

WHO'S WHO OF ATTENDEES AT THE EVENT

Bioenergy Association (BANZ) Conference

Successful Installation & Operation of Wood Fuelled Heat Plant

9 May 2014,
Distinction Hotel, Rotorua



BANZ is pleased to announce the following conference sponsors

Gold



Silver



Workshop Administration

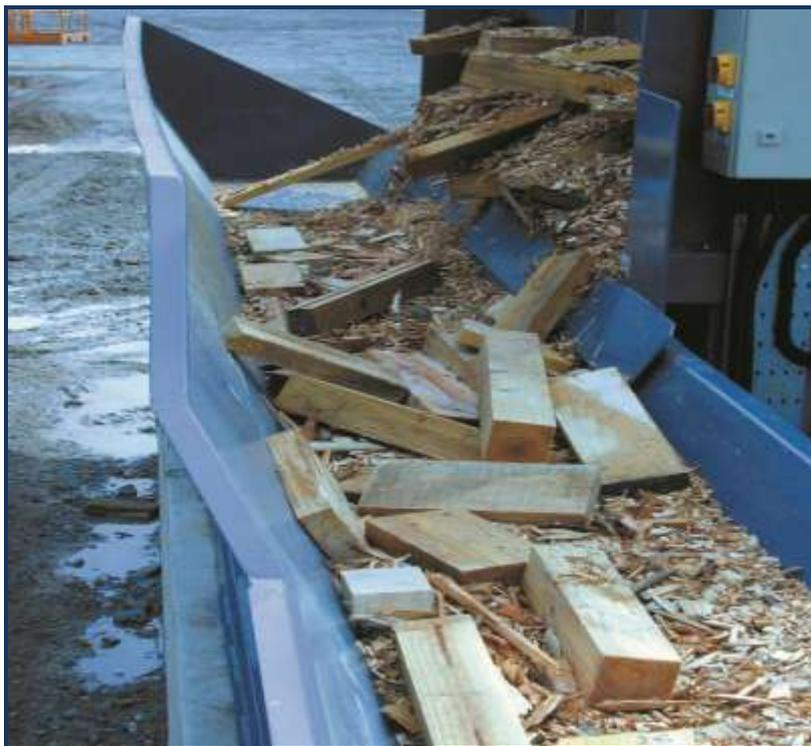
This workshop is being managed and administered by the Bioenergy Association of New Zealand. For any correction or changes to this Who's Who contact admin@bioenergy.org.nz

Workshop Presentations

Workshop presentations will be made available for a time on the UseWoodFuel NZ website www.usewoodfuelnz.org.nz

For additional information on the topics covered by this workshop please contact

- Brian Cox brian.cox@bioenergy.org.nz or
- John Gifford John@giffordconsulting.co.nz



Bioenergy Association (BANZ) Conference



Successful Installation and Operation of Wood Fuelled Heat Plant

.....a showcase of innovative technologies and fuel.

9 May 2014, Distinction Hotel, Rotorua, New Zealand

An estimated 32% of heat in New Zealand is already being produced from industrial biomass fuelled heat plant. Many of those who currently use coal, are considering new wood fuelled plant, or are evaluating using wood fuel.

Wood fuelled heat plants are located in all regions of New Zealand where the heat is used in hospitals, wood and food processing, accommodation and institution space heating, and in educational facilities. Wood is a versatile fuel produced and used locally.

The successful production of heat from wood fuel relies on a combination of quality equipment which has been correctly specified and well installed. A wide range of sizes and types of heat plant are now available and they can be developed to suit specific applications. Successful plant operation depends not only on its correct specification but also on the use of the right high quality fuel.

If you are considering the installation of new heat plant of significant upgrades, this event is for you. It provides an opportunity to share knowledge and learn from the experience of successful plant owners, wood fuel suppliers (forest owners and harvesters), wood processors, or their engineering, marketing and financial advisors who are evaluating opportunities for installing new heat plant.

The event will provide delegates with insight into what makes a successful project. In addition, the conference will provide an update on the range of heat plant technology now available and it will 'show case' applications.

Use this event to make an informed decision about your new plant or upgrade. The event will:

- Offer guidance on how to choose appropriate plant and fuel to maximize performance and minimize risk
- Provide advice and information on using quality, 'on spec' wood fuel
- Present tips to ensure a successful purchase, installation and operation
- Summarise the current wood fuel supply market and provide future projections on fuel availability and cost
- Bring together users and wood fuel suppliers enabling face to face discussion on reliable supply
- Facilitate networking with technology developers, plant installers and project managers.

BANZ is pleased to announce the Conference Gold Sponsors:



BANZ is pleased to announce the Conference Silver Sponsors:



Conference Programme

9 May 2014

- 8.30 - 9.00 Registration
- 9.00 - 9.05 Welcome and Introduction - *Brian Cox, BANZ Executive Officer*
- 9.05 - 9.20 Conference opening – *Hon Simon Bridges, Minister of Energy and Resources*

Key note international speaker

- 9.20 - 9.50 International examples of installing and operating wood fuelled district heating schemes
Vaughan Furniss, Managing Director, COFELY Australia Pty

Managing Wood Fuel Supply Risk

- 9.50 - 10.15 How to establish if there is enough wood resource to meet my heat plant fuel needs?
- Tools for assessing wood fuel availability
 - Regional wood and wood residue availability
 - Types and quantities of fuel available
 - Matching plant and resource
- Peter Hall, Scion*

10.15 - 10.45 Tea break (Sponsored by Fonterra)

- 10.45 - 11.05 Experience in sourcing wood fuel in the Otago and Canterbury regions.
- Contracting for wood fuel supply
 - Systems and structures for supplying fuel
 - Dual fuelling
 - Matching fuel to plant design
- Grant Smith, Pioneer Energy*
- 11.05 - 11.25 Keeping the customer happy – integrating equipment and fuel supply in Otago
Eduard Ebbinge, Spark Energy
- 11.25 - 11.40 How to minimize fuel cost – a wood fuel supplier’s perspective
Brad Coleman, Canterbury Wood Fuel Supplies
- 11.40 - 12.05 Tools to ensure the appropriate quality and availability of wood fuel to manage risks?
Directory of wood fuel suppliers
- BANZ wood fuel supply tools
 - How to specify fuels
 - BANZ Model fuel supply contract
 - BANZ actions to build the wood fuel supply market
- John Gifford, BANZ*

