



GREEN CONSTRUCTION

HOMES



GLOBAL CASE STUDY

Cameroon as the proving ground.
Ottawa as the scaling ground.

EXECUTIVE SUMMARY

Since 2018, Green Construction-Homes (GC-H Cameroon) has built a practical circular economy platform spanning organic waste recovery, biodigesters, biogas, natural fertilizer, zero-waste education, institutional pilots, and knowledge transfer.

The significance for Ottawa's diverse buyer ecosystem — *from federal departments and property managers to restaurants, universities, NGOs, and high-tech ESG companies* — is not only what was achieved, but where: in a harder operating environment where systems had to be created, trusted, and delivered from the ground up.



200+

Biodigesters units
deployed since 2019

70+

Households recycling
organics at source

20+

Schools in zero-waste
education programs

639 t

Estimated organics
diverted (conservative)

**319-639
tCO₂e**

Estimated carbon
benefit avoided



1. THE PROBLEM GC-H WAS BUILT TO SOLVE

GC-H was created in a context where circular economy systems had to be built from scratch. Organic waste was underused or poorly managed, zero-waste education was absent, green technologies were untranslated into practical local models, and institutional adoption required both trust and patient implementation.

Unlike a mature market where sustainability services already exist, GC-H entered an environment where circularity had to be created, demonstrated, negotiated, and delivered in real operating conditions — with no established supply chains, no pre-existing community behaviour, and no institutional precedent to lean on.

That context is the core credential. Ottawa buyers facing organic waste compliance mandates, ESG reporting pressure, green building targets, or circularity program design are not looking for someone who has learned sustainability in a supportive environment. They are looking for a founder who has built these systems where it was genuinely hard.

2. THE SOLUTION GC-H BUILT

GC-H responded with an integrated approach combining engineering preparation, green entrepreneurship, biodigester technology, training programs, international partnerships, institutional engagement, feasibility studies, design, implementation, monitoring, and knowledge transfer across six capability pillars

EDUCATION & AWARENESS

Zero-waste programs, school engagement, behaviour change, and community training.

TECHNICAL DELIVERY

Biodigesters, biogas systems, fertilizer production, and ecological gardens

INSTITUTIONAL DEVELOPMENT

Ministries, embassies, parliament, municipalities, and diplomatic partners.

FEASIBILITY & DESIGN

Green Park Cameroun, fertilizer plant concepts, and recycled container facilities.

MONITORING & TRANSFER

Follow-up, optimisation, delegation training, and engineering mentorship.

ENTREPRENEURIAL LOGIC

Market creation, local value chains, service categories, and green jobs pathways.



3. IMPACTS — TRANSLATED FOR OTTAWA BUYERS

IMPACT AREA	WHAT GC-H DEMONSTRATED	WHY THIS MATTERS FOR OTTAWA BUYERS
ENVIRONMENTAL	200+ Biodigesters technologies deployed since 2019; 70+ households separating and recycling organics at source; 20+ schools in zero-waste learning; estimated 639 tonnes of organics diverted; estimated 319–639 tCO ₂ e avoided.	Proven capability in organic waste capture, source separation, and measurable diversion — directly applicable to property managers under Ottawa By-law 2024-453, restaurants and IC&I operators under Ontario O. Reg. 103/94, and federal facilities with GHG reduction reporting obligations.
SOCIAL	School clubs, stakeholder training, public awareness, delegation training in Mali, engineering mentorship, and institutional engagement across ministries, embassies, and municipalities.	Ability to design and deliver the human side of waste systems — training, participation, communication, long-term adoption. Essential for universities and colleges under O. Reg. 102/94 waste audit obligations, NGOs, and community-facing institutions.
ECONOMIC	Early market pathways in biogas, organic fertilizer, sustainability services, ecological agriculture, and micro-hub logic. Estimated 2,555,000 L of liquid biofertilizer and 76,650 m ³ of biogas produced under conservative assumptions.	Demonstrates how organic waste becomes a recurring value stream rather than a cost centre — relevant to food businesses, property managers, and high-tech companies building ESG-aligned circular economy business cases and investor reporting.
INSTITUTIONAL / STRATEGIC	Engaged the Embassy of Israel, Cameroon’s Ministry of Secondary Education, the National Assembly, the Presidency of the Republic, the British High Commission in Yaoundé, the University of Ottawa, and regional actors in Mali.	Founder-level maturity in cross-sector trust-building and implementation under institutional scrutiny — a direct fit for federal departments operating under the Greening Government Strategy, Crown corporations, and university partners in Ottawa.

4. OTTAWA & ONTARIO COMPLIANCE LANDSCAPE — WHAT BUYERS MUST NAVIGATE

Every Ottawa buyer segment now operates within a tightening regulatory framework. The table below maps the key bylaws and obligations that FT Circularity Consulting Ltd helps clients understand, design for, and document compliance against — grounded in GC-H’s proven field experience.

