

# Annual Public Benefit Statement 2020.

of Enviro-Stewards Inc., an engineering firm and Certified B Corporation that helps clients increase their profits, sustain the environment, and compellingly benefit society.

## Objectives

Enviro-Stewards' public benefit purpose is to cultivate resilient businesses and improve the lives of people in extraordinary ways.

Specifically, we improve the economic, environmental and social sustainability of corporations and empower groups in developing countries to sustainably provide safe water.

In the interests of those materially affected by the corporation's conduct, we strive to provide meaningful employment at greater than a living wage while building up the capacity of corporations and development groups to sustainably benefit society and the environment.

## Standards

To track progress on our public benefit objectives, Enviro-Stewards tracks the following:

- B Corporation's [Impact Reports](#)
- Sustainable Waterloo Region's [Sustainability Reporting Directory](#)
- Living Wage [Tracking of Champions](#)
- Internal Tracking of Sustainability Impacts of Enviro-Stewards' Projects (spreadsheet)
- Internal Tracking of the Impacts of the Safe Water Project (spreadsheet)
- Tracking of direct & indirect impacts on Global SDGs (see attachment at end of this statement)

## Results

B Corporation

- In 2020, Enviro-Stewards received an audited score of **149** (for reference 80 is required for certification); we are due to recertify during 2021.
- The score was so high that we received designation as a Best for the World Business for Overall Impact ([press release](#)). In addition, Enviro-Stewards was recognized as a top-performing B Corporation in each and every category that they are measured: Best For Environment, Best For Customers, Best For Governance, Best For Community, and Best For Workers.

## Sustainable Waterloo Region

- Enviro-Stewards committed to and achieved its commitment to reduce emissions per employee by **80%** per employee by 2018. During 2020, Enviro-Stewards maintained a **78%** reduction in Scope 1 & 2 GHG emissions (relative to our baseline year of 2008) and offset twice the remaining absolute emissions.
- Based on our work reducing our own footprint and helping clients reach net zero, Sustainable Waterloo Region released a masters level video featuring Enviro-Stewards ([masters video](#)).

## Living Wage

- All Enviro-Stewards' full-time and part-time employees (including student positions) earn at least a living wage, and all contracted staff are paid a living wage ([LW site](#)).

## Enviro-Stewards Projects

- As of the end of December 2020, Enviro-Stewards projects are estimated to have saved facilities **\$134.9 million** with an average payback period of 0.9 years and avoided\*:
  - **101 million m<sup>3</sup>** of natural gas (enough to heat 37,600 homes for a year)
  - **150 million kwh** of electricity (equivalent to annual output of 586 acres of solar panels)
  - **20.7 million m<sup>3</sup>** of water (equivalent to 9,800 km of water tankers bumper to bumper)
  - **245 thousand tonnes** of GHG emissions (equivalent to 52,200 vehicles)
  - **102 thousand tonnes** of waste (equivalent to annual garbage from 132,000 people)

\*Note: A third part assessment found that 90% of Enviro-Stewards customers intend to implement all or most recommendations. The estimates above conservatively assume a 60% implementation rate and an implementation lag period of 0.5 year. However, in practice, most customers commence implementing measures immediately.

- Enviro-Stewards' customer Maple Leaf Foods became the World's First Major Carbon Neutral Food Company (November 2019). According to their public reporting, they are saving \$12,000,000/yr in operating costs due to the approach taken (we assessed 34 of their facilities to find opportunities to first reduce water & energy consumption prior to their offsetting the remainder of the emissions).

## Safe Water Project

- Enviro-Stewards was previously awarded a national [Energy Globe Award](#) for the safe water social ventures launched in South Sudan and featured in a [TEDx talk](#). During 2020, Enviro-Stewards was able to help a local NGO launch a new safe water project in Pakwach, Uganda (where 90% of residents presently consume untreated water from the Nile River). We are also refining our tools to make them available to anyone else wanting to use a market based solution to sustainably provide safe water ([start your own project](#)).
- As of the end of December 2020, the Safe Water Project founded by Enviro-Stewards is estimated to have:
  - Installed **2,185** biosand filters, of which 1,333 are thought to remain in service\*\*
  - Purified **112 million litres** of water
  - Saved **9,100 trees**
  - Avoided **15,500 tonnes** of GHG emissions

- Avoided **6,400 cases** of typhoid
- Created **17 jobs** in developing countries, and
- Added **26,000 years** of Health Adjusted Life Expectancy (HALE)

\*\* Note: Due to escalation of the civil war in South Sudan, it is no longer safe to reinspect biofilters there to ensure they are still in service. For conservatism, the total numbers above arbitrarily assume that 500 of the 742 biofilters installed in South Sudan are not currently operating. However, once the residents return, they can be quickly returned to useful service.

