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**Environmental performance  
evaluation — Green debt  
instruments —**

**Part 1:  
Process for green bonds**

**iTeh STANDARD PREVIEW**  
*Évaluation de la performance environnementale — Titres de créance  
verts —*  
**(standards.iteh.ai)**  
*Partie 1: Processus pour les obligations vertes*

ISO 14030-1:2021

<https://standards.iteh.ai/catalog/standards/sist/6ca1d7ea-f38b-408c-945a-d7a8d29731f6/iso-14030-1-2021>



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Published in Switzerland

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 4, *Environmental performance evaluation*.

A list of all parts in the ISO 14030 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

Industrialization, population growth and other global trends have resulted in environmental impacts with negative societal and economic consequences. Significant financial resources are required to confront these growing challenges. One approach to enhance and promote the financing of environmental improvements has been the development of green debt instruments such as, but not limited to, green bonds. For responsible investors and other interested parties, bonds designated as “green” are used to allocate funds exclusively towards projects, assets and supporting expenditures that can result in environmental benefits such as aligning with global climate goals and conserving natural resources. Such bonds may also support investors in reducing their exposure to financial risks associated with poor environmental management. For issuers and underwriters, green bonds are an attractive financial product with growing market appeal. However, issuers’ and market participants’ definitions as to what is “green” can vary greatly and are likely to change over time, presenting challenges to the credibility and growth of the market.

This document expands on the Green Bond Principles (GBP)<sup>[13]</sup> to provide specific requirements and guidance for the designation and verification of green bonds. The objective is to provide market participants and other interested parties with a common framework for designating a bond as “green”. The intended result is to provide clarity in the marketplace and improve the credibility of bonds designated as “green”. This is achieved by setting requirements for the allocation of funds to projects, assets and supporting expenditures and reporting requirements on the results of expected impacts. Examples of environmental objectives that may be associated with financing of bonds issued in conformity with this document can be found in [5.2](#).

The following process for issuing and managing a green bond has been defined within the GBP<sup>[13]</sup>:

- a) use of proceeds;
- b) process for project evaluation and selection;
- c) management of proceeds;
- d) reporting;
- e) external review.

The objective of designating a bond as “green” is to promote investments that increase positive and reduce negative environmental impacts. Monitored environmental impacts should be specific, measurable, achievable, relevant, transparent and theoretically sound.

