



Indicative Screening Report

Prepared using HyGOAT Screen for GHCI compliance

Screening ID: GHCI-SAMPLE-LOT1

Sample Project (Illustrative Output)

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India

On Track

GHCI Readiness

Target: Concept Certificate

0 Blocking **0** Major **0** Minor

0 gaps identified across G1-G16 criteria

Indicative screening against MNRE GHCI Scheme (April 2025)

Generated: 12 May 2026

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Document Control

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Report Prepared By

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Regulatory Framework References

- MNRE F.No. 353/69/2024-NT (GHCI Scheme, 29 Apr 2025)
- MNRE OM 353/35/2022-NT (Green Hydrogen Standard, 18 Aug 2023)
- BEE Accredited Carbon Verification (ACV)
- ISO 19870 (Hydrogen carbon intensity)
- ISO 14064 (GHG quantification)
- GHCI Portal Registration Guidelines

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How to read this report

Which GHCI certificate applies now, what is missing, and how far below the water is the project?

An indicative domestic certification readiness dossier for Indian green hydrogen projects. Supports both pre-FID stages (Concept, Facility) and post-FID stages (Provisional, Final). Each section answers one reader question against MNRE F.No. 353/69/2024-NT.

#	Section	Reader question
1	Navigation Map	<i>How do I read this report?</i>
2	GHCI Certificate Fit Dashboard	<i>Which of the four GHCI certificates applies now?</i>
3	Certification Stage Ladder	<i>Where am I in the GHCI pathway?</i>
4	G1-G17 Gap Matrix	<i>Which GHCI gaps matter now?</i>
5	GHG Threshold Panel	<i>Does the product meet the GHCI threshold?</i>
6	BEE Verification Readiness Pack	<i>What evidence should I prepare before BEE-accredited verification agency engagement?</i>
7	Stage-Specific Action Plan	<i>What should I do before the applicable certificate stage?</i>
8	Regulatory Methodology and Sources	<i>What MNRE/CEA basis drove the result?</i>

Two anchors for the rest of the report

- **Stage anchor (Section 3).** The four-stage GHCI ladder, Concept through Final. Locates the project on the pathway and names what the next stage requires.
- **Source anchor (Section 8).** The exact MNRE and CEA references that drove each verdict, with methodology caveats and assumption versions.

Pick up by reader role

Reader	Where to start
Founder / strategy	Section 2 (certificate fit) · Section 7 (action plan)
Plant engineering	Section 3 (stage ladder) · Section 5 (threshold panel)
Regulatory / GHCI compliance	Section 4 (gap matrix) · Section 8 (sources)
Verification / evidence owner	Section 6 (BEE readiness pack)

GHCI Certificate Fit Dashboard

Which of the four GHCI certificates applies now?

A single indicative verdict against MNRE F.No. 353/69/2024-NT, scored on the well-to-gate (Scope 1+2) facility boundary. The four-stage ladder in Section 3 walks the path; this dashboard names where the project sits today.

GHCI Verdict

Domestic · well-to-gate, Scope 1+2

Indicative: ON TRACK

Current applicable stage: Final Certificate

Boundary: well-to-gate, Scope 1+2

Total gaps: 0 · Blocking: 0 · Major: 0 · Minor: 0

Source: MNRE F.No. 353/69/2024-NT. Stage classification is indicative based on self-reported inputs; BEE-accredited verification agency review may revise.

Readiness

On Track

Concept, Facility, Provisional, Final

Blocking gaps

0

Severity: blocking

Major gaps

0

Severity: major

Minor gaps

0

Severity: minor

Earliest reachable

Concept

Stage on the GHCI ladder

Target stage

Final

Reachable: yes

Four-stage fit at a glance

Stage	Reachable	Notes
Concept Certificate	Yes	Prerequisite gaps cleared at current input level.
Facility Certificate	Yes	Prerequisite gaps cleared at current input level.
Provisional Certificate	Yes	Prerequisite gaps cleared at current input level.
Final Certificate	Yes	Prerequisite gaps cleared at current input level.

⚠️ Top blocking gaps

✔️ *No blocking gaps identified at current input level. See Section 4 for the full G1-G17 gap matrix.*

Body sections detail each gap, threshold, and BEE evidence requirement. See Section 3 for the four-stage ladder.