REGULATION / BYLAW	WHO IT APPLIES TO	KEY OBLIGATION FOR OTTAWA BUYERS	WHERE FT CIRCULARITY CAN HELP
City of Ottawa By-law 2024-453 (updated 2025-467)	Property managers of multi-residential buildings (6+ units)	Mandatory participation in the City’s Green Bin organics program. All 1,050 remaining properties being onboarded 2024–2028 in four tiers. Solid Waste Inspectors have right of entry to verify compliance. Non-participating properties risk loss of City waste collection services.	Organic waste audit, green bin program design, resident communication, staff training, and compliance documentation
Ontario Food & Organic Waste Policy Statement (O. Reg. 103/94)	IC&I operators: restaurants, hotels, schools, hospitals, food processors	Source separation of designated recyclables and organics is mandatory. Educational institutions generating 150+ kg of organic waste per week must source separate. IC&I operators subject to waste audit and waste reduction work plan obligations under O. Reg. 102/94.	Waste audits, source separation program design, reporting, and staff engagement.
Ontario’s Landfill Ban Target (2030)	All waste generators — residential, commercial, institutional	Ontario has committed to phasing out food and organic waste from landfills by 2030. The province’s target for multi-residential is 50% recovery by 2025. The City of Ottawa’s Energy Evolution Strategy targets 98% organics diversion from landfill.	Circularity strategy, program design, feasibility studies, and diversion tracking.
Federal Greening Government Strategy (updated 2024)	Federal departments, Crown corporations, and federal Building operators in Ottawa	40% reduction in Scope 1 and Scope 2 GHG emissions by 2025 (from 2005 baseline); net-zero by 2050. Starting 2025, PSPC is prioritizing net-zero leased space. Departments report annually on environmental performance including waste. The CGBS (July 2024) focuses on decarbonizing 34,000 federal buildings	GHG reduction planning, organic waste program design, ESG reporting, and sustainability advisory
Ontario O. Reg. 102/94 (Waste Audit & Work Plans)	Large IC&I establishments — offices, retail complexes, universities, hospitals	Designated entities must complete waste audits, prepare waste reduction work plans, and update them annually. Universities and colleges with 350+ enrolled persons are designated. Implementation and reporting is the operator’s responsibility	Waste audit delivery, reduction work plan preparation, and annual update support.

Key compliance dates Ottawa buyers cannot ignore

GC-H responded with an integrated approach combining engineering preparation, green entrepreneurship, biodigester technology, training programs, international partnerships, institutional engagement, feasibility studies, design, implementation, monitoring, and knowledge transfer across six capability pillars

5. CONTINUITY OF CAPABILITY: 2018–2025

The strength of GC-H lies not only in isolated milestones but in the continuity of capability built year after year — a track record that every Ottawa buyer segment can evaluate, verify, and trust as the foundation for FT Circularity Consulting’s Ottawa practice.

2018–2019	Company launch in Yaoundé; USGBC alignment; Greenbuild participation; OAPI accreditation; HomeBiogas technical training in Israel.
2020	Exclusive HomeBiogas partnership; Clean School Initiative pilot with MINESEC and the Embassy of Israel; Zero Waste policy presentation at the National Assembly.
2021	National biodigester deployment; British High Commission ecological renovation work; Zero Waste clubs in schools; Bamendjou fertilizer mini-unit.
2022	Mali training delegation; Green Park Cameroun Phase 1; University of Ottawa speaking engagement; GREEN MAGIC Fertilizer development; COP15 participation in Montréal.
2023–2024	Port of Kribi recycled-container design; fertilizer-plant concept development; Presidency Zero Waste design and implementation support; PROMOTE 2024 national recognition.
2025	Optimization of the Presidency program; deployment path targeting 10,000 green jobs; FT Circularity Consulting launches Ottawa market engagement.



6. WHY THIS MATTERS FOR EACH OTTAWA BUYER SEGMENT

Cameroon was the preparation ground. Ottawa is the scaling ground. GC-H built circular economy capability where systems were weaker, awareness had to be created, trust had to be negotiated, and delivery was harder. Below is what that experience means for each Ottawa buyer type — specifically.



PROPERTY MANAGERS & REAL ESTATE

Ottawa By-law 2024-453 (mandatory Green Bin, 2024-2028) · Ontario landfill ban by 2030

GC-H built and operated organic separation systems serving 70+ households — directly comparable in scale and complexity to a mid-size Ottawa residential building. That experience translates into practical program design, resident communication, container logistics, and the compliance documentation that Solid Waste Inspectors require under By-law 2024-453. FT Circularity helps property managers move through the mandatory onboarding tiers ahead of deadline, not behind them.

RESTAURANTS & FOOD SERVICE

Ontario O. Reg. 103/94 · Food & Organic Waste Policy Statement · Landfill ban 2030

GC-H's core work was organic waste valorization at the community and institutional scale — food waste separation, biodigester feeding, output tracking, and behaviour change across 70+ households and 20+ schools. Ottawa restaurants and caterers face the same operational challenge: source-separate, document, and divert organic waste under growing provincial IC&I obligations.

FT Circularity delivers organic waste audits, staff training, waste reduction work plans (O. Reg. 102/94), and compliance documentation — practical support that helps restaurants meet obligations and build a credible sustainability narrative.



