



# Bioenergy Association of New Zealand

## Heating with Wood Chip

6-7 May 2010

Location : Dunedin & Otago

### A showcase study tour of modern wood chip boiler installations and their supply chains

***“Talk to the wood heat users, meet the fuel suppliers, see the boilers in action”***

The focus for this event is on the increasing supply and use by schools, hospitals, other commercial buildings and manufacturing operations of wood chip and wood pellet boilers. Those using wood outside the industry along with those supplying the woody biomass and the boilers will be involved in showing you that wood fuel is now a main stream heating source.

This 2 day show case tour is designed to provide anyone who is considering installing a new boiler with an in-depth appreciation of the operation of modern wood chip boilers and their ease of use. Six different types of European wood chip boilers will be visited, covering the entire range that are available in New Zealand. Some pellet boilers will also be visited. The wood chip boilers are providing space heating, domestic hot water and process heat to schools, a university, a hostel and a winery. The tour will start in Dunedin for the first day and end in Queenstown on the second day.

The Otago region is host to a number of wood chip fuelled heat plant that have been installed in the last few years and this tour will show case them to you. The workshop will also examine the issues surrounding the supply of quality wood chip for use as fuel. A visit will be made to a site that makes a range of wood fuel types, including top-quality wood chip for this type of boiler. We will also observe a harvesting operation to give an appreciation of the operational challenges of recovering and converting the harvesting residues to an appropriate quality wood chip.

The tour will be supplemented by technical sessions on Wood Fuel Classification Guidelines, the benefits of reduced air emission from use of wood fuel, and guidelines on obtaining council consents.

The tour will also be of interest to council staff processing applications for resource consent to see how well these plant operate and the very low level of emissions to air that is achievable.

All modern wood chip heat plant suppliers will be represented as will other equipment suppliers and consultants. The tour will demonstrate the examples, the expertise and the capabilities of the NZ heat plant sector to assist others wishing to put in similar plant to meet their heat energy needs.

***Who Should Attend ? - Anyone who is considering installing new heat plant fuelled by wood fuel for schools, council facilities, manufacturers, hostels, hotels and hospitals. The tour will demonstrate what others have done and you will be able to discuss the various plant, their performance, and heating capabilities directly with the people involved. The tour will also be of interest to fuel suppliers, government advisers, consultants or Council consent authorities who want to see modern wood fuel heat plant in action. (Note that there will be a limit on a maximum of 80 attendees to this show tour as many of the sites have limited safe visitor area.)***

The Show Case Tour has been made possible by support from EECA

**Bioenergy Association of New Zealand (BANZ)  
Wood Fuel Interest Group**

**HEATING WITH WOOD CHIP**

**A showcase study tour of modern wood chip boiler installations and their supply chains**

**Date : 6-7 May 2010 Location : Otago Polytechnic Dunedin and Central Otago**

**DAY 1 – Thursday 6<sup>th</sup> May**

**Workshop Presentations – Otago Polytechnic - Block S – Otago Institute of Sport and Adventure - corner of Union Street East and Harbour Terrace, Dunedin**

