SCREENING REPORT · RFNBO-SAMPLE-LOT1

Prepared with HyGOAT SCREEN for RFNBO export readiness

Assessment ID: `RFNBO-SAMPLE-LOT1` **Sample report: SPECIMEN**

Suez RFNBO Export Readiness Sample

Suez Green Exports Ltd (Sample)

Egypt

Indicative readiness
99 of 100
from self-declared inputs,
before evidence review.

Screening, not certification. Findings reference EU 2023/1184 & 2023/1185 as of rule set 2024-06-10.

READY

Generated: 21 October 2026

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Regulatory Framework References

- EU DA 2023/1184 (RFNBO criteria: additionality, temporal, geographic)
- EU DA 2023/1185 (GHG savings threshold)
- India GHCI (MNRE, April 2025)
- ISO 14067:2018 (Carbon footprint)

Contents & reader guide

Start here: decision first, then evidence, findings, action, and source basis.

Each row is clickable and keeps the decision question physically bound to its section. Page references resolve in the generated report.

#	Section	Decision answered	Page
1	Pre-Certification Readiness Dashboard	What is the RFNBO pre-certification readiness posture?	4
2	RFNBO Criteria and Gate Passport	Which RFNBO gates pass, fail, or need evidence?	5
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Two anchors for the rest of the report

- **Decision anchor (Section 1).** The pre-FID, post-FID, and operational lens locates the project and states the current risk class.
- **Source anchor (Section 7).** The exact EU legal and scheme-profile sources that drove each result, with assumptions and caveats.

Pick up by reader role

Reader	Where to start
Founder / strategy	Section 1 (decision dashboard) · Section 6 (action plan)
Plant engineering	Section 2 (gate passport) · Section 4 (GHG calculation)
Regulatory / RFNBO compliance	Section 3 (finding matrix) · Section 7 (sources)
Verification / evidence owner	Section 5 (evidence and traceability)

RFNBO Pre-Certification Readiness Report

RFNBO Pre-Certification Readiness Report

A conservative report for consultant or auditor intake. It is not a formal scheme deliverable, audit opinion, certification, legal advice, or certification-body determination. The RFNBO legal gates remain indicative against EU Commission Delegated Regulation (EU) 2023/1185 Annex on a well-to-wheel lifecycle boundary.

RFNBO Verdict

Export · well-to-wheel, lifecycle

CB approachability: APPROACHABLE

Boundary: well-to-wheel (production, conversion if applicable, transport, end-use, process slip, and eligible existing-use credit as applicable).
Threshold: 3.38 kgCO2eq/kgH2 (EU Delegated Regulation (EU) 2023/1185 Annex).

Indicative screening only. An EC-recognised certification body must validate evidence before any RFNBO claim.

Project-stage lens

Pre-FID	Post-FID	Operational
No flag raised.	No flag raised.	No flag raised.

GHG margin
2.525 below
Threshold 3.38 kgCO2eq/kgH2

Pre-cert inventory
Recorded 0/26
Producer-declared rows only; not-assessed rows receive no readiness credit.

Project stage
Operational
Review findings for stage implications

Top priority gaps

No RFNBO legal-gate blockers identified at current input level. Evidence-readiness gaps are tracked in Section 5.

Plain-language decision key

Term	What it means for this decision
Additionality	Whether the renewable installation is sufficiently new or exempt under the applicable RFNBO route; a contract label alone is not a pass.
Temporal correlation	Whether renewable electricity and production are matched within the required time period.
Geographic correlation	Whether generation and use meet the applicable bidding-zone or price-correlation rule.
Evidence score	Readiness of the self-declared evidence pack, not a probability of certification.
GHG margin	Distance from the threshold, stated as above or below. Pending means a numeric margin is withheld while required evidence is unresolved.

Priority gaps and readiness labels are indicative based on self-reported inputs. An EC-recognised certification body must validate evidence before any RFNBO claim.

RFNBO Gate Passport

Which RFNBO gates pass, fail, or need evidence?

Six gate cards aligned to EU Commission Delegated Regulation (EU) 2023/1185 Annex and Delegated Regulation (EU) 2023/1184 (additionality, temporal, geographic). Each card names the evidence supplied today, the evidence still missing, and what an EC-recognised certification body would expect.

