ICS 27.190 SLOVENSKÁ TECHNICKÁ NORMA Február 2025

STN	**Kritériá trvalej udržateľnosti a úspory emisií skleníkových plynov pre biomasu na energetické účely Princípy, kritériá, indikátory a overovatelia Časť 3: Kritériá trvalej udržateľnosti týkajúce sa environmentálnych aspektov**	**STN EN 16214-3** 83 9501

Sustainability and greenhouse gas emission saving criteria for biomass for energy applications - Principles, criteria, indicators and verifiers - Part 3: Sustainability criteria related to environmental aspects

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/25

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Oznámením tejto normy sa ruší
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English Version

Sustainability and greenhouse gas emission saving criteria for biomass for energy applications - Principles, criteria, indicators and verifiers - Part 3: Sustainability criteria related to environmental aspects

Critères de durabilité et de réduction des émissions de gaz à effet de serre applicables à la biomasse pour applications énergétiques - Principes, critères, indicateurs et vérificateurs - Partie 3 : Critères de durabilité liés aux aspects environnementaux

Nachhaltigkeitskriterien für die Herstellung von Biokraftstoffen und flüssigen Biobrennstoffen für Energieanwendungen - Grundsätze, Kriterien, Indikatoren und Prüfer - Teil 3: Biodiversität und Umweltaspekte im Zusammenhang mit Naturschutzzwecken

This European Standard was approved by CEN on 21 May 2023.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

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European foreword

This document (EN 16214-3:2024) has been prepared by Technical Committee CEN/TC 383 “Sustainably produced biomass for energy applications”, the secretariat of which is held by SFS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2025, and conflicting national standards shall be withdrawn at the latest by May 2025.

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 EN 16214-3:2012+A1:2017.

The main changes compared to the previous edition are listed below:

In order to adapt the current edition to the sustainability criteria of European Commission Directive 2018/EU/2001, the recast of the Renewable Energy Directive (RED II), some sustainability criteria have been introduced and some reformulated. In particular, the RED II introduces sustainability for forest biomass and the directive has also been extended to include solid biomass.

At the time of publication of this document, Part 1 and Part 3 of the standard series have been updated in accordance with RED II, while Part 2 and Part 4 have not been updated and thus follow European Commission Directive 2009/28/EC (RED).

The EN / CEN/TS 16214 series is comprised of the following parts:

— EN 16214-1, *Sustainability and greenhouse gas emission saving criteria for biomass for energy applications — Principles, criteria, indicators and verifiers — Part 1: Terminology*;

— CEN/TS 16214-2, *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*;

— EN 16214-3, *Sustainability and greenhouse gas emission saving criteria for biomass for energy applications — Principles, criteria, indicators and verifiers — Part 3: Sustainability criteria related to environmental aspects*;

— 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*.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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, Türkiye and the United Kingdom.

Introduction

In December 2018, the recast Renewable Energy Directive 2018/2001/EU (RED II) entered into force, as part of the Clean energy for all Europeans package, helping the EU to meet its emissions reduction commitments under the Paris Agreement. In RED II, the overall EU target for Renewable Energy Sources consumption by 2030 has been raised to 32 %.

The RED II specifies a series of sustainability and greenhouse gas emission savings criteria that biomass for energy applications must comply with to be eligible for financial support by public authorities. Some of these criteria are the same as in the original RED, while others are new or reformulated. In particular, the RED II introduces sustainability criteria for forestry feedstocks as well as greenhouse gas emission savings criteria for solid and gaseous biomass fuels.

It is widely accepted that sustainability at large encompasses environmental, social and economic aspects. However, this standard series only covers a selection of environmental aspects since the standard series has been developed with the aim to assist EU Member States and economic operators with the implementation of RED II. This standard series is therefore limited to certain aspects relevant for a sustainability assessment of biomass produced for energy applications. This means that compliance with this standard series (or parts thereof) alone does not substantiate claims of the biomass being produced sustainably.