## Assessment

During 2020, Enviro-Stewards has made good progress at tracking the impacts of its projects and development work. It also continues to be ranked at or near the top of each of the relevant standards tracking organization's scales. We were able to take advantage of a work slowdown (due to COVID) to refine our training materials and make them available to others online.

During 2021, Enviro-Stewards will continue to grow the market for food waste prevention services, help more facilities become climate positive, construct a [blue roof demonstration](#) project at CVC's headquarters (with climate adaptation potential), and further expand the safe water projects.

# Enviro-Stewards SDGs



**DESCRIPTION**  
Production efficiencies frees up margin for employees

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Food loss prevention increase food available for people to consume

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Living wage, toxic use reduction

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Guest lecturing at universities & schools

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Balanced hiring

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Industrial wastewater treatment & water conservation

**INFLUENCE** Direct  
**RECOGNITION** OWWA award



**DESCRIPTION**  
Reducing electrical and thermal energy demand (with rapid paybacks)

**INFLUENCE** Direct  
**RECOGNITION** Clean50 award



**DESCRIPTION**  
Building local jobs paying more than a living wage

**INFLUENCE** Direct  
**RECOGNITION** Best for the world



**DESCRIPTION**  
Water & energy conservation, food loss prevention, climate adaptation (blue roofs)

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Living wage, production efficiencies frees up margin for employees

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Circular Food Economy project (8 manufacturers in Guelph)

**INFLUENCE** Direct  
**RECOGNITION** n/a



**DESCRIPTION**  
Food loss prevention project (50 food & beverage producers across Canada)

**INFLUENCE** Direct  
**RECOGNITION** Clean50 award



**DESCRIPTION**  
Reducing direct (energy) and indirect (embedded energy in food) consumption

**INFLUENCE** Direct  
**RECOGNITION** n/a



**DESCRIPTION**  
Food loss prevention (lobster, mussels, etc.)

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Food loss prevention (reduces pressure to convert ecosystems to agriculture)

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Social venture training, guest lecture at peace & engineering

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Collaborating on social, environmental & economic initiatives

**INFLUENCE** Direct  
**RECOGNITION** SDG award

# Safe Water Social Ventures SDGs



**DESCRIPTION**  
Reducing expenditures on water related illnesses

**INFLUENCE** Direct  
**RECOGNITION** n/a



**DESCRIPTION**  
Reducing expenditures on illnesses leaves margin for food

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Reducing water related illnesses (typically 50% of patients)

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Capacity building (entrepreneurship, technical, sales, marketing)

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Support women lead social ventures (among others)

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
**Empowering groups to sustainably provide safe water**

**INFLUENCE** Direct  
**RECOGNITION** Energy Globe award



**DESCRIPTION**  
Solar powering of safe water social ventures

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
**Building entrepreneurial capacity and local jobs**

**INFLUENCE** Direct  
**RECOGNITION** MEDA article



**DESCRIPTION**  
Capacity building (entrepreneurship, technical, sales, marketing)

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Building entrepreneurial capacity and local jobs

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Reducing water illnesses and deforestation

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Providing safe water without chemical or energy consumption

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
**Avoiding deforestation to boil water**

**INFLUENCE** Direct  
**RECOGNITION** n/a



**DESCRIPTION**  
Avoiding deforestation (to boil water) reduces erosion

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Avoiding deforestation (to boil water) preserves habitat

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
Providing employment and basis needs (safe water)

**INFLUENCE** Indirect  
**RECOGNITION** n/a



**DESCRIPTION**  
**Collaborating on development initiatives**

**INFLUENCE** Direct  
**RECOGNITION** SDG award