Additionality

PASS

Evidence supplied

- Renewable commissioning date supplied
- Connection type: Captive / Direct Connection
- Physical delivery: Same installation
- Procurement instrument: Own generation

Evidence missing

No gate-level gap mapped

Certification-body implication

EC-recognised certification body will assess supplied evidence for additionality.

Temporal correlation

PASS

Evidence supplied

- Matching window: hourly
- Operating hours documented
- Hourly metering plan

Evidence missing

No gate-level gap mapped

Certification-body implication

EC-recognised certification body will assess supplied evidence for temporal correlation.

Geographic correlation

PASS

Evidence supplied

- Same bidding zone (self-declared)
- Bidding zone: EG

Evidence missing

No gate-level gap mapped

Certification-body implication

EC-recognised certification body will assess supplied evidence for geographic correlation.

GHG intensity

PASS

Evidence supplied

- Production intensity reported
- Boundary: Well-to-Gate
- Transport emissions included

Evidence missing

No gate-level gap mapped

Certification-body implication

EC-recognised certification body will assess supplied evidence for ghg intensity.

Methodology

PASS

Evidence supplied

- Calculation method: ISO 14067
- Third-party verified
- Emission breakdown components: 5

Evidence missing

No gate-level gap mapped

Certification-body implication

EC-recognised certification body will assess supplied evidence for methodology.

Verification

PASS

Evidence supplied

- Existing certification declared
- Certification bodies referenced: 1
- Data collection: SCADA
- Mass balance system in place

Evidence missing

No gate-level gap mapped

Certification-body implication

EC-recognised certification body will assess supplied evidence for verification.

Gate states are indicative based on self-reported inputs. An EC-recognised certification body must validate evidence before any RFNBO claim.

Gap Priority Matrix

Which findings change the decision, and what should happen next?

A plain-language priority register. Severity is stated in words and with an icon; workstream names the kind of remediation.

No RFNBO legal-gate blockers identified at current input level. Document-readiness gaps are handled in Section 5.

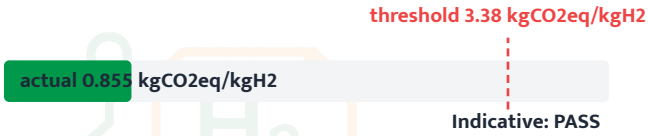
Severity reflects self-reported inputs. Certification-body review may revise.

Lifecycle GHG Threshold Panel

How close am I to the RFNBO threshold?

A single product-specific threshold check against EU Commission Delegated Regulation (EU) 2023/1185 Annex, scored on the well-to-wheel lifecycle boundary. The bar shows actual delivered intensity against the 3.38 kgCO2eq/kgH2 ceiling; the breakdown lists each in-scope component cited to its primary source.

Delivered intensity vs RFNBO threshold



Actual intensity
0.855
kgCO2eq/kgH2 (well-to-wheel)

RFNBO threshold
3.38
kgCO2eq/kgH2; Source: EU Reg. 2023/1185, Annex

Margin
2.525 below
Threshold 3.38 kgCO2eq/kgH2

Calculation breakdown (in-scope components)

Component	Value	RFNBO treatment	Source
Production stage	0.6	Production emissions on the reported product basis	Commission Delegated Regulation (EU) 2023/1185, Annex; project declaration
Conversion	0.2	Synthesis, upgrading, or carrier conversion emissions	Project conversion declaration
Transport	0.0552	Delivery emissions on the product basis	Boundary: Commission Delegated Regulation (EU) 2023/1185, Annex; factors: HyGOAT lookup table (indicative; confirm with your certification body before compliance use)
Delivered total	0.8552	Sum of active terms, less the existing-use credit	Canonical lifecycle calculation

All component values are in kgCO2eq/kgH2. A zero is a recorded value; Pending means no numeric component is available.

Decision-value lineage

User-declared inputs are labelled explicitly. Factors and rules are screening references, not authenticated customer evidence.