🏠 Certification Stage Ladder

Where am I in the GHCI pathway?

The four-stage MNRE ladder, from design intent through operational validation. The current applicable stage is the next one not yet reached. Earlier stages are prerequisites; later stages are downstream goals.

Stage classification is indicative based on self-reported inputs. BEE-accredited verification agency review may revise.



📄 Stage detail

Stage	State	Applies when	Required behavior
Concept Certificate	✓ Reached	FEED or DPR stage, before construction.	Surface design-readiness gaps and missing project documentation.
Facility Certificate	✓ Reached	Operational facility, post consent-to-operate.	Confirm facility evidence, CTO status, and BEE-accredited verification agency readiness.
Provisional Certificate	✓ Reached	Verified production within an evaluation cycle.	Validate first-cycle production data and cycle evidence gaps.
Final Certificate	✓ Reached	Full financial-year evaluation cycle.	Close the annual GHCI compliance loop with full-cycle evidence.

📄 Evidence focus by stage

Stage	Evidence focus
Concept Certificate	Project documentation, RE-source intent, GHG calculation method.
Facility Certificate	Facility evidence, CTO, RE contract, metering installed.
Provisional Certificate	Cycle production data, MRV records, agency review.
Final Certificate	Year metering reconciliation, audit trail, declarations.

Stage classification is indicative based on self-reported inputs. BEE-accredited verification agency review may revise. The G1-G17 matrix in Section 4 details the gaps that move stages.

☰ G1-G17 Gap Matrix

Which GHCI gaps matter now?

The MNRE-aligned G1-G17 gap framework, scored against this project's self-reported inputs. Blocking gaps stop the targeted certificate stage; major gaps block the Final cycle; minor gaps are improvement notes.

📌 No GHCI gaps identified at current input level. Re-screen with full inputs for granular gap analysis.

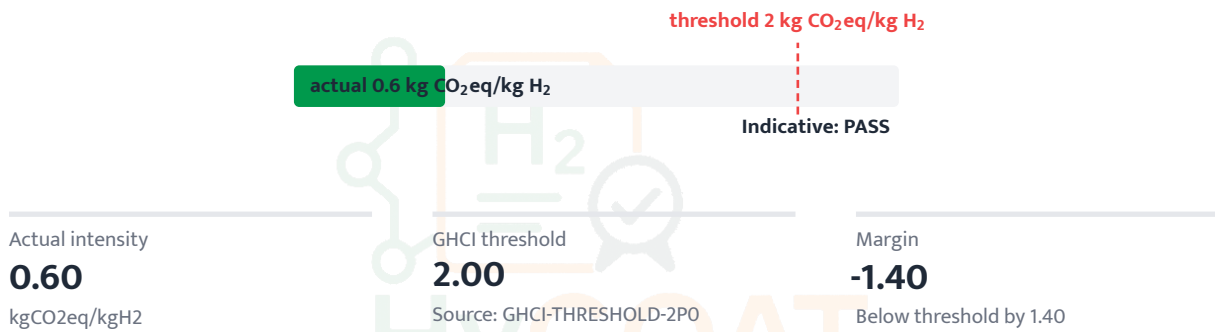
Severity reflects self-reported inputs. BEE-accredited verification agency review may revise.

GHG Threshold Panel

Does the product meet the GHCI threshold?

A single product-specific threshold scored on the Scope 1+2 facility boundary. The bar shows actual against the H2 threshold; the GEF and T&D tile names the CEA assumptions used; the breakdown lists each in-scope component cited to its primary source.

Product threshold vs current intensity



⚡ GEF and T&D Assumptions

GEF: **0.710** kgCO₂/kWh

Source: GHCI-GEF-0P710

T&D loss: **17.63** %

Source: GHCI-TDL-0P1763

GHCI screen uses well-to-gate Scope 1+2 assumptions. CEA GEF and T&D values may change in future CEA releases.

📊 Calculation breakdown (in-scope components)







Component	GHCI treatment	Source
Production stage	Direct facility emissions in Scope 1+2	MNRE F.No. 353/69/2024-NT · GHCI-BOUNDARY-W2G
Grid electricity	Apply CEA grid emission factor and T&D loss	GHCI-GEF-0P710 · GHCI-TDL-0P1763
Water treatment	Per scenario (municipal, SWRO, recycled water)	MNRE Water Drawl Guidelines (draft, 25 Feb 2026)
Materiality	Individual below 1 percent of threshold; total below 5 percent	GHCI-MATERIALITY-1-5 · GHCI Framework S8.1

Indicative threshold check on the Scope 1+2 boundary. BEE-accredited verification agency review may revise. Methodology references resolve in Section 8.

