



2017-2018 ANNUAL BUSINESS REPORT

THE TIPPING POINT

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MESSAGE FROM THE LEADERSHIP TEAM



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Sandi Stride
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Kim Gutt
Interim Executive
Director, Sustainable
Business Initiative
Manager

2017 brought Sustainable Hamilton Burlington incredible opportunities for growth in our capacity to support businesses on the path to sustainability. Our Founder Sandi Stride became the Executive Director of the Centre for Climate Change Management (CCCM) and secured Sustainable Hamilton Burlington as partners in the CCCM's Industry Partnerships Initiative.

Having new funding for staff in 2016 bolstered our ability to do outreach and refine our service offering and communications. As a result our membership base saw a 40% growth, expanding to an unprecedented size of 30 members.

Contributing to this growth were the area's largest employer (Hamilton Health Sciences) and the two cities of Hamilton and Burlington. Sustainable Hamilton Burlington partnered with the City of Hamilton to deliver a Business Energy and Emissions Profile (BEEP), an online data visualization tool highlighting sector-specific emissions generated by the City's businesses. The City of Hamilton also partnered with us to develop a Climate Action Toolkit for Business and we welcomed Mike Hager as the Project Coordinator.

In March 2017, the Province of Ontario held its first Cap and Trade auction which raised \$325 million for the Green Investment Fund. As a result, there are more funding opportunities than ever for businesses looking to reduce Greenhouse Gas emissions, and we have increased our focus on connecting those eligible with the funds, and reducing barriers to implementing energy-saving projects.

As a member of Green Economy Canada (GEC) (formerly Sustainability CoLab), Sustainable Hamilton Burlington is an indirect recipient of funding from the Ministry of Environment and Climate Change, along with other local sustainability organizations that support small and medium sized businesses in achieving sustainability targets. This April Minister Chris Ballard announced the approval of another \$2 million to be directed towards GEC and it's network. We expect this funding to continue to play an important part in building our capacity.

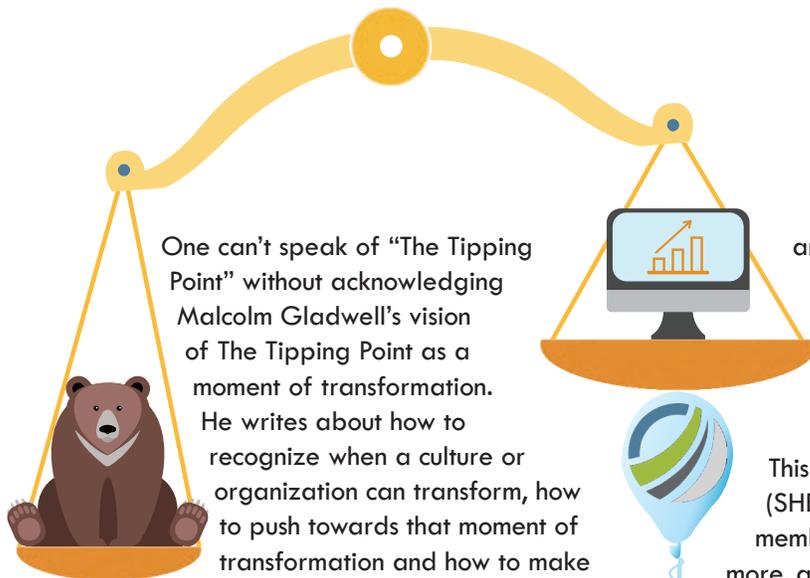
We're thrilled to share these developments with you in the following pages, along with the accomplishments of our members over the past year. We are extremely grateful for the ongoing support of our community partners, volunteers and leadership team.

Kim Gutt
Interim Executive Director
and Sustainable Business
Initiative Manager

Ruth Liebersbach
Chair of the Board

May 2018

THE TIPPING POINT



One can't speak of "The Tipping Point" without acknowledging Malcolm Gladwell's vision of The Tipping Point as a moment of transformation. He writes about how to recognize when a culture or organization can transform, how to push towards that moment of transformation and how to make sure it "tips" in the right direction.

And so we visualize The Tipping Point not as the passive observation of a moment of peril, but as the payoff from hard work realized at a moment of opportunity to create positive change.