Input	Source / period	Factor or formula	Rule and decision use
Production intensity	User declared; not recorded	ISO 14067	Production component under EU Reg. 2023/1185 Annex
Transport	User route + HyGOAT matrix	0.055 kgCO2eq/kgH2	Included in delivered boundary; indicative lookup factors, confirm with certification body
Delivered result	Derived screening value	production + conversion + transport	Compare 0.855 with 3.38 kgCO2eq/kgH2; 2.525 below the threshold

Transport calculation trail

Input	Screening value
Route	Ain Sokhna, Egypt → Rotterdam, Netherlands
Distance	3400 nautical miles; 10 transit days
Mode	Ammonia Carrier
Mode maturity	available
Factors	Base 0; processing 0.12; reconversion 0.08
Port operations	Origin Ain Sokhna, Egypt: 2.4 kgCO2eq/t; destination Rotterdam, Netherlands: 1.8 kgCO2eq/t
Contribution	0.255 kgCO2eq/kgH2; shipping 0.051, processing 0.2, ports 0.004, storage 0

Lookup-table screening estimate. Route distance, mode factors, loading and unloading assumptions must be confirmed in the binding lifecycle file by your EC-recognised certification body before compliance use.

Self-reported lifecycle estimate. Certification-body review may adjust values after evidence inspection. An EC-recognised certification body validates the binding lifecycle calculation.

RFNBO Pre-Certification Evidence Matrices

What evidence domains are ready for consultant or auditor intake?

Statuses are producer-declared. Unanswered rows remain Not assessed and receive no readiness credit. Derived signals are informational, basis-labeled, and excluded from readiness calculations. Scheme profile overlay: CertifHy EU, ISCC EU, REDcert EU. This is not a formal scheme deliverable or audit opinion.

Scheme-profile coverage dashboard

Domain	Declared ready	Declared missing	Not assessed	N/A	Derived signals
Management System	0	0	7	0	1
Traceability	0	0	7	0	2
GHG Methodology	0	0	6	0	5
Renewable Electricity	0	0	6	0	5

Scheme profile overlay: CertifHy EU, ISCC EU, REDcert EU. Source status: CertifHy EU: profile reference available; ISCC EU: profile reference available; REDcert EU: profile reference available. Where public row-level scheme detail is not available, the row is held as profile-reference-pending rather than presented as a profile-specific claim.

Evidence record schematics

HyGOAT-authored field checklists, not customer documents or proof of acceptance. Use them to recognise the information a redacted record should expose.

Evidence family	Visible fields in a useful redacted record	Reconciliation link
PPA / settlement	Parties, generation asset ID, contract and delivery period, contracted and delivered volume, invoice or settlement reference, attribute-transfer clause	Contract → monthly settlement → renewable attributes
Meter / JMR	Meter ID and owner, interval, opening and closing readings, import/export, loss adjustment, period, counterparty signatures	Meter register → JMR → invoice
Calibration	Meter ID, laboratory or issuer, accreditation reference, calibration date and due date, error and uncertainty statement	Certificate → meter ID → reporting period
Production report	Batch or period, product mass, electricity, water and fuel inputs, co-products, meter references, preparer and approval	Production mass → activity data → GHG file

Management System evidence rows

Evidence row	Status	Next action
Organisation chart and reporting lines AP 01.01.01 to 01.01.04. A chart showing who is responsible for what in the project, with reporting lines and role descriptions. A draft organogram with named functions is acceptable at this stage.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
Roles and job responsibilities AP 01.01.01 to 01.01.04. Written job descriptions for the people at critical control points, naming who owns renewable sourcing, production data, claims, and the certification contact.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
SOP or critical-control procedure AP 01.01.08 to 01.01.09. Standard operating procedures covering sustainability requirements at critical control points such as sourcing, logistics, inventory, metering, sales, and quality. Process flow charts are acceptable early evidence.	**Not assessed** Derived signal: Production method selected; a critical-control procedure may exist. Basis: Production method = PEM	Record readiness in Step 6 or supply it during consultant intake.
Document control list AP 01.01.10 to 01.01.12. A register of the documents certification will generate, stating who controls each one, how versions are managed, and retention. Scheme records must be retrievable for five years.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
Training plan AP 01.01.01 to 01.01.04. A plan stating what training the team receives on scheme requirements, the materials used, and the intended participants. A draft plan is acceptable before hiring completes.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
Internal checks and review cadence AP 01.01.05 to 01.01.07. An internal audit or inspection procedure with an annual schedule and a checklist template, stating how often the management system is reviewed and by whom.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
Risk assessment plan AP 01.01.13 to 01.01.16. A plan for assessing risks such as double counting and data gaps, in line with ISCC Document 204. A short draft risk note is acceptable at pre-certification.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.

