

ENERGY CARBON EMISSION LOGS

STRAVIK Construction Group · Controlled Document

Document No.	Revision	Effective Date	Document Owner	Status
STV-ENV-PRO-007	00 (Initial Issue)	2026-10-24	[ENVIRONMENTAL MANAGER]	Issued for review / pending approval

Management system alignment: This document is aligned with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 requirements as applicable. STRAVIK Construction Group does not claim third-party certification to these standards. Florida Certified General Contractor License No. [FL LICENSE NO.].

REVISION HISTORY

Rev.	Date	Description of Change	Prepared By	Approved By
00	2026-10-24	Initial issue for STRAVIK Construction Group	[PREPARED BY]	Michael Gaya, President

1 PURPOSE

To record, calculate, and monitor energy consumption and carbon emissions from STRAVIK Construction Group operations, supporting sustainability reporting, client environmental requirements, and continuous improvement toward net-zero goals.

2 SCOPE

Applies to all corporate offices, job sites, and equipment yards involving:

- Diesel, gasoline, and propane consumption
- Electricity and generator use
- Fleet vehicles and heavy equipment
- Temporary facilities and cranes
- Subcontractor energy use (where measurable)

3 REFERENCES

- ISO 14064-1:2018 Greenhouse-Gas Inventories
- LEED v4 EA Credits – Optimize Energy Performance
- Envision RA1.1 – Reduce Energy Consumption
- EPA GHG Emission Factors (2024)
- DEFRA Conversion Factors (UK Guidance)
- STRAVIK Sustainability Action Plan (STV-ENV-PRO-007)

4 RESPONSIBILITIES

Role Responsibility

Sustainability Maintain logs, update emission factors annually, consolidate data for Manager ESG reports.
Project Submit weekly energy data for site operations. Managers
Site Record daily fuel and electricity consumption. Superintendents
Equipment Verify meter and fuel log accuracy. Managers
HSE Manager Ensure integration with air-quality and noise-control measures.

5 EMISSION CATEGORIES

Scope	Description	Examples
Diesel generators, loaders, Scope 1 – Direct Combustion on-site pumps		
Scope 2 – Indirect	Purchased electricity	Temporary power, offices

Scope 3 – Value-Chain Subcontractor & Material delivery, staff travel (Optional) transport

6 CALCULATION METHOD

6.1 Formula $tCO_2e = (Fuel\ Quantity \times Emission\ Factor) \div 1000$
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- Diesel: 2.68 kg CO₂/L
- Gasoline: 2.31 kg CO₂/L
- Propane: 1.51 kg CO₂/L
- Electricity: 0.45 kg CO₂/kWh (Florida grid avg)

6.2 Data Frequency

- Daily: Fuel logs and meter readings
- Weekly: Electric meter data from temporary service panels
- Monthly: Corporate and yard utility bills

7 ENERGY LOG FORMAT

Emission Operational Source Type Quantity CO₂

Date	Site / (Diesel/Electricity (L /	Emission Factor	Equipment / Comments
	Project	(kg	Use Verifications
ity)	kWh) CO ₂ /unit)	ns (t) r	

202 Concrete Harper

5-	=C×D/10 pumps + J.	Baseline		
Townhome	Diesel	950	2.68	
11- mes 01 Harper 5-	00 =C×D/10	generator Torres record r Lighting		
Townhome 11- mes	Electricity	1600	0.45 00	+ office [NAME] — trailer

8 KPI REPORTING

Target (2025– Indicator Formula 2026)

tCO ₂ e per m ² constructed	Total tCO ₂ e ÷ Built Area (m ²)	≤ 0.045 t/m ²
tCO ₂ e per \$ revenue	Total tCO ₂ e ÷ Revenue (\$ million)	≤ 25 t/\$M

Target (2025– Indicator Formula 2026)

% renewable or low-carbon Renewable kWh ÷ Total kWh × 100 ≥ 10 % energy

(Baseline – Current) ÷ Baseline × Energy intensity reduction ≥ 15 %

9 MONITORING & REVIEW

- Weekly energy summary generated by Environmental Coordinator.
- Monthly trend review with Project Manager & Sustainability Manager.
- Annual corporate GHG inventory validated by ESG Director / 3rd party.
- Corrective actions recorded in CAPA Log (STV-QMS-PRO-009).

10 RECORD RETENTION

- Site fuel and electric logs — 5 years.
- Corporate GHG summaries — 10 years.
- All data stored in QMS SharePoint > “Energy & Carbon Archive”.

APPROVAL

Role	Name	Title	Signature	Date
Prepared By	[PREPARED BY]	[TITLE]		
Reviewed By	[QUALITY / HSE MANAGER]	[TITLE]		
Approved By	Michael Gaya	President		

This document is reviewed at least annually, or upon significant organizational, legal or operational change, and re-issued under document control per STV-GOV-POL-011.