



Enviro-Stewards

Celebrating 25 years of
Engineering Change

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Enviro-Stewards' launch.

After a decade working for multinational consulting firms, Bruce Taylor, P.Eng, founded Enviro-Stewards in **September 2000**.

Enviro-Stewards was founded with a mission to:

Provide Clients Services to:

- Conserve Resources, and
- Address Environmental Liabilities

Provide Staff a Vehicle to:

- Serve People, and
- Care for Creation

First project: NASA's Space Shuttle

Enviro-Stewards 1st project was completion of a project Bruce landed for a previous employer (to conceive, prototype, design, and commission a system to recycle 100% of the water used to pressure clean the space shuttle's booster rockets).

1



2

Rainwater harvesting & reuse.

First New Customer!

Enviro-Stewards' first new customer was Krug Furniture, who had dust settling on their furniture (originating from calcium in the City water supplied to their humidification system).

Enviro-Stewards designed and commissioned a rainwater treatment & reuse system to instead supply rainwater to the humidification system because rainwater contains no solids (naturally distilled).

Follow-on work

- Krug remains a customer of Enviro-Stewards
- Krug allowed its case study to be featured in a Cleaner Production training course that the University of Toronto retained Enviro-Stewards to deliver in Laos
- Rainwater harvesting & reuse was employed to wash buses in Guelph (avoiding the need for spot remover) and Enviro-Stewards' blue roof projects



Drinking water treatment.

In May 2000, drinking water contamination with *E. coli* in Walkerton, Ontario, Canada resulted in 2,300 illnesses and 7 deaths.

The resulting stricter drinking water regulations led to an abundance of work for Enviro-Stewards, designing affordable & effective drinking water treatment systems for schools, nursing homes, and summer camps.



Origin of Safe Water Social Venture Work

Design of the treatment system for the Langskib canoe in camp was particularly challenging as it lacked electricity.

A Biosand filter (**top right image**) fed by a gas-powered pump was selected for the camp.

In January 2004, Enviro-Stewards' founder was travelling to South Sudan to help construct an orphanage.

Upon learning that the widow's association operating the orphanage was walking 3 miles to fetch water from a (*E. coli* contaminated) well, Bruce took along with him a Biosand filter to purify creek water for the orphanage.



Water conservation.

Enviro-Stewards has provided water conservation services for all 5 water conservation programs in Ontario.

Typical results:

- Average **36% water savings/facility**
- Average **payback of 1.5 years**



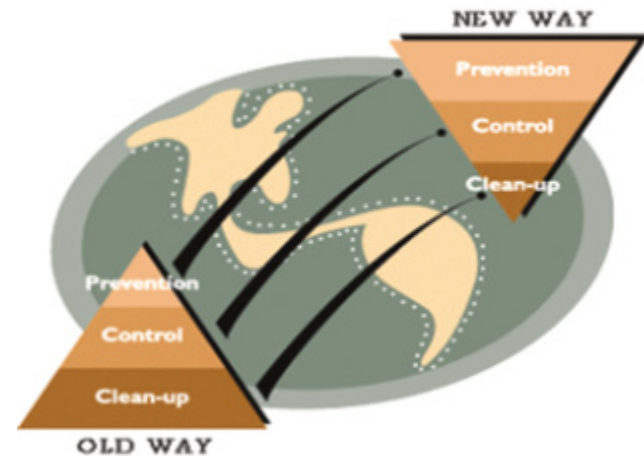
Region of Waterloo



Pollution Prevention (P2).

Pollution Prevention (also known as cleaner production) recognizes that minimizing or avoiding the creation of pollutants and wastes is more effective than treating them or cleaning them up after wastes have been created.

Enviro-Stewards' article (Encouraging industry to assess and implement cleaner production measures) was featured in the Journal of Cleaner Production.



When one door closes, another opens

In 2001, the Region of Waterloo issued a multiyear RFP for P2 providers on the same day that our founder left for a trip rebuilding earthquake damaged homes in El Salvador. The RFP response was written in the field (pictured right) and sent a week ahead of the deadline.

However, it reportedly arrived 15 minutes late and Enviro-Stewards was locked out of the bid.

A reviewer then referred us to a similar provincial program (Onsite Technical Assistance Program). Enviro-Stewards completed 27 P2 assessments under that program with a 90+% implementation rate.