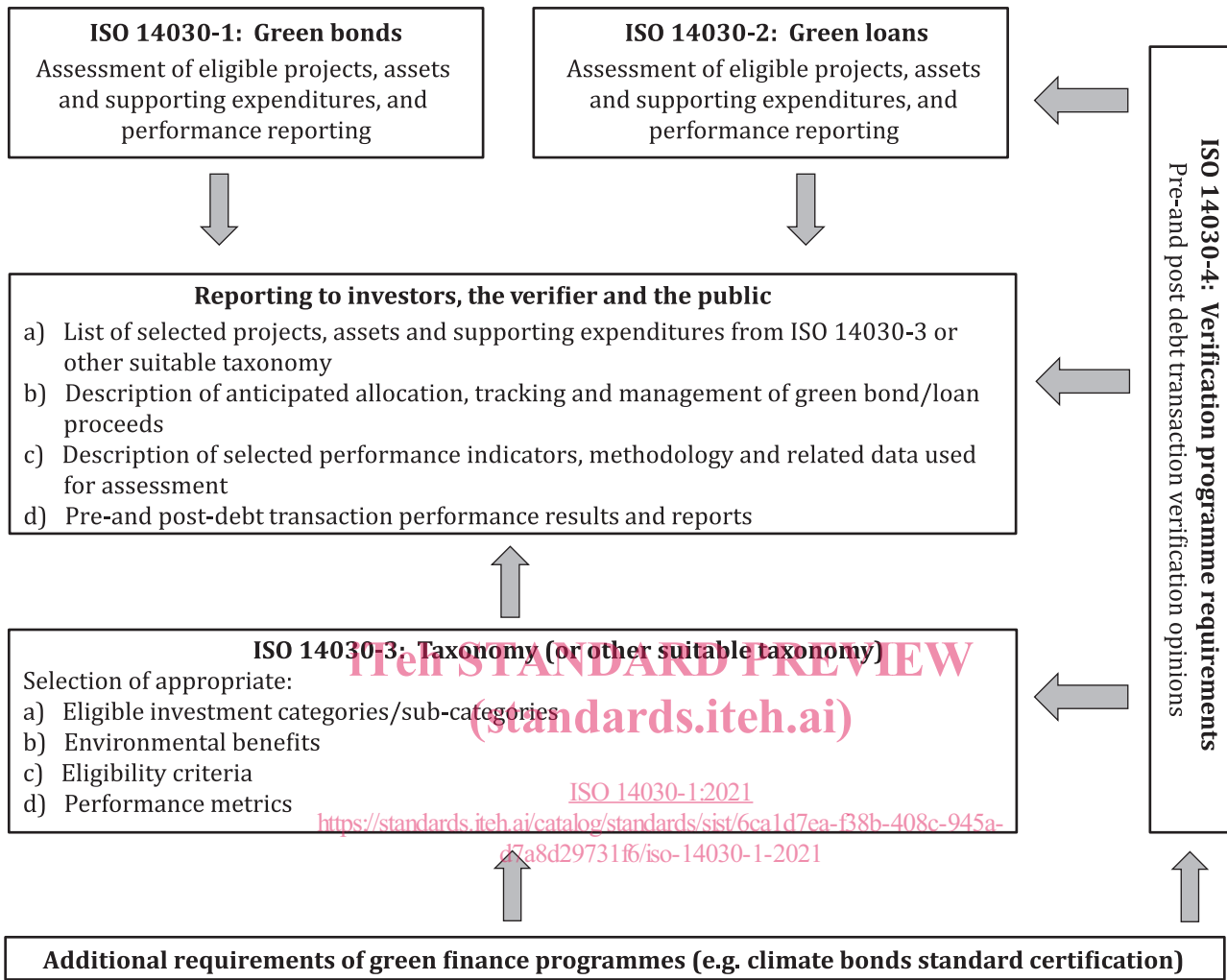
Robust information about the environmental impact or performance of projects, assets and supporting expenditures is important to investors and other interested parties. At the pre-issuance stage, investors want to know that an issuer has followed an appropriate process that justifies designating a bond as “green” and that the eligible projects, assets and supporting expenditures have the potential to deliver positive environmental outcomes. After green bonds have been issued, investors seek confirmation that the amount equivalent to the net proceeds has been allocated to eligible green projects, assets and supporting expenditures and, later, that project performance meets the eligibility criteria. Therefore, the role of the verification programme owners is important as they will verify the provisions of [Clauses 5](#) and [6](#).

This document defines green bonds and specifies process steps for designating a bond as “green”, including requirements for the identification of appropriate performance indicators. The requirements of this document address:

- eligibility criteria for the use of proceeds (see [Clause 5](#));
- the management of proceeds (see [Clause 6](#));
- environmental performance (see [Clause 7](#));
- reporting (see [Clause 8](#)).

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Figure 1 outlines the relationship between the four parts of the ISO 14030 series.



**Figure 1 — Relationship between the parts of the ISO 14030 series**

In this document:

- “shall” indicates a requirement;
- “should” indicates a recommendation;
- “may” indicates a permission;
- “can” indicates a possibility or a capability.

Information marked “NOTE” is for guidance in understanding or clarifying the associated requirement.

# Environmental performance evaluation — Green debt instruments —

## Part 1: Process for green bonds

### 1 Scope

This document establishes principles, specifies requirements and gives guidelines:

- for designating bonds which finance eligible projects, assets and supporting expenditures as “green”;
- for managing and reporting on the use of proceeds;
- for defining, monitoring and reporting on their environmental impacts;
- for reporting to interested parties;
- for validation and verification.

This document is applicable to any issuer of bonds.

### 2 Normative references

ISO 14030-1:2021

<https://standards.iteh.ai/catalog/standards/sist/6ca1d7ea-f38b-408c-945a-301-2021>

There are no normative references in this document.

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

#### 3.1 Terms related to debt instruments

##### 3.1.1 bond

type of *debt instrument* (3.1.3) that serves as legally enforceable evidence of a debt and the promise of its repayment within a specified term

Note 1 to entry: In this document, the term “bond” should be understood and read to include the intermediated debt instruments listed in [Annex A](#).

