

***“Celebrating Biofuels Today, Ensuring Biofuels Tomorrow” –
12 August 2011, Te Papa, Wellington
- A Bioflash Special from BANZ***

The Bioenergy Association of New Zealand (BANZ) supported by the Energy Efficiency and Conservation Authority is delighted to welcome you to this year's Liquid Biofuels conference and to introduce the event's key speakers - biofuels users and producers - who are presenting at the event. The presenters are available for interview prior to the conference and at the conference itself. If you would like to arrange an interview please contact the speaker's directly to discuss an appropriate time or through the conference organisers. Details of speakers and their interests in biofuels are provided below.

Conference Programme - The programme (attached to this e-mail) sets out both a celebration of what the biofuels industry in NZ has achieved to date, highlights the successful experiences of current users and trials and looks to the future by setting out future demand particularly from the aviation sector, and demonstrates technologies that are entering the commercial phase of development and will ensure that advanced biofuels from our immense availability of waste organic matter, forest residues and new forest plantings will allow us to meet transport fuel demand. A registration form is also attached if you would like to attend.

Leading NZ Biofuels Producers - NZ has a number of biodiesel producers and one bioethanol producer. The leading producer of biodiesel is Biodiesel New Zealand. The bioethanol producer is Anchor Ethanol. Both are key note speakers at this year's event:

Biodiesel New Zealand - As the leading supplier of biodiesel, Biodiesel New Zealand produces several million litres per annum of high-quality biodiesel from premium used cooking oil and canola (oilseed rape). BNZ biodiesel is manufactured and distributed according to a stringent set of requirements and is branded as Biogold™.

Anchor Ethanol - Anchor Ethanol Limited produces world-class potable alcohol and industrial ethanol. Ethanol produced at Anchor Ethanol Ltd is primarily from whey resulting from the production of casein, caseinates and TMP. The lactose (milk sugar) in the whey is fermented by lactose specific yeast, which metabolizes the lactose to produce ethanol.

These producers lead the way ensuring the growth year on year of New Zealand's biofuels production capacity. Hear them at this year's event as they celebrate the growth of the sector.

Leading NZ Users of Biofuel Today - The following speakers will provide a brief insight at the conference into why they changed to biodiesel and what their experiences have been.

Successful use of biodiesel at Ocean Fisheries - Andrew Stark, Ocean Fisheries - A suggestion to trial biodiesel on one of Ocean Fisheries' trawlers has seen the Lyttelton firm so convinced by the benefits of the fuel it has progressively changed all its vessels to run on biodiesel blends - including its delivery trucks – and commission a \$2 million dollar trawler that runs exclusively on biodiesel.

AOne Movers – Why biodiesel works for our trucks - Tony Milham, AOne Movers - Soaring fuel prices saw this Auckland freight forwarding company investigate other options – and found that biodiesel was a perfect fit, both with the company’s strategic direction and the owners’ personal ideals.

Explore NZ - Winning customers on the water with really green credentials - William Goodfellow, Explore NZ - As a leader of expeditions to wildlife and scenic attractions, this award-winning tourism business has a strong environmental focus. A move to biodiesel has brought its operation in closer alignment with that focus, and fulfilled its aim to lead the industry in a more environmentally friendly direction, by encouraging other operators to make the switch to biodiesel.

Allied Petroleum – Offering customer choice means biofuels too - Brett Haldane, Allied Petroleum. Allied Petroleum is a privately owned national business that forms part of the Southland based H W Richardson Group. The core business is the delivery of bulk fuels to commercial customers into on site bulk storage facilities. Allied Petroleum’s slogan is ‘never run out’, which conveys a strong message about the importance of customer productivity. In early 2010 Biogold NZ20 (a 20% biodiesel and 80% mineral diesel blend) was added to the product offering, because of an interest in offering customers the option of a greener diesel. We have a distribution agreement with Biodiesel New Zealand, and feel it’s a great partnership in technical production expertise and delivery service. AP presently sells biodiesel in a number of South Island markets and in April completed a year’s supply to the Queenstown Lakes Biodiesel Consortium.

