Bioenergy Association Publications

Introduction

Using the expertise amongst its members and affiliates, the Bioenergy Association has been able to develop a number of publications to assist its members and the public to secure top quality equipment and advice.

Use the links in the tables below to access Information Sheets, Technical Guides and Occasional Papers kept in our website Bioenergy Knowledge Centre - www.bioenergy.org.nz/bioenergy-knowledge-centre.

Information sheets

Information sheets provide information that describe the sourcing or use of bioenergy in any of its forms.

Information Sheet No.	Title	Fuel Type	Topic
IS01	**Bioenergy Association information resources** www.bioenergy.org.nz/resource/is01-information-resources	**Bioenergy general**	**Bioenergy general**
IS02	**Frequently asked questions – Liquid Biofuels**	**Liquid biofuels**	**Under development**
IS03	**Frequently asked questions – Biogas** www.biogas.org.nz/faqs-biogas	**Biogas**	**Under development**
IS04	**Frequently Asked Questions – Wood energy** www.usewoodfuel.org.nz/faqs-wood-fuels	**Wood fuel**	**Under development**
IS05	**Educational facilities using wood fuel** www.bioenergy.org.nz/resource/is05-education-facilities-using-wood-fuel	**Wood fuel**	**Wood energy market**
IS06	**Wood energy adviser professional development** **www.usewoodfuel.org.nz/registered-wood-energy-advisors**	**Wood fuel**	**Under development**
IS07	**Estimating the cost of recovering forest residues as fuel for energy production** www.bioenergy.org.nz/resource/is07-costs-using-wood-processing-fuel	**Wood fuel**	**Under development**
IS08	**Liquid Biofuels and Sustainability**	**Liquid biofuels**	**Under development**

IS09	**Co-firing coal with wood** www.bioenergy.org.nz/resource/is09-co-firing-coal-with-wood		**Wood energy combustion technology**
IS10	NZ Energy Strategies and Bioenergy www.bioenergy.org.nz/resource/is10-nz-energy-strategies-and-bioenergy	**Bioenergy general**	**Bioenergy strategy**
IS11	**Bioenergy Association Publications** www.bioenergy.org.nz/resource/is11-bioenergy-association-publications	**Bioenergy general**	**Resources**
IS11b	**Bioenergy Association Publications – Wood fuel**	**Wood fuel general**	**Resources**
IS11c	**Bioenergy Association Publications – Liquid biofuels**	**Liquid biofuels general**	**Resources**
IS11d	**Bioenergy Association Publications – Biogas / Waste to Energy**	**Biogas/WtE general**	**Resources**
IS12	**Woody biomass - fuel drying** www.bioenergy.org.nz/resource/is12-woody-biomass-fuel-drying	**Wood fuel**	**Wood energy market**
IS13	**Understanding the value of co-production of biofuels and biochemicals** www.bioenergy.org.nz/resource/is13-understanding-biofuels-and-biochemicals	**Liquid biofuels**	**Liquid biofuel market**
IS14	**BANZ helping you grow your bioenergy business** www.bioenergy.org.nz/resource/is14-banz-helping-your-bioenergy-business-grow	**Bioenergy general**	**Bioenergy general**
IS15	**New Zealand business growth agenda and bioenergy** www.bioenergy.org.nz/resource/is15-new-zealand-business-growth-agenda	**Bioenergy general**	**Government policy**
IS16	**Up, Up and Away – Biofuels and Aviation** www.bioenergy.org.nz/resource/is16-biofuels-and-aviation	**Liquid biofuels**	**Liquid fuel handling**
IS17	**Care/rest homes and hospitals using wood fuel** www.bioenergy.org.nz/resource/is17-carehomes-resthomes-and-hospital-facilities-using-wood-fuel	**Wood fuel**	**Wood energy combustion technology**
IS18	**Wood Fuels – the Wood Fuel Market** www.bioenergy.org.nz/resource/is18-wood-fuels-market	**Wood fuel**	**Wood energy market**
IS19	**Producing energy from rural land** www.bioenergy.org.nz/resource/is19-producing-energy-from-rural-land	**Bioenergy general**	**Bioenergy economics**

IS20			
IS21			
IS22			
IS23	**Wood processing residues as fuel** www.bioenergy.org.nz/resource/is23-wood-processing-residues-fuel	**Wood fuel**	**Wood fuel preparation**
IS24	**Revenue from Biogas** www.bioenergy.org.nz/resource/is24-revenue-from-biogas	**Biogas**	**Biogas feedstocks**
IS25	**Biogas 101**	**Biogas**	**Under development**
IS26	**Bioenergy Research and Training**	**Bioenergy general**	**Under development**
IS27	**Sourcing wood fuels – calculators and case studies** www.bioenergy.org.nz/resource/is27-sourcing-wood-fuels-calculators-and-case-studies	**Wood fuel**	**Wood energy**
IS28	**The potential for Miscanthus fuel supply in New Zealand** www.bioenergy.org.nz/resource/is28-potential-for-miscanthus-fuel-supply-in-nz	**Wood fuel**	**Wood fuel availability**
IS29	**Biogas Information Resources**	**Biogas**	**Under development**
IS30	**Ensuring quality wood energy plant** www.bioenergy.org.nz/resource/is30-ensuring-quality-wood-energy-plant	**Wood fuel**	**Wood energy economics**
IS31	**GHG reduction using biogas technologies** www.bioenergy.org.nz/resource/is31-ghg-reduction-using-biogas-technologies	**Biogas**	**Biogas technology**
IS32	**GHG reduction using wood energy** www.bioenergy.org.nz/resource/is32-ghg-reduction-using-biomass-energy-for-heat	**Wood fuel**	**Wood energy combustion technology**
IS33	**GHG reduction from transport biofuels** www.bioenergy.org.nz/resource/is33-ghg-reduction-from-transport-biofuels		**Liquid biofuel technologies**
IS34	**Bioenergy and biofuels in New Zealand**		**Under development**

IS35	**Bioenergy facts and figures** www.bioenergy.org.nz/resource/is35-bioenergy-facts-and-figures	**Bioenergy general**	**Bioenergy markets**
IS36	**Collaboration to achieve the greenhouse gas emission reduction targets**	**Bioenergy general**	
IS37	**New Zealand biogas standards**		
IS38	**Residential Wood Pellet Group – Helping your wood pellet business grow** www.bioenergy.org.nz/resource/is38-rwphg-helping-your-wood-pellet-business	**Wod fuel**	**Residential heating**
IS39	**Wood energy information resources** www.bioenergy.org.nz/resource/is39-wood-energy-information-resources	**Wood fuel**	**Wood fuel availability**
IS40	**Wood energy in New Zealand** www.bioenergy.org.nz/resource/is40-wood-energy-new-zealand	**Wood fuel**	**Under development**
IS41	**Wood energy short courses** www.bioenergy.org.nz/resource/is41-wood-energy-short-courses	**Wood fuel**	**Wood energy economics**
IS42			
IS43	**Biomass fuel resource availability projections** www.bioenergy.org.nz/resource/is43-biomass-fuel-resource-availability-projections		
IS44	**Emissions reduction the bioenergy and biofuels sector can achieve by 2050** www.bioenergy.org.nz/resource/is44-emissions-reduction-bioenergy-biofuels-sector-can-achieve-by-2050	**Bioenergy general, Liquid biofuels**	**Liquid biofuels technologies**
IS45	**Actions to maximise reduction of methane emissions from waste and achieve net-zero carbon** www.bioenergy.org.nz/resource/is45-actions-to-maximise-reduction-of-methane-emissions-from-waste		
IS46	**Actions to reduce use of fossil fuels for process heat** www.bioenergy.org.nz/resource/is46-actions-to-reduce-use-of-fossil-fuels-for-process-heat		
IS47	**The role of biogas in transition to low carbon economy** www.biogas.org.nz/resource/is47-role-of-biogas-in-transition-to-low-carbon-economy		

