

How does international management standards support biodiversity? Website version June 2022

This document sets out how international management standards support biodiversity and the proposed development on biodiversity under ISO TC331 and how these standards and developments supports the biodiversity aims in the EC Green Deal.

The document will be reviewed by the end of 2025.

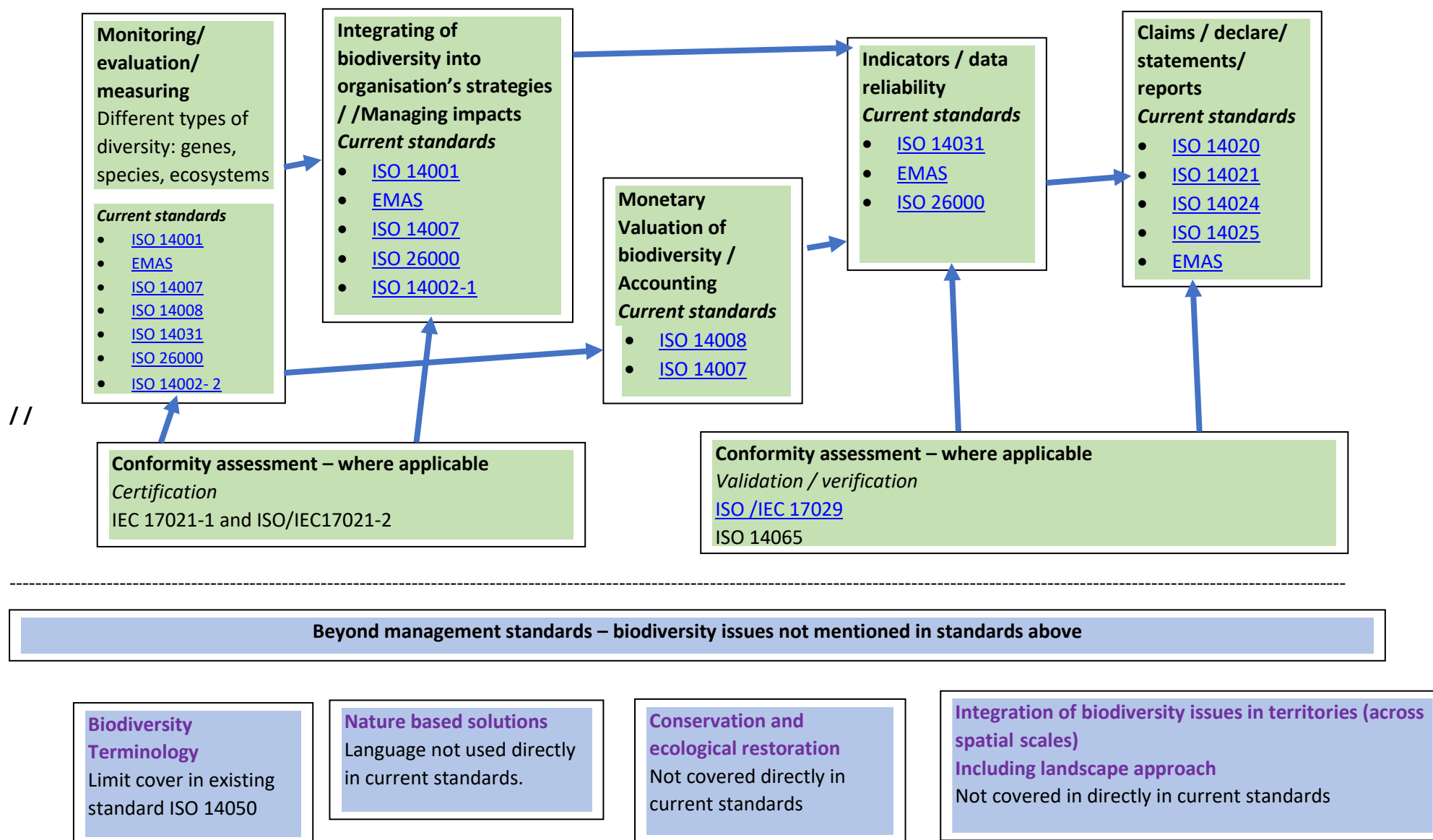
In this document are the following:

1. **Material related to existing international management standards and EMAS**
 - a. **A diagram.**
 - b. **Standard description table** to provide additional information.
 - c. **Evaluation framework** – the heading that reflects the axis that have been used in ISO TC 331 to indicate potential work.

