



THE UNIVERSITY OF
WAIKATO
Te Whare Wānanga o Waikato

Bioenergy Association of NZ (BANZ)

NIWA

&

The University of Waikato

Conference

10 July 2008

**PWC Lecture Theatre
Waikato University Campus
Hillcrest Road, Hamilton**

“Biogas 2008 – production, use and realizing the NZ potential”

(Note - the BANZ AGM will be held on 9th July 2008 in the evening – further details to come)

The Bioenergy Association, NIWA and the University of Waikato invite you to a one day conference on the production, use and future potential of biogas as a renewable and versatile energy resource for New Zealand.

Recent government policy and public awareness support an increased share of New Zealand's electricity generation and transport fuel to be derived from renewable and environmentally sustainable sources. While this has already led to greater investment and use of some renewable energy sources, New Zealand has few biogas installations and the full potential of biogas technology has yet to be realised.

Biogas use has long been economic in niche situations, but the increasing cost of conventional energy sources as well as the introduction of carbon trading is now changing the economics in favour of biogas in many more areas. New Zealand has a large resource base for biogas production, state of the art biogas R&D and a wealth of biogas service & equipment suppliers. New Zealand's leading biogas researchers, consultants, planners and equipment suppliers will present the current state and future developments of biogas technology.

This conference is aimed at broadening our horizons regarding the use of the currently underutilised biogas potential to provide an alternative energy source and improve the economic viability and sustainability of businesses, especially in the agricultural and food processing sectors.

The University of Waikato / NIWA / Bioenergy Association (NZ)
BIOGAS 2008 Conference
10 July 2008

8.30 am	Registration
9.00 am	Conference Opening Brian Cox, BANZ
9.10 am	An overview of New Zealand's biogas potential Jürgen Thiele, Waste Solutions Ltd.

BIOGAS ON FARMS

9.25 am	A biogas system for New Zealand dairy farms Experience in Canterbury Ian Bywater, Natural Systems Ltd.
9.45 am	Biogas from covered anaerobic ponds Retrofits on pig and dairy farms Rupert Craggs, NIWA
10.05 am	Waste grass co-substrate for farm digesters Mark Loeffering, Agresearch
10.25 am	Mixed crop rotations for food and energy production Rocky Renquist, Crop & Food Research
10.45 am	Morning Tea

INDUSTRIAL SCALE BIOGAS PLANTS

11.15 am	Biogas from food processing wastes Examples in Sydney and New Zealand potential Jürgen Thiele, Waste Solutions Ltd.
11.40.am	Biogas from wastewater biosolids The merits of thermophilic digestion Humphrey Archer, BECA
12.05.am	Biogas from industrial wastewater Overseas Examples Bernice Chapman, Waste Solutions Ltd.
12.30	Lunch

USING BIOGAS	
1.30 pm	Developments in biogas electricity generation Mike Jayne, Entec Services Ltd.
1.55 pm	Operating biogas generators The Mangere experience Brian Clarke, Watercare
2.15 pm	Distributed electricity generation Economics and policy Frank Scrimgeour, The University of Waikato
2.35 pm	Biogas as transport fuel Experience in Spain and Sweden Sean Molloy, Flotech Ltd.
3.00 pm	Heavy vehicle gas conversions Andrew Thorp, Cenaught Ltd.
3.20 pm	Afternoon Tea
3.50 pm	What is holding back biogas in New Zealand? Barriers and support mechanisms Stephan Heubeck, NIWA
4.10 pm	Panel discussion All speakers discuss questions from the audience Facilitator: Brian Cox
5.00	Workshop Close

Networking