"Nine to five"

Preparation of a proposal in Las Lajas, El Salvador (photo by Brad Arndt, 2001).

Wastewater treatment.

Industrial wastewater treatment was an original core competency of Enviro-Stewards. Our differentiator is to first reduce the root causes generating wastewater within manufacturing plants and then effectively treat the remaining wastewater.

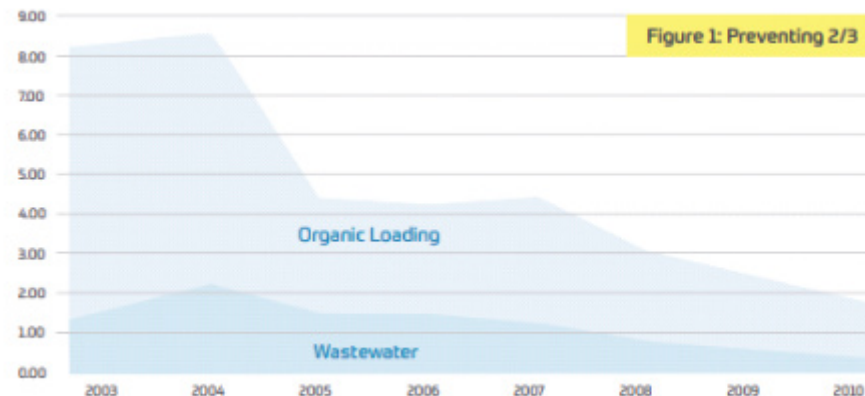
Reduce then Treat: Jackson Triggs, Oliver BC

Jackson Triggs winery had been using 85% of the town's wastewater treatment capacity.

Enviro-Stewards started with identifying and implementing conservation measures within the winery to reduce the volume of wastewater requiring treatment by $\frac{1}{2}$ and the amount of wine lost to the sewer by $\frac{2}{3}$.

We then designed, tendered and supervised the construction & commissioning of a high-rate anaerobic digestion process (pictured at right) that reduced effluent loadings by an additional 95%.

The in-plant measures cut the capital cost of the effluent treatment system in half, while generating annual savings of water and wine yield.



Jackson Triggs, Oliver BC

High-rate anaerobic wastewater treatment system.

Food loss prevention.

One third of food is currently wasted. Theoretically, this is 3 times the amount it would take to feed the 1/9th of people who do not have enough to eat.

Food loss prevention & upcycling (source reduction) is the only solution that retains the social, environmental, and economic value of food.

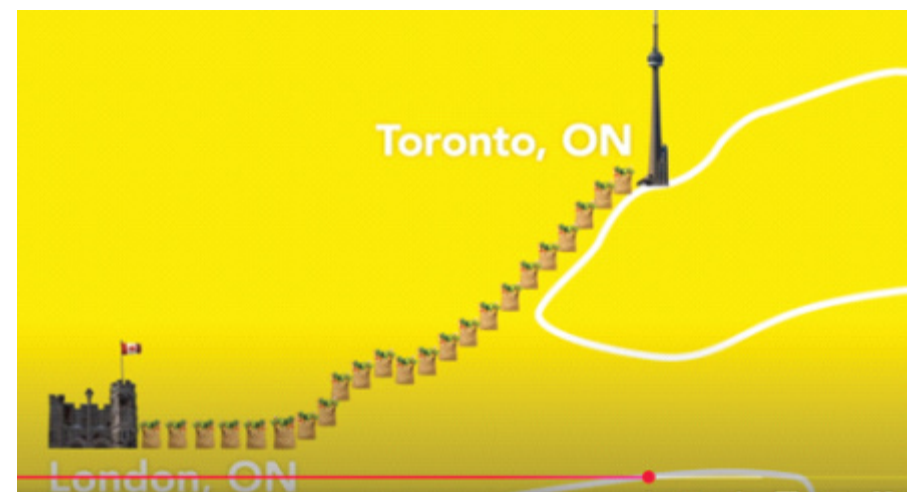


Food Loss Prevention Case Study

Under a Walmart Foundation grant, Enviro-Stewards identified food loss prevention measures for 50 food & beverage processors across Canada.

The assessments found annual savings averaging **\$230,000 per facility** (with paybacks of under one year).

Amazingly, if you placed a grocery bag beside the CN tower in Toronto and another beside it, you would reach 200 km (125 miles) to London, Ontario, before you ran out of grocery bags.



