

Bioenergy Association Publications

Solid Biofuels

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:

- achieve a good understanding of the production of heat from solid biofuels;
- obtain guidance on best practice;
- secure top quality equipment; and
- obtain an understanding of the market for producing heat from solid biofuels.



Bioenergy Knowledge Centre

The publications are published on the website www.usewoodfuel.org.nz and are searchable in the Bioenergy Knowledge Centre - www.usewoodfuel.org.nz/wood-energy-knowledge-centre. The Bioenergy Knowledge Centre also contains comprehensive information from other parties of bioenergy and biofuels relevant to the New Zealand, Australian and Pacific markets.

The Knowledge Centre holds over 1000 searchable documents including research reports, media releases/statements, workshop and webinar presentations, submissions and technical guides. Documents are searchable by topic, author, title or key words.

Bioenergy Association publications

Bioenergy Association publications are published as either Information Sheets, Technical Guides, Technical notes or Occasional Papers.

This Information Sheet includes only publications relating to solid biofuels. Publications relating to the production of biogas from residual organic wastes, and transport biofuels, are published on the websites www.biogas.org.nz and www.liquidbiofuels.org.nz

Information sheets

The Information Sheet series have been produced for the general public and provide information that describe the sourcing or use of bioenergy in any of its forms.

Information Sheet No.	Title	Topic
IS05	Educational facilities using wood fuel www.bioenergy.org.nz/resource/is05-education-facilities-using-wood-fuel	Wood energy
IS06	Wood energy advisor professional development www.usewoodfuel.org.nz/registered-wood-energy-advisors	Wood energy
IS07	Estimating the cost of recovering forest residues as fuel for energy production www.usewoodfuel.org.nz/resource/is07-costs-using-wood-processing-fuel	Wood energy
IS09	Co-firing coal with wood www.bioenergy.org.nz/resource/is09-co-firing-coal-with-wood	Wood energy
IS10	NZ Energy Strategies and Bioenergy www.bioenergy.org.nz/resource/is10-nz-energy-strategies-and-bioenergy	Bioenergy strategy
IS11b	Bioenergy Association Publications – Solid Biofuels www.usewoodfuel.org.nz/resource/is11b-banz-publications-solid-biofuels	Wood energy
IS14	BANZ helping you grow your bioenergy business www.bioenergy.org.nz/resource/is14-banz-helping-your-bioenergy-business-grow	Bioenergy general
IS17	Care/rest homes and hospitals using wood fuel www.bioenergy.org.nz/resource/is17-carehomes-resthomes-and-hospital-facilities-using-wood-fuel	Wood energy
IS18	Wood Fuels – the Wood Fuel Market https://www.usewoodfuel.org.nz/resource/is18-wood-fuels-market	Wood energy
IS19	Producing energy from rural land www.bioenergy.org.nz/resource/is19-producing-energy-from-rural-land	Bioenergy economics
IS23	Wood processing residues as fuel www.bioenergy.org.nz/resource/is23-wood-processing-residues-fuel	Wood energy
IS27	Sourcing wood fuels – calculators and case studies www.bioenergy.org.nz/resource/is27-sourcing-wood-fuels-calculators-and-case-studies	Wood energy
IS28	The potential for Miscanthus fuel supply in New Zealand	Wood energy