2. **Material related to proposed new technical standards under ISO TC331 Biodiversity**
 - a. **An outline of the elements of a diagram**
 - b. **Standard description table** as prepared from TC331 material.
 - c. **Evaluation framework** – the heading of which were amended 31 May 2021 to better align with TC331 axis

The document was developed by a small adhoc group under CEN/CLC SABE (which included participation of ISO TC 331 Biodiversity leadership) and approved by SABE in Sept 2021

Existing international management standards and EMAS diagram¹



¹ based on information in evaluation framework below – links each standard to table 1

Table 1 - Existing international management standards and EMAS – summary and description on how they support biodiversity.

Existing Management standards	How standard support biodiversity as envisaged in Green Deal (based on information as of 11 Dec 2019)
European / ISO standards	
ISO EN 14001 Environmental Management Systems -Requirements with Guidance for use	<p>Definition – environment includes biodiversity as does environmental condition</p> <p>Clause 4.1 includes requirement to “...environmental conditions being affected by or capable of affecting the organization” This includes biodiversity, ecosystem services etc.</p> <p>Clause 5.2 includes the need ‘to protect environment’ which given the definition of environment includes biodiversity and ecosystem service.</p> <p>Clause 6.1.2 requires identification of environmental aspects and impacts which because of reference to life cycle perspective plus definition of environment plus clause 4.1 includes biodiversity and ecosystem services.</p>
EMAS – Eco Management and Audit Regulation (EU) 2017/1505	In addition to the inclusion of ISO EN 14001 EMAS also has specific requirements and language related to biodiversity including in the environmental review, core indicators etc
ISO EN 14002-1 Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area — Part 1: General	<p>This document gives general guidelines for organizations seeking to systematically manage environmental aspects or respond to the effects of changing environmental conditions within one or more environmental topic areas, based on ISO 14001.</p> <p>This document also constitutes a framework for common elements of subsequent parts of the ISO 14002 series.</p> <p>It is linked to SO EN 14001 and hence summary on inclusion of biodiversity as set out above apply to this standard as well</p>
ISO EN 14007 Environmental Management — Guidelines for Determining Environmental Costs and Benefits	<p>Good practice in assessing ecosystem services and natural capital. Uses ISO 14001 terms and definitions.</p> <p>Gives guidance for businesses to make an environmental cost benefit determination in relation to various types of decision making. Includes the concept of "dependencies", the dependent relationship businesses have of functional ecosystems and hence biodiversity.</p>
ISO EN 14008 Monetary Valuation of Environmental Impacts and Related Environmental Aspects	Evaluates ecosystems services and natural capital – the standard gives requirements and guidelines and proposes a set of monetary valuation methods to put a value on environmental impacts or aspects or cost of environmental degradation. This includes social costs.

