



BSI Standards Publication

Sustainability criteria for the production of biofuels and bioliquids for energy applications — Principles, criteria, indicators and verifiers

Part 2: Conformity assessment including chain of custody and mass balance

National foreword

This Published Document is the UK implementation of CEN/TS 16214-2:2020. It supersedes PD CEN/TS 16214-2:2014, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PTI/20, Sustainability of bioenergy.

A list of organizations represented on this committee can be obtained on request to its secretary.

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

© The British Standards Institution 2020
Published by BSI Standards Limited 2020

ISBN 978 0 539 01908 7

ICS 27.190; 75.160.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 October 2020.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN/TS 16214-2

September 2020

ICS 75.160.40; 27.190

Supersedes CEN/TS 16214-2:2014

English Version

**Sustainability criteria for the production of biofuels and
bioliquids for energy applications - Principles, criteria,
indicators and verifiers - Part 2: Conformity assessment
including chain of custody and mass balance**

Critères de durabilité pour la production de
biocarburants et de bioliquides pour des applications
énergétiques - Principes, critères, indicateurs et
vérificateurs - Partie 2: évaluation de la conformité,
incluant chaîne de surveillance et bilan massique

Nachhaltigkeitskriterien für die Herstellung von
Biokraftstoffen und flüssigen Biobrennstoffen für
Energieanwendungen - Grundsätze, Kriterien,
Indikatoren und Prüfer - Teil 2:
Konformitätsbewertung einschließlich überwachter
Lieferkette und Massenbilanz

This Technical Specification (CEN/TS) was approved by CEN on 17 August 2020 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents		Page
European foreword		3
Introduction		4
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Principle	7
5	Requirements for conformity assessment	7
5.1	Basic elements	7
5.2	Requirements for sustainability	8
5.3	Requirements for economic operators	9
5.4	Competence of conformity assessment bodies	9
5.5	Requirements for the conformity assessment process	9
5.5.1	General requirements	9
5.5.2	Conformity assessment process	9
6	Requirements for chain of custody control – mass balance method	10
6.1	Basic elements for application of the mass balance method	10
6.2	Product declaration – Identification of compliant consignment	11
6.3	Management system requirements	12
6.3.1	General	12
6.3.2	Commitment	12
6.3.3	Responsibilities and authorities	12
6.3.4	Documentation	12
6.3.5	Records	13
Annex A (informative) Examples of conformity assessments procedures		14
Annex B (informative) Checklists		15
B.1	Initial audit (focus on management system)	15
B.2	Surveillance audit (focus on data verification)	16
Annex C (informative) Example of use of self-declaration documents in a group-auditing scheme		18
Annex D (informative) Example of use of conformity of specific consignments		20
Annex E (informative) Example of mass balance		22
Annex F (informative) Examples for GHG balance		26
Annex G (informative) Example of product declaration		29
Annex H (informative) Relationship between this document and the Essential Requirements of EU Directives 2009/28/EC and 98/70/EC, amended by Directive 2015/1513		30
Bibliography		34

European foreword

This document (CEN/TS 16214-2:2020) has been prepared by Technical Committee CEN/TC 383 “Sustainably produced biomass for energy applications”, the secretariat of which is held by NEN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN/TS 16214-2:2014.

It has been aligned with amended regulations [3].

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

Directive 2009/28/EC of the European Commission on the promotion of the use of energy from renewable sources, referred to as the Renewable Energy Directive (RED, [1]), incorporates an advanced binding sustainability scheme for biofuels and bioliquids for the European market. The RED contains binding sustainability criteria for greenhouse gas savings, land with high biodiversity value, land with high carbon stock and agro-environmental practices. Several articles in the RED present requirements to European Member States and to economic operators in Europe. Non-EU countries may have different requirements and criteria on, for instance, the GHG emission reduction set-off in the framework of their own national legislation.

The sustainability criteria for biofuels are also mandated in Directive 98/70/EC relating to the quality of petrol and diesel fuels [2], via the amending Directive 2009/30/EC (as regards the specification of petrol, diesel and gas-oil and introducing a mechanism to monitor and reduce greenhouse gas emissions, [43]). Directive 98/70/EC is referred to as the Fuels Quality Directive (FQD).

Directive 2015/1513 [3], referred to as the ILUC Directive, amends both the RED and the FQD.

Created in 2008, CEN/TC 383 initiated the elaboration of a standardization programme on sustainability criteria for biomass for energy application. After being contacted by CEN, the European Commission in return in May 2009 formally wrote to request CEN to work on standard(s) on:

- the implementation of the mass balance method of custody chain management;
- the provisions of evidence that the production of raw material has not interfered with nature protection purpose;
- the auditing by member states and by voluntary schemes using them of the information submitted by economic operators.

Both the EC and CEN agreed that these may play a role in the implementation of the EU biofuel and bioliquid sustainability scheme. In the Communication from the Commission on the practical implementation of the EU biofuels and bioliquids sustainability scheme and on counting rules for biofuels (2010/C 160/02, [54]), awareness of the CEN work is indicated.