IS48	**GHG reduction using wood energy** www.bioenergy.org.nz/resource/is48-GHG-reduction-using-wood-energy	**Wood fuel**	**Wood energy combustion technology**
IS49	**Bioenergy and biofuels contribution to GHG emissions reduction and economic wellbeing** www.bioenergy.org.nz/resource/is49-bioenergy-the-renewable-fuel	**Bioenergy general**	**Bioenergy strategy**
IS50	**Offsetting GHG emissions on farms** www.usewoodfuel.org.nz/resource/is50-offsetting-ghg-emissions-on-farms	**Wood fuel**	**Wood energy market**

Occasional Papers

BANZ has published this series of papers to encourage discussion on bioenergy topics amongst its members. The paper content are the views of the author and do not reflect the association's opinion in any way. Members wishing to submit reports for possible publication within this series may contact the Executive Officer (brian.cox@bioenergy.org.nz)

Occasional Paper No.	Title	Topic
OP1	**Policies and initiatives - early development of advanced biofuels market in NZ** www.bioenergy.org.nz/resource/op01-policies-initiatives-advanced-biofuels	**Liquid biofuels general**
OP2	**NZ Bioenergy Strategy** www.bioenergy.org.nz/resource/op02-nz-bioenergy-strategy	**Bioenergy strategy**
OP3	**Biodiesel Grant Scheme progress report** www.bioenergy.org.nz/resource/op03-bidiesel-grants-scheme-progress-report	
OP4	**Bioenergy strategy carbon dioxide savings** www.bioenergy.org.nz/resource/op04-bioenergy-strategy-carbon-dioxide-savings	**Bioenergy strategy**
OP5	**A technology and capability gap analysis and action plan for implementation** www.bioenergy.org.nz/resource/op05-technology-capability-gap-analysis-action-plan	**Bioenergy strategy**
OP6	**Biogas plants make good use of waste in Germany** www.bioenergy.org.nz/resource/op06-biogas-plants-make-good-waste-germany	**Biogas**
OP7	**Biogas Strategy 2010 to 2040** www.bioenergy.org.nz/resource/op07-biogas-strategy-2010-2040	**Biogas**
OP8	**What are the priority NZ forestry sector R&D strategy areas for funding?** www.bioenergy.org.nz/resource/op-08-priority-nz-forestry-sector-rd-strategy-areas-for-funding	**Wood energy**
OP9	**NZ Bioenergy mission to Canada – post mission review**	**General**

	www.bioenergy.org.nz/resource/occasional-paper-09-nz-bioenergy-mission-canada-post-mission-review	
OP10	**Liquid fuels from forest biomass – a commercial perspective** www.bioenergy.org.nz/resource/op10-liquid-fuels-from-forest-biomass	**Liquid biofuels**
OP11	**Potential energy production from waste water treatment in NZ** www.bioenergy.org.nz/resource/op11-potential-energy-production-from-wwt-nz	**Biogas**
OP12	**Bioenergy opportunities for rural landowners – potential value propositions for investment** www.bioenergy.org.nz/resource/op12-bioenergy-opportunities-rural-landowners	**Bioenergy**
OP13	**Bioenergy opportunities for the forestry and wood processing sectors – potential value propositions for investment** www.bioenergy.org.nz/resource/op13-bioenergy-opportunities-forestry-wood-processing-sectors	**Wood energy**
OP14	**Wood and coal co-firing – one route towards a reduced carbon footprint** www.bioenergy.org.nz/resource/op-14-wood-and-coal-co-firing-one-route-towards-reduced-carbon-footprint	**Wood energy**
OP15	**Biogas fuel from a closed-loop nitrogen supply cropping system** www.bioenergy.org.nz/resource/op-15-biogas-fuel-from-closed-loop-nitrogen-supply-cropping-system	**Biogas**
OP16	**Preliminary analysis of the economic impact of the NZ Bioenergy Strategy** www.bioenergy.org.nz/resource/op16-economic-impact-nz-bioenergy-strategy	**Bioenergy strategy**
OP17	**Member proposition for the Bioenergy Association** www.bioenergy.org.nz/resource/op17-BANZ-member-proposition	**Bioenergy economics**
OP18	**NZ wood pellets – making the most of national and international opportunities** www.bioenergy.org.nz/resource/op18-wood-pellets-national-international-opportunities	**Wood energy**
OP19	**Bioenergy utilisation opportunities in Christchurch and recommendations from European experiences** www.bioenergy.org.nz/resource/op19-bioenergy-utilisation-opportunities-christchurch-recommendations	
OP20	**Renewable energy options for Christchurch's rebuild** www.bioenergy.org.nz/resource/op20-renewable-energy-options-christchurch-rebuild	
OP21		
OP22		
OP23		