BEE Verification Readiness Pack

What evidence should I prepare before BEE-accredited verification agency engagement?

Six evidence classes per the GHCI scheme. Each row lists the typical required items, what the screening observed in self-reported inputs, the gaps still open, and the certificate stage(s) it gates. Final acceptance rests with the BEE-accredited verification agency.

Evidence class	Required	Supplied	Missing	Stage gate
 Project stage	FEED, DPR, CTO, operating cycle, final-cycle evidence	Commissioning date, Compliance stage		All four stages
 Facility and production	Production method, product type, capacity, operating records	Product: hydrogen, Production method		Facility / Provisional
 Renewable sourcing	Captive, PPA, grid + green tariff, G-DAM evidence	Connection: captive, RE type declared		Facility / Provisional
 GHG calculation	Threshold, GEF, T&D, water treatment, co-product allocation	Intensity declared, Boundary declared		Provisional / Final
 MRV and metering	Measurement system, data retention, audit trail	Data collection system, Mass balance		Provisional / Final
 Verification agency	BEE-accredited verification agency, declarations, submission artifacts	BEE ACV: engaged, Existing certification		All four stages

How to read this pack

- **Required.** Typical evidence items the BEE-accredited verification agency expects for the class.
- **Supplied.** What the screening observed in self-reported inputs.
- **Missing.** Gaps still open at the targeted certificate stage; severity in Section 4.
- **Stage gate.** The certificate stage(s) on the GHCI ladder where the class is gating.

Evidence requirements reflect MNRE F.No. 353/69/2024-NT and the BEE accreditation framework. BEE-accredited verification agency review may revise. Stage gates differ by class across Concept Certificate, Facility Certificate, Provisional Certificate, and Final Certificate; see Section 3 for the ladder.

☰ Stage-Specific Action Plan

Three columns. Left first: every blocking gap, in priority order. Middle: major items to close before BEE-accredited verification agency engagement. Right: minor items the final-cycle dataset will need.

Now

✓ No items in this bucket. The next stage gate is not blocked by gaps in this category.

Before BEE agency

✓ No items in this bucket. The next stage gate is not blocked by gaps in this category.

Before final cycle

✓ No items in this bucket. The next stage gate is not blocked by gaps in this category.

💡 Stage recommendation

Ready to prepare for BEE-accredited verification agency engagement against Final Certificate. Close the few minor items below the line, then start assembling the evidence pack.

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

📖 Regulatory Methodology and Sources

Every verdict in this report is anchored in MNRE primary sources and CEA assumption versions. Use this register to walk back from any finding in Sections 2-7 to its regulatory basis.

Source	Role in this report
MNRE F.No. 353/69/2024-NT	Primary GHCI framework: scope, four-stage certificate model, threshold rules.
GHCI-BOUNDARY-W2G	Boundary definition: Scope 1+2 within the facility gate. Excludes downstream transport and end-use.
GHCI-THRESHOLD-2PO	H2 threshold 2 kgCO ₂ eq/kgH ₂ drives the verdict in Section 5.
GHCI-GEF-OP710	CEA grid emission factor 0.710 kgCO ₂ /kWh applied to grid electricity intensity.
GHCI-TDL-OP1763	CEA T&D loss factor 17.63% scales delivered electricity emissions upward to source.

⊕ What this report includes

- Production stage emissions (electrolyser feed and process heat).
- Grid electricity scaled by GEF (0.710) and uplifted by T&D loss (17.63 %).
- Water treatment and material inputs where they cross the materiality threshold.

⊖ What this report excludes

- Downstream transport to end-customer (out of GHCI Scope 1+2 boundary).
- End-use combustion or fuel-cell oxidation (out of GHCI Scope 1+2 boundary).
- RFNBO methodology, CertifHy benchmarks, H2Global tender thresholds.

Source registry as of report generation date. Refer to the cited primary sources for binding text. CEA GEF and T&D values may change in future CEA releases.

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