There is a limited set of environmental aspects for biomass produced from agriculture and from forestry, which are covered by criteria in RED II, in article 29. There are, of course, many more sustainability issues that can be relevant to assess for general biomass production, including in agriculture and forestry. In cases where further advice is desired, ISO 13065 *Sustainability criteria for bioenergy,* may be a relevant standard to consult as it provides a framework for considering environmental, social, and economic aspects that can be used to facilitate the evaluation and comparability of bioenergy production and products, supply chains and applications.

Biomass can originate from various sources, as seen in Figure 1. This document covers agricultural biomass and forest biomass, as these sources have sustainability criteria requirements laid down in RED II. The sustainability criteria of RED II are connected to agricultural and forest land.

Biomass from aquaculture and fisheries or from other land types such as gardens, parks, industrial or infrastructural land as well as the biodegradable fraction of waste, e.g. from forest industry or municipal waste, are outside the scope of this document.

However, most of the biomass types are covered by greenhouse gas emission savings requirements in RED II. Greenhouse gas emission savings requirements are dealt with in Part 4 of this standard series. Traceability is dealt with in Part 2. When this document was published, Part 1 and Part 3 of the standard series have been updated in accordance with RED II, while Part 2 and Part 4 have not been updated and thus follow European Commission Directive 2009/28/EC (RED).

The sustainability and greenhouse gas emission savings criteria must be met in order for the biomass to be counted towards the overall target for renewable energy and to be eligible for financial support by public authorities.

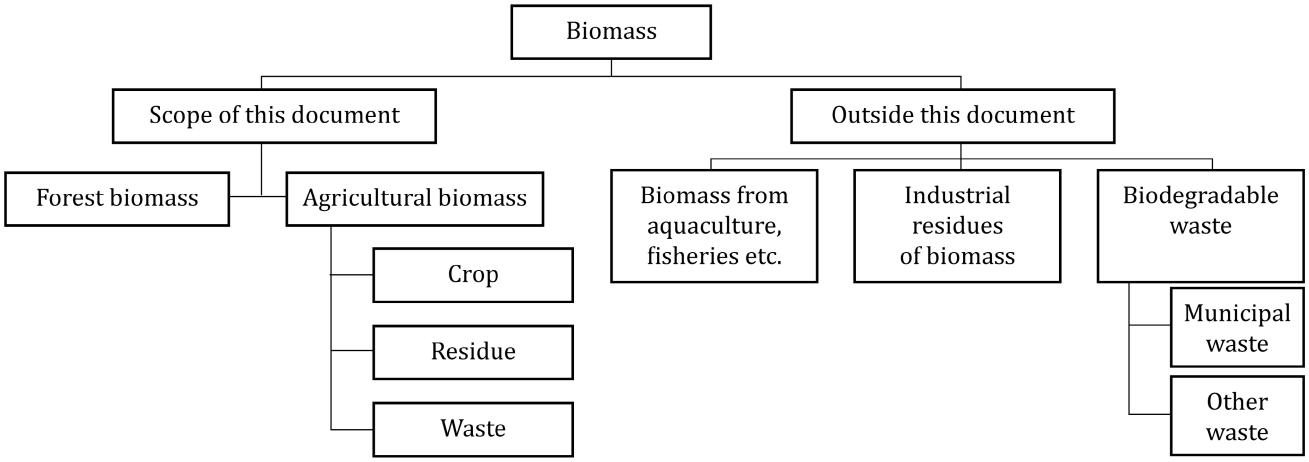

Figure 1 — An illustrative flowchart for different types of biomass

1 Scope

This document specifies procedures, criteria and indicators meeting the sustainability criteria of European Commission Directive 2018/EU/2001 (RED II), the recast of the Renewable Energy Directive, for agricultural biomass and forest biomass for energy applications, i.e. biofuels, bioliquids and biomass fuels. This document is applicable to production, cultivation and harvesting of biomass from agricultural land and forest land for biofuels, bioliquids and biomass fuel production.

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 16214-1:2024, *Sustainability and greenhouse gas emission saving criteria for biomass for energy applications - Principles, criteria, indicators and verifiers - Part 1: Terminology*