12.05 - 12.25 Panel discussion: What can heat plant owners do to manage their fuel cost.
Chair: Shaun Bowler, EECA

12.25 - 1.25 Lunch (sponsored by Polytechnik Biomass Energy)



Commercial and Risk Management

1:25 - 1.45 A business case for investment in new wood fuelled heat plant

- Economics
- Non –economic benefits
- Future price trends for wood fuels
- Drivers for wood fuel pricing

Mike Suggate, East Harbour Energy

1.45 - 2.05 What we have learnt from a decade of working with heat plant owners

- The European story – Lessons and barriers etc.
- The NZ story so far – Who is using wood pellets and what has been the success rate. Case studies and project experiences.
- NZ drivers, barriers and solutions.
- The future.

Peter Kernohan, Natures Flame

2.05 - 2.25 The tradeoff between capital and operating expenditure (matching your fuel to the heat plant)

- Economics
- Case studies
- Securing low cost fuels
- Other considerations when selecting heat plant

Christian, Jirkowsky, Polytechnik Biomass Energy Ltd.

Successful Heat Plant

2:25 - 2:45 Case Study 1:- Why we are pleased we installed wood fuelled plant

Ian Kempthorne, K & L Nurseries, Christchurch

- Why conversion from coal
- Owning a wood fueled heat plant
- Process for selecting and installing a wood fired heat plant
- Costs and benefits
- How we manage our fuel supply

2.45 - 3.05 What to consider when choosing your heat plant (criteria for selecting a plant)
Rob Mallinson, Living Energy

3.05 - 3.35

Tea break (Sponsored by RCR Energy)



3.35 - 3.55 Case Study 2: - Why wood fuel when surrounded by coal
Peter Thompson, Splash Palace, Invercargill City Council

- Owning a wood fueled heat plant
- Process for selecting and installing a wood fired heat plant
- Costs and benefits
- How we manage our fuel supply

3.55 - 4.15 Scalability and applicability of industrial scale heat plant
Hamish McBeth, RCR Energy

4.15 - 4.35 Case Study 3: - Conversion from coal to wood fuel
Peter Fitzgerald, Principal, Awakeri School, Whakatane,

- Why conversion from coal
- Owning a wood fuel heat plant
- Process for installing selecting a wood fired heat plant
- Costs and benefits
- How we manage our fuel supply

4.35 - 4.50 Panel Discussion The barriers and opportunities for more heat plant
Chair (tbc), Wood fuel supplier, Boiler supplier, Customer, BANZ

4.50 - 5.00 **Final Closing (Chair BANZ)** – moving forward: wood fuel as a mainstream energy source.

Speaker Profiles

International Speaker – Vaughan Furniss, CP Eng. M.IPENZ, IPER – Cofely Australia Pty Limited



Vaughan Furniss is a widely respected international practitioner of decentralised, low and zero carbon energy systems. Vaughan is a Chartered Professional Engineer, with more than 15 years direct experience within energy and related sectors, being employed by GDF Suez in its Energy Services business line since 2005, as Commercial Manager for COFELY District Energy (UK)/Utilicom Limited and now as Managing Director, for the Branch's Cofely Australia business.

Vaughan has extensive experience in the development and delivery of decentralised energy schemes (precinct and citywide scale), including design, project finance, contractual and partnership structures with public and private sectors needed to bring these complex projects to life.

In recent times, Vaughan managed COFELY's procurement, implementation and development of the UK's fastest growing decentralised energy scheme: Birmingham District Energy Company Limited, a scheme operated in joint cooperating with Birmingham City Council, Aston University and Birmingham Children's Hospital NHS Foundation Trust.

Email: vaughan.furniss@gdfsuez.com Web: www.gdfsuez.com

BRIAN COX, BANZ



Brian has over 30 years' experience in identifying, investigating and developing commercial capital investment projects in the energy and infrastructure sectors. For the last decade Brian has been the

Executive Officer of the Bioenergy Association of New Zealand. The Bioenergy Association is an industry grouping representing all commercial, research and academic parties in New Zealand involved with wood fuel, biogas and liquid biofuels.

www.bioenergy.org.nz admin@bioenergy.org.nz

PETER HALL, Scion



Peter has worked in forest management, logging and logging research (LIRO), forest establishment research and bioenergy research in various roles since 1978. He was an operations forester for CHH forests for 5 years until return to Scion to work on the Bioenergy Options for New Zealand project in 2007. Currently a scientist

/ project manager, in Scions Biofuels and Bioenergy project, working on biomass resource analysis, WoodScape and torrefaction of woody biomass and. He is the technical lead on the WoodScape project looking at wood processing opportunities for New Zealand.

Peter.hall@scionresearch.com
| www.scionresearch.com

GRANT SMITH, Pioneer Energy



As GM Business Development & Strategy, Pioneer Generation Ltd Grant has a proven executive management record with over 15 years' experience driving growth in the electricity industry.

Prior to its sale to Pioneer in 2012, Grant was CEO of Energy For Industry Ltd (EFI). Grant's expertise and knowledge has been retained and recognised in his executive role where he is involved in all facets of the business.

Grant was also Meridian Energy's Portfolio Manager of Trading & Generation, responsible for the overall risk trading risk position and led the integration of Meridian's wholesale and retail market positions.

He has worked in Australian and NZ in roles including power station development, strategy and business development, technology research, commercial and trading risk management and retail sales and marketing.

EDUARD EBBINGE, Spark Energy



Eduard is MD of Spark Energy, a leader in efficient wood heating and the supply of fuel-grade wood chips to a range of commercial customers around New Zealand.

Prior to founding Spark Energy, Eduard developed the Southern hemisphere's only indoor ski resort, Snowplanet, in Auckland and remains involved as non-executive director and shareholder.

His involvement in this energy-intensive business triggered a keen interest in energy management and spurred the launch of Spark Energy in 2007.