See for yourself who is using biofuels in New Zealand today – see the attached Biofuels Case Studies

These speakers lead the way in the use of biodiesel in tourism sector, in fishing, in haulage and in fuel supply in New Zealand today – as leading users of biofuels, they demonstrate the growing role that biofuel has already as a mainstream transport fuel in New Zealand.

The demand for future Biofuels

Virgin Australia – Sustainable aviation biofuel represents a significant opportunity for airlines to mitigate their climate change impacts. For this reason VA have continued to lead industry efforts towards establishing a sustainable aviation biofuel industry in Australia through its role as a founder of the Australian chapter of the Sustainable Aviation Fuel Users Group (ASAFUG) and working with industry and government stakeholders on mechanisms to encourage commercialisation. The group commissioned the CSIRO to develop a Sustainable Aviation Fuel Road Map study (see CSIRO links below) to identify pathways to the commercialisation of a sustainable aviation biofuel industry in Australia and New Zealand. The Roadmap was launched in May 2011 and found that by 2020 a 5 per cent bio-derived jet fuel share could be possible in Australia and New Zealand, expanding to 40 per cent by 2050.

Virgin are actively seeking to partner with biofuel companies to encourage the commercialisation of individual projects. In June they signed a Memorandum of Understanding with Renewable Oil Corporation [see details below – also a speaker at the event], Dynamotive Energy Systems Corporation and Future Farm Industries Co-operative Research Centre to develop a sustainable aviation biofuel that also has benefits for the Australian farming community and the environment. *See attached Profile for Virgin Australia.*

The aviation sector is leading the way in establishing a demand for advanced biofuels. As jetfuel becomes more expensive with rising oil prices the aviation sector has to be looking to biofuels. The recent CSIRO Report - The Flight Path to Sustainable Aviation - makes a compelling case for a new Australian and New Zealand bio-derived jet fuel industry that over the next 20 years could:

- *generate more than 12 000 jobs*
- *reduce Australia's reliance on fuel imports by A\$2 billion per annum*
- *decrease greenhouse gas emissions by 17 per cent in the aviation sector.*

See [here](#) for further details.

Meeting demand by production of biofuels from our waste, forests and new land uses

Renewable Oil Corporation – ROC is the Australia/New Zealand partner for Canadian company Dynamotive, which has spent more than \$100 million over the past decade developing “fast pyrolysis” technology to convert wood into liquid fuels. Dynamotive has already taken this technology to commercial scale in Canada, with its largest plant sized to convert 130,000 green tonnes of wood per year into pyrolysis oil and charcoal. **See attached Profile for ROC.**

Davy Process Technologies – Davy Process Technology, a Johnson Matthey Company, has a global business in petrochemicals technology development and technology licensing. It licenses a range of proprietary process technologies such as Methanol, Fischer Tropsch, SNG, Butanediol, Detergent Alcohols, Oxo Alcohols, PTA, Industrial Amines, Ethyl Acetate, Biodiesel and Propylene Glycol. Davy Process Technology has developed two related technologies in the field of biodiesel production - the Davy Biodiesel Process, which utilises lower grade fats and oils that conventional biodiesel processes struggle to convert; and the a process which converts glycerine, a by-product from biodiesel manufacture, to propylene glycol. Propylene glycol is used in a number of consumer products, for example shampoo and toothpaste, as well as plastics and anti freeze. **See attached Profile for Davy.**

These speakers will be talking about the advanced biofuels technologies that are now reaching commercial phase of development. We next enter a phase where we need to partner the technology developers with land and forest owners to bring the economic growth set out in a target in the [NZ Bioenergy Strategy](#) on the BANZ web-site.

Contact events@bioenergy.org.nz for further details.