Technical Guides

Using the expertise within the Association's interest groups, BANZ has developed a number of technical guides. This industry-led approach often avoids the costly process of developing and implementing standards. Please note that in some cases only a sample of the document is available to the public. A full version is available in the Members' Only Area of the website, and can be accessed by using your member login.

Technical Guide No.	Title	Topic
TG01	**Solid Biofuel Classification Guidelines** www.bioenergy.org.nz/resource/tg01-solid-biofuel-classification-guidelines	**Wood energy**
TG02	**Conversion of solid fuel boilers from coal to wood pellet firing** www.bioenergy.org.nz/resource/tg02-conversion-solid-fuel-boilers-from-coal-wood-pellet-firing	**Wood energy**
TG03	**Guidance for the safe operation of small scale wood fueled heat plant** www.bioenergy.org.nz/resource/tg03-wood-boiler-operators-guide	**Wood energy**
TG04	**Tender guidelines for specification, supply and installation of wood energy plant** www.bioenergy.org.nz/resource/tg04-tender-guidelines-for-wood-energy-specification	**Wood energy**
TG05	**Standard methods for verifying the quality of solid biofuels** www.bioenergy.org.nz/resource/tg05-verifying-solid-biofuel	**Wood energy**
TG06	**Contracting to deliver quality wood fuel to customers** www.bioenergy.org.nz/resource/tg06-contracting-deliver-quality-wood-fuel-customers	**Wood energy**
TG07		
TG08	**The production and use of digestate as fertiliser** www.biogas.org.nz/resource/tg08-production-and-use-digestate-biofertiliser	**Biogas**
TG09		
TG10	**Consultant/specifier practice paper for wood fuel industrial and commercial heating systems** www.bioenergy.org.nz/resource/tg10-specifier-practice-paper	**Wood energy**
TG11		
TG12		
TG13	**Design, construction, operation of AD equipment for farm waste treatment** https://www.biogas.org.nz/resource/tg13-construction-operation-of-farm-AD-plant-guide	**Gaseous biofuels**
TG14	**Best practice guideline for lifecycle analysis of heat supply projects**	**Solid biofuels**

Webinar

The Bioenergy Association is pleased to introduce its webinar programme. The webinars are cost-effective, live web-based video conferencing used to encourage discussion and transfer of technical or market information via a presentation from a speaker who may be anywhere in the world, to our members and also to a larger audience in real-time, whenever we want.

Please note that in some cases only an intro to the webinar is available to the public. ***The audio recording and slides are available to Members' Only and can be accessed by using a member login.***

