



VantageHSG

Automated carbon compliance for heavy manufacturing.

Transform plant-floor operational data into continuous, source-backed proof for EPS, CBAM, and anti-greenwashing audits.

● Pre-Seed • \$300K CAD

SAFE • \$2.0M post-money cap • 15% dilution

Ontario, Canada • 2026

Why do most ESG tools fail for heavy industry?



r/carbonaccounting • Synthesis of discussion themes

“Most ESG software is designed for corporate travel and office spend, not physical factory operations. They cannot model process-level mass balance or parse LIMS spectrometer assays, forcing industrial engineers to rely on spreadsheets.”

Reference: [reddit.com/r/carbonaccounting/comments/1rtdk9b](https://www.reddit.com/r/carbonaccounting/comments/1rtdk9b)

The Spend-Based Estimation Trap

“\$10K of natural gas $\approx$ X tonnes CO_{2e}” collapses under statutory audit. Bill C-59 & EU CBAM demand primary-source, reproducible process data.

Factory Floor Reality

Plant engineers spend weeks copy-pasting from paper fuel slips, gas bills, and laboratory spectrometer printouts by hand every quarter.

Estimating emissions with generic standards is now a balance-sheet tax.

\$285,000 / audit

Ontario EPS: \$95 / tonne excess emissions rate (2026)

Direct cash liability for a 1% (3,000-tonne) reporting variance on a single 120,000-tonne steel plant under Ontario EPS.