<b>8.30 am</b>	<b>Registration</b>
9.00–9.05	<b>Conference Opening</b> Brian Cox, BANZ Executive Officer
9.05–9.20	<b>Where does wood chip fit into NZ's Energy Mix</b> Amber Uren, EECA
9.20 – 9.35	<b>National Wood Fuel Standards and Wood Fuel Trading</b> Brian Cox, BANZ Executive Officer
9.35-9.50	<b>What learnings can we take from the European wood chip experience?</b> David Reid, Energy for Industry
9.50–10.05	<b>Air quality status and consenting boilers in the Otago Region</b> John Threlfall, Otago Regional Council
10.05-10.35	<b>Morning Tea / Networking</b>
10.35–10.45	<b>Small commercial boiler applications</b> Sean Fogarty, Fogarty Industries
10.45-11.00	<b>Wood Chip for Energy – A Consultants Perspective</b> Brian Anderson of Powell Fenwick Consulting
11.00 -11.15	<b>Case Study of two different wood chip grate types installed in Alexandra</b> Rob Mallinson, Living Energy
11.15-11.30	<b>Things to consider with regard to operating and maintaining your boiler</b> Hillie Pijpker, RCR Energy Services
11.30-11.45	<b>Wood Chip and pellets for Energy – A Users Perspective</b> Hans Pietsch – Energy Manager, Otago University
11.45-12.00	<b>Establishing a wood fuel supply chain in Christchurch</b> Matthew Spooner, Energy for Industry
12.00-12.15	<b>Wood energy contracting options</b> Eduard Ebbinge, Spark Energy
12.15-1.00	<b>Lunch / Networking (Otago Polytechnic canteen)</b>
<b>Tour of Wood Chip and Pellet Boilers in Dunedin (depart Otago Polytechnic canteen)</b>	
1.00-1.45	<b>Tour of Hargassner wood chip and pellet boilers and HDG Pellet boiler</b> <b>Otago University</b> Host: Hans Pietsch – Energy Manager, Otago University
1.45-2.15	<b>Bus to City Forest Operation</b>

2.15 - 2.45	<b>View City Forests harvesting operations – A source of wood chip</b> Host: Kent Chalmers, City Forests (Flagstaff Hill area)
2.45- 3.00	<i>Bus to AgResearch at Invermay</i>
3.00 - 3.45	<b>Tour of AgResearch at Invermay – Taymac wood pellet boilers</b> Host: Steve Howman, Taymac
3.45 - 4.15	<i>Bus to Tahuna Normal Intermediate School</i>
4.15 – 5.00	<b>Tour of 400kW KÖB wood chip boiler</b> <b>Tahuna Normal Intermediate School, Dunedin</b> Host: Eduard Ebbinge – Spark Energy (Heat user: Brett Guildford)
5.00 - 5.30	<i>Bus to Ross Home Dunedin</i>
5.30 - 6.00	<b>Tour of 300kW KÖB Pyrot wood chip boiler project - Ross Home, Dunedin</b> Host: Eduard Ebbinge, Spark Energy
6.00 – 7.00	<b>Drinks and Networking</b>
7.00pm	<b>Workshop Dinner Southern Cross Hotel, Dunedin</b>

<b>DAY 2 – Friday 7 May</b>	
<b>Tour of Wood Fuel Operations</b>	
7.00-9.00	<i>Travel to Naseby from Dunedin</i>
9.00-9.45	<b>From Forest to Fuel – A tour of Ernslaw Bioenergy’s wood fuel operation (wood chips, pellets and mobile boiler)</b> Host: Murray Cowan – Ernslaw Bioenergy
9.45-10.15	<b>Morning Tea / Networking</b> <b>Sponsored by Ernslaw Bioenergy</b>
<b>Tour of Otago Wood Chip Boilers</b>	
10.15-11.30	<i>Travel to Alexandra</i>
11.30 -12.00	<b>Tour of 650kW under-fed Binder wood chip boiler</b> <b>Dunstan High School, Alexandra</b> Host: Rob Mallinson – Living Energy
12.00-12.30pm	<b>Lunch Break (Light lunch provided at the Dunstan Hostel)</b> <b>Sponsored by Living Energy</b>
12.30 – 1.15	<b>Tour of 250kW reciprocating grate Binder wood chip boiler</b> <b>Dunstan Hostel, Alexandra</b> Host: Rob Mallinson – Living Energy
1.15-1.45	<i>Travel to Cromwell</i>
1.45-2.30	<b>Tour of 100kW under-fed Heizomat wood chip boiler</b> <b>Mount Difficulty Winery, Cromwell</b> Murray Cowan – Ernslaw Bioenergy
2.30-3.30	<i>Travel to Queenstown airport</i>

## Event Sponsors

BANZ would like to thank the following event sponsors:

Energy for Industry – dinner sponsor



Ernslaw Bio-Energy – morning tea (Friday)



Living Energy – Lunch (Friday)



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