	www.bioenergy.org.nz/resource/is28-potential-for-miscanthus-fuel-supply-in-nz	
IS30	Ensuring quality wood energy plant www.bioenergy.org.nz/resource/is30-ensuring-quality-wood-energy-plant	Wood energy
IS32	GHG reduction using biomass energy for industrial and commercial heat www.bioenergy.org.nz/resource/is32-ghg-reduction-using-biomass-energy-for-heat	Wood energy
IS34	Bioenergy and biofuels in New Zealand www.bioenergy.org.nz/resource/is34-bioenergy-and-biofuels-in-nz	Bioenergy general
IS35	Bioenergy facts and figures www.usewoodfuel.org.nz/resource/is35-bioenergy-facts-and-figures	Wood energy
IS36	Collaboration to achieve the greenhouse gas emission reduction targets www.bioenergy.org.nz/resource/is36-climate-change-collaboration	August 2021
IS38	Residential Wood Pellet Group – Helping your wood pellet business grow www.bioenergy.org.nz/resource/is38-rwphg-helping-your-wood-pellet-business	Wood energy
IS39	Wood energy information resources www.bioenergy.org.nz/resource/is39-wood-energy-information-resources	Wood energy
IS40	Wood energy in New Zealand www.usewoodfuel.org.nz/resource/is40-wood-energy-nz	Wood energy
IS41	Wood energy short courses www.bioenergy.org.nz/resource/is41-wood-energy-short-courses	Wood energy
IS43	Biomass fuel resource availability projections www.bioenergy.org.nz/resource/is43-biomass-fuel-resource-availability-projections	Wood energy
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
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	Wood energy
IS48	GHG reduction using wood energy www.usewoodfuel.org.nz/resource/is48-GHG-reduction-using-wood-energy	Wood energy
IS49	Bioenergy and biofuels contribution to GHG emissions reduction and economic wellbeing www.bioenergy.org.nz/resource/is49-bioenergy-the-renewable-fuel	Bioenergy strategy

IS50	Offsetting GHG emissions on farms www.usewoodfuel.org.nz/resource/is50-offsetting-ghg-emissions-on-farms	Wood energy
IS53	Bioenergy Association Solid Biofuel Suppliers register www.usewoodfuel.org.nz/resource/is53-register-of-solid-biofuel-suppliers	Wood energy
IS56	Submissions to Government on policies affecting solid biofuels www.usewoodfuel.org.nz/resource/is56-submissions-to-government-on-policies-affecting-solid-biofuels	Wood energy
IS58	Occupational health and safety responsibilities for school boilers www.bioenergy.org.nz/resource/is58-occupational-health-and-safety-for-school-boilers	Wood energy
IS59	Bioenergy – the renewable fuel www.usewoodfuel.org.nz/resource/is59-bioenergy-the-renewable-fuel	Wood energy
IS61	Sourcing biomass to meet the demand for biofuels www.bioenergy.org.nz/resource/is61-sourcing-biomass-to-meet-the-demand-for-biofuels	Wood energy

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)

[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.]



Occasional Paper No.	Title	Topic
OP8	What are the priority NZ forestry sector R&D strategy areas for funding? www.usewoodfuel.org.nz/resource/op-08-priority-nz-forestry-sector-rd-strategy-areas-for-funding	Wood energy
OP10	Liquid fuels from forest biomass – a commercial perspective www.usewoodfuel.org.nz/resource/op10-liquid-fuels-from-forest-biomass	Wood energy
OP12	Bioenergy opportunities for rural landowners – potential value propositions for investment www.usewoodfuel.org.nz/resource/op12-bioenergy-opportunities-rural-landowners	Solid Biofuels

OP13	Bioenergy opportunities for the forestry and wood processing sectors – potential value propositions for investment www.usewoodfuel.org.nz/resource/op13-bioenergy-opportunities-forestry-wood-processing-sectors	Solid Biofuels
OP14	Wood and coal co-firing – one route towards a reduced carbon footprint www.usewoodfuel.org.nz/resource/op14-wood-and-coal-co-firing	Solid Biofuels
OP18	NZ wood pellets – making the most of national and international opportunities www.usewoodfuel.org.nz/resource/op18-wood-pellets-national-international-opportunities	Solid Biofuels
OP21	Review of regional air quality rules regulating biomass fuelled heat plant www.usewoodfuel.org.nz/resource/op21-regional-air-quality	Solid biofuels
OP23	Miscanthus as a biofuel	Solid biofuels

Technical Guides

Using the expertise within the Association’s Interest Groups, BANZ has developed a number of Technical Guides. This industry-led approach to produce informative best practice guides often avoids the costly process of developing and implementing prescriptive formal standards. Technical Guides are similar in approach to Publicly Available Specifications (PAS) produced by Standards NZ. When appropriate some Technical Guides may be published as PAS.



[Please note that in some cases only a sample of the document is available to the public. A full version is available in the website’s Members Only Area and can be accessed by using a member login.]

