment on partial hedge offers
- Invoice verification and payment
- Monitoring and targeting reporting
- Line and transmission analysis services
- Energy audits by EMANZ accredited auditors
- Tenant billing
- Technical solutions such as:
  - Power factor analysis and reporting
  - Power quality/harmonic distortion analysis
  - Load profiling, logger rental
- Total energy management

Smart Power works with all energy forms and adds value to your business through: energy at the right price, increasing energy efficiency, reducing energy use and improving administration processes.

CONTACT DETAILS

P: 04 233 0717
F: 04 233 0716
E: office@smartpower.co.nz
W: www.smartpower.co.nz

Now, EECA has even more ways to help you

a. Save energy
b. Boost productivity
c. Build a stronger brand
d. All of the above

EECA Business has financial assistance available for commercial buildings, industrial applications and renewable energy projects. We work through programme partners with the expertise to deliver results. No matter what business you’re in, we will have advice, access to training, resources or funding that can help you achieve your energy goals.
GENERAL INFORMATION

REGISTRATION AND INFORMATION DESK

The registration desk will be located upstairs from the lobby level, outside the Head of the Avon Room. The registration desk will be open from 7.30am onwards on Thursday 22nd March and 8.00am onwards on Friday 23rd March.

The registration desk will be your first point of contact for all matters associated with the conference.

FUNCTION INFORMATION – 22ND MARCH

The conference dinner will be held at the Copthorne Hotel Commodore in the Head of the Avon Room from 7.00pm. The dress code for this function is business attire.

GENERAL INFORMATION

Speakers Preparation
If you are making a presentation at the conference, please meet James Chatterley at the registration desk 30 minutes prior to your allocated speaking time. He will assist you with your audio visual requirements.

Toilets
Toilets are located at the front of the Head of Avon Room and in the reception area.

Breaks and lunches
Throughout the conference all morning teas, lunches and afternoon teas will be served in the Exhibition area, the Ward Room and the Mainland Room.

Parking Arrangements
Parking is available free of charge at the rear of the building.

Wireless Internet Connection
Wireless Internet can be purchased from Reception for $20.00 for 24 hours.

Smoking
Smoking is not permitted inside the venue.

Fire/Emergency Evacuation
In the event of fire: Please follow the instructions of the staff and make your way to the nearest emergency exit and gather at the meeting point outside reception.

Punctuality
Please ensure that you arrive promptly for the start of each session. Doors will close at the indicated start time to prevent disruption to speakers and audiences. We appreciate your consideration.

Handy Telephone Numbers

• Copthorne Hotel Commodore 03 358 8129
• Christchurch Corporate Cabs 03 379 5888
• Christchurch Green Cabs 0508 447-336
• Air New Zealand 0800 737 000
• Christchurch Airport 03 358 5029

The Event Dynamics Team will be on site daily at the registration desk for the duration of the conference, for any enquiries out of this time, please contact:

James Chatterley | Event Manager | 021 777 928
Energy Management Association
OF NEW ZEALAND

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