



## List of solid biofuel technical notes

### Introduction

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.

There are four groupings of information in the Technical Notes publication series:

- Bioenergy
- Solid biofuel
- Gaseous biofuel
- Liquid biofuel

Technical Note No.	Title	Published/ Updated
TNSB01	List of solid biofuel technical notes	July 2019
TNSB02	Searching for wood fuel supply <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB02-searching-for-woodfuel-supply.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB02-searching-for-woodfuel-supply.pdf</a>	July 2019
TNSB03	Wood fuel notice board table <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB03-notice-board-table.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB03-notice-board-table.pdf</a>	July 2019
TNSB04	Wood fuel supplier accreditation scheme <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB04-Wood-fuel-supplier-accreditation-scheme.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB04-Wood-fuel-supplier-accreditation-scheme.pdf</a>	July 2019
TNSB05	List of solid biofuel suppliers <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB05-List-of-solid-biofuel-suppliers.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB05-List-of-solid-biofuel-suppliers.pdf</a>	July 2019
TNSB06	Key fuel types available in NZ <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB06-key-fuel-types-available-in-NZ.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB06-key-fuel-types-available-in-NZ.pdf</a>	July 2019
TNSB07	Cost of using producing and delivering wood fuel <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB07-Cost-of-producing-and-delivering-wood-fuel.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB07-Cost-of-producing-and-delivering-wood-fuel.pdf</a>	July 2019
TNSB08	Producing quality wood fuel <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB08-producing-quality-wood-fuel.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB08-producing-quality-wood-fuel.pdf</a>	July 2019
TNSB09	Where does wood fuel come from? <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB09-where-does-wood-fuel-come-from.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB09-where-does-wood-fuel-come-from.pdf</a>	July 2019

TNSB10	Wood fuel availability in NZ	Under review
TNSB11	Boiler operation – load following <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB11-Boiler-operation-load-following.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB11-Boiler-operation-load-following.pdf</a>	July 2019
TNSB12	Choosing and installing new heat plant <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB12-Choosing-and-installing-new-heat-plant.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB12-Choosing-and-installing-new-heat-plant.pdf</a>	July 2019
TNSB13	Wood fuel production technology <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB13-wood-fuel-production-technology.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB13-wood-fuel-production-technology.pdf</a>	July 2019
TNSB14	Solid biofuel best practice guides <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB14-Solid-biofuel-best-practice-guides.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB14-Solid-biofuel-best-practice-guides.pdf</a>	July 2019
TNSB15	Links and useful resources <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB15-Links-and-useful-reference-resources-for-solid-biofuels.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB15-Links-and-useful-reference-resources-for-solid-biofuels.pdf</a>	July 2019
TNSB16	ENplus standard <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB16-ENplus-standards.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB16-ENplus-standards.pdf</a>	July 2019
TNSB17	Biomass combustion technical standards <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB17-Biomass-combustion-technical-standards.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB17-Biomass-combustion-technical-standards.pdf</a>	July 2019
TNSB18	Boiler maintenance <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB18-Boiler-maintenance.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB18-Boiler-maintenance.pdf</a>	July 2019
TNSB19	Orewa explosion lessons learnt <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB19-Orewa-explosion-lessons-learnt.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB19-Orewa-explosion-lessons-learnt.pdf</a>	July 2019
TNSB20	Solid biofuel researchers <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB20-Solid-biofuel-researchers.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB20-Solid-biofuel-researchers.pdf</a>	July 2019
TNSB21	IEA Bioenergy	Under review
TNSB22	Residential wood fuelled heaters <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB22-residential-wood-fuelled-heaters.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB22-residential-wood-fuelled-heaters.pdf</a>	July 2019
TNSB23	Sustainability of biomass fuels <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB23-Sustainability-of-biomass-fuels.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB23-Sustainability-of-biomass-fuels.pdf</a>	July 2019
TNSB24	Woody biomass fuel drying for forced drying options <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB24-Woody-biomass-fuel-drying-for-forced-drying-options.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB24-Woody-biomass-fuel-drying-for-forced-drying-options.pdf</a>	July 2019