Existing Management standards	How standard support biodiversity as envisaged in Green Deal (based on information as of 11 Dec 2019)
EN ISO 14031 Environmental Management — Environmental Performance Evaluation — Guidelines	This standard / guidance is about environmental performance and as it reflects ISO EN 14001 it includes biodiversity and ecosystem services. account. Biodiversity appears in examples in the document as an aspect when developing indicators.
EN ISO 14040 Life Cycle Assessment (LCA) Principles and Framework And EN ISO 14044 LCA Requirements and guidelines	Standard includes biodiversity in impact categories in language such as eutrophication, depletion of abiotic resources, marine aquatic eco-toxicity. Users of the standard set the boundaries and scope of the LCA which may or may not include biodiversity or eco-system service.
ISO EN 14020 Environmental labels and declarations — General principles	Currently under revisions This International Standard establishes guiding principles for the development and use of environmental labels and declarations. It is intended that other applicable standards in the ISO 14020 series be used in conjunction with this International Standard. This International Standard is not intended for use as a specification for certification and registration purposes.
EN ISO 14021 Environmental labels and declarations – Self declared environmental claims (Type II environmental labelling)	ISO 14021:2016 specifies requirements for self-declared environmental claims , including statements, symbols, and graphics, regarding products. It further describes selected terms commonly used in environmental claims and gives qualifications for their use. This International Standard also describes a general evaluation and verification methodology for self-declared environmental claims and specific evaluation and verification methods for the selected claims in this International Standard. There is no direct link to biodiversity

Existing Management standards	How standard support biodiversity as envisaged in Green Deal (based on information as of 11 Dec 2019)
<p>ISO EN 14024 <i>Environmental labels and declarations — Type I environmental labelling — Principles and procedures</i></p>	<p>ISO 14024:2018 establishes the principles and procedures for developing Type I environmental labelling programmes, including the selection of product categories, product environmental criteria and product function characteristics, and for assessing and demonstrating compliance.</p> <p>ISO 14024:2018 also establishes the certification procedures for awarding the label.</p> <p>This is the support standard for EU ecolabel</p> <p>It does not specify what should be included in a programme in terms of what should be included on the label</p>
<p>ISO EN 14025 - Environmental labels and declarations — Type III environmental declarations</p>	<p>Type III environmental declarations as described in ISO 14025:2006 are primarily intended for use in business-to-business communication, but their use in business-to-consumer communication under certain conditions is not precluded.</p> <p>ISO 14025:2006 establishes the principles and specifies the procedures for developing Type III environmental declaration programmes and Type III environmental declarations. It specifically establishes the use of the ISO 14040 series of standards in the development of Type III environmental declaration programmes and Type III environmental declarations.</p> <p>ISO 14025:2006 establishes principles for the use of environmental information, in addition to those given in ISO 14020:2000</p>
<p>EN ISO 14015 <i>Environmental management — Environmental Due Diligence Assessment</i></p>	<p>There is currently nothing on biodiversity, but the standard is under revision and it is possible that they will include issues relating to biodiversity</p>
<p>ISO 14002- series</p>	<p>The ISO 14002 series are add-on standards on specific aspect to ISO 14001. Next plans include water (under development) and then</p>

Existing Management standards	How standard support biodiversity as envisaged in Green Deal (based on information as of 11 Dec 2019)
ISO 26000 Guidance on social responsibility	Biodiversity and restoration of damaged nature, along with sustainable use of resources are dealt with under the chapter on how an organization should handle its environmental aspects The proposal by AFNOR to set up an ISO TC on Social responsibility (out for ballot until July) includes the plan to revise ISO 26000
EN ISO 13065 Sustainability criteria for bioenergy	Specifies principles, criteria, and indicators for the bioenergy supply chain to facilitate assessment of environmental, social, and economic aspects of sustainability. Includes principles, criteria, and several indicators on biodiversity as well as an informative annex on guidance related to biodiversity indicators.
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	Defines procedures, criteria, and indicators to provide the required evidence for: — production of raw material in areas for nature protection purposes. — harvesting of raw material from non-natural highly biodiverse grasslands"; and — cultivation and harvesting on peatland
EN IEC 62430 Environmental conscious design (ECD)	Standard that gives requirements and guidelines on ECD applicable for all sectors and organizations. By working with ecodesign/ECD, resource-efficiency and effectiveness is achieved in a higher level, indirectly leading to less pressure on natural habitats and biodiversity. See also EN ISO 14006: 2020 Guidelines for incorporating Eco-design
Norwegian standard – NS 9452 Collection of environmental data – Influencing factors on Norwegian natural diversity and cultural environment	For planning organisational activities – identifying potential impacts on biodiversity because of organisational activities. Used directly in conjunction with European directives.
Some generic areas that are not covered above	
Verification to biodiversity standards.	