Fuel Type: Biogas	
Title and description	**Topic**
How to get best prices when selling electricity from small scale generation *(Roy Netzer – Director at Power Edge Limited on 25 February 2021)* www.biogas.org.nz/resource/web210225-best-prices-when-selling-electricity-from-small-scale-generation	**Biogas economics**
Recovering valuable resources to create sustainable biogas and biofertiliser *(Grant Smith – Director & Development Advisor at Ecogas on 24 September 2020)* *www.biogas.org.nz/resource/web200924-sustainable-biogas-and-biofertiliser*	
Energising the circular economy by use of putrescible organic waste *(Jurgen Thiele – Business Unit Leader, Waste Recovery at Calibre Group on 16 April 2019)* *www.biogas.org.nz/resource/web190416-energising-circular-economy-by-use-of-putrescible-organic-waste*	
Economic viability of commercial anaerobic digestion of food waste *(Joseph Oliver at Biogass Renewables on 16 November 2018)* www.bioenergy.org.nz/resource/web181116-economic-viability-of-commercial-ad-food-waste	**Biogas economics**
Fully integrate WtE with waste recycling – Marseille a case study *(David Garcia de Herreros – Asia Pacific Director at Urbaser S.A. on 27 September 2018)* www.bioenergy.org.nz/resource/web180927-fully-integrated-wte-waste-recycling-case-study	**Gas treatment storage and handling**
Guide to anaerobic digestion treatment of farm waste *(Alzbeta Bouskova – Process Engineer, Alistair Broughton, Chris Hearn at BPO Ltd on 31 July 2018)* www.bioenergy.org.nz/resource/webinar-180731-guide-to-anaerobic-digestion-treatment-of-farm-waste	**Biogas technology**
Utilising municipal organic waste to reduce energy costs *(Jurgen Thiele – Business Unit Leader, Waste Recovery at Calibre Group on 2 May 2018)* www.bioenergy.org.nz/resource/web180502-utilising-municipal-organic-waste-to-reduce-energy-costs	**Biogas technology**

Opportunities for utilising food industry waste to reduce energy costs *(Alzbeta Bouskova – Process Engineer at BPO Ltd on 18 April 2018)* www.bioenergy.org.nz/resource/web180418-carbon-neutral-industrial-wwt	**Biogas technology**
Transportation of difficult high moisture biomass by pumping *(Peter Beasley – Business Development Manager at Beasley's on 13 December 2017)* www.bioenergy.org.nz/resource/web171213-transportation-of-biomass-by-pumping	**Biogas technology**
Extracting additional value from anaerobic digestion of difficult wastes *(Dr Ikka Virkajärvi – Head of Technology at Ductor on 16 May 2017)* www.biogas.org.nz/resource/web170516-extracting-additional-value-from-anaerobic-digestion	**Biogas economics**
Is there life after DAF?: Advances in processing high solid / fat food wastes using anaerobic digestion *(Alzbeta Bouskova – Process Engineer at BPO Ltd [formerly ADI Systems Asia Pacific] on 15 February 2017)* www.bioenergy.org.nz/resource/web170215-is-there-life-after-daf	**Biogas economics**
An inconvenient truth – NZ can take off to Paris with energy from waste *(Marc Stammbach – Managing Director at Hitachi Zosen Inova on 6 December 2016)* www.bioenergy.org.nz/resource/web161206-energy-from-waste	**Biogas economics**
Revenue from improve trade waste co-digestion *(Jurgen Thiele – Business Unit Leader, Waste Recovery at Calibre Group on 10 October 2016)* www.bioenergy.org.nz/resource/web1610-improved-trade-waste-co-digestion	**Biogas technology**
Observations of biogas generation and use in Ireland and Germany *(John Crawford – Senior Principal Wastewater Engineering at Opus International Consultants on 21 April 2015)* www.bioenergy.org.nz/resource/web150421-observations-biogas-generation-and-use-ireland-and-germany	**Biogas economics**
Fuel Type: Liquid Biofuels	
Title and description	**Topic**
Renewable LPG in New Zealand *(Albert de Geest – Chief Executive Officer at Liquigas on 5 March 2021)* https://www.liquidbiofuels.org.nz/resource/web210305-renewable-lpg-for-nz	**Liquid fuel handling**

Fuel Type: Wood energy	
Title and description	**Topic**
Sampling and testing solid biomass fuels *(Ben Rumsey of CRL Energy on 21 August 2018)* https://www.bioenergy.org.nz/resource/web180821-sampling-and-testing-solid-biomass	**Wood energy standards**

---ends---