Derived signals are informational, basis-labeled, and excluded from readiness calculations.

Traceability evidence rows

Evidence row	Status	Next action
Supplier template AP 02.01.01 to 02.01.03. A register template listing suppliers with the fields the scheme requires. This is a list template with required fields, not the PPA or commercial contract itself.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
Recipient template AP 02.01.01 to 02.01.03. A register template listing recipients and subcontractors with delivery references and sustainability attributes, plus how entries will be matched to the reporting system.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
Production report template AP 02.04.01. A periodic production report format covering inputs and claims, yields, products and co-products, wastes and losses, and dates. Frequency can be daily, weekly, or monthly to suit operations.	**Not assessed** Derived signal: Data collection system selected; a production-report template may exist. Basis: Data collection system = SCADA	Record readiness in Step 6 or supply it during consultant intake.
Sustainability declaration template AP 02.01.04 to 02.01.06. A Self-Declaration or Proof of Sustainability template aligned to ISCC EU 202-6 and ISCC EU 203, issued one declaration per batch, carrying the sustainability data that travels with the product.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
Batch and chain-of-custody process AP 02.01.04 to 02.01.06. A process showing how each batch is tracked from energy input to product claim, the responsible person at each hand-over point, and how one declaration per batch is enforced.	**Not assessed** Derived signal: Mass balance is declared in place; batch chain-of-custody records may exist. Basis: Mass-balance status = in place	Record readiness in Step 6 or supply it during consultant intake.
Correction and cancellation process AP 02.01.07 to 02.01.08. A written procedure for correcting erroneous records and cancelling claims, for example when a batch misses the threshold and is sold without an RFNBO claim, per ISCC EU 203.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
GoO transfer and cancellation procedure AP 02.02.03 to 02.02.05. A procedure for transferring Guarantees of Origin to the producer account and cancelling them so the renewable attribute of contracted power is claimed only once. Where no GO registry exists, an equivalent certificate such as I-REC evidences the exclusive claim. Cancelling certificates does not make separately purchased grid power renewable.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.

Derived signals are informational, basis-labeled, and excluded from readiness calculations.

GHG Methodology evidence rows

Evidence row	Status	Next action
Lifecycle calculation file AP 04.01.04 to 04.01.07. A draft workbook showing the calculation period, design activity data, emissions from all inputs and outputs, and the emission-factor source for each line.	**Not assessed** Derived signal: GHG method and boundary are declared; a lifecycle calculation file may exist. Basis: Calculation method = ISO 14067; system boundary = Well-to-Gate	Record readiness in Step 6 or supply it during consultant intake.
Formula components: ei, ep, etd, eu, eccs AP 04.01.01. The calculation keeps separate fields for ei (elastic, rigid, existing-use), ep processing, etd transport, eu fuel in use, and eccs capture credit, each in gCO2eq/MJ with units and data sources.	**Not assessed** Derived signal: An emissions breakdown is declared; formula components may be recorded. Basis: Emission breakdown supplied	Record readiness in Step 6 or supply it during consultant intake.
Emission-factor source register AP 04.01.16 to 04.01.18. A register naming the source of every emission factor used, for example ISCC 205-1, JEC-WTW, ECOINVENT, or IPCC and IEA data, with validity periods.	**Not assessed** Derived signal: A GHG calculation method is declared; an emission-factor register may exist. Basis: Calculation method = ISO 14067	Record readiness in Step 6 or supply it during consultant intake.
Activity-data period definition AP 04.01.04 to 04.01.07. A note defining the time boundary of the calculation and the design activity data it uses for electricity, feedstock, production, conversion, and logistics.	**Not assessed** Derived signal: Production or operating data is declared; an activity-data period may be recorded. Basis: Annual production supplied	Record readiness in Step 6 or supply it during consultant intake.
Allocation method AP 04.01.12. A note selecting the allocation basis for co-products (energy content, economic value, or physical causality) with an example using design outputs.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.
GHG savings calculation AP 04.01.15. A draft final GHG and savings tab applying the methodology against the fossil comparator, showing the pathway reaches the 70 percent savings requirement for RFNBOs.	**Not assessed** Derived signal: Intensity and transport inputs are declared; a savings calculation may exist. Basis: Estimated intensity supplied; transport included	Record readiness in Step 6 or supply it during consultant intake.