Existing Management standards	How standard support biodiversity as envisaged in Green Deal (based on information as of 11 Dec 2019)
ISO IEC EN 17029 Conformity assessment General principles and requirements for validation and verification bodies	This sets generic requirements for validation and verification bodies and are supported by sector standards such as under development ISO 14065 Environmental information — Requirements for bodies validating and verifying environmental information

Table 2 - Evaluation framework for existing international management standards and EMAS

Note 1 - This table includes current standards that are within the main work of SABE EMT and CEN TC467

Note 2 - Aim is to help with diagram and act as support

Note 3 – Colour code – green fill applies, and blank does not apply.

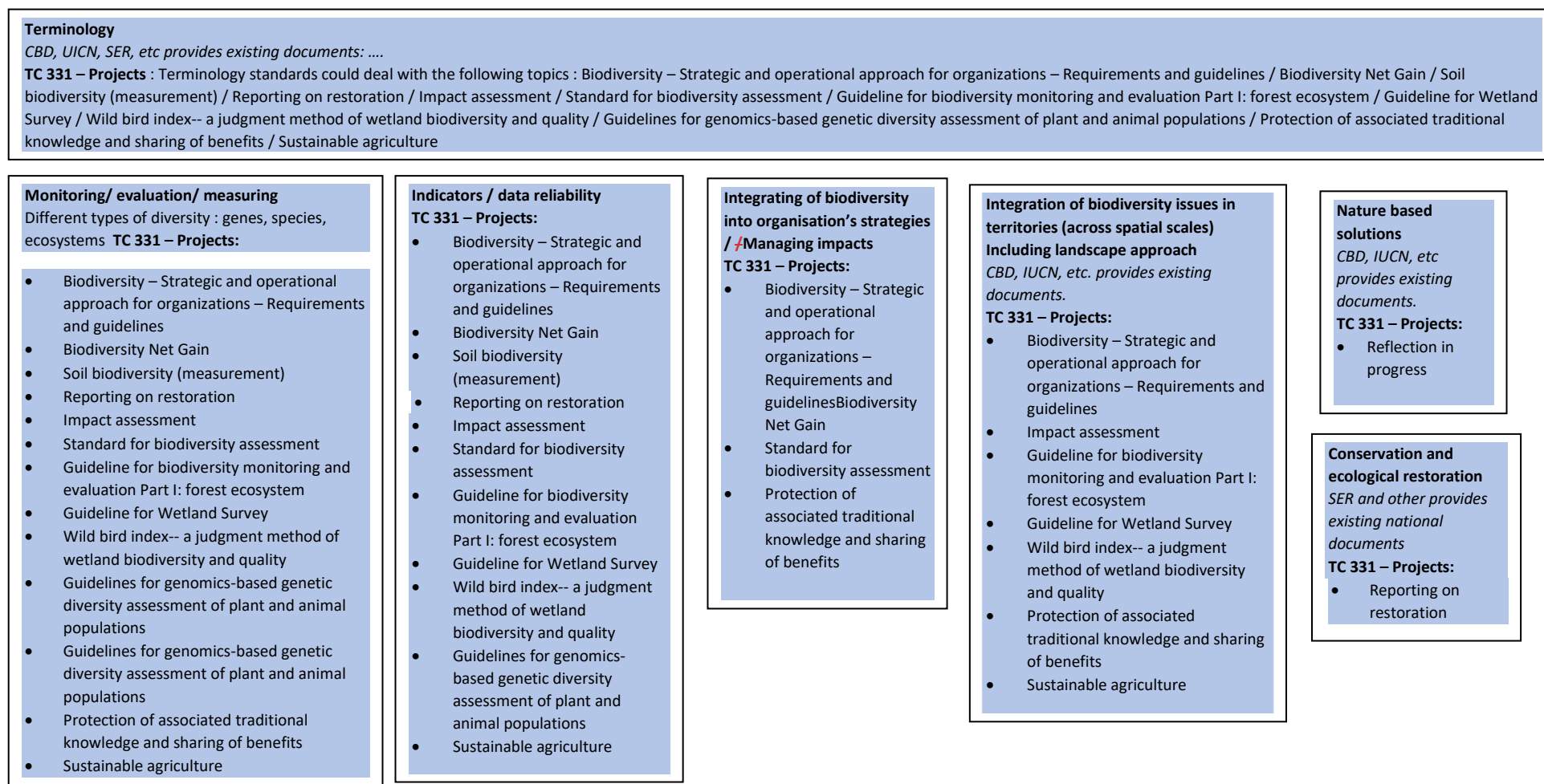
Note 3 – Description of how these standards relate to biodiversity can be found in table 1