Technical Guide No.	Title
TG01	Solid Biofuel Classification Guidelines www.usewoodfuel.org.nz/resource/tg01-solid-biofuel-classification-guidelines
TG02	Conversion of solid fuel boilers from coal to wood pellet firing www.usewoodfuel.org.nz/resource/tg02-conversion-solid-fuel-boilers-from-coal-wood-pellet-firing
TG03	Guidance for the safe operation of small scale wood fuelled heat plant www.usewoodfuel.org.nz/resource/tg03-wood-boiler-operators-guide
TG04	Tender guidelines for specification, supply and installation of wood energy plant www.usewoodfuel.org.nz/resource/tg04-tender-guidelines-for-wood-energy-specification
TG05	Standard methods for verifying the quality of solid biofuels www.usewoodfuel.org.nz/resource/tg05-verifying-solid-biofuel

TG06	Contracting to deliver quality wood fuel to customers www.usewoodfuel.org.nz/resource/tg06-contracting-deliver-quality-wood-fuel-customers
TG10	Consultant/specifier practice paper for wood fuel industrial and commercial heating systems www.usewoodfuel.org.nz/resource/tg10-specifier-practice-paper
TG14	Best practice guideline for lifecycle analysis of heat supply projects www.usewoodfuel.org.nz/resource/tg14-evaluation-of-heat-plant-opportunities

Technical notes

The Technical Notes series of publications are expansions of keywords on the Bioenergy Association websites.

Rather than clutter up website pages with too much information the details or expansions of information related to the keyword are set out in a technical note.



Technical Note No.	Title	Published
TNSB01	List of solid biofuel technical notes www.usewoodfuel.org.nz/resource/tnsb01-list-of-solid-biofuel-technical-notes	July 2021
TNSB02	Searching for wood fuel supply www.usewoodfuel.org.nz/resource/tnsb02-searching-for-wood-fuel-supply	May 2019
TNSB03	Solid biomass notice board www.usewoodfuel.org.nz/resource/tnsb03-solid-biomass-notice-board	July 2019
TNSB04	Wood fuel supplier accreditation scheme www.usewoodfuel.org.nz/resource/tnsb04-solid-biofuel-supplier-accreditation-scheme	July 2021
TNSB05	Biochar www.usewoodfuel.org.nz/resource/tnsb05-biochar	August 2021
TNSB06	Types of solid biofuel available in New Zealand and Australia www.usewoodfuel.org.nz/resource/tnsb06-key-fuel-types-in-nz-aus	July 2019
TNSB07	Cost of using producing and delivering wood fuel www.usewoodfuel.org.nz/resource/tnsb07-producing-and-delivering-wood-fuel	July 2019
TNSB08	Producing quality wood fuel www.usewoodfuel.org.nz/resource/tnsb08-producing-quality-wood-fuel	July 2019
TNSB09	Where does wood fuel come from? www.usewoodfuel.org.nz/resource/tnsb09-where-does-wood-fuel-come-from	July 2019

TNSB10	Wood fuel availability in NZ www.usewoodfuel.org.nz/resource/tnsb10-biomass-availability-in-nz	March 2021
TNSB11	Boiler operation – load following www.usewoodfuel.org.nz/resource/tnsb11-boiler-operation-load-following	July 2019
TNSB12	Choosing and installing new heat plant www.usewoodfuel.org.nz/resource/tnsb12-choosing-and-installing-new-heat-plant	July 2019
TNSB13	Wood fuel production technology www.usewoodfuel.org.nz/resource/tnsb13-wood-fuel-production-technology	July 2021
TNSB14	Solid biofuel best practice guides www.usewoodfuel.org.nz/resource/tnsb14-solid-biofuel-best-practice-guides	July 2019
TNSB15	Links and useful resources www.usewoodfuel.org.nz/resource/tnsb15-links-and-useful-resources-solid-biofuels	July 2019
TNSB16	ENplus standard www.usewoodfuel.org.nz/resource/tnsb16-enplus-standard	July 2019
TNSB17	Biomass combustion technical standards www.usewoodfuel.org.nz/resource/tnsb17-biomass-combustion-technical-standards	July 2019
TNSB18	Boiler maintenance www.usewoodfuel.org.nz/resource/tnsb18-boiler-maintenance	July 2019
TNSB19	Orewa explosion lessons learnt www.usewoodfuel.org.nz/resource/tnsb19-orewa-college-explosion-lessons-learnt	July 2019
TNSB20	Solid biofuel researchers www.usewoodfuel.org.nz/resource/tnsb20-solid-biofuel-researchers	July 2019
TNSB21	IEA Bioenergy activities in relation to solid biofuels www.usewoodfuel.org.nz/resource/tnsb21-iea-bioenergy-activities-in-relation-to-solid-biofuels	July 2021
TNSB22	Residential wood fuelled heaters www.usewoodfuel.org.nz/resource/tnsb22-residential-wood-fuelled-heaters	April 2020
TNSB23	Sustainability of biomass fuels www.usewoodfuel.org.nz/resource/tnsb23-sustainability-of-biomass-fuels	May 2019
TNSB24	Woody biomass fuel drying for forced drying options www.usewoodfuel.org.nz/resource/tnsb24-woody-biomass-fuel-forced-drying-options	July 2019