Derived signals are informational, basis-labeled, and excluded from readiness calculations.

Renewable Electricity evidence rows

Evidence row	Status	Next action
PPA or direct-connection evidence AP 05.02.01 to 05.02.05, 05.07.01 to 05.07.05. A draft PPA or term sheet naming parties, volumes, and validity, or single-line diagrams evidencing a direct connection to the renewable installation.	**Not assessed** Derived signal: A renewable connection type is declared; a PPA or direct-connection record may be in design. Basis: Connection type = Captive / Direct Connection	Record readiness in Step 6 or supply it during consultant intake.
Metering architecture AP 05.01.01 to 05.01.05. Layout plans showing electrical connections and planned metering points, plus a description of the metering and documentation system, recorded separately per connection.	**Not assessed** Derived signal: A data collection system is declared; metering architecture may be recorded. Basis: Data collection system = SCADA	Record readiness in Step 6 or supply it during consultant intake.
Hourly data fields AP 05.01.01 to 05.01.05. Draft data extracts or templates showing at least hourly fields for generated electricity, electricity used for RFNBO production, and other consumption, per connection.	**Not assessed** Derived signal: Hourly temporal matching is declared; hourly data fields may be recorded. Basis: Temporal matching = hourly	Record readiness in Step 6 or supply it during consultant intake.
Grid and bidding-zone treatment AP 05.03.01 to 05.05.12. A note stating which grid pathway applies (national renewable share, a bidding zone above 90 percent renewables, or emission intensity below 18 gCO2eq/MJ with a qualifying PPA) and its data sources.	**Not assessed** Derived signal: Bidding-zone information is declared; grid-treatment evidence may be recorded. Basis: Grid bidding zone = EG	Record readiness in Step 6 or supply it during consultant intake.
Additionality evidence AP 05.07.01 to 05.07.05. Draft PPAs and commissioning or operation permits showing the renewable installation is no more than 36 months older than the electrolyser, and statements on support aid where applicable.	**Not assessed** Derived signal: Additionality posture is declared; supporting evidence may exist. Basis: Additionality posture = compliant_36months	Record readiness in Step 6 or supply it during consultant intake.
GoO cancellation plan for grid supply AP 05.05.01 to 05.05.10. A plan showing how GoOs, or an equivalent attribute certificate such as I-REC where no GO registry exists, are matched and cancelled so the renewable attribute of contracted power cannot be claimed twice. Certificate cancellation alone does not make grid power renewable.	**Not assessed**	Record readiness in Step 6 or supply it during consultant intake.

Derived signals are informational, basis-labeled, and excluded from readiness calculations.

Evidence deficiency register

Row ID	Domain	Required action
None	All domains	No producer-declared missing evidence rows. Not-assessed rows are excluded.

Operational electricity evidence lineage

Status-only, self-declared evidence facts. No document was uploaded or authenticated by HyGOAT.

Evidence family	Status	Source period	Recorded facts
Banking and wheeling	not recorded	not recorded	No supporting facts recorded
Monthly invoice / JMR reconciliation	not recorded	not recorded	No supporting facts recorded
Metering and calibration	not recorded	not recorded	No supporting facts recorded

No unsupported multi-source, backup-generation, or net-metering condition was declared in the screening input.

How to read this pack

- **Required.** Typical evidence items an EC-recognised certification body expects for the group.
- **Supplied.** What the screening observed in self-reported inputs.
- **Missing.** Open gaps mapped to the group; severity in Section 3.
- **Owner.** Suggested internal owner; final acceptance rests with the EC-recognised certification body.