Of course when we speak of "tipping points" in sustainability circles, it's hard not to think of moments of peril - like the threshold the earth's atmosphere recently passed: 400 parts per million of CO₂ - possibly higher than at any point in the whole history of the human species. The world is watching to see what this means to our warming planet.

But we want to talk about another tipping point. In 2014 public opinion/environmental research body Ecoanalytics began asking poll respondents "[w]hen do you think climate change will start to harm people living in Canada?" In 2014, 35% of respondents chose the answer, "climate change is already harming people in Canada". By 2017, just three years later, that number was up to 55%. For the first time that year the research showed that a majority of Canadians looked around at events like recent and devastating wildfires in British Columbia

and Alberta, and costly flooding in Ontario, and realized that climate change was a danger that needed to be addressed not by future generations, or future governments, but by us right now.

This year Sustainable Hamilton Burlington (SHB) has seen amazing growth (40% more members!) And we are preparing for even more, as our partnership with the Mohawk Centre for Climate Change (see page 32) comes into it's own. We also welcomed Hamilton and Burlington as SBI members, strengthening their position to tackle regional GHG emissions and inspiring others in the community through their leadership. Even the existence of the Centre for Climate Change Management, which is going to bring together provincial and municipal governments, academia and local businesses to take action, speaks to the will in our community to address climate change head on: to prepare for the impacts climate change is having now, and to deepen our resilience to adapt to what will come.

These are the Tipping Points that we want you to think of as you read through this document and reflect on the work of our members and award winners.



YEAR IN REVIEW

Business Energy Emissions Profile (BEEP)

In 2017 SHB partnered with the City of Hamilton and Climate Smart to deliver a Hamilton Business Energy and Emissions Profile (BEEP). A BEEP is a full report and data visualization tool that allows users to see local GHG emissions by business sector, business activity (i.e. electricity) or business size.

Energy and emissions values are based on per-employee averages for each sector developed by Climate Smart, and number of employees in each sector locally as reported by Statistics Canada. It also uses publicly available information for the Large Industrial and the Public Sectors.

This project provides valuable insights into emissions of the private sector, including the under-reported Small-Medium Enterprise sector, as well as sector specific reduction-strategies and case-studies.

Business Climate Action Toolkit (BCAT)

We also partnered with the City of Hamilton to develop a Climate Action Toolkit for Business – one of the ten priority actions identified in the Hamilton Community Climate Change Action Plan. University of Waterloo Environment and Business graduate Mike Hager was hired on to conduct focus groups with stakeholders from key regional sectors such as manufacturing, construction, food-processing, and

retail to determine what resources could support the management of GHG emissions and climate change risks to businesses. The results are directing development and procurement of those resources to make them available in a free, public toolkit on our website. The toolkit will be available in September of 2018.

Centre for Climate Change Management

The Centre for Climate Change Management (CCCM) launched at Mohawk College in 2017, with the goal of strengthening partnerships and fostering collaborations among business, industry, government and community organizations. For more information about this initiative, see page 32.

2017-2018 Event Highlights

Sep - Creating your Sustainability Vision and Strategy featuring John Purkis of The Natural Step

Nov - Thinking Outside the Blue Box featuring Peter Hargreave of Policy Integrity Inc. and Frances Edmonds of HP Canada

Mar - Bay Area Climate Change Summit featuring Sebastian Damm Wray of Quercus Group, Denmark

Apr - The Funding Connection featuring Tom Kaszas, P.Eng, Director, Partnerships Branch, Ministry of the Environment and Climate Change



22
VOLUNTEERS



**HAMILTON
BURLINGTON**
WORKFORCE
IMPACTED

263
EVENT ATTENDEES
IN 2017





SUSTAINABLE BUSINESS INITIATIVE

The Sustainable Business Initiative continued to grow and branch out this past year, adapting to the unique and varied needs of our members and the business community.

The feedback we received from our members in 2016 signaled a need for flexibility in our target-based options for measurable action on sustainability. Setting a carbon reduction target was not practical for all organizations, for example those who are leasing office space. We first introduced the B Lab Impact Assessment to replace our internal sustainability assessment at the Silver level in the summer of 2017. With 9 local businesses who have used the globally-recognized tool, it has proven to be effective at measuring sustainability performance and to provide guidance and resources towards continuous improvement.