TNSB25	Safe operation of wood fuelled heat plant www.usewoodfuel.org.nz/resource/tnsb25-safe-operation-of-wood-fuelled-heat-plant	July 2019
---------------	--	-----------

TNSB26	Wood Energy South case studies www.usewoodfuel.org.nz/resource/tnsb26-wood-energy-south-case-studies	July 2019
TNSB27	Wood Energy short training courses www.usewoodfuel.org.nz/documents/admin/TNSB27-Wood-Energy-short-training-courses.pdf	July 2019
TNSB28	International wood pellet standard ISO 17225 www.usewoodfuel.org.nz/documents/admin/TNSB28-International-wood-pellet-standard-ISO17225.pdf	July 2019
TNSB29	Combustion of herbaceous biofuel www.usewoodfuel.org.nz/resource/tnsb29-combustion-of-herbaceous-biofuel	January 2018
TNSB30	Combustion of organic waste www.usewoodfuel.org.nz/resource/tnsb30-combustion-of-waste-biomass	July 2019
TNSB31	Farm forestry source of biomass www.usewoodfuel.org.nz/resource/tnsb31-farm-forestry-source-of-biomass	August 2021
TNSB32	Solid biofuel standards (ISO-TC238) www.usewoodfuel.org.nz/resource/tnsb32-solid-biofuel-standards	July 2019
TNSB33	Programme of Wood energy activities www.usewoodfuel.org.nz/resource/tnsb33-wood-energy-programme-of-activities	August 2021
TNSB34	Torrefaction of biomass to produce biofuel www.usewoodfuel.org.nz/resource/tnsb34-torrefaction-of-biomass-to-produce-biofuel	July 2021
TNSB35	Wood Energy Advisors Registration Scheme www.usewoodfuel.org.nz/resource/tnsb35-wood-energy-advisor-registration-scheme	July 2019
TNSB36	Register of wood energy advisors www.usewoodfuel.org.nz/resource/tnsb36-register-of-wood-energy-advisors	July 2019
TNSB37	Biomass fuelled combustion technology www.usewoodfuel.org.nz/resource/tnsb37-biomass-fuelled-combustion-technology	July 2019
TNSB38	Dangers of using CO2 to quench wood pellet silo fires www.usewoodfuel.org.nz/resource/tnsb38-dangers-of-using-co2-to-quench-wood-pellet-silo-fires	July 2019
TNSB39	Combustible dust mitigation and control www.usewoodfuel.org.nz/resource/tnsb39-combustible-dust-mitigation-and-control	May 2020