TNSB25	Safe operation of wood fuelled heat plant <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB25-safe-operation-of-wood-fuelled-heat-plant.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB25-safe-operation-of-wood-fuelled-heat-plant.pdf</a>	July 2019
TNSB26	Wood Energy South case studies <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB26-Wood-Energy-South-Case-Studies.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB26-Wood-Energy-South-Case-Studies.pdf</a>	July 2019
TNSB27	Wood Energy short training courses <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB27-Wood-Energy-short-training-courses.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB27-Wood-Energy-short-training-courses.pdf</a>	July 2019
TNSB28	International wood pellet standard ISO 17225 <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB28-International-wood-pellet-standard-ISO17225.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB28-International-wood-pellet-standard-ISO17225.pdf</a>	July 2019
TNSB29	Combustion of herbaceous biofuel	Under review
TNSB30	Combustion of organic waste <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB30-Combustion-of-waste-biomass.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB30-Combustion-of-waste-biomass.pdf</a>	July 2019
TNSB31	Farm forestry source of biomass	Under review
TNSB32	Solid biofuel standards (ISO-TC238) <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB32-Solid-biofuel-standards-ISO-TC238.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB32-Solid-biofuel-standards-ISO-TC238.pdf</a>	July 2019
TNSB33	Programme of Wood energy activities	Under review
TNSB34	Torrefaction of biomass to produce biofuel	Under review
TNSB35	Wood Energy Advisors Registration Scheme <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB35-Wood-Energy-Advisors-Registration-Scheme.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB35-Wood-Energy-Advisors-Registration-Scheme.pdf</a>	July 2019
TNSB36	Register of wood energy advisors <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB36-Register-of-wood-energy-advisors.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB36-Register-of-wood-energy-advisors.pdf</a>	July 2019
TNSB37	Biomass fuelled combustion technology <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB37-Biomass-fuelled-combustion-technology.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB37-Biomass-fuelled-combustion-technology.pdf</a>	July 2019
TNSB38	Dangers of using CO2 to quench wood pellet silo fires <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB38-Dangers-of-using-CO2-to-quench-woodpellet-silo-fires.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB38-Dangers-of-using-CO2-to-quench-woodpellet-silo-fires.pdf</a>	July 2019
TNSB39	Combustible dust mitigation and control <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB39-Combustible-dust-mitigation-and-control.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB39-Combustible-dust-mitigation-and-control.pdf</a>	May 2020

TNSB40	Dust collection and suppression systems <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB40-Dust-collection-and-suppression-systems.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB40-Dust-collection-and-suppression-systems.pdf</a>	July 2019
TNSB41	Co-firing biomass with coal <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB41-Co-firing-wood-with-coal.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB41-Co-firing-wood-with-coal.pdf</a>	July 2019
TNSB42	Combustible gas dryer systems hazards and best practices <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB42-Combustible-gas-dryer-systems-hazards-best-practices.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB42-Combustible-gas-dryer-systems-hazards-best-practices.pdf</a>	July 2019
TNSB43	Wood dust explosion suppression case studies <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB43-Wood-dust-explosion-suppression-case-studies.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB43-Wood-dust-explosion-suppression-case-studies.pdf</a>	July 2019
TNSB44	Thermal treatment of waste <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB44-Thermal-treatment-of-waste.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB44-Thermal-treatment-of-waste.pdf</a>	May 2020
TNSB45	Maize residues as a source of energy <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB45-Maize-residues-as-a-source-of-energy.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB45-Maize-residues-as-a-source-of-energy.pdf</a>	August 2019
TNSB46	Best practice for confined space entry <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB46-confined-space-entry.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB46-confined-space-entry.pdf</a>	February 2020
TNSB47	Value added from using wood residues <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB47-Value-added-from-using-wood-residues.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB47-Value-added-from-using-wood-residues.pdf</a>	May 2020
TNSB48	Wood fuel supply contract - price escalation <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB48-price-escalation.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB48-price-escalation.pdf</a>	May 2020
TNSB49	Best practices for managing wood fibre storage and combustible dust <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB49-managing-wood-fibre-storage.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB49-managing-wood-fibre-storage.pdf</a>	May 2020
TNSB50	Risk assessment – the first step to controlling combustible dust hazards <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB50-Risk-assessment.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB50-Risk-assessment.pdf</a>	May 2020
TNSB51	Safe biomass driers <a href="http://www.usewoodfuel.org.nz/documents/admin/TNSB51-Safe-biomass-driers.pdf">www.usewoodfuel.org.nz/documents/admin/TNSB51-Safe-biomass-driers.pdf</a>	May 2020