Prior to embracing entrepreneurial initiatives, Eduard had a successful career in mergers & acquisitions advisory working for Credit Suisse First Boston and Bankers Trust in Auckland. Eduard has a masters degree in Economics from Amsterdam University and further studied at Uppsala University in Sweden.

Email: ebbingenz@me.com | www.woodpellets.org.nz

BRAD COLEMAN, Canterbury Woodchip Supplies

Brad is the owner of Canterbury Woodchip Supplies (CWS). CWS began as an idea in 2011 when an opportunity in the animal bedding market, particularly calf pens on dairy farms, was identified. A Morbark whole tree woodchipper was imported direct from the United States and in 2013 CWS supplied 15,000m³ to local dairy farms, an increase of 25% from the previous year.

In 2012 a batch drying shed was built and the company's first contract at the Timaru Caroline Bay swimming pool complex was secured. Later last year the opportunity arose to expand the drying operation and a wood fuelled rotary dryer was purchased after the closure of Solid Energy's Christchurch pellet operation. This expansion now allows CWS to supply a purposely manufactured product to a range of industries. The raw material is purchased directly from local forests and is then manufactured to meet the specifications, as proposed by BANZ. During processing stage, the product is screened for size consistency and re-chipped if required. Purchasing straight from forestry assures that we have an uninterrupted supply of logs and woodchip can be produced to meet demand.

HAMISH MCBETH, RCR Energy



Hamish McBeth is an Operations Manager with over 10 years' experience involved in thermal energy systems with RCR Energy. RCR Energy is an amalgamation of former boiler and energy system companies including AE&E

Australia, Tomlinson Boilers, John Thompson, Stelform and Easteel Industries. His industry experience has included design and applications engineering, manufacturing, sales, service and general management.

More recently Hamish completed a 2 year role as Sales Engineer with INTEC Engineering, who provides thermal oil heating and steam generation process solutions to industry around the world, specializing in gas fired and biomass combustion systems.

Hamish has returned to RCR Energy and now manages a strong team consisting of Project Managers, Procurement & Manufacturing to reliably deliver successful EPC projects.

CHRISTIAN JIRKOWSKY, Polytechnik Biomass Energy



Christian Jirkowsky is Polytechnik Biomass Energy's General Manager with almost 25 years of experience in areas such as heat and power generation via wood, biomass and fossil fuels, emission control and heat recovery systems in markets such as Europe, Asia, Oceania and Americas. He holds a degree in mechanical engineering and is

passionate about sustainable and renewable energy solutions.

Christian is experienced in design and engineering of wood and biomass fuelled thermal energy plants as well as emission control systems with a strong focus on leading-edge technologies.

He has been involved directly in over 500 bioenergy plants and is recognized as one of the leading experts in the Bioenergy Industry in Australasia. He has particular expertise in: Industrial Energy Plants, Combined Heat and Power, Power Generation Systems, Combustion, Energy Recovery Systems, Energy Recovery Systems, Energy from Wood and Forest Waste, Air Pollution Control, etc.

ROB MALLINSON – Wood Energy Australia Pty Ltd and Living Energy Ltd



In 2000 whilst a General Manager in Carter Holt Harvey's Forest division, Rob set up a stand-alone business unit of CHH (CHH Biogrid) to promote the use of biomass as an energy source to larger commercial

and industrial heat users. Rob established Living Energy in 2003 and Wood Energy Australia in 2013, which, between them, have since installed over 40,000kW of wood-fired boilers at a range of different sites – from sawmills to swimming pools, schools, universities, hotels, and hospitals – putting them close to the forefront of this field.

Rob is also the Chairman of the Bioenergy Association of New Zealand (BANZ). Prior to getting hooked on wood energy, Rob worked in the oil industry in Europe and North America, but has now crossed from the dark side.

PETE THOMPSON, Southland Aquatic Centre, Splash Palace



Pete is the Aquatic Services Manager for Invercargill City Council (started in September 2011). He has a Management degree, (majors Strategic Management and Sports Management) and has been involved with Local government since 2007. He is a former Engineering project manager (telecommunications) and Engineering manager (Civil) (District Council).

The aquatic facility at Splash Palace (water/space heating) was previously (since 1996) done with two 750kW coal fired Taylor 70 series vertical boilers. Flue gas testing in 2005 showed that the average combustion efficiency of each boiler was 58% and 79% respectively (total average of 66% allowing 2% for typical heat losses). Subsequently in 2008 Council began researching other heating sources due to the high maintenance cost and relatively low efficiency of the existing boilers. In November 2011 the approval was given to replace the coal fired boilers with a single 675kW Binder chip boiler and a backup 600kW diesel boiler.

IAN KEMPThorNE, K&L Nurseries, Dunedin



Ian was born and raised in Southland and has a background in heavy equipment diesel mechanics. He has worked in the gold mines in Australian and is an experienced mechanic as leading hand at Gough's Cat in Christchurch workshop.

At the same time Ian was also helping at the nursery doing the engineering and maintenance after work or on weekends.

In 2006 he made the leap from mechanics to flower growing! Glasshouses were initially heated with an old coal boiler (ex Dunedin wool scour). Glasshouses now fill 8000sqm with Gerbera and Roses as the main crop. In 2013 we installed a new biomass boiler and heat storage and have just won 3 awards in the Balance Farm Environmental awards for Canterbury. Our focus is on local domestic market and we supply cut flowers to florists and wholesalers.

PETER KERNOHAN, Nature's Flame



Peter is Sales and Technical Manager for Nature's Flame. He is responsible for sales within New Zealand and Australia. His 34 year career in the energy

sector started with 23 years at Northern Ireland Electricity, with roles in engineering, energy marketing and market development.

Peter moved to the renewable energy sector and worked as Market Development Manager for B9 Energy gasification systems and then, after a spell in the UK Government's Energy Efficiency Programme, took up the role of Business Development Manager at Balcas, one of Europe's major wood pellet producers.

Before relocating to New Zealand, Peter worked at Wood Energy where he designed and installed a wide range of wood fuelled boilers in Ireland and the UK. Peter was also heavily involved in the development of the new European wood pellets standards and the training and accreditation scheme for renewable energy installers in Ireland.

MIKE SUGGATE, East Harbour Energy Ltd



Mike is a Director of East Harbour Energy and is a mechanical engineer by training. He has more than 30-years' experience in a variety of engineering and management roles. His experience includes

project management in power station construction and mechanical contracting, and a range of management positions in energy and other companies including a period as engineering manager for BP Oil NZ Ltd.

Mike led the start up and establishment of Energy for Industry (Efi), a Meridian Energy subsidiary, as general manager. Efi supplies utility services from energy facilities fuelled on wood wastes, biomass, coal and natural and landfill gas; building, owning and operating the energy plant on customer sites and supplying heat, electricity and other services to host businesses.

Mike understands industrial scale energy technologies, the issues around fuel supply and combustion, and the practical aspects of operating such plant to ensure the reliable and efficient provision of essential and profitable outcomes for all parties.

PETER FITZGERALD, *Principal, Awakeri School, Whakatane*

Peter is the principle of Awakeri School in Whakatane. He will present, from the perspective of a heat plant user, the schools experience as it converted its coal boiler to run on wood fuel. Further details about the experience so far. Spark Energy installed the PEL boiler in Awakeri School. Further details can be found on the www.bioenergyprojects.org.nz database (search Project number 1323).

JOHN GIFFORD, BANZ



John Gifford (Principal Consultant, Gifford Consulting) has over 30 years experience with forestry and bioenergy. Major roles have included:

- Inaugural chairman of Bioenergy Association of New Zealand (2000-2004)
- NZ Team Leader for Task 32 IEA Bioenergy “Biomass Combustion and Co-firing”.
- NZ Representative, IEA Bioenergy Executive Committee
- Science Manager, Scion’s Bioenergy programme (2000-2007)
- Programme Leader, Wood Fuels Interest Group (for BANZ under contract).

John provides Consulting services related to the utilisation of woody fuels and feedstocks; wood fuel supply systems and value chains; combustion systems and co-firing; feasibility studies; environmental impacts of bioenergy projects; preparation of expert evidence for consent and Environment Court hearings; Life Cycle Assessment for bioenergy projects.

SHAUN BOWLER, EECA



Shaun leads the 'Bioenergy in Business' programme for New Zealand's Energy Efficiency and Conservation Authority (EECA). Through EECA, Shaun is also closely involved with a range of other renewable energy and energy efficiency programmes.

Since taking charge of the Bioenergy in Business programme Shaun has launched several initiatives including a greater focus on demand-side opportunities, and closer ties with both bioenergy consultants and forest owners.

Shaun worked for 12 years with KPMG Consulting and Statistics New Zealand. He maintains strong links with Scandinavia, taking time in both 2007 and 2009 to learn from leading sustainable development strategies in that country, particularly ecomunicipalities and sustainable energy strategies.

Shaun holds an MSc(Hons), 1st Class from the University of Auckland. He is a registered psychologist and serves on the board of the New Zealand Scandinavia Business Association.

List of Attendees

Arranged by Organisation

Organisation	Name
Aecom	Chris Belanger
Allan Estcourt Limited	Allan Estcourt
Aurecon	Adrian Muir
Aurecon	Tony Arnott
Awakeri School, Whakatane	Peter Fitzgerald
Azwood	Ferg Brewerton
Bekker Findlay Allan	Tom Findlay
Bioenergy Association of New Zealand (BANZ)	Brian Cox
Bioenergy Association of New Zealand (BANZ)	John Gifford
BL Rayners (1993) Ltd	Wayne Harpur
Canterbury DHB	Terry Walker
Canterbury Wood Fuel Supplies	Brad Coleman
COFELY Australia	Vaughan Furniss
Covey Consulting	Bob Allison
Design Tech Engineering	John Beavis
Dobbie Engineers	Greg Moore
East Harbour Energy	Mike Suggate
Enercon	Kees Brinkman
Energy Efficiency & Conservation Authority	John Duncan
Energy Efficiency & Conservation Authority	Rhys Holding
Energy Efficiency & Conservation Authority	Shaun Bowler
Environment Canterbury	David Bedford
Environment Canterbury	Nadeine Dommissie
EnviroSolve	Rene Haeberli
Fonterra	Tony Oosten
Fonterra	Linda Mulvihill
Fonterra	Martin O'Brien
HCL Group	Steve Cartwright
Invercargill City Council , Splash Palace	Peter Thompson
K & L Nurseries	Ian Kempthorne
Living Energy	Rob Mallinson
Living Energy	Susan Mackinnon
Living Energy	Richard Mackinnon

Minister of Energy and Resources	Hon Simon Bridges
Ministry of Business, Innovation and Employment	Anna Morris
Ministry of Primary Industries	Kani Edwards
Natures Flame	Peter Kernohan
Negawatt Resources / Natural Systems	Grant Dunford
New Zealand Home Heating Association	Prakash Sonar
New Zealand Trade & Enterprise	Cate Hlavac
Northpine Limited	Nathan Jacoby
Nu-Way Energy NZ	Mark Putnam
OTC Timber Co	Nigel Wilshier
Pioneer Energy	Grant Smith
Polytechnik Biomass Energy	Christian Jirkowsky
Polytechnik Biomass Energy	Brendon Stephenson
RCR Energy	James Malthus
RCR Energy	Hamish McBeth
Red Stag Investments	Jason Cordes
Scion	Peter Hall
Scion	George Estcourt
Shipherd Nurseries	Frans van Dorsser
Silver Fern Farms	Ray Jenkins
Spark Energy	Eduard Ebbinge
Te Puni Kokiri	Norm Carter
Tubman Heating	Gary Fleet
Turboden	Carlo Minini
Venture Southland	Cathy Jordon
Venture Southland	Stephen Canny
Waiariki Institute of Technology	Craig Morley
Waiariki Institute of Technology	John Kelly
WIT	Kevin Snowdon
Wood Energy NZ	Murray Galt

Please note that these are details received at time of going to print.

[View profiles and interests](#)

Attendee Profiles

Arranged by Organisation

Name of Attendee(s)	Allan Estcourt		
Organisation / company	Allan Estcourt Limited		
E-mail address	aelt@xtra.co.nz		
Telephone number(s)	Phone: +64 (0) 7 345 8450		Mobile: +64 (0) 27 285 3205
Please provide an outline of your activities / interests in relation to wood fuelled heat plant			
Designer of fuel handling, burners and boilers			
What are you interested in finding out at the conference?			
New developments.			