UNIVERSITIES & COLLEGES

O. Reg. 102/94 (waste audit) · O. Reg. 103/94 (source separation) · 150 kg/week organic threshold

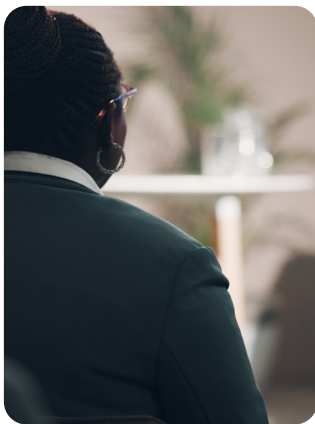
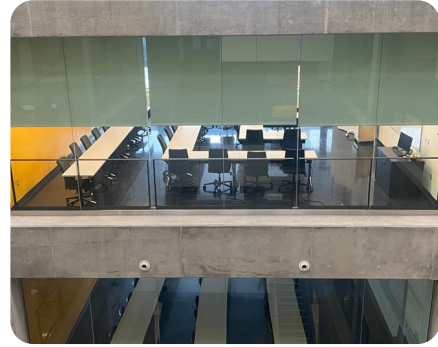
GC-H built 20+ school zero-waste education programs from scratch — curriculum design, club formation, teacher training, and student engagement. Ottawa universities and colleges (uOttawa, Carleton, Algonquin) face mandatory waste audit and source separation obligations for large campuses, plus growing institutional pressure for visible sustainability leadership. FT Circularity brings the education program design, waste audit delivery, and stakeholder engagement experience to help campuses meet regulatory requirements and build the programs students and researchers expect.

NGOS & NON-PROFITS

Ontario Food & Organic Waste Policy Statement · City of Ottawa Energy Evolution Strategy (98% diversion target)

GC-H worked alongside community organizations, municipal actors, and grassroots groups across Cameroon — building coalitions, designing knowledge transfer programs, and maintaining trust in environments with limited resources. Ottawa NGOs and non-profits working on food security, community sustainability, or environmental programs face the same challenge: doing credible, measurable work with constrained budgets and diverse stakeholders.

FT Circularity brings the coalition-building, training design, and outcome-documentation experience to help mission-driven organizations deliver and prove their impact.



FEDERAL DEPARTMENTS & CROWN CORPORATIONS

Greening Government Strategy (40% GHG by 2025, net-zero 2050) · PSPC net-zero leased space (2025+) · Annual dept. sustainability reporting

GC-H engaged Cameroon's National Assembly, the Presidency of the Republic, the Ministry of Secondary Education, the British High Commission, and the Embassy of Israel — navigating multi-stakeholder institutional environments where credibility, reporting discipline, and cross-sector communication are non-negotiable. That track record maps directly to Ottawa's federal procurement and sustainability landscape.

FT Circularity helps departments and Crown corporations design organic waste and circularity programs that generate the documented GHG reduction outcomes, waste diversion figures, and ESG narratives required for annual departmental sustainability reporting under the Greening Government Strategy



HIGH-TECH & ESG-DRIVEN COMPANIES

GRI / TCFD / CSRD frameworks · Investor ESG disclosure expectations · Canada Green Buildings Strategy (July 2024) · Net-zero by 2050 alignment

Ottawa's technology sector — Shopify, Nokia, L3Harris, Kinaxis, federal ICT contractors — faces growing pressure from investors, clients, and talent to demonstrate measurable ESG performance, not just ESG language. GC-H produced quantified, methodology-backed outputs: 639 tonnes diverted, 319–639 tCO₂e avoided, 2,555,000 L of biofertilizer, 76,650 m³ of biogas — using a transparent, conservative approach designed for planning and reporting.

FT Circularity brings this same reporting discipline to Ottawa's high-tech sector: circular economy program design, organic waste reduction strategies, GHG-quantifiable sustainability initiatives, and the ESG documentation that boards, investors, and reporting frameworks require. For companies pursuing LEED certification, net-zero alignment, or supplier sustainability standards, FT Circularity provides field-tested advisory that turns ESG commitments into verifiable outcomes





GC-H Cameroon was not a side story before Ottawa. It was the live proving ground that prepared the founder, the systems, and the operating discipline for FT Circularity Consulting to address organic waste, circularity, and sustainability challenges across Ottawa's most demanding institutions, properties, restaurants, campuses, and high-tech companies.

— FOAMENOM TABOU
Founder & Principal Consultant,
FT Circularity Consulting Ltd.



READY TO EXPLORE WHAT THIS MEANS FOR YOUR OTTAWA OPERATION?

FT Circularity Consulting Ltd. offers a no-commitment discovery conversation to assess your organic waste, circularity, or sustainability obligations — and show how our field-tested approach creates measurable value from day one.

WEBSITE : WWW.FTCIRCULARITYCONSULTING.CA

TELEPHONE : +1 613 325 2556 / (+237) 677 771 825

E-MAIL : OFFICE@FTCIRCULARITYCONSULTING.CA