Energy conservation.

Energy conservation is the most profitable and lowest impact “source” of energy. Rather than shaving a few percentages off consumption, Enviro-Stewards asks what job is the energy solving for you, and how else could that job be accomplished.



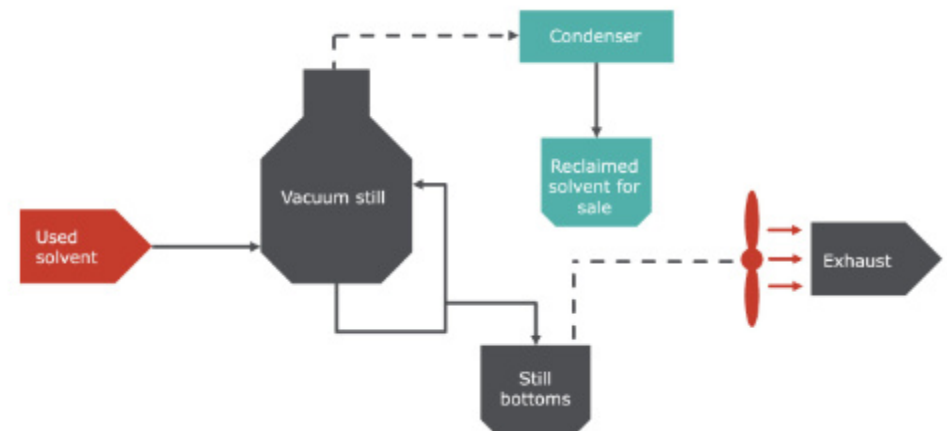
Southbrook winery avoided 1/3 of their solar panels by implementing measures that cut energy usage by 40%

Root Cause Analysis: Solvent Recycler in Auto Sector

A recycling facility received used paint solvent from Ontario’s automobile manufacturing facilities. They operated a still to recover the solvent for sale back to the automotive companies.

Enviro-Stewards' energy assessment found that an exhaust fan forced a lot of heat out of the building. Volatile organic compound metering found that the majority of solvent fumes were emitted by the still bottom tank.

By venting those fumes to the existing condenser, the fumes condensed into solvent (to be sold) and the exhaust fan could be slowed or eliminated (saving heat as well as the electricity used for the fan).

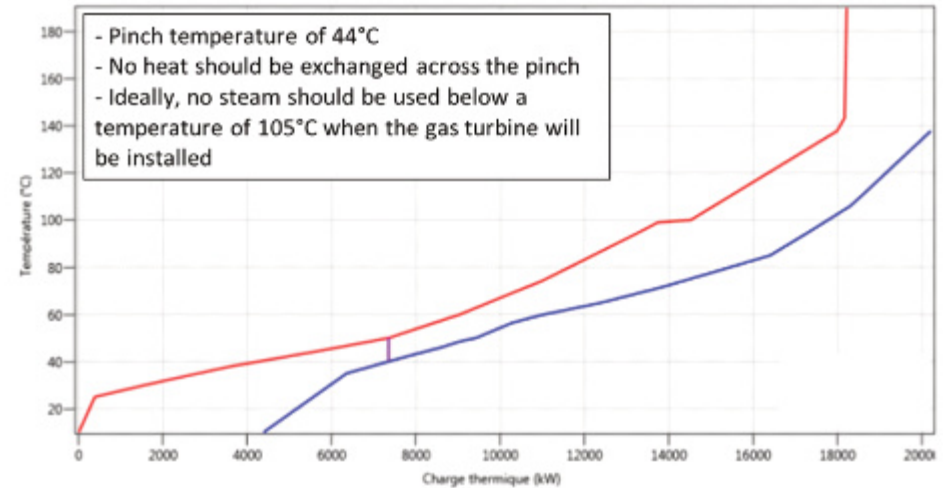


A toxic reduction study found that a wall fan could be slowed or eliminated (saving energy) by recovering solvent that was previously lost to the air.

Process integration.

When you purchase electricity or natural gas, it ultimately ends up as heat. A Process Integration (PI) assessment involves measuring processes emitting heat (sources) and process requiring heat (sinks).

Significant economic & environmental savings can be generated by matching various sources & sinks (i.e. heating this thing with that thing that needs to be cooled anyways).