It is widely accepted that sustainability at large encompasses environmental, social and economic aspects. The European Directives make mandatory the compliance of several sustainability criteria for biofuels and bioliquids. This European Standard has been developed with the aim to assist EU Member States and economic operators with the implementation of EU biofuel and bioliquids sustainability requirements mandated by the European Directives. This document is limited to certain aspects relevant for a sustainability assessment of biomass produced for energy applications. Therefore compliance with parts of CEN/TS 16214 or parts of EN 16214 alone does not substantiate claims of the biomass being produced sustainably.

This document defines requirements for the verification of compliance with the sustainability criteria for biofuels and bioliquids, in accordance with legal requirements, such as in Article 18 of the RED [1]. In particular, this document defines requirements for an adequate standard of independent auditing of the information submitted by economic operators (Clause 5), and the implementation by economic operators, of the mass balance method of chain of custody control (Clause 6).

This document is a tool that can be used as part of voluntary schemes, national systems or bilateral agreements.

This document defines requirements for a mass balance system which:

- a) allows consignments of raw material or biofuel or bioliquids with differing sustainability characteristics to be mixed;
- b) requires information about the sustainability characteristics and sizes of the consignments referred to in a) to remain assigned to the mixture; and
- c) provides for the sum of all consignments withdrawn from the mixture to be described as having the same sustainability characteristics, in the same quantities, as the sum of all consignments added to the mixture.

Each economic operator in the chain of custody is responsible for the data supplied in the product declarations submitted to the next economic operator as detailed in 5.1. The validity of these declarations is assessed through conformity assessment procedures carried out as described in Clause 5 of this document.

Where applicable, the different parts of CEN/TS 16214 and EN 16214 contain at the end an annex that informs the user of the link between the requirements in the European Directive and the requirements in the CEN Standard.

1 Scope

This document specifies a set of rules and procedures as a framework for conformity assessment describing biofuels and bioliquids as the objects of conformity assessment, identifying the applicable specified requirements and providing the methodology for performing conformity assessment. It (this set of rules and procedures) defines requirements for provision by economic operators of the required evidence that biofuels and bioliquids fulfil the sustainability criteria as defined in the Renewable Energy Directive [1] and in Directive 2015/1513 [3]. This document is applicable to the initial biomass production or to the point of collection for waste and residue and to each stage within the chain of custody. It also defines requirements on conformity assessment bodies when checking compliance with the present standard.

NOTE 1 This edition of the standard does not cover the requirements in Directive 2018/EU/2001, the recast of the Renewable Energy Directive (referred to as RED II).

NOTE 2 An example of supply chain of biofuels and bioliquids to be covered by the chain of custody is given in Figure 1. This supply chain is a simple representation, actual supply chains are typically more complex.

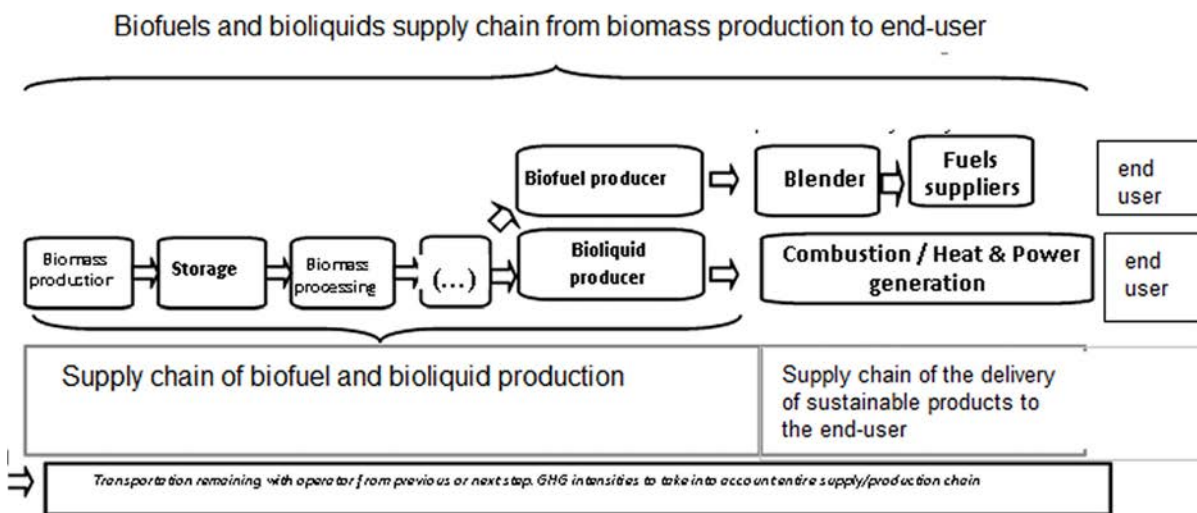


Figure 1 — Example of a supply chain of biofuels and bioliquids

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 16214-1:2012, *Sustainability criteria for the production of biofuels and bioliquids for energy applications - Principles, criteria, indicators and verifiers - Part 1: Terminology*

EN 16214-3, *Sustainability criteria for the production of biofuels and bioliquids for energy applications – Principles, criteria, indicators and verifiers – Part 3: Biodiversity and environmental aspects related to nature protection purposes*

EN 16214-4, *Sustainability criteria for the production of biofuels and bioliquids for energy applications - Principles, criteria, indicators and verifiers - Part 4: Calculation methods of the greenhouse gas emission balance using a life cycle analysis approach*