Name of Attendee	Adrian Muir		
Organisation / company	Aurecon		
E-mail address	Adrian.Muir@aurecongroup.com		
Telephone numbers	Phone:		Mobile: +64 (0) 21 610 325
Please provide an outline of your activities / interests in relation to Wood Fuel			
Consultant			
What are you interested in finding out at the Conference?			
Economics / security in wood supply			

Name of Attendee(s)	Tony Arnott		
Organisation / company	Aurecon New Zealand Ltd		
E-mail address	Tony.Arnott@aurecongroup.com		
Telephone number(s)	Phone: 07 577 5165		Mobile: 021 2124105
Please provide an outline of your activities / interests in relation to wood fuelled heat plant			
As a consulting engineering firm Aurecon is frequently involved in feasibility studies and cost estimate exercises, as well as developing specification documents and running contracts for all major types of boiler plant used in New Zealand. I personally am an Environmental/Process Engineer based in Aurecon's Tauranga office, and have a keen interest in the development of wood and other biomass fuelled heat plant in New Zealand.			
What are you interested in finding out at the conference?			
I see this conference as valuable as I am interested in building relationships with the major players in the wood supply, heat plant supply, and heat plant users (potential and existing). I am also keen to find out more about what impact EECA's policies are likely have on the industry.			

Name of Attendee	Ferg Brewerton		
Organisation / company	Azwood		
E-mail address	info@azwood.co.nz		
Telephone number(s)	Phone: +64 (0)3 547 4836		

Name of Attendee	Tom Findlay		
Organisation / company	Bekker Findlay Allan		
E-mail address	tomf@bfa.co.nz		
Telephone numbers	Phone: +64 (0) 7 377 6380		Mobile: +64 (0) 21 279 4134
Please provide an outline of your activities / interests in relation to Wood Fuel			
Business advisor for Heat plant companies.			

Name of Attendee	Wayne Harpur		
Organisation / company	BL Rayner (1993) Ltd		
E-mail address	wayne.harpur@rayners.co.nz		
Telephone numbers	Phone: +64 (0) 3 218 9552		Mobile: +64 (0) 21 356 704

Name of Attendee	Brian Cox	
Organisation / company	Bioenergy Association of New Zealand (BANZ)	
E-mail address	brian.cox@bioenergy.org.nz	
Telephone numbers	Phone: +64 (0) 4 385 3359	Mobile: +64 (0) 274 771 048
Please provide an outline of your activities / interests in relation to Wood Fuel		
<p>As Executive Officer of BANZ I have been working with a number of members and heat plant owners to improve the use of wood energy. There are a large number of heat plant owners who would like to use wood fuel instead of coal but the quality of wood fuel that they are getting delivered is so variable and far from meeting their needs that they are incurring significant additional costs to ensure performance. A number of the heat plant owners have also sought assistance on how to prepare wood fuel supply contracts as they have found it difficult to find consultants who understand the wood fuel market and can prepare appropriate contracts. We have a number of programmes to help members grow their business and for heat plant owners to scope and purchase appropriate plant.</p> <p>BANZ is a member based organisation so we welcome new members as that provides the funds that allows us to undertake projects such as this and cost effectively provide information and assistance to those wishing to be a part of and capitalise on a transition to a bio-based economy in the post petroleum era.</p>		
What are you interested in finding out at the Conference?		
Getting agreed tools and information flows so that heat plant owners and their fuel and equipment suppliers work together in an efficient market with successful outcomes..		

Name of Attendee	John Gifford	
Organisation / company	Bioenergy Association of New Zealand (BANZ)	
E-mail address	John@giffordconsulting.co.nz	
Telephone numbers	Mobile: +64 (0)21 853 659	
Please provide an outline of your activities / interests in relation to Wood Fuel		
<p>John is the Programme Leader for the Wood Fuels Group of BANZ and over the last 2 years has assisted BANZ with the preparation of the revision of the 'Wood Fuel Classification Guidelines', developing the 'Standard Methods for Specifying and Verifying Wood Fuel Quality in New Zealand' and a Technical Guide on 'Contracting to Deliver Quality Wood Fuels to Customers'. John has also developed a number of value propositions for the use of wood fuels and works closely with a range of wood fuel supply organisations on the cost and options for optimising wood fuel supply.</p> <p>As part of John's consulting business, he also undertakes work related to the feasibility and environmental assessment of bioenergy forestry and wood processing related projects.</p>		
What are you interested in finding out at the Conference?		
I am hoping that the conference will position wood fuels and wood fuelled heat plant as a mainstream option for heating across a wide spectrum of markets (home heating, commercial and industrial). Furthermore, I would like to see strong collaboration across the full wood fuel supply chain to improve the overall economics of wood fuelled heat plant and to ensure the long term availability of these fuels.		

Name of Attendee	Bob Allison	
Organisation / company	Covey Consulting	
E-mail address	enquiries@coveyconsulting.com.au	

Name of Attendee(s)	John Beavis	
Organisation / company	Design Tech Engineering	
E-mail address	designtech@xtra.co.nz	
Telephone number(s)	Phone:	Mobile: +64 (0) 21 928 445
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
<p>As the New Zealand agent for Thermal Energy International Inc. (TEI) of Canada that provide the "DRY-REX" a low temperature biomass driers, "FLU-ACE" flue gas heat recovery systems and the "GEM" steam condensate return systems.</p> <p>I am interested in the benefits of dry biomass as the boiler fuel, improving the boiler efficiencies by recovering the lost energy going up the boiler stack and decreasing steam losses in the steam distribution systems and equipment with the energy saving "GEM" steam traps.</p>		
What are you interested in finding out at the conference?		
<p>To learn more about biomass thermal energy plants and the growth biomass fuels in New Zealand.</p> <p>Increase the profile of TEI by making contact with potential customers whom are interested increasing their energy savings and reducing emissions.</p>		

Name of Attendee(s)	Greg Moore	
Organisation / company	Dobbie Engineers Ltd (Rotorua)	
E-mail address	greg@dobeng.co.nz	
Telephone number(s)	Phone: +64 (0) 7 348 5485	Mobile: +64 (0) 27 296 0214
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
As consulting engineers to a number of industrial clients we have an interest in the current energy trends and the experiences of existing wood waste users.		
What are you interested in finding out at the conference?		
To establish current trends and best practice within the industry.		