##### 3.1.2 green bond

*bond* (3.1.1) whose *net proceeds* (3.1.6) or an amount equivalent to the net proceeds will be exclusively applied to finance or refinance in part or in full new or existing *eligible projects, assets and supporting expenditures* (3.2.10)

**3.1.3  
debt instrument**

obligation that enables a party to raise funds by promising to repay a lender in accordance with the terms of a contract

Note 1 to entry: [Annex A](#) provides a non-exhaustive list of type of bonds and other intermediated debt instruments.

**3.1.4  
green debt instrument**

*debt instrument* ([3.1.3](#)) whose *net proceeds* ([3.1.6](#)) or an amount equivalent to the net proceeds will be exclusively applied to finance or refinance in part or in full new or existing *eligible projects, assets and supporting expenditures* ([3.2.10](#))

**3.1.5  
issuer**

entity responsible for fulfilling the contractual obligations of the *bond* ([3.1.1](#)) or other *debt instrument* ([3.1.3](#))

**3.1.6  
net proceeds**

value of the *bond's* ([3.1.1](#)) or other *debt instrument's* ([3.1.3](#)) principal, minus expected or actual issuance costs and discounts

**3.1.7  
taxonomy**

system for classifying investment categories or subcategories

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**3.2 Terms related to the environmental objective and performance of projects, assets and supporting expenditures**

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**3.2.1  
objective**

result to be achieved

[SOURCE: ISO 14001:2015, 3.2.5, modified — The notes to entry have been deleted.]

**3.2.2  
environment**

surroundings in which an organization operates, including air, water, land, natural resources, flora, fauna, humans and their interrelationships

Note 1 to entry: In this document, the phrase “in which an organization operates” should be understood as “inherent to or affected by the *eligible projects, assets and supporting expenditures* ([3.2.10](#)) of the *bond* ([3.1.1](#)) or other *debt instrument* ([3.1.3](#))”.

[SOURCE: ISO 14001:2015, 3.2.1, modified — Notes 1 and 2 to entry have been deleted and a new Note 1 to entry has been added.]

**3.2.3  
environmental objective**

*objective* ([3.2.1](#)) set by the *issuer* ([3.1.5](#)) that relates to the *environment* ([3.2.2](#))

**3.2.4  
environmental performance**

performance related to the management of *environmental aspects* ([3.2.5](#))

[SOURCE: ISO 14001:2015, 3.4.11, modified — Note 1 to entry has been deleted.]



**3.2.5****environmental aspect**

element of an organization's activities or products or services that interacts or can interact with the *environment* (3.2.2)

Note 1 to entry: An environmental aspect can cause (an) *environmental impact(s)* (3.2.7). A significant environmental aspect is one that has or can have one or more significant environmental impact(s).

Note 2 to entry: Significant environmental aspects are determined by the organization applying one or more criteria.

[SOURCE: ISO 14001:2015, 3.2.2]

**3.2.6****impact**

result of a change or existing condition that may be adverse or beneficial

[SOURCE: ISO 15392:2019, 3.17]

**3.2.7****environmental impact**

*impact* (3.2.6) to or conservation of the *environment* (3.2.2), wholly or partially resulting from *eligible projects, assets and supporting expenditures* (3.2.10)

**3.2.8****natural capital**

stock of renewable and non-renewable natural resources (e.g. plants, animals, air, water, soils, minerals) that combine to yield a flow of benefits to people

[SOURCE: Natural Capital Coalition<sup>[14]</sup>]

**3.2.9****prevention of pollution**

use of *processes* (3.3.3), practices, techniques, materials, products, services or energy to avoid, reduce or control (separately or in combination) the creation, emission or discharge of any type of pollutant or waste, in order to reduce adverse *environmental impacts* (3.2.7)

Note 1 to entry: Prevention of pollution can include source reduction or elimination; process, product or service changes; efficient use of resources; material and energy substitution; reuse; recovery; recycling, reclamation; or treatment.

[SOURCE: ISO 14001:2015, 3.2.7]

**3.2.10****eligible projects, assets and supporting expenditures**

projects, assets and supporting expenditures that meet the requirements of the eligibility criteria or satisfy the eligibility process test

Note 1 to entry: See 5.1 for requirements and 5.4 for *validation* (3.3.6).