TNSB40	Dust collection and suppression systems www.usewoodfuel.org.nz/resource/tnsb40-dust-collection-and-suppression-systems	July 2019
TNSB41	Co-firing wood with coal www.usewoodfuel.org.nz/resource/tnsb41-cofiring-wood-with-coal	July 2019
TNSB42	Combustible gas dryer systems hazards and best practices www.usewoodfuel.org.nz/resource/tnsb42-combustible-gas-dryer-systems	July 2019
TNSB43	Wood dust explosion suppression case studies www.usewoodfuel.org.nz/resource/tnsb43-wood-dust-explosion-suppression-case-studies	July 2019
TNSB44	Thermal treatment of waste www.usewoodfuel.org.nz/resource/tnsb44-thermal-treatment-of-waste	May 2020
TNSB45	Maize residues as a source of energy www.usewoodfuel.org.nz/documents/admin/TNSB45-Maize-residues-as-a-source-of-energy.pdf	August 2019
TNSB46	Best practice for confined space entry www.usewoodfuel.org.nz/resource/tnsb46-confined-space-safe-entry	February 2020
TNSB47	Value added from using wood residues www.usewoodfuel.org.nz/resource/tnsb47-value-added-from-using-wood-residues	May 2020
TNSB48	Wood fuel supply contract - price escalation www.usewoodfuel.org.nz/resource/tnsb48-briquettes	May 2020
TNSB49	Best practices for managing wood fibre storage and combustible dust www.usewoodfuel.org.nz/resource/tnsb49-managing-wood-fibre-storage	May 2020
TNSB50	Risk assessment – the first step to controlling combustible dust hazards www.usewoodfuel.org.nz/resource/tnsb50-risk-assessment	May 2020
TNSB51	Safe biomass driers www.usewoodfuel.org.nz/resource/tnsb51-safe-biomass-driers	May 2020
TNSB52	Explosion flap isolation valves www.usewoodfuel.org.nz/resource/tnsb52-explosion-flap-isolation-valves	May 2020
TNSB53	Operation and maintenance of biomass fuelled heat plant www.usewoodfuel.org.nz/resource/tnsb53-operation-and-maintenance-of-biomass-fuelled-heat-plant	May 2020
TNSB54	Air filtration prevents fires www.usewoodfuel.org.nz/resource/tnsb54-air-filtration-stops-fires	May 2020

TNSB55	Explosion protection needs and awareness in the biomass industry www.usewoodfuel.org.nz/resource/tnsb55-explosion-protection-needs-and-assessment	May 2020
TNSB56	Combustible gas: dryer systems hazards and best practices www.usewoodfuel.org.nz/resource/tnsb56-dryer-system-hazards	May 2020
TNSB57	Wood pellet national standards www.usewoodfuel.org.nz/resource/tnsb57-national-wood-pellet-heating-standards	August 2021
TNSB58	Dust hazard analysis www.usewoodfuel.org.nz/resource/tnsb58-dust-hazard-analysis	May 2021
TNSB59	Safe baghouse maintenance www.usewoodfuel.org.nz/resource/tnsb59-baghouse-safety-best-practices-for-hands-on-maintenance	May 2021
TNSB60	Wood pellet heating sector participants www.usewoodfuel.org.nz/resource/tnsb60-wood-pellet-fuel-heater-suppliers	May 2021
TNSB62	Frequently asked questions about wood energy www.usewoodfuel.org.nz/resource/tnsb62-faqs-about-wood-energy	July 2021
TNSB63	Wood fuel supply market development activities www.usewoodfuel.org.nz/resource/tnsb63-wood-fuel-supply-market-development-activities	August 2021
TNSB64	Requests for supply of biomass heating solutions www.usewoodfuel.org.nz/resource/tnsb64-requests-for-supply-of-biomass-heating-solutions	July 2020
TNSB65	Residential wood pellet heating interest group www.usewoodfuel.org.nz/resource/tnsb65-residential-wood-pellet-heating-interest-group	July 2021
TNSB66	Emissions and wood pellets www.usewoodfuel.org.nz/resource/tnsb66-emissions-and-wood-pellets	July 2020
TNSB67	Fighting wood pellet silo fires www.usewoodfuel.org.nz/resource/tnsb67-handling-silo-fires-at-wood-pellet-plants	July 2020
TNSB68	Straw pellet milling procedures www.usewoodfuel.org.nz/resource/tnsb68-straw-pellet-milling-procedures	August 2021
TNSB69	Making cardboard into pellets www.usewoodfuel.org.nz/resource/tnsb69-making-cardboard-into-pellets	June 2021
TNSB70	Making miscanthus into pellet fuel	June 2020