A Process Integration (PI) energy conservation study for Campbell Soup found \$1.645 million/yr of savings through heat & cooling reuse (with <2 year payback)

Process Integration at Campbell Soup

Process Integration assessment at Campbell Soup's factory in Toronto identified:

- 3,233,000 kWh/yr (140 tonnes)
- 4,570,000 m³/yr of gas (8,700 tonnes)
- 123,000 m³ of water (6 tonnes)
- \$1,645,000/yr with 2-year payback

Subsequent (award winning) food loss prevention work at Campbell found \$706,000/yr of food savings with a 0.5-year payback.

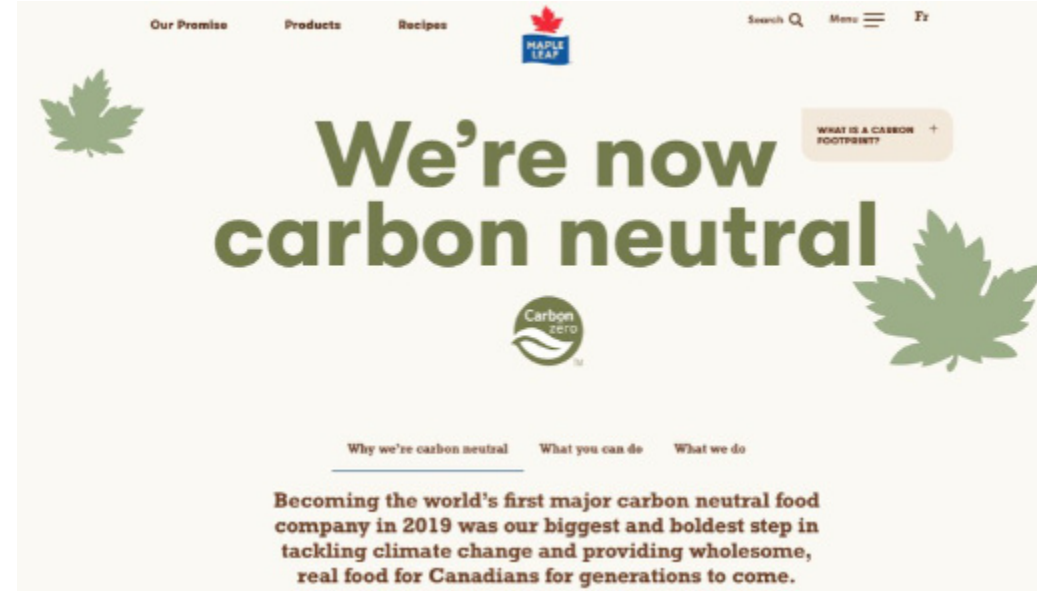


Decarbonization.

Many firms are making bold decarbonization commitments but struggle to find credible & affordable action plans to secure these goals. Enviro-Stewards approach consistently identifies & implements quick win & strategic measures to significantly reduce resource consumption. This generates credibility & annual savings to finance the remainder of the journey.

Decarbonization Action Plans:

- Enviro-Stewards (2018)
- Maple Leaf Foods (2019), worlds 1st carbon neutral major food manufacturer, \$17M savings to date
- Unilever (2030), 7 facilities, national award
- Maple Lodge (2030)
- Toyota Boshoku, Elmira (2050)
- Jamieson Wellness (2050)



World's first carbon neutral major food company

Enviro-Stewards assessments at 35 Maple Leaf Foods facilities throughout North America identified 1,300 practical & affordable conservation measures. By 2019, over 600 of those measures had been implemented and Maple Leaf purchased credits to become carbon neutral.

We continue to implement measures (which reduces the number of credits needing to be purchased each year) and Maple Leaf reports that not only are they carbon neutral, they have saved \$17 million to date.



Stewwi

Enviro-Stewards' **S**ystem to **T**rack **E**nergy, **W**ater and **W**aste **I**mprovement (Stewwi) software platform guides organizations from baseline establishment through to verified achievement of targets.

The status and outcomes of each conservation measure are logged and algorithms provide push notifications when expected gains are no longer realized.