Note 2 to entry: ISO 14030-3 provides examples of the projects, assets and supporting expenditures, and associated criteria for determining eligibility.

**3.3 Terms related to performance evaluation****3.3.1****indicator**

quantitative, qualitative or binary variable that can be measured or described, representing the status of operations, management, conditions or impacts

[SOURCE: ISO 14031:2021, 3.4.1]

## ISO 14030-1:2021(E)

### 3.3.2

#### **monitoring**

determining the status of a system, a *process* (3.3.3) or an activity

[SOURCE: ISO 14001:2015, 3.4.8, modified — Note 1 to entry has been deleted.]

### 3.3.3

#### **process**

set of interrelated or interacting activities which transforms inputs into outputs

[SOURCE: ISO 14001:2015, 3.3.5, modified — Note 1 to entry has been deleted.]

### 3.3.4

#### **activity data**

quantitative measure of an activity that results in an *environmental impact* (3.2.7)

[SOURCE: ISO 14033:2019, 3.1.2]

### 3.3.5

#### **quantitative data**

numerical data item that includes its unit

[SOURCE: ISO 14033:2019, 3.1.3, modified — “or context for non-dimensional data” has been deleted from the end of the definition.]

### 3.3.6

#### **validation**

*process* (3.3.3) for evaluating the reasonableness of the assumptions, limitations and methods that support a statement about the outcome of future activities

[SOURCE: ISO 14065:2020, 3.3.16]

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### 3.3.7

#### **validator**

competent and impartial person with responsibility for performing and reporting on a *validation* (3.3.6)

[SOURCE: ISO 14064-3:2019, 3.2.7]

### 3.3.8

#### **verification**

*process* (3.3.3) for evaluating a statement of historical data and information to determine if the statement is materially correct and conforms to criteria

[SOURCE: ISO 14064-3:2019, 3.6.2]

### 3.3.9

#### **verifier**

competent and impartial person with responsibility for performing and reporting on a *verification* (3.3.8)

[SOURCE: ISO 14064-3:2019, 3.2.6]

## 4 Principles

### 4.1 Transparency

Reports and communication on the environmental aspects are based on an open, comprehensive and understandable presentation of information.

## 4.2 Accuracy

Bias and uncertainties are reduced as far as is practical.

## 4.3 Completeness

All relevant information is included.

## 4.4 Relevance

Information and data are selected that are appropriate to the needs of the intended user.

## 4.5 Robustness

Organizations use appropriate methodological approaches and information sources grounded in the latest science to support their decision-making and environmental actions. Acknowledgement of uncertainties is recognized as a particularly valuable contribution to decision-making.

## 4.6 Accountability

Organizations acknowledge and take responsibility for their positive and negative environmental aspects and assessment processes. They accept appropriate scrutiny and also accept a duty to respond to this scrutiny.

## 4.7 Precautionary principle

Significant risks to the environment, natural habitats, biodiversity, and human health and welfare are avoided, reduced and mitigated.

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[https://standards.iteh.ai/catalog/standards/sist/6ca1d7ea-f38b-408c-945a-](https://standards.iteh.ai/catalog/standards/sist/6ca1d7ea-f38b-408c-945a-d7a8d29731f6/iso-14030-1-2021)

## 5 Eligibility requirements

### 5.1 General

Projects, assets and supporting expenditures that meet the eligibility criteria described in ISO 14030-3 or other suitable taxonomy are eligible to be funded by a green bond. For projects, assets and supporting expenditures not described in ISO 14030-3 or other suitable taxonomy, eligibility shall be determined in accordance with [5.4](#).

NOTE Guidance on the selection of a suitable taxonomy is provided in [Annex B](#).

All eligible projects, assets and supporting expenditures shall:

- a) positively contribute to at least one environmental objective, which will be assessed and, where feasible, quantified by the issuer;
- b) manage environmental aspects to the extent practicable in order to avoid or mitigate associated negative environmental impacts.

The eligible projects, assets and supporting expenditures should not significantly harm other elements of the environment, some of which are addressed in environmental objectives (see [5.2](#)).

In the case of the selection of new or replacement projects, assets and supporting expenditures, after the initial bond issuance, the issuer shall undertake the same assessment process as described in [5.3](#) and, if appropriate, [5.4](#), with the results being provided in subsequent reports (see [8.2](#)).