



Biogas Workshop



Bioenergy Association of New Zealand Energy Management Association of New Zealand

13th May 2010
Rydges Hotel, Christchurch

‘Biogas from Municipal Organic Waste’

In most countries, the utilisation of biogas has steadily grown and is now making a significant contribution to the reduction of greenhouse gas emissions and the increase of energy production from renewable sources.

This is similar in New Zealand, which has considerable opportunities for growing the industry considering the large amount of organic matter produced in this country.

During the past 30 years, local councils have been the main driving forces of the biogas industry. The capture and combustion of biogas from municipal organic waste is currently generating about 40 MW of electricity and has the added benefit of mitigating 1.5 million tonnes of CO₂-equivalent or 3% of New Zealand’s greenhouse gas emissions.

The workshop is aimed at territorial councils, companies, contractors and consultants working with community generated waste and has the following objectives:

- to update delegates on recent developments;
- to network and share experience;
- to identify opportunities for enhancing community based biogas utilisation.

This workshop will showcase innovative technologies applied in New Zealand and will cover the following topics:

- co-generation and cooling from municipal waste;
- co-digestion in Palmerston North;
- landfill gas utilisation in Hamilton;
- the “Christchurch Model” for biogas utilisation;
- the hydro-pulper process;
- opportunities for digestate (biosolids) utilisation
- improved landfill gas recovery.

The discussion session will be an opportunity to share views and experience on the utilisation of biogas. The new biogas facilities in Christchurch will be visited on the way to the airport.

We also welcome Martin Smith of Clarke Energy, Australia, as one of our speakers.

**Bioenergy Association of New Zealand
Energy Management Association of New Zealand
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13th May 2010,
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8.00 am	Registration
8.30 am	Conference Opening Brian Cox, BANZ Executive Officer

The Opportunities for Biogas Production from Urban Waste

8.40 am	Industry Overview Guenter Wabnitz, AECOM (and BANZ Biogas Interest Group Convener)
9.10 am	Efficient generation of electricity, heat and cooling from municipal waste Bob Weston, Entec
9.40 am	Palmerston North regional sludge digester Jurgen Thiele, CPG
10.10 am	Biogas experiences from municipal waste sources in Australia Martin Smith, Clarke Energy
10.40 am	Morning Tea

Recent Developments

11.00 am	The Christchurch Wastewater Treatment Plant and the Burwood Landfill Leonid Itskovich, Energy Manager, Christchurch City Council
11.30 am	The hydropulper digester process (Paramatta/Sydney) Nathan Clarke, CPG
12.00 pm	tbc tbc
12.30 pm	Lunch (sponsored by Entec)

Enhancing the Economics

1.15 pm	Digestate or Biosolids Utilisation Humphrey Archer, Beca
1.45 pm	Hot Topics in Landfill Gas Recovery Mark Milkie, Canterbury University

2.15 pm	Panel Discussion Biogas Production and Utilisation
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2.45 pm	Afternoon Tea and depart for field trip
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Field trip	
3.00 pm	Travel to Christchurch Wastewater Treatment Plant at Bromley
3.15 pm	<p>Christchurch Wastewater Treatment Plant Franz Resl, Christchurch City Council</p> <p>CCC, NIWA, and Solray Energy Algae to Oil Demonstration Project Chris Bathurst, Solvent Rescue</p>
4.30 pm	Travel to Burwood Landfill
4.45 pm	<p>Visit Burwood Landfill Gas Plant (collection and treatment), Iain Sutherland, Beca</p>
5.30 pm	Workshop Close (bus will return to Rydges Hotel via the airport)

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