Name of Attendee	Mike Suggate	
Organisation / company	East Harbour Energy	
E-mail address	mike.suggate@eastharbour.co.nz	
Telephone number(s)	Phone: +64 (0)4 385 4398	Mobile: +64 (0)21 774 471
Please provide an outline of your activities / interests in relation to Wood Fuel		
East Harbour assists businesses to assess the benefits from the supply and use of biofuel, to select the best technology, and to implement biofuel conversion projects. Biomass use can help energy users reduce their costs and environmental impacts while offering growers and suppliers a valuable revenue stream. We are an independent advisor on energy project planning, energy strategy, and new technology introduction. Our considerable biomass-related experience includes:		
<ul style="list-style-type: none"> • Boiler, cogeneration and gasification/electricity generation technologies and projects • Wood fuel supply chain development, supply agreements and fuel contract negotiation • Wood fuel heat supply feasibility studies and business case development • Extensive analysis of wood fuel availability and costs, including national assessment and regional/site specific studies • Wood and agricultural waste to fuel feasibility assessment • Fuel cropping feasibility and fuel supply business development • Energy efficiency and biomass combustion advice. 		
Our customers include Fonterra * timber processors * Regional and District councils * Solid Wood Innovation (SWI) * Chatham Islands Electricity * energy companies such as Top Energy and Energy For Industry * Māori Trusts * Tonga Power.		
What are you interested in finding out at the Conference?		
We are interested in understanding the level of interest in the use of land to produce energy crops, and in understanding how organisations can be assisted to develop their plans and strategies in this exciting growth area.		

Name of Attendee	Kees Brinkman	
Organisation / company	Enercon	
E-mail address	kees.brinkman@linetechconsulting.com	
Telephone number(s)	Phone: +64 (0)3 384 7905	Mobile: +64 (0) 275 384 790
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Energy consultant.		
What are you interested in finding out at the conference?		
Economics and feasibility of wood fired plant and technical know-how.		

Name of Attendee	Shaun Bowler	
Organisation / company	Energy Efficiency & Conservation Authority (EECA)	
E-mail address	shaun.bowler@eeeca.govt.nz	
Telephone number(s)	Phone: +64 (0)9 374 3811	Mobile: +64 (0) 21 800 690
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Marketing development and government		
What are you interested in finding out at the conference?		
General		

Name of Attendee(s)	John Duncan	
Organisation / company	EECA	
Contact details	Email: john.duncan@eeeca.govt.nz	Phone: +64 (0) 4 495 2970
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Economic analysis of wood fuelled heat plant.		
What are you interested in finding out at the conference?		
Availability and cost of fuel wood. Technologies used for utilizing fuel wood. Make contacts in the industry.		

Name of Attendee(s)	Rhys Holding	
Organisation / company	EECA	
E-mail address	rhys.holding@eeca.govt.nz	
Telephone number(s)	Phone: +64 (0) 9 374 3804	Mobile: +64 (0) 27 722 5428
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Direct engagement to large energy users on behalf of EECA – driving energy efficiency and renewables growth		
What are you interested in finding out at the conference?		
Detail on biomass plant – new to the technology		

Name of Attendee	David Bedford	
Organisation / company	Environment Canterbury	
Contact details	Email: commissioners@ecan.govt.nz	Mobile: +64 (0) 27 423 2283
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Environment Canterbury Commissioner with responsibility for air portfolio		
What are you interested in finding out at the conference?		
Keeping up with latest technology		

Name of Attendee	Nadeine Dommissie	
Organisation / company	Environment Canterbury	
Contact details	Email: nadeine.dommissie@ecan.govt.nz	Mobile: +64 (0) 27 549 7733
E-mail address		
Telephone number	Mobile: +64 (0) 27 549 7733	
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		

Name of Attendee(s)	Rene Haeberli	
Organisation / company	EnviroSolve Ltd	
E-mail address	Rene.haeberli@xtra.co.nz	
Telephone number(s)	Phone: +64 (0) 6 385 4871	Mobile: +64 (0) 021 242 4211
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Emission Technology and energy Efficiency		
What are you interested in finding out at the conference?		
Where NZ is at with Biomass technology, Eeca opportunities for funding, network and interested people who might be interested in our technology.		

Name of Attendee(s)	Tony Oosten Linda Mulvihill Martin O'Brien	
Organisation / company	Fonterra	
Contact details	Email: Tony.Oosten@fonterra.com	Mobile: +64 (0) 27 591 3738
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Fonterra is interested in installing and using biomass fired heat plant.		
What are you interested in finding out at the conference?		
Fonterra is interested learning what issues need to be addressed for successful installation and use of biomass fired heat plant.		

Name of Attendee	Steve Cartwright	
Organisation / company	HCL Group	
E-mail address	stevec@hclgroup.co.nz	
Telephone number(s)	Phone: +64 (0)6 873 0000	Mobile: +64 (0) 21 221 5131
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Bandit Machinery supplier.		
What are you interested in finding out at the conference?		
Following the development of this industry.		