Existing Standards	Monitoring/ evaluation/ measuring <i>Possible to include Territorial approaches</i>	Integrating into organisation / /Managing impact/ <i>Possible to include Territorial approaches.</i>	Monetary Valuation of biodiversity / Accounting	Indicators / data reliability	Claims / declare/ statements/ reports	Conformity assessment 1 st , 2 nd and 3 rd party options
ISO EN 14001 Environmental Management Systems - Requirements with Guidance for use						Certification (ISO IEC 17021-1)
EMAS – Eco Management and Audit Regulation (EU) 2017/1505						Verification under EMAS regulation
ISO EN 14002-1 Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area — Part 1: General						N/A
ISO EN 14007 Environmental Management — Guidelines for Determining						N/A

Existing Standards	Monitoring/ evaluation/ measuring <i>Possible to include Territorial approaches</i>	Integrating into organisation / /Managing impact/ <i>Possible to include Territorial approaches.</i>	Monetary Valuation of biodiversity / Accounting	Indicators / data reliability	Claims / declare/ statements/ reports	Conformity assessment 1 st , 2 nd and 3 rd party options
<u>Environmental Costs and Benefits</u>						
<u>ISO EN 14008 Monetary Valuation of Environmental Impacts and Related Environmental Aspects</u>						Possibly
<u>EN ISO 14031 Environmental Management — Environmental Performance Evaluation — Guidelines</u>						
<u>EN ISO 14040 Life Cycle Assessment (LCA) Principles and Framework</u> And <u>EN ISO 14044 LCA Requirements and guidelines</u>						ISO 14071
<u>ISO EN 14020 Environmental labels and declarations — General principles</u>						
<u>EN ISO 14021 Environmental labels and declarations – Self</u>						Self-declare so 1 st party

Existing Standards	Monitoring/ evaluation/ measuring <i>Possible to include Territorial approaches</i>	Integrating into organisation / /Managing impact/ <i>Possible to include Territorial approaches.</i>	Monetary Valuation of biodiversity / Accounting	Indicators / data reliability	Claims / declare/ statements/ reports	Conformity assessment 1 st , 2 nd and 3 rd party options
<u>declared environmental claims (Type II environmental labelling)</u>						
<u>ISO EN 14024 Environmental labels and declarations — Type I environmental labelling — Principles and procedures</u>						Eco labels
<u>ISO EN 14025 – Environmental labels and declarations — Type III environmental declarations</u>						Environmental product declarations / ISO 14065
<u>EN ISO 14015 Environmental management — Environmental Due Diligence Assessment</u>						
<u>ISO 26000 Guidance on social responsibility</u>						Not for conformity assessment as this is a guidance
<u>EN ISO 13065 Sustainability criteria for bioenergy</u>						
<u>EN 16214-3 Sustainability criteria for the production</u>						