	www.usewoodfuel.org.nz/resource/tnsb70-making-miscanthus-into-pellet-fuel	
TNSB71	Making paper pellets www.usewoodfuel.org.nz/resource/tnsb71-making-paper-pellets	July 2021
TNSB72	Pellets from pallets www.usewoodfuel.org.nz/resource/tnsb72-pellets-from-pallets	August 2021
TNSB73	Characteristics of different biomass resources www.usewoodfuel.org.nz/resource/tnsb73-sources-of-different-biomass-resources	July 2021
TNSB74	Pricing of different biomass fuels www.usewoodfuel.org.nz/resource/tnsb74-pricing-of-different-biomass-fuels	June 2021
TNSB75	Relative future costs of fuel www.usewoodfuel.org.nz/resource/tnsb75-future-costs-of-fuel	August 2021
TNSB76	Wood fuel quality assurance www.usewoodfuel.org.nz/resource/tnsb76-wood-fuel-quality-assurance	June 2020
TNSB77	Solid biofuel supply - model fuel supply contract https://www.usewoodfuel.org.nz/resource/tnsb77-solid-biofuel-supply-model-contract	July 2021
TNSB78	Avoid unsafe work practices around conveyors www.usewoodfuel.org.nz/resource/tnsb78-avoid-unsafe-work-practices-around-conveyors	May 2021
TNSB79	Recognising belt conveyor danger zones www.usewoodfuel.org.nz/resource/tnsb79-recognising-belt-conveyor-danger-zones	May 2021
TNSB80	Fibre pile management best practices www.usewoodfuel.org.nz/resource/tnsb80-fibre-pile-management-best-practices	May 2021
TNSB81	Wood pellet heater Q&As www.usewoodfuel.org.nz/resource/tnsb81-wood-pellet-heater-questions-and-answers	August 2021
TNSB82	Biocarbon for industrial applications www.usewoodfuel.org.nz/resource/tnsb82-biocarbon-for-industrial-applications	August 2021
TNSB83	Solid biofuel price escalation www.usewoodfuel.org.nz/resource/tnsb83-solid-biofuel-price-escalation	August 2021

TNSB84	Solid biofuel from paper www.usewoodfuel.org.nz/resource/tnsb84-solid-biofuel-from-paper	August 2021
TNSB85	Pyrolysis of biomass www.usewoodfuel.org.nz/resource/tnsb85-pyrolysis-of-biomass	July 2021
TNSB86	Fluidised bed combustion www.usewoodfuel.org.nz/resource/tnsb86-fluidised-bed-combustion	July 2021
TNSB87	Gasification of biomass www.usewoodfuel.org.nz/resource/tnsb87-gasification-of-biomass	July 2021
TNBB04	Climate Change policies www.bioenergy.org.nz/resource/tnbb04-climate-change-policies	August 2021
TNBB06	Bioenergy support programmes www.bioenergy.org.nz/resource/tnbb06-bioenergy-support-programmes	August 2021
TNBB11	What is biomass and bioenergy www.bioenergy.org.nz/resource/tnbb11-what-is-biomass-and-bioenergy	July 2020
TNBB18	Bioenergy is carbon neutral www.bioenergy.org.nz/resource/tnbb18-bioenergy-is-carbon-neutral	June 2019
TNBB22	Boiler system fire protection system www.bioenergy.org.nz/resource/tnbb22-boiler-systems-fire-prevention-standards	June 2020
TNBB24	Biomass supply chain risk www.bioenergy.org.nz/resource/tnbb24-biomass-supply-chain-risk	May 2020

Webinar

The Bioenergy Association regularly hosts presentations on specific topics in 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. The webinar recording and discussion are published and catalogued in the Bioenergy Knowledge Centre.

