

National Workshop Agreement NWA 4:2009

# Wood fuel quality assurance -Requirements

© NSAI 2009

No copying without NSAI permission except as permitted by copyright law.

## NWA 4:2009

Incorporating amendments/corrige	enda issued since publication:			
This document replaces:	This document is based on: NWA 4:2009	Publisl	ned:	
This document was published under the authority of the NSAI and comes into effect on: 22 September, 2009			ICS number:	
Northwood, Santry F +35 Dublin 9 E sta	Sales: 53 1 807 3800 T +353 1 85 53 1 807 3838 F +353 1 85 andards@nsai.ie W standard SAl.ie	7 6729	Price Code: F	
Údarás um Chaighdeáin Náisiúnta na hÉireann				

#### Contents Page Foreword ......2 Introduction......3 1 Scope......4 2 Normative and informative references......5 2.1 Normative references 5 22 3 Terms and definitions ......6 4.1 Policy......7 Sourcing......7 4.2 4.3 Quality control ......8 4.3.1 General .......8 4.3.2 Sampling and testing of product ......8 Handling, storage and transportation ......9 4.3.3 Management review ......9 4.3.4 4.3.5 Record keeping......10 4.4 Customer interface.......10 4.4.1 General ......10 4.4.2 Packaging.......10 4.4.3 Delivery......11 4.4.4 Complaints and feedback......11 Annex A (normative) Firewood.......12 Annex B (normative) Wood pellets and wood briquettes......13

Annex C (normative) Wood chips .......15

#### NWA 4:2009

#### **Foreword**

This National Workshop Agreement (NWA) was developed and approved by an NSAI workshop. It reflects the consensus of the individuals listed below to whom NSAI is indebted for their contribution.

- Pearse Buckley, Sustainable Energy Ireland
- Tadhg Dooley, Forestry Services
- Larry Doyle, DPellet
- Richard Hadfield, NSAI Certification
- Mark Hanley, Irish Wood Chipping Services
- Patrick Hayes, NSAI Standards
- Eugene Hendrick, COFORD
- Vicky Heslop, Irish Bioenergy Association
- Christine Hutton, Rural Generation
- Tom Kent, Waterford Institute of Technology
- Pieter Kofman, Wood Energy Advisor to COFORD, Danish Forestry Extension
- Charley Matscheoinig, Timberpro
- Gilbert McCormack, Smartheat
- Carina Mount Charles, Irish Bioenergy Association
- Pat Murphy, Smartheat
- John O'Brien, EcoWood
- Mark Tarleton, Forest Fuels
- Mike Wilson, Sustainable Energy Ireland

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this National Workshop Agreement does not of itself confer immunity from legal obligations.

#### Introduction

This document describes the quality assurance requirements for wood fuel to be placed on the market.

The need for this NWA was identified at a wood fuel quality workshop on 21<sup>st</sup> January 2009 by wood fuel suppliers. There was unanimous agreement that Ireland required a wood fuel quality assurance scheme to inspire customer confidence and promote market growth.

Although there are existing standards for testing wood fuels, there is a limited cohesive structure for the use of these testing standards. This NWA aims to establish the:

- · country of origin of wood fuel;
- sustainability of the wood fuel; and
- branding of wood fuels to show conformity with the requirements of this NWA.

The types of wood fuels have been divided into three main categories:

- Firewood and logs;
- · Wood pellets and wood briquettes; and
- · Wood chips.

The NWA contains general requirements for wood fuel and, in dedicated annexes, minimum testing and specific requirements related to the three main categories.

This NWA can be used for certification as a stand-alone document. However, integration with other international management system standards (such as ISO 9001 or ISO 14001) is encouraged.

#### NWA 4:2009

### 1 Scope

This National Workshop Agreement (NWA) specifies quality assurance requirements for the following wood fuel types:

- firewood and logs;
- · wood pellets and wood briquettes; and
- wood chips.

This NWA covers wood fuels produced from woody biomass derived from the sources shown in Table 1.

Wood fuels produced from used wood are outside the scope of this National Workshop Agreement.

Table 1 — Sources of solid biofuels

		1.1.1 Whole trees without roots	1.1.1.1 Deciduous	
	Time will a dead will lead to the	1.1.1.2 Coniferous		
		1.1.1.3 Short rotation coppice		
		1.1.1.4 Bushes		
		440 William 20	1.1.1.5 Blends and mixtures	
		1.1.2 Whole trees with roots	1.1.2.1 Deciduous	
1.1 Forest, plantation and other virgin wood			1.1.2.2 Coniferous	
			1.1.2.3 Short rotation coppice	
	1.1 Forest plantation and		1.1.2.4 Bushes	
	·		1.1.2.5 Blends and mixtures	
	1.1.3 Stemwood	1.1.3.1 Deciduous		
		1.1.3.2 Coniferous		
		1.1.3.3 Blends and mixtures		
1. Woody biomass		1.1.4 Logging residues	1.1.4.1 Fresh/Green, Deciduous (including leaves)	
1.2 By-products and residues from wood processing industry		1.1.4.2 Fresh/Green, Coniferous (including needles)		
		1.1.4.3 Stored, Deciduous		
			1.1.4.4 Stored, Coniferous	
			1.1.4.5 Blends and mixtures	
		1.1.5 Stumps/roots	1.1.5.1 Deciduous	
			1.1.5.2 Coniferous	
			1.1.5.3 Short rotation coppice	
			1.1.5.4 Bushes	
			1.1.5.5 Blends and mixtures	
		1.1.6 Bark (from forestry operations)		
		1.1.7 Segregated wood from gardens, parks, roadside maintenance, vineyards and fruit orchards		
	1.2.1 Chemically untreated wood residues	1.2.1.1 Without bark, Deciduous		
		1.2.1.2 Without bark, Coniferous		
			1.2.1.3 With bark, Deciduous	
			1.2.1.4 With bark, Coniferous	
			1.2.1.5 Bark (from industry operations)	



The ic a nee previous i arenace are chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

**Product Page** 

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation