

Annual Public Benefit Statement 2017

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 <https://www.bcorporation.net/community/enviro-stewards>
- Sustainable Waterloo Region's Sustainability Reporting http://www.sustainablewaterlooregion.ca/rci_member/enviro-stewards/
- Living Wage Tracking of Champions <http://livingwagewr.org/employers>
- Internal Tracking of Sustainability Impacts of Enviro-Stewards Projects (spreadsheet)
- Internal Tracking of the Impacts of the Safe Water Project (Spreadsheet)

Results

B Corporation:

- In 2017, Enviro-Stewards received an audited score of 149 (for reference 80 is required for certification)
- The score was so high that we received designation as a 2017 Best for the World Business for Overall Impact <https://bftw.bthechange.com/>
- Enviro-Stewards was also awarded the [UN Global Compact Canada's Sustainable Development Goal Award](#) for 2017

Sustainable Waterloo Region:

- Tracking for Sustainable Waterloo Region indicates that Enviro-Stewards has reduced its emissions per employee by 66% since its baseline year (2008).
- We have therefore achieved 82% of our pledge to reduce emissions per employee by 80% by 2018.

Living Wage:

- Enviro-Stewards achieved Living Wage Waterloo Region’s highest level of recognition (Champion). For this designation, all full-time and part-time employees, including student positions, earn at least a living wage, and all contracted staff are paid a living wage. The organization is also committed to championing the living wage within its’ sector/industry and within the community. On September 12, 2017, Enviro-Stewards spoke on a [panel](#) of “Businesses that are built to last – the return on investment of fair workplaces.”

Enviro-Stewards Projects:

- As of the end of December 2017, Enviro-Stewards projects are estimated to have saved facilities \$61.5 million with an average payback period of 0.9 years and avoided: *
 - 46.1 million m³ of natural gas (enough to heat 17,000 homes for a year),
 - 64.3 million kwh of electricity (equivalent to annual output of 250 acres of solar panels),
 - 8.4 million m³ of water (equivalent to 4,000 km of water tankers bumper to bumper),
 - 94.3 thousand tonnes of GHG emissions (equivalent to 20,100 vehicles), and avoided
 - 59 thousand tonnes of waste (equivalent to annual garbage from 76,150 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 1 year. However, in practice, most customers commence implementing measures immediately.
- Enviro-Stewards energy conservation project with Southbrook Vineyards was selected by Clean50 for a [Top Project Award](#). Enviro-Stewards was able to identify & implement measures that reduced the amount of electricity and natural gas consumed by this LEED gold facility by a further 40% with a 4-month payback. This avoided the need for 1/3 of their planned solar panels and hence preserved valuable vineyard space (this preserved \$20,000/yr of wine!)
- Enviro-Stewards food waste prevention project with Campbell Company of Canada was selected by Clean50 as the [Top Project-of-the-Year](#). Rather than a conventional solid waste audit to find suitable homes for diverted waste, this demonstration project found opportunities to avoid generating 938 tonnes/yr of food waste in the first place! These measures will avoid the net loss of 4,000 tonnes/yr of GHG that were embedded in this food that was previously lost when the waste was sent to a biogas facility. As outlined in the [case study](#), they will also increase profit by \$706,000/yr with a 6-month payback.

Safe Water Project:

- As of the end of December 2017, the Safe Water Project founded by Enviro-Stewards is estimated to have:
 - Installed 1,000 of which 500 are thought to remain in service**
 - Purified 54.9 million litres of water
 - Saved 4.8 thousand trees
 - Avoided 9.2 tonnes of GHG emissions
 - Avoided 2,538 cases of typhoid
 - Created 17 jobs in developing countries, and
 - Injected \$35,000 into the local economy

- ** 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. Many residents have had to flee to refugee camps in Uganda, including Bidi Bidi which is currently the largest camp in the world. 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.
- In February of 2017, a [team](#) from Enviro-Stewards helped the South Sudanese safe water team train 40 Ugandan Community Health Workers. This group then sold 27 biosand filters in Koboko, Uganda the first month (more than their break-even amount). The Ugandan Safe Water project has subsequently expanded to Arua, Uganda.
 - October 28, 2017, Enviro-Stewards founder gave a TEDxUW talk entitled “What is Better than Charity?” A one-minute [excerpt from the TEDx talk](#) is available on Enviro-Stewards youtube channel. The full talk is scheduled to be edited & published on the TEDx youtube channel in late March 2018.

Assessment

During 2017, 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.

During 2018, Enviro-Stewards will continue to grow the market for food waste prevention services, increase the number of integrated holistic projects (water, energy, & ingredient conservation), and increase our capacity to implement and track the results of our projects.

In February 2018, Enviro-Stewards will deliver 1-day of content on our social venture-based approach to sustainably provide safe water at the African Biofilter Implementer Network’s (ABINET’s) Conference in Malawi. We will also post our training materials (free of charge) on the [Safe Water Project website](#) for anyone wanting to start a new safe water project or to convert their existing charitable based project to an enterprise model (in order to increase their beneficial impact).