



BANZ Webinar Sessions 2011-12

BANZ would like to welcome you to its inaugural Bioenergy Webinar series. The topic for this first seminar is biogas, with a focus on large scale biogas production.

Title and synopsis

Large scale biogas production in liquid biofuel related industries in Asia, Australia and Europe

The waste to energy group of CPG NZ Ltd (formerly Waste Solutions) pioneered in the 1990ies the value engineering of industrial and agricultural anaerobic digesters by introducing the novel high rate **Covered In Ground Reactor (CIGAR)** digester system. These CIGAR systems match existing tank based digester systems in performance and biogas yield but at approx. 1/3rd of the construction and operating costs for the comparable scale. Payback periods for the complete CIGAR digester plant of less than 2 years are a typical financial performance result.

The first system was commissioned in 2003 and since then more than 30 full scale systems have been designed/installed in SE Asia and South America providing every day more than 5 million kwh biogas used for combined power and heat generation in agroindustrial processing and biorefinery applications.

25 % of these CIGAR projects are in biofuel/biorefinery related applications in SE Asia, Australia and the UK treating vinasse from bioethanol distilleries, sugar beet pulp and palm oil mill effluent. These NZ designed digester applications in the liquid biofuel industry play an important role in improving the carbon footprint, biofuel energy efficiency and energy output/input ratio for biofuel production.

Two application case studies and underlying working principles are presented and the future role of large scale/ low cost anaerobic digestion systems for the biofuels industry are discussed in the presentation.

Time and Date

2.00pm, 15th December 2011

Speaker

Jürgen Thiele, CPG - 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). In recent years Jürgen 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.

Company Profile



CPG is a multi-disciplinary consulting business delivering a broad range of integrated services across key market sectors worldwide. Our services range from scoping and feasibility studies to the design, implementation and management of award winning projects.

Our global teams of over 3,400 people bring a critical depth of knowledge, experience and energy to delivering CPG's commitment to turn knowledge into value for our clients. CPG's integrated approach to service delivery enables our teams to deliver optimal, sustainable solutions for public and private sector projects of any size and scope.

Throughout our 150 year history we have consistently delivered positive impacts within the social and natural environments within which we operate. Today we continue our commitment to social and environmental sustainability, and to achieving a zero harm environment.

Registration Fee and Bookings

No Charge

Please contact Connie.crookshanks@bioenergy.org.nz to book a place at this event – please note – bookings are essential in order to be able to access the presentation via Webinar.