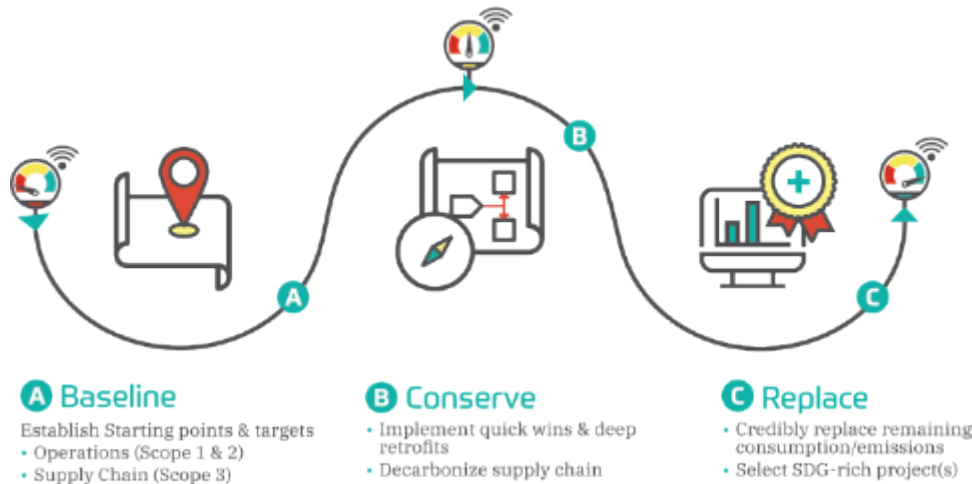
Stewwi alpha test site, Gay Lea, won a national award for its decarbonization progress.

Two Alpha test sites for Stewwi win national awards

Prior to its official launch, several of Enviro-Stewards' customers pilot tested the software platform.

On October 15, 2025, six of Gay Lea's dairies and Unilever's Hellmann's mayonnaise facility both won national Clean50 awards.

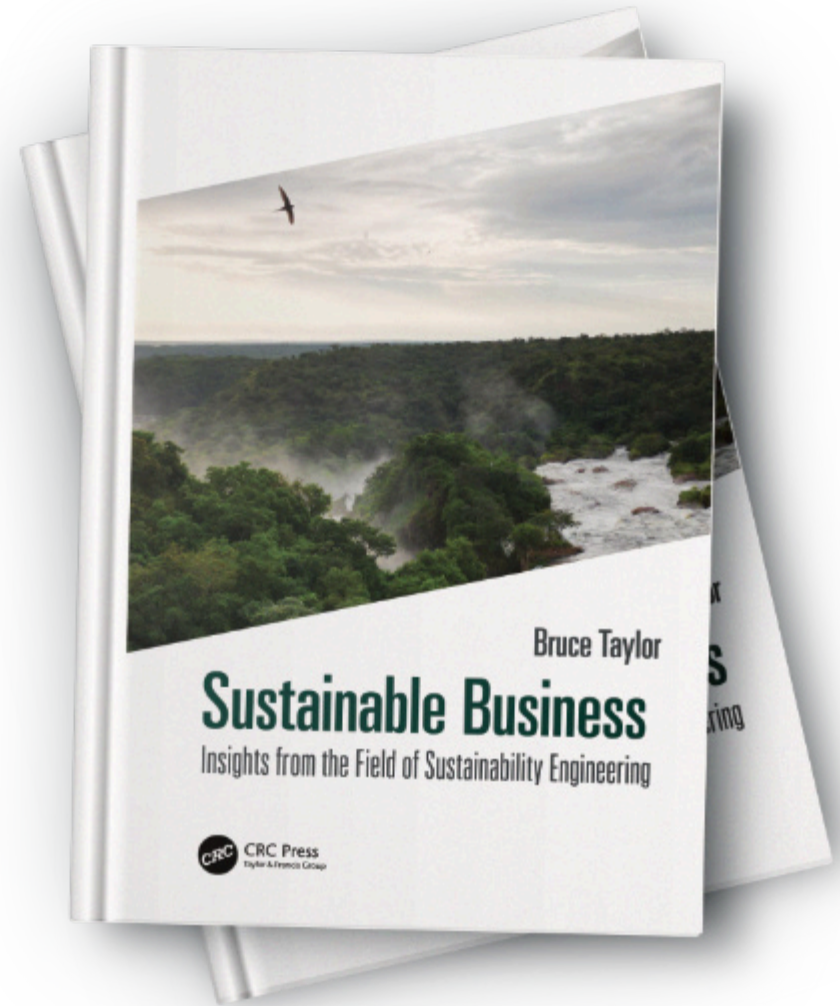
Credible Affordable Decarbonization



GreenSkills training.