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



Title and description	Topic
<p>Transitioning to a low emissions business by using biomass fuels Kevin Liao, Fonterra, 29 July 2021 www.bioenergy.org.nz/resource/web210729-transitioning-to-a-low-emissions-business-by-using-biomass-fuels</p>	Heat from solid biomass combustion
<p>EECA programmes to support transition to low emissions process heat Bill Brander, EECA, 23 Nov 2020 www.usewoodfuel.org.nz/resource/web201123-eeca-programmes-update</p>	Heat from solid biomass combustion
<p>NZ wood fibre futures stage one report, plus the forestry and wood products ITP (Jason Wilson and Sylvia Freaon of Te Uru Rākau [MPI], 29 Sept 2020 www.usewoodfuel.org.nz/resource/web200929-nz-wood-fibre-futures-stage-one-report</p>	Heat from solid biomass combustion
<p>100% renewable, reliable, low maintenance school heating systems with wood pellet boilers Marcus Baker of Apricus NZ Eco energy, 5 June 2020 www.usewoodfuel.org.nz/resource/web200605-school-heating-systems-with-wood-pellet-boilers</p>	Heat from solid biomass combustion
<p>Using biomass fuel to heat horticulture hothouses Sohum Gandhi of Enriva, 25 July 2019 www.usewoodfuel.org.nz/resource/web190725-using-biomass-fuel-to-heat-horticulture-hothouses</p>	Heat from solid biomass combustion
<p>Miscanthus as a biofuel Peter Brown of Miscanthus New Zealand, 6 June 2019 www.usewoodfuel.org.nz/resource/web190606-miscanthus-as-a-biofuel</p>	Heat from solid biomass combustion
<p>Three demonstration wood energy applications Rob Mallinson of Living Energy, 29 Nov 2018 www.usewoodfuel.org.nz/resource/web181129-three-demonstration-wood-energy-applications</p>	Heat from solid biomass combustion
<p>Evaluation of heat plant opportunities Mike Suggate of East Harbour Energy, 26 Sept 2018 www.usewoodfuel.org.nz/resource/web180926-evaluation-of-heat-plant-opportunities</p>	Heat from solid biomass combustion
<p>Sampling and testing solid biomass fuels Ben Rumsey of CRL Energy, 21 Aug 2018 www.bioenergy.org.nz/resource/web180821-sampling-and-testing-solid-biomass</p>	Heat from solid biomass combustion
<p>Opportunities for replacing coal with wood fuel for process heating John Gifford of Gifford Consulting, 24 May 2018</p>	Heat from solid biomass combustion
<p>Wood energy industrial symbiosis Peter Hall of Scion & Martin Atkins of University of Waikato, 18 July 2017 www.usewoodfuel.org.nz/resource/web170718-wood-energy-industrial-symbiosis</p>	Heat from solid biomass combustion

www.usewoodfuel.org.nz/resource/symposium-yes-we-can

Wood residue to energy opportunities in Auckland

Workshop held at the Corban Estate Arts Centre, Auckland, 4 Feb 2016

www.usewoodfuel.org.nz/resource/wshop160204-wood-residue-to-energy-opportunities-in-auckland

Showcasing medium scale wood fuelled heat plant in Otago

a travelling workshop held in Otago, 28 Oct 2015

www.usewoodfuel.org.nz/resource/wshop151028-showcasing-medium-scale-wood-fuelled-heat-plant-in-otago

Showcasing wood fuel heat plant in Christchurch

a travelling workshop held in Christchurch, 29 Sept 2015

www.usewoodfuel.org.nz/resource/wshop150929-showcasing-wood-fuelled-heat-plant-in-christchurch

Heat Plant Operators Forum 2015

Workshop held at The Distinction Hotel, Rotorua, 26 June 2015

www.usewoodfuel.org.nz/resource/wshop150626-wood-fuelled-heat-plant-operators-forum

Successful installation and operation of wood fuelled heat plant

Workshop held at The Distinction Hotel, Rotorua, 9 May 2014

www.usewoodfuel.org.nz/resource/wshop140509-installation-operation-wood-fuel-heat-plant

Unlocking additional revenue from traditional rural landuse – integrating forestry, biomass crops and bioenergy products

Workshop held at The Distinction Hotel in Rotorua, 16 May 2013

www.usewoodfuel.org.nz/resource/wshop130516-unlocking-additional-revenue-from-rural-land-use

Realising the opportunities for biofuels and bioproducts from woody biomass

Workshop held at The Distinction Hotel in Rotorua, 7 June 2012

www.usewoodfuel.org.nz/resource/wshop120607-biofuels-and-bioproducts-from-woody-biomass

Biochar and Pyrolysis – Opportunities for the forestry industry in NZ

Workshop held at Gateway Hotel, Auckland, 12 March 2008

www.usewoodfuel.org.nz/resource/wshop080312-biochar-and-pyrolysis-opportunities

Growing the NZ wood pellet market

Workshop held at The Distinction Hotel, Rotorua, 23-24 Nov 2006

www.usewoodfuel.org.nz/resource/wshop061123-growing-the-nz-wood-pellet-market