

## 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 plant 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 Ltd)



## 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.

#### Additional Details

A trade display show casing the wide range of equipment available in New Zealand will run in the foyer of the venue throughout the day.

The **BANZ AGM will be held at 5:00pm** followed by a Networking Meeting over a **casual dinner from 7:00pm** on the evening before the Conference in the bar of the Distinction Hotel for any attendees arriving the night before the conference.

Note that conference accommodation rates are available at the Distinction Hotel by using the accommodation booking form on the UseWoodFuel NZ website <http://www.usewoodfuel.org.nz/>