



# Bioenergy Association of New Zealand

## Heating with Wood Chip

6<sup>th</sup> -7<sup>th</sup> May 2010

Location : Otago & Dunedin

### 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”***

This 2 day show case tour is designed to provide the attendee with an in-depth appreciation of the operation of modern wood chip boilers and their ease of use. Over the 2 days 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 to allow comparisons. The wood chip boilers are providing space heating, domestic hot water and process heat to schools, a university, a hostel and a winery. The study tour will start in Dunedin for the first day and end in Queenstown at the end of 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 potential other investors. 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 not be able to visit all examples of plant recently installed and those will be covered by presentations on the first day.

All modern wood chip heat plant suppliers will be represented as will other equipment suppliers and consultants. The tour will show case 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 chip. The show case tour will show you what others have done and you will be able to discuss the various plant, their performance, and heating capabilities. The tour will also be of interest to fuel suppliers, government advisers, consultants or consent authorities who want to see modern wood chip 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 areas.***

This event has been made possible with financial support from EECA/MAF (tbc)

**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 : Dunedin/ Central Otago**

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

**Wood Chip Standards etc [At Otago University](#)**

<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> Shaun Bowler / Murray Bell, 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>Establishing a wood fuel supply chain in Christchurch</b> Matthew Spooner, Energy for Industry
9.50–10.05	<b>Air quality status and consenting boilers in the Otago Region</b> John Threlfall and Selva Selvarajah, 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> Jason Pickering, RCR Energy Service
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>What learnings can we take from the European wood chip experience?</b> David Reid, 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 Uni canteen ?)</b>

**Tour of Wood Chip and Pellet Boilers in Dunedin**

1.00-2.00	<b>Tour of Hargassner wood chip and pellet boilers and HDG Pellet boiler</b> <b>Otago University</b> Hans Pietsch – Energy Manager, Otago University
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2.00-2.30	<i>Bus to Tahuna High School</i>
2.30-2.45	<b>Tour of 400kW Kob wood chip boiler Tahuna High School, Dunedin (tbc)</b> Eduard Ebbinge – Spark Energy (Heat user: Brett Guildford)
2.45-3.30	<i>Bus to AgResearch at Invermay</i>
3.30-4.15	<b>Tour of AgResearch at Invermay – Taymac wood pellet boilers</b> Steve Howman, Taymac
4.15-4.30	<i>Bus to City Forests</i>
<b>Tour of Wood Chip Supply Operations</b>	
4.30-5.15	<b>View City Forests harvesting operations – A source of wood chip</b> Host: Kent Chalmers, City Forests
5.15-5.30	<i>Travel to Dunedin</i>
5.30-6.00	<b>Tour of 300kW KÖB Pyrot wood chip boiler project - Ross Home, Dunedin</b> Eduard Ebbinge, Spark Energy
6.00 – 7.30	<b>Drinks and Networking</b>
7.30pm	<b>Workshop Dinner (Speaker tba)</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> Murray Cowan – Ernslaw Bioenergy
9.45-10.15	<b>Morning Tea / Networking</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 Dunstan High School, Alexandra</b> Rob Mallinson – Living Energy
12.00-12.30pm	Lunch Break (Light lunch provided)
12.30 – 1.15	<b>Tour of 250kW reciprocating grate Binder wood chip boiler Dunstan Hostel, Alexandra</b> 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 Mount Difficulty Winery, Cromwell</b> Murray Cowan – Ernslaw Bioenergy
2.30-3.30	<i>Travel to Queenstown airport</i>