In the fall of 2017, we also introduced an option for members to set a waste diversion target. This provides an alternative to carbon target



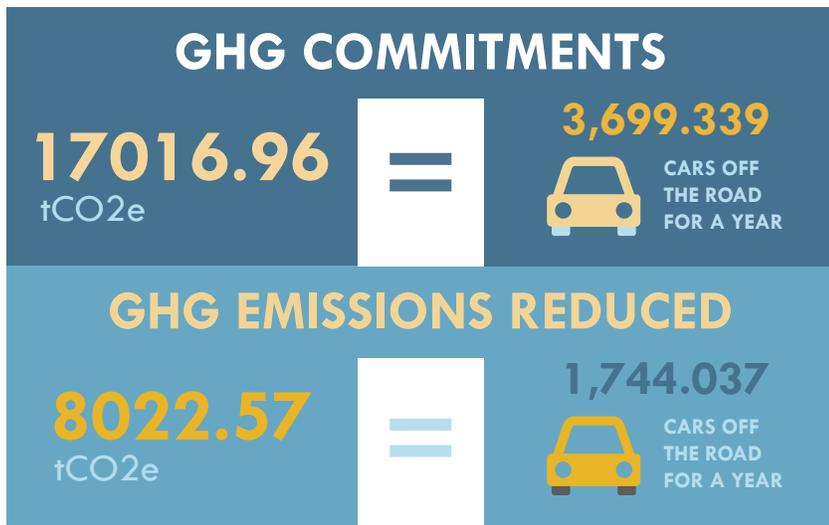
setting at the Bronze and Gold levels. The Waste Diversion Target framework was based on the Province's Waste Free Ontario Act (introduced in 2016) that places a greater emphasis on waste

generated by businesses than previous regulations through principles such as circular economy and extended producer responsibility. It was developed in consultation with other network members of Green Economy Canada (formerly Sustainability CoLab), local waste consultants, the Recycling Council of Ontario, and our SBI member base. The Framework comes with a localized resource guide complete with business best practices and case studies of innovative responses to waste challenges.

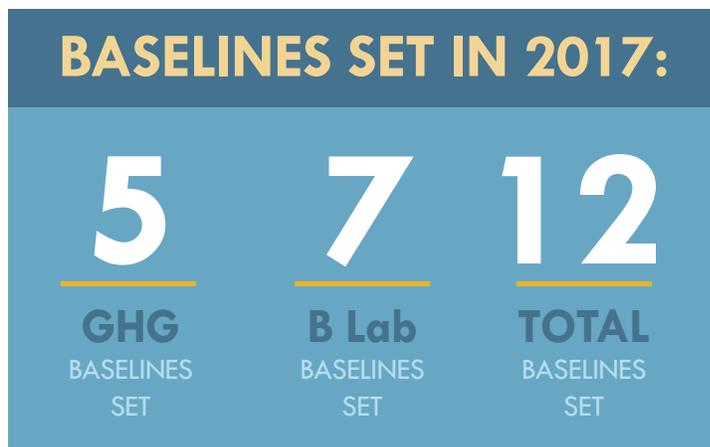
Those members with carbon reduction targets have made great progress in 2017: 4 have set formal, public carbon reduction targets. The next stage for these members is identifying opportunities for emissions reductions and the resources to implement them, whether that is technical advice or funding through the Green Ontario Fund and other sources.