Existing Standards	Monitoring/ evaluation/ measuring <i>Possible to include Territorial approaches</i>	Integrating into organisation / /Managing impact/ <i>Possible to include Territorial approaches.</i>	Monetary Valuation of biodiversity / Accounting	Indicators / data reliability	Claims / declare/ statements/ reports	Conformity assessment 1 st , 2 nd and 3 rd party options
<u>of biofuels and bioliquids for energy applications – principles, criteria, indicators, and verifiers – part 3: biodiversity and environmental aspects related to nature protection purposes</u>						
<u>EN IEC 62430 Environmental conscious design (ECD)</u>						

ISO TC331 - Future planned technical biodiversity standards diagram ²

² based on information in evaluation framework below link each standard to table 4 below for information

Table 3 - Future technical standards for biodiversity from ISO TC331

Future standards TC331	How standard support biodiversity as envisaged in Green Deal (based on information as of 11 Dec 2019)
<p>A new ISO/TC on Biodiversity has been created in June 2020, proposed by AFNOR to ISO : 'Standardisation in the field of biodiversity to develop requirements, principles and framework guidance and supporting tools in a holistic and global approach for all relevant organisations to enhance their contribution to Sustainable Development.' (Excludes test and measurement methods of water, soil and marine.)</p>	<ul style="list-style-type: none"> • Proposed standards: • Definition and terminology • Principles and framework • Territory approach • Case studies of specific ecosystems • Guidelines on specific issues • Data collection and exchanges

Table 4 - Evaluation framework for future technical standards under ISO TC331 biodiversity

Note 1 - this table includes future standards that are within the main work of ISO TC331

Note 2 - Aim is to help with diagram and act as support

Note 3 – colour code – blue fill applies, and blank does not apply

Future proposed technical standards in new ISO committee TC 331 Biodiversity Areas not yet finalised – to be updated as and when this changes.									
TC331 specific headlines	Terminology	Nature based solutions	Monitoring/ evaluative/ measuring	Integrating of biodiversity into organisation's strategies/ Managing impact	Integration of biodiversity issues in territories (across spatial scales)	Conservation and ecological restoration	Monetary Valuation of biodiversity / Accounting	Indicators / data reliability	Claims / declare/ statements / reports
Biodiversity – Strategic and operational approach for organizations – Requirements and guidelines									
Biodiversity Net Gain									
Soil biodiversity (measurement)									
Terminology									
Reporting on restoration									

Future proposed technical standards in new ISO committee TC 331 Biodiversity Areas not yet finalised – to be updated as and when this changes.									
TC331 specific headlines	Terminology	Nature based solutions	Monitoring/ evaluative/ measuring	Integrating of biodiversity into organisation's strategies/ Managing impact	Integration of biodiversity issues in territories (across spatial scales)	Conservation and ecological restoration	Monetary Valuation of biodiversity / Accounting	Indicators / data reliability	Claims / declare/ statements / reports
Impact assessment									
Standard for biodiversity assessment									
Guideline for biodiversity monitoring and evaluation Part I: forest ecosystem									
Guideline for Wetland Survey									
Wild bird index-- a judgment method of wetland biodiversity and quality									
Guidelines for genomics-based genetic diversity assessment of plant and animal populations									

Future proposed technical standards in new ISO committee TC 331 Biodiversity Areas not yet finalised – to be updated as and when this changes.									
TC331 specific headlines	Terminology	Nature based solutions	Monitoring/ evaluative/ measuring	Integrating of biodiversity into organisation's strategies/ Managing impact	Integration of biodiversity issues in territories (across spatial scales)	Conservation and ecological restoration	Monetary Valuation of biodiversity / Accounting	Indicators / data reliability	Claims / declare/ statements / reports
Protection of associated traditional knowledge and sharing of benefits									
Sustainable agriculture									