Name of Attendee	Ian Kempthorne	
Organisation / company	K & L Nurseries Ltd	
E-mail address	loadedthorn@farmside.co.nz	
Telephone number(s)	Phone: +64 (0)3 329 5466	Mobile: +64 (0) 27 336 4221
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
We are a cut flower nursery with 8000 sqm or glasshouses that we grow roses and gerbera. In 2013 we installed a 900 kw polytechnik biomass boiler and heat storage tank. We grow flowers all year round and supply florists and wholesalers in the south island and Auction houses in Christchurch and Auckland.		
What are you interested in finding out at the conference?		
How other people are using wood fuel, Outlook for fuel supply in the future		

Name of Attendee(s)	Pete Thompson	
Organisation / company	Invercargill City Council / Splash Palace	
E-mail address	Peter.thompson@icc.govt.nz	
Telephone number(s)	Phone: +64 (0)3 217 7506	Mobile: +64 (0)272 960 283

Name of Attendee	Rob Mallinson	
Organisation / company	Living Energy	
E-mail address	rob.m@livingenergy.co.nz	
Telephone numbers	Phone: +64 (0)9 377 9007	Mobile: +64 (0) 27 257 9001
Please provide an outline of your activities / interests in relation to Wood Fuel		
Promotion of wood energy – to grow the size of the pie.		
What are you interested in finding out at the Conference?		
Details regarding Government policy assistance		

Name of Attendee	Richard Mackinnon and Susan Mackinnon	
Organisation / company	Living Energy	
E-mail address	ras-mckn@xtra.co.nz	
Telephone numbers	Phone: +64 (0)6 875 0875	Mobile: +64 (0) 27 230 9639
Please provide an outline of your activities / interests in relation to Wood Fuel		
Promotion of wood energy.		
What are you interested in finding out at the Conference?		
Government assistance.		

Name of Attendee(s)	Anna Morris	
Organisation / company	Ministry of Business, Innovation & Employment	
Contact details	Email: anna.morris@mbie.govt.nz	Phone: +64 (0) 4 901 1295
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
I am representing MBIE's Energy Markets Policy team, which has responsibility for bioenergy-related government policy.		
What are you interested in finding out at the conference?		
A better understanding of the opportunities for and challenges to greater use of wood fuel in industry.		

Name of Attendee(s)	Grant Dunford	
Organisation / company	Negawatt Resources / Natural Systems	
E-mail address	Grant.Dunford@nrl.co.nz	
Telephone number(s)	Phone: +64 (0)4 939 0313	Mobile: +64 (0) 21 566676
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Negawatt / Natural Systems in association with Bio-gas Ost (Germany) undertake feasibility research, design and build bio-digester systems for farming, community and municipal waste streams. We are interested in understanding the potential symmetry of process between bio-digestation and that of woody biomass.		
What are you interested in finding out at the conference?		
The current state of technology development, the market potential and knowledge around woody bio mass- fuel conversion, bio char, any symbiotic processes and upstream / downstream supply chain issues / interests.		

Name of Attendee(s)	Prakash J Sonar	
Organisation / company	New Zealand Home Heating Association	
E-mail address	prakashs@glendimplex.co.nz	
Telephone number(s)	Phone: +64 (0) 9 271 7396	Mobile: +64 (0) 21 881 928
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Executive member of NZHHA which is industry body representing manufacturers, installers and retailers of solid fuel heaters.		
What are you interested in finding out at the conference?		
Opportunities for NZHHA to work with BANZ.		

Name of Attendee(s)	Cate Hlavac	
Organisation / company	New Zealand Trade & Enterprise	
E-mail address	cate.hlavac@nzte.govt.nz	
Telephone number(s)	Phone: +64 (0)7 577 3033	Mobile: +64 (0)275 647 217
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Renewable energy sector manager for NZTE – working with companies to develop and internationalise technology		
What are you interested in finding out at the conference?		
Current operations and future viability		

Name of Attendee(s)	Nathan Jacoby	
Organisation / company	Northpine Limited	
E-mail address	Nathan@northpine.co.nz	
Telephone number(s)	Phone: +64 (0)9 432 1155	Mobile: +64 (0) 27 442 4044
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Operate a wood fuelled boiler system at Northpine Limited, Waipu, Northland		
What are you interested in finding out at the conference?		
First time at the conference. Interested to listen and learn and contribute where I can.		

Name of Attendee(s)	Mark Putnam	
Organisation / company	Nu-Way Energy (NZ) Ltd	
E-mail address	Mark.putnam@nuwayenergy.co.nz	
Telephone number(s)	Phone: +64 (0)9 274 5111	Mobile: +64 (0) 21 468 929
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Supplier of Wood Fuel boilers from 100-12 000 kW		
What are you interested in finding out at the conference?		
Networking and further innovations, how the industry is progressing		

Name of Attendee(s)	Nigel Wilshier	
Organisation / company	OTC Timber Co	
Telephone number(s)	Email: nigel@otctimber.co.nz	Mobile: +64 (0) 27 661 4717
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Considering utilizing wood residues to generate fuel – pallets or briquettes		
What are you interested in finding out at the conference?		
Market opportunities and the economics of the NZ market for wood fuel.		

Name of Attendee(s)	Brendon Stephenson	
Organisation / company	Polytechnik Biomass Energy / EPS	
E-mail address	brendon@energyplantsolutions.co.nz	
Telephone number(s)	Phone: +64 (0) 6 326 9444	Mobile: +64 (0) 21 446 698
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Energy plant supply and install. Partner to Polytechnik Biomass Energy.		
What are you interested in finding out at the conference?		
Assisting Polytechnik with enquiries.		

Name of Attendee	Hamish McBeth	
Organisation / company	RCR Energy	
E-mail address	hamish.mcbeth@rcrtom.com.au	
Telephone number(s)	Phone: +64 6 872 7600	Mobile: +64 21 321 840
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
We at RCR Energy have a long history of providing wood fired energy plant to New Zealand and Australian industrial sites. Along with our technology partners Babcock & Wilcox USA, Detroit Stoker Company USA and INTEC Engineering in Germany we offer a range of biomass fired solutions to suit many types of fuels for steam, hot water, hot gas generation and thermal oil heating.		
What are you interested in finding out at the conference?		
Having lived in Germany for the last two years, I am interested in catching up on the developments of biomass energy production in New Zealand and Australia, and learning more about any government initiatives to support investment in renewable energy plant.		

Name of Attendee	James Malthus, Proposal & Sales Engineer (Sponsor)	
Organisation / company	RCR Energy	
E-mail address	james.malthus@rcrtom.com.au	
Telephone number(s)	Phone: +64 (0) 6 872 7634	Mobile: +64 (0) 27 886 0500
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
RCR Energy provides turnkey solutions for utility, power and industrial energy projects throughout the world. We offer a range of boiler and combustion system designs to suit differing fuels and applications.		
What are you interested in finding out at the conference?		
We are presenting a topic on "Scalability and Applicability of Industrial Scale Heat Plant" and looking to assist participating companies with any future heat plant requirements.		