RFNBO legal-gate evidence crosswalk

Evidence group	Required	Supplied	Missing	Owner
Facility identity and status	Project location, ownership, commissioning status, production method	Location: Egypt; Method: PEM Electrolysis; Capacity: 100 MW	*No legal-gate gap mapped*	Project team
Renewable electricity	PPA, grid connection, installation date, additionality	Source: Solar PV; Capacity: 120 MW; Physical delivery: Same installation; Procurement: Own generation; Installation reference supplied; Connection: Captive / Direct Connection; Commissioning date supplied	*No legal-gate gap mapped*	Renewables / commercial
Temporal and geographic correlation	Metering plan, time-matching window, geographic support	Matching: Hourly; Same bidding zone (self-declared); Zone: EG	*No legal-gate gap mapped*	Operations / grid
GHG methodology	Calculation boundary, intensity inputs, conversion and transport assumptions	Method: ISO 14067; Boundary: Well-to-Gate; Intensity declared; Transport included	*No legal-gate gap mapped*	Sustainability lead
MRV and verification	Metering, data retention, third-party verification plan	Data system: SCADA; Third-party verification arranged; Mass balance in place	*No legal-gate gap mapped*	MRV / QA
Certification engagement	Candidate scheme, prerequisites, evidence gaps	Existing certification declared; Bodies referenced: 1	*No legal-gate gap mapped*	Programme / commercial

Evidence requirements reflect EU Commission Delegated Regulation (EU) 2023/1185 Annex. This report prepares evidence for review; it is not a formal scheme deliverable, audit opinion, certification, or legal advice. An EC-recognised certification body must validate evidence before any RFNBO claim.

Pre-Certification Action Plan

What should I do before external engagement?

Buckets for the work that lands before an EC-recognised certification body sees the project. Now is the documentation and operating-data work that is fixable today; Next is the design and minor cleanup that needs planning; Before CB engagement is the candidate-scheme and evidence-pack assembly that gates the formal review. A bucket with no items is not shown.

Before CB engagement

CB-03. Assemble the pre-certification evidence pack (Section 5 groups).

Action closure register

Work item	Suggested accountable role	Closure evidence	Re-screen trigger
None open	Project lead	Preserve the current evidence pack	Re-screen after any material input or boundary change

To discuss how to prepare the evidence pack before external review, contact info@hygoat.in.

Methodology and Sources

What rules and assumptions drove the result?

A compact register of every primary source the screening cited. Each row names the topic, its primary regulatory citation, and where the source is applied in this report.

What this report includes

- Production-stage emissions inside the well-to-wheel boundary.
- Transport emissions when supplied; without transport the threshold panel surfaces "Pending Information" rather than scoring a partial input.

What this report excludes

- GHCI domestic-certification thresholds and well-to-gate boundary, out of RFNBO scope.
- Commercial-program overlays and savings-percentage thresholds are outside this RFNBO screening scope.
- Scheme-specific certification-body fees and timelines, which are facility-specific and only the scheme operator can quote.

Topic	Primary source	Calculation note
RFNBO threshold (3.38 $kgCO_2eq/kgH_2$)	Commission Delegated Regulation (EU) 2023/1185, Annex	Applied to the well-to-wheel delivered intensity in Section 4.
Fossil comparator (94 gCO_2eq/MJ)	Commission Delegated Regulation (EU) 2023/1185, Annex	Comparator basis underlying the 70% reduction target. Not re-applied during screening.
Additionality and correlation rules	Commission Delegated Regulation (EU) 2023/1184, Articles 4-7	Renewable-electricity sourcing, additionality, temporal and geographic correlation. Surfaced in Sections 3 and 5.
Hydrogen lower heating value (120 MJ/kg)	Physical constant	Unit conversion between the energy basis and the reported product mass basis.
CertifHy EU RFNBO scheme profile	Official scheme reference	Profile reference included in the pre-certification coverage dashboard.
ISCC EU RFNBO scheme profile	Official scheme reference	Profile reference included in the pre-certification coverage dashboard.
REDcert EU RFNBO scheme profile	Official scheme reference	Profile reference included in the pre-certification coverage dashboard.

Source registry as of report generation date. Refer to the cited primary sources for binding text. An EC-recognised certification body validates the binding lifecycle calculation.

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