



CarbonOps ESG Intelligence Model (CEIM) – Proprietary Framework v1.0

Confidential Internal Methodology Document – CarbonOps Exclusive

CarbonOps ESG Intelligence Suite – Proprietary and Confidential

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Introduction

The CarbonOps ESG Intelligence Model (CEIM) represents the next generation of Environmental, Social, and Governance (ESG) analysis – an exclusive, internally developed framework designed to deliver actionable, high-fidelity ESG insights with unmatched precision. CEIM is engineered solely for CarbonOps consultants, providing a consulting-grade methodology unavailable anywhere else. The framework is distinguished by its proprietary language, scoring logic, and analytical structures, purpose-built for strategic ESG mastery in complex organisational environments.

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Section 1: CEIM Framework Overview

The CEIM Framework is predicated on CarbonOps' unwavering commitment to clarity, material impact, and operational agility in ESG intelligence. Rejecting generic and externally referenced models, CEIM is constructed from first principles reflecting the



CarbonOps philosophy: ESG performance is an emergent property of confidence boundaries, dynamic impacts, operational relevance, and stakeholder thermodynamics. Each proprietary pillar functions as an analytical lens, and in concert, they synthesise an integrated ESG intelligence score unique to CarbonOps clients.

Section 2: CEIM Pillars – Proprietary Definitions

CEIM-P1: System Boundary Confidence (SBC)

Definition: System Boundary Confidence quantifies the certainty with which organisational and operational perimeters are established for ESG analysis. SBC is unique to CarbonOps, measuring both the explicitness of system definitions and the resilience of boundary assumptions under scenario stressors. High SBC scores indicate well-articulated, adaptable boundaries that facilitate accurate ESG assessments; low SBC scores signal vulnerabilities in system definition, potentially leading to mischaracterised ESG exposure.

CEIM-P2: Impact Flux Score (IFS)

Definition: The Impact Flux Score encapsulates CarbonOps' proprietary approach to tracking the velocity and volatility of ESG impacts as they propagate through organisational processes and value chains. Unlike static metrics, IFS dynamically weighs the magnitude, direction, and persistence of ESG drivers, highlighting both immediate and latent impact vectors. IFS empowers consultants to discern where ESG interventions create the most catalytic transformation.

CEIM-P3: Operational Materiality Threshold (OMT)

Definition: Operational Materiality Threshold is CarbonOps' exclusive metric for determining the practical cut-off point at which ESG topics become actionable priorities. OMT is calculated through a blend of quantitative triggers and qualitative signals, ensuring only those ESG topics that surpass CarbonOps' defined significance threshold receive operational focus. OMT eliminates noise, zeroing in on high-impact, high-relevance ESG matters.

CEIM-P4: Stakeholder Heat Vector (SHV)

Definition: The Stakeholder Heat Vector is an original CarbonOps construct that models the aggregate energy, direction, and polarity of stakeholder sentiment on ESG topics. SHV translates stakeholder dynamics into a multi-dimensional score reflecting urgency, influence, and alignment. This vector-based approach enables consultants to prioritise



ESG actions not only by magnitude but by the potential thermodynamic ‘push’ from internal and external stakeholders.

Section 3: CEIM Scoring Equation

CEIM Total Score (CTS): The CarbonOps ESG Intelligence Score is calculated as follows:

$$CTS = [(SBC\alpha) \times (IFS\beta) \times (OMT\gamma)] + [SHV \times \delta]$$

- SBC: System Boundary Confidence (0–100, proprietary scale)
- IFS: Impact Flux Score (0–100, proprietary scale)
- OMT: Operational Materiality Threshold (0–100, proprietary scale)
- SHV: Stakeholder Heat Vector (-100 to +100, proprietary vector scale)
- α, β, γ : Pillar weight exponents (set by CarbonOps sector models)
- δ : Stakeholder Influence Coefficient (sector/region adjusted)

Rationale: The multiplicative interaction of SBC, IFS, and OMT ensures only high-confidence, high-impact, and high-materiality factors drive the CTS. The additive SHV term, modulated by δ , reflects the unique stakeholder influence signature as a thermodynamic force within the ESG ecosystem.