EMC retained Enviro-Stewards to develop and deliver an 8-part green skills training course. Students receive a micro-credential after implementing a project during the course. The course follows Enviro-Stewards' Sustainable Business Textbook, that was published in April 2025, which includes:

- The Business Case for Sustainability
- Economic, Environmental & Social Sustainability
- Sustainability Skills Bootcamp
- Resource Conservation Skills
- Implementing Change
- The Power of Purpose



Sustainable Business Textbook

The textbook includes 25 case studies and 100% of textbook proceeds support Safe Water Social Ventures.

Safe water & renewables.

The last mile of sustainability journeys provides an opportunity to equitably magnify the impact of your investment.

Our advice is to partner with a specific & inspiring project that you feel comfortable defending (rather than purchasing credits on open market).



Enviro-Stewards is frequently asked, 'Why aren't there solar panels on your roof?'

We recommissioned solar panels on an orphanage in South Sudan which receives twice as much useful daylight as Elmira, Ontario, and previously operated a generator to provide its electricity.



Planting trees is one of the most cost effective and impactful ways to remove carbon from the air. Even better, what if you don't cut down a tree!

Enviro-Stewards procures carbon offsets (for the remaining 10% of its footprint) from safe water projects that avoid the need to boil water.

We also train and equip local safe water social venture teams to provide safe water in their communities (swsv.org).

Enviro-Stewards 2.0: leadership transition.

Enviro-Stewards has grown from a sole practitioner to a team of 20 dedicated & caring professionals.

For Enviro-Stewards' purpose to be fulfilled, its founder must not lead as long as they are able to lead, but rather lead until the next generation of leaders have been sufficiently trained and equipped to do so.

Mission

We cultivate resilient businesses and improve lives in extraordinary ways.

Vision

To be an internationally recognized and sought after leader for maximizing resource efficiency and creating social benefit.

Values

We Love People
We love our planet
We're authentic
We're agents of change



Leadership transition

Bruce handing off our mission, vision & goals document to the next generation of leaders (Mats and Spencer), who will be the president and vice president on our leadership team, starting January 1, 2026.

Bruce will stay on as founder with the roles:

- Brand Ambassador
- Strategic Projects
- Safe Water Social Ventures (director)

Project awards.

2008 North York General Hospital (CCME)

2014 Tim Hortons

2016 Andrew Peller Winery

2018 Campbell Soup

2018 Southbrook Winery

2019 Region of York (OWWA)

2019 Maple Lodge Farms

2019 Dextran Pharmaceuticals

2020 Walmart Foundation

2020 Smithfield Foods (MVP2)

2021 Maple Leaf Foods

2022 Bimbo Canada

2025 CVC's Blue Roof

2026 Gay Lea

2026 Unilever



Canada's Sustainability Heroes

2014 Clean50

Sustainability Contributions in Clean Capitalism

The Clean50 Awards are given annually to 50 individuals or small teams in 16 categories, who have made the greatest contribution to clean capitalism and sustainability in Canada over the prior two years. Clean15 Projects are those considered to be the most impactful initiatives in Canada.

It will take a combination of leadership, collaboration, innovation, energy and, ultimately, political will to move Canada through the obstacles towards cleaner, healthier, sustainable management of our bountiful resources and our uncertain future. Our solutions will require brave new policy, actions, and scientific and economic tools, built with long term vision.

The work of Canada's sustainability tool-smiths is shining the way on our journey towards sustainable, equitable, responsible prosperity.

Congratulations to 2014 Clean50 Project Honorees:



Enviro-Stewards
Engineering & Sciences

Fruition
FRUITS & FILLS

Tim Hortons

Enviro-Stewards and Fruition Fruits & Fills

Waste Discharge Reduction

PROJECTS

In-plant measures in Ontario are saving \$490,000/yr with an ROI of 260%, and reducing loading to sewer 80%, landfill 70% and GHG emissions 30%. A portion of the savings sponsored 40 BioSand Filters that purify 800,000 L/yr of drinking water and avoid 120 tonnes/yr of GHG in South Sudan, Africa. Fruition Fruits & Fills is a subsidiary of Tim Hortons Inc. Enviro-Stewards Inc. is an engineering firm and Certified B Corporation that helps clients increase their profits, sustain the environment, and compellingly benefit society.

www.enviro-stewards.com

www.Clean50.com



Visit our
website to
learn more.