Name of Attendee	Jason Cordes	
Organisation / company	Red Stag Investments	
E-mail address	jason@redstag.co.nz	
Telephone number(s)	Phone: +64 (0)7 349 5999	Mobile: +64 (0) 27 500 6250

Name of Attendee	Peter Hall	
Organisation / company	Scion	
E-mail address	Peter.Hall@scionresearch.com	
Telephone number(s)	Phone: +64 (0) 7 343 5849	Mobile: +64 (0)27 777 8639
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Research		

Name of Attendee	George Estcourt	
Organisation / company	Scion	
E-mail address	George.Estcourt@scionresearch.com	
Telephone number(s)	Phone: +64 (0) 7 343 5412	Mobile: +64 (0) 27 533 8312
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
An engineer with a passion for renewable fuels and processes to improve their uptake. Currently working on torrefaction, bio oil upgrading, wet air oxidation, hydrogenation, fermentation, briquetting and pelleting.		
What are you interested in finding out at the conference?		
Always keen to hear about success stories in the uptake of biomass as a fuel source.		

Name of Attendee	Frans van Dorsser	
Organisation / company	Shiphherd Nurseries	
E-mail address	frans@shiphherdnurseries.co.nz	
Telephone number(s)	Phone: +64 (0)9 238 3562	Mobile: +64 (0) 21 621 603
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
We are a cut flower nursery and currently heat using a coal boiler.		
What are you interested in finding out at the conference?		
Possibilities and advantages of wood burning		

Name of Attendee(s)	Ray Jenkins	
Organisation / company	Silver Fern Farms	
E-mail address	ray.jenkins@silverfernfarms.co.nz	
Telephone number(s)	Phone: +64 (0)6 872 6675	Mobile: +64 (0) 27 544 1658
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Engineering manager for North Island Meat processor. We are considering the conversion of some coal fired plant to wood pellets.		
What are you interested in finding out at the conference?		
Practicalities, performance comparison, environmental controls re exhaust emission issues.		

Name of Attendee	Eduard Ebbinge	
Organisation / company	Spark Energy	
E-mail address	eduard@sparkenergy.co.nz	
Telephone numbers	Phone: +64 (0) 3 428 2992	Mobile: +64 (0) 21 766 110
Please provide an outline of your activities / interests in relation to Wood Fuel		
Spark Energy (www.sparkenergy.co.nz) offers wood heating, wood processing and wood fuel handling solutions for forward-thinking businesses and institutions New Zealand-wide. Design-build wood heating solutions and in-house wood fuel supply and after-sales servicing capability are at the core of its capability profile. Importantly, we pride ourselves on making the transition to woody enlightenment as smooth as possible. And fully understand that customers want results and accountability, so have a team of staff and delivery partners that are genuinely concerned about making a difference. Day-to-day ease of operation, a responsive support team and making that attractive payback a reality for our clients are central axioms to your success and our business.		

Name of Attendee(s)	Norm Carter	
Organisation / company	Te Puni Kokiri	
E-mail address	cartn@tpk.govt.nz	
Telephone number(s)	Phone: +64 (0) 7 349 7805	Mobile: +64 (0) 27 280 9452
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Efficient use of wood fired burners for domestic and commercial applications.		
What are you interested in finding out at the conference?		
General information		

Name of Attendee(s)	Gary Fleet	
Organisation / company	Tubman Heating Ltd	
E-mail address	gary@tubman.co.nz	
Telephone number(s)	Phone: +64 (0) 9 444 5076	Mobile: +64 (0) 21 349 779
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
General Manager Tubman Heating. Advise client on practicality of changing to wood waste. Commissioning of plant Complete solutions.		
What are you interested in finding out at the conference?		
Changes to equipment		

Name of Attendee(s)	Carlo Minini	
Organisation / company	Turboden MHI	
Contact details	Email: carlo.minini@turboden.com	Mobile: +61.488584955
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Turboden is world-leader in the design and construction of ORC turbogenerators coupled to wood fuelled heat plants		
What are you interested in finding out at the conference?		
Interesting opportunities involving power generation, cogeneration, trigeneration		

Name of Attendee(s)	Stephen Canny Cathy Jordon	
Organisation / company	Venture Southland	
E-mail address	steve@venturesouthland.co.nz cathy@venturesouthland.co.nz	
Telephone number(s)	Phone: +64 (0) 3 2111 400	Mobile: +64 (0) 274 680 530
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Venture Southland is actively involved in the development of energy based initiatives in the Southland region The Southland Regional Energy Strategy was completed in November 2003 and updated in 2011; it identifies key opportunities and priorities based on the Southland Regional Energy Assessment. Significant work has been undertaken to establish the wood energy demand in the region and now Venture Southland is implementing methods to address barriers to thermal switching.		
What are you interested in finding out at the conference?		
Venture Southland is interested in finding out more about successful fuel switching.		

Name of Attendee(s)	Craig Morley John Kelly	
Organisation / company	Waiariki Institute of Technology	
E-mail address	Craig.morley@waiariki.ac.nz	
Telephone number(s)	Phone: +64 (0) 7 346 8787	Mobile: +64 (0) 21 047 6117
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Resource Management Lecturer		
What are you interested in finding out at the conference?		
Who is doing what in our region?		

Name of Attendee(s)	Kevin Snowdon	
Organisation / company	WIT	
Contact details	Email: kevin@witbio.co.nz	Mobile: +64 (0)27 494 9231
What are you interested in finding out at the conference?		
An overview of the wood fuel heat plant operation, market and contribution of clean energy sector		

Name of Attendee(s)	Murray Galt	
Organisation / company	Wood Energy New Zealand (WENZ)	
E-mail address	Murray.galt@pgl.co.nz	
Telephone number(s)	Mobile: +64 (0)21 220 5883	
Please provide an outline of your activities / interests in relation to wood fuelled heat plant		
Actively involved in the supply chain.		
What are you interested in finding out at the conference?		
Pick up ideas on how to do things better.		

We welcome your involvement in this conference.