Section 4: CEIM Radar Map Template

Purpose: The CEIM Radar Map visually represents the distribution and balance of pillar scores for rapid ESG profiling.

Pillar	Score (0–100)
System Boundary Confidence (SBC)	[Value]
Impact Flux Score (IFS)	[Value]
Operational Materiality Threshold (OMT)	[Value]
Stakeholder Heat Vector (SHV)	[Value]

Usage Guidance: Populate scores for each pillar. Use a radar (spider) chart to visualise the ESG profile for the assessed entity, enabling rapid identification of strengths and gaps.

Section 5: CEIM Decision Tree – ESG Topic Prioritisation

The CEIM Decision Tree leverages CarbonOps’ proprietary logic for ESG topic triage, ensuring only critical, high-impact issues advance for intensive assessment and action.

- Step 1: Is the ESG topic within a clearly defined system boundary ($SBC \geq 70$)?



- No → Reassess boundary definition. Topic not prioritised.
- Yes → Proceed to Step 2.

Step 2: Does the topic exhibit high impact flux (IFS \geq 60)?

No → Monitor for future volatility. Topic deprioritised.

Yes → Proceed to Step 3.

Step 3: Does the topic surpass the operational materiality threshold (OMT \geq 65)?

No → Topic excluded from action set.

Yes → Proceed to Step 4.

Step 4: Is the stakeholder heat vector (SHV) positive and \geq 30?

No → Action deferred unless new SHV input emerges.

Yes → Topic is escalated for ESG program deployment.

Section 6: CEIM Heat Vector Matrix – SHV Scoring Methodology

The Heat Vector Matrix (HVM) operationalises the Stakeholder Heat Vector by scoring topics against multiple stakeholder dimensions. Each cell represents a unique interaction of stakeholder type, directionality, and energetic magnitude.

ESG Topic	Internal Stakeholder (Score)	External Stakeholder (Score)	Vector Direction (+/-)	Aggregate SHV
[Topic 1]	[e.g., 40]	[e.g., 35]	[+]	[75]
[Topic 2]	[e.g., -10]	[e.g., 25]	[-]	[15]

Scoring Methodology: Assign scores (-100 to +100) per stakeholder type per topic.

Directionality reflects the predominant push (positive) or drag (negative) of sentiment.

Aggregate SHV sums weighted scores for final prioritisation.

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Section 7: Integration with CarbonOps AI Pipelines

CEIM is natively integrated with CarbonOps' proprietary AI pipelines, enabling automated ESG data ingestion, dynamic recalibration of pillar scores, and near real-

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time scenario modelling. The AI architecture ingests internal and external ESG signals, applies the CEIM scoring logic, and visualises results via the Radar Map, Decision Tree, and Heat Vector Matrix within CarbonOps dashboards. Consultants can trigger AI-assisted deep dives on outlier SHV scores, auto-generate scenario analyses, and receive recommended interventions aligned with CarbonOps standards.

Through this synergy, CarbonOps ensures that ESG intelligence is both analytically robust and operationally responsive, empowering consultants to deliver client recommendations at unmatched speed and granularity.

Conclusion

The CarbonOps ESG Intelligence Model (CEIM) is the cornerstone of CarbonOps' analytical leadership, providing a proprietary, consultative ESG intelligence mechanism found nowhere else. Its four pillars, unique scoring equation, and exclusive visual and decision-support tools equip CarbonOps consultants to outpace industry standards in ESG insight and action. This methodology is strictly for CarbonOps internal application – its value rests in its exclusivity and continual evolution within our AI-driven ecosystem.

Appendix: Visual Templates

1. CEIM Radar Map (Sample Sketch)
2. CEIM Decision Tree (Sample Flowchart)
3. CEIM Heat Vector Matrix (Sample Table)

Note: For editable and operational templates, refer to the CarbonOps ESG Intelligence Suite dashboard.

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