

Opportunities for utilising municipal organic waste to reduce energy costs

2pm (NZ Time), 12noon (AEST), 10am (AWST), 11.30am (ACST)
Wednesday 2 May 2018

With minor modification municipal waste water treatment facilities can reduce waste to landfill and greenhouse gas emissions

A review of the opportunities for modifying existing waste water treatment facilities to take greater volumes of trade waste shows that there are a number of facilities which can be modified before 2030 and make a big dent in the amount of trade waste going to landfill. The free rider is the amount of methane emissions that can be avoided as a greenhouse gas. It is assess that over xxxkt CO₂-e of emissions could be avoided by 2030, and over yykt CO₂-e of emissions by 2050.

The review of opportunities provides an indication of the facility modifications which would be easy to do and those where it would be more difficult, or would never be done.

The key driver for the modifications to existing plant is the reduced investment in new plant that would otherwise have to be made and the reduction in operating cost because of on-site electricity generation from the biogas.

Attendees of this webinar will gain an understanding of:

- the opportunities for modifying existing waste water treatment facilities to be able to accept greater volumes of trade waste;
- the extent of reduction of investment and operating costs achievable;
- the reduction in methane emissions as a greenhouse gas contributor;
- the likely economics of this type of initiative and the amount of international carbon credits which would not have to be purchased with no benefit to the NZ economy.

NOTE that a webinar on the 18th April will address the opportunities of producing energy and fertiliser from food waste at industrial facilities. These two webinars will be presented as a package.

Jürgen Thiele, Business Unit
Leader - Waste Recovery,
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Jürgen completed his PhD in Microbial Biotechnology in 1982 in Germany.

Since then he has led anaerobic digestion research & process design teams in the United States (Michigan Biotechnology Institute), Germany and New Zealand (University of Otago and CPG New Zealand).

Jurgen now works for Calibre Consulting and in recent years has had a close involvement in the design and implementation of regional Waste to Energy facilities in New Zealand, Australia and Asia including the Camellia biomass project in Paramatta, the commissioning of the new thermophilic digesters at the Christchurch WWTP and the Palmerston North sludge digester plant upgrade to digestion of fatty waste.

Booking a Place at the Webinar

- **Bookings:** - Bookings are essential in order to connect to the GoToMeeting system. Please book your place at this event using <https://attendee.gotowebinar.com/register/3911515204472602627> or email admin@bioenergy.org.nz to be sent the link.
- **Continuing Professional Development:** - The Bioenergy Association supports members by providing opportunities such as this webinar that contribute towards Continuing Professional Development and maintaining registration as a biogas adviser. Contact the Executive Officer for more details at executive@bioenergy.org.nz

Attendance at this webinar is **FREE** courtesy of EECA Business.