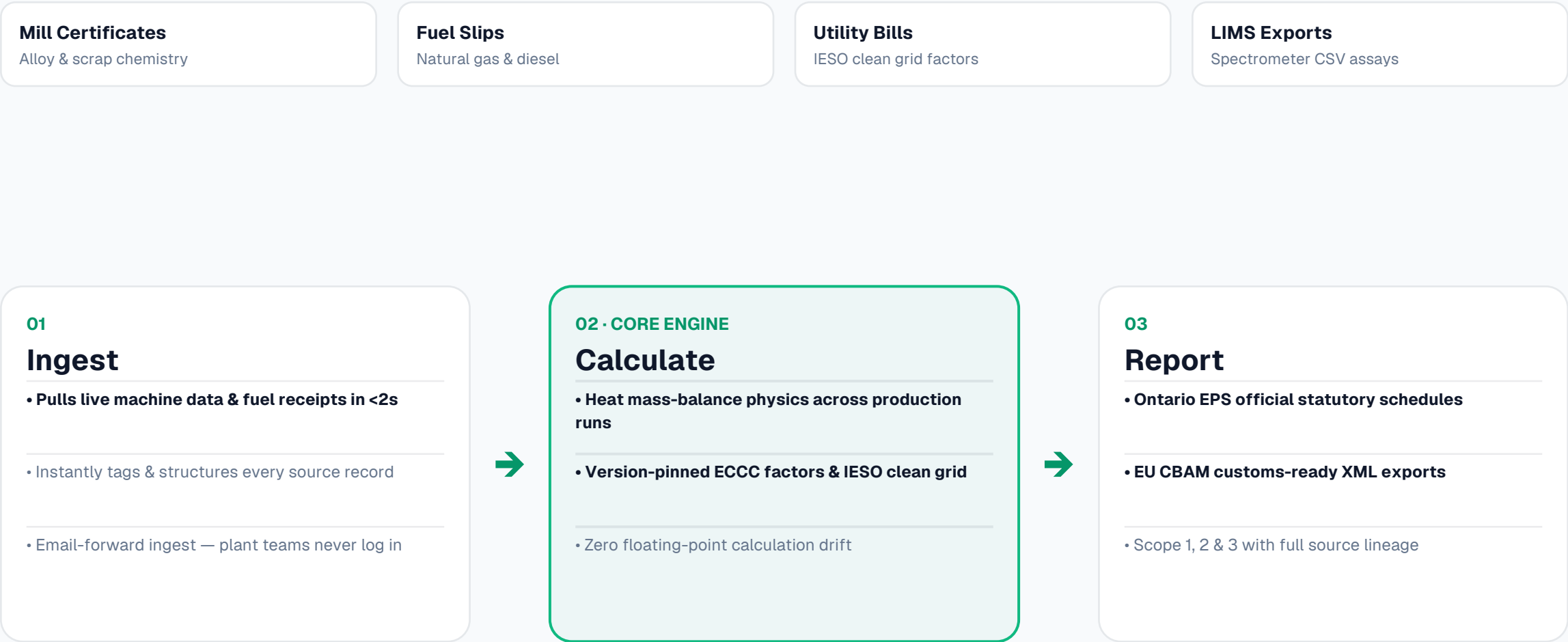
The Statutory Penalty

Under Ontario EPS and Bill C-59, unverified environmental numbers are statutory liabilities, not corporate marketing approximations.

The Strategic Takeaway

The real cost of a single metallurgical miscalculation under modern compliance regimes far exceeds the price of dedicated software.

Exact process calculations in three automated steps.



Capturing Ontario's industrial emissions footprint.

1,400+

Ontario NPRI facilities mapped

21M+

Tonnes of CO₂e under coverage

Immediate Statutory Exposure

Industrial processors facing mandatory provincial reporting thresholds (\$95+/tonne excess emissions exposure).

77

Iron & steel plants in corridor

60–90

Named beachhead accounts in GTHA & SSM

Strategic Takeaway

Immediate, pre-qualified demand across primary manufacturing corridors (Hamilton, Sault Ste. Marie, Sarnia, and Windsor).

Platform live and operational.

Live in Production

Deployed at vantagehsg.ca

Working software deployed with 1 prospective customer having expressed interest, backed by 185 ERP reseller channel contacts.

Deterministic Replay: PASS

Recalculation engine in production asserting <0.01% drift threshold against pinned factor versions with structured audit logging.

AUDIT LEDGER • ROW VIEW

REPRODUCIBLE 

Ledger ID	HSG-2026-Q1-00417
Source Document	fuel-slip_2025.pdf (SHA-256 pinned)
Factor Version	ECCC NIR 2024 v1.3 • stationary diesel
Output Line	13.06 tCO ₂ e • Scope 1
Replay Test	PASS • <0.01% drift verified

Built for physical plant operations, not generic corporate reporting.

DIMENSION	MANUAL ADVISORY / EXCEL	CORPORATE ESG (WATERSHED)	VANTAGEHSG
Primary-Source Documents	Manual, at audit time	Corporate spend rollups	Ingested continuously, pinned
LIMS Spectrometer Assays	Manual spreadsheet entry	Not natively supported	Native CSV & alloy chemistry
Sector Mass-Balance Models	Custom each time	Generic categories	Steel, cement, auto, chemicals
Statutory Filings (EPS/CBAM)	\$50K-\$100K/yr consultant PDF	Top-down corporate reporting	Official statutory schedules & XML
Price / Facility / Year	\$50K-\$100K + software	\$100K+ enterprise contract	\$22K / facility / yr

The wedge: US incumbents price for Fortune-500 sustainability teams and sell top-down. Ontario's mid-market industrial plants need installation-level, verifier-grade data for statutory compliance — and nobody is building for them.

Raising \$300K CAD to scale enterprise sales.

\$300K SAFE

17.4 Months Runway Floor

At \$0 revenue (\$17,296/mo average gross burn)

- Valuation Cap: \$2,000,000 CAD (15.0% Dilution)
- Base Case Plan: Delivers \$90,932 CAD cash remaining at Month 18 (12.8 months remaining at M18 burn rate).
- Month 18 Target: \$128,292 CAD ARR across 12 paying manufacturing facilities.

45% (\$134K) • Industrial Sales & GTM

Dedicated plant sales AE in Hamilton/Windsor + activating 185 ERP reseller contacts.

42% (\$127K) • Core Engineering & Connectors

Founder stipend, integration contractor, Neon Postgres & OCR document APIs.

13% (\$39K) • Legal, Audit & Contingency

SAFE closing, corporate tax, ISO 14064 compliance review + 5% operating reserve.