PROGRAM REVIEW



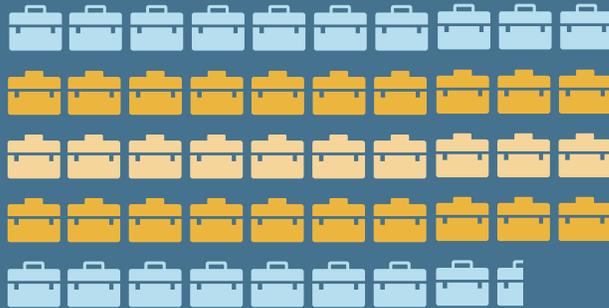
TARGETS SET





ECONOMIC INITIATIVES

7 PROCUREMENT POLICIES (LOCAL & ENVIRONMENTAL)



48.5
JOBS ADDED IN 2017

SOCIAL INITIATIVES

10 

COMPANIES OFFERING PROFESSIONAL DEVELOPMENT OPPORTUNITIES



20

COMPANY VOLUNTEERING INITIATIVES

\$ 1,859,062.⁶⁰
DOLLARS
IN COMMUNITY INVESTMENTS



ENVIRONMENTAL INITIATIVES



5

Energy Management Systems or Energy Plans



18

Lighting Retrofits and Automation Projects



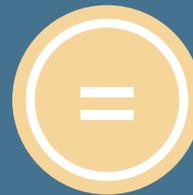
19

HVAC Improvements



3

Renewables, Storage, and Offsets



45

TOTAL ENERGY PROJECTS



BIODIVERSITY PROJECTS
(POLLINATOR GARDENS, COMMUNITY GARDENS)

WASTE DIVERTED SINCE 2016:

OVER

220.96 TONNES



MEMBERS 2017



TO PRESENT



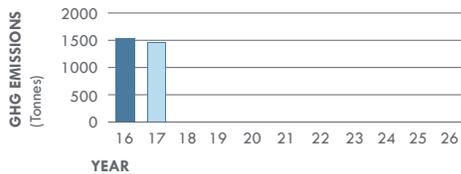


2017/18 MEMBER PROFILES

alectra



GHG
Gold



GHG
REDUCTION
TARGET
TBD
FROM 2016

Highlights

In 2017, Alectra established its sustainability framework

AlectraCARES: Communities • Alternative energy solutions • Resource preservation • Economic value • Safe and healthy employees.

The AlectraCARES initiative saw employees participate in community events including, YWCA Hamilton “Walk a Mile in her Shoes” in support of programs and services aimed at providing opportunities for women, girls and their families in need. Employees volunteered time with

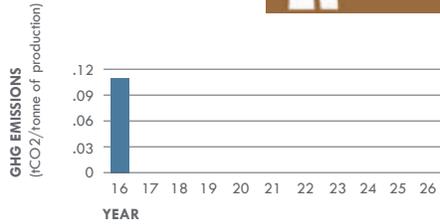
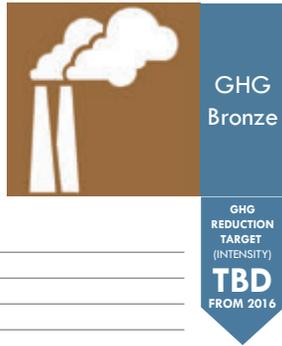
Legend for Charts: ■ Base Year ■ Progress

Habitat for Humanity (Hamilton) to build three homes for deserving families in Hamilton.. Alectra supported the YWCA Hamilton’s STEM Girls Club by providing \$12,000 for robotics equipment and iPads while also hosting the club to meet with women from across Alectra to learn about career paths in science and technology.

Alectra’s energy conservation team supported our local businesses in finding solutions for greater energy and cost efficiency. The Wellington retirement and long-term care residence received an \$18,000 incentive cheque following a recent extensive lighting retrofit project.

SBI Update

Alectra’s Hamilton facilities earned ISO 50001 Energy Management System Certification in 2017. Alectra established a GHG reduction baseline for 2016 - which received third party assurance – and calculated a GHG inventory for 2017. Reductions have already been achieved in natural gas and electricity consumption, which is a direct result of actions and policies put in place to achieve ISO 50001 Energy Management System Certification.



Highlights

ARYZTA in 2017 was pleased to announce the agreement of a large scale battery project to combat the challenge of rapidly rising electricity costs in North America. This is a partnership with a supplier that focuses on utilizing a CO₂ free peak shaving technology without interruption to the bakery operation. This solution is behind the meter electricity storage that charges energy at off peak hours and discharges the electricity during the afternoon to decrease heavy peak time costs and

help reduce the total market demand in the province. ARYZTA is very excited and hopeful to be implementing a solution that combats the rise in electricity costs as well as helping the province decrease demand on its capacity for electricity generation.

SBI Update

ARYZTA has set a baseline for year 2016 and intends to set an intensity-based target. Short term projects including replacing old T-8s with LEDs at their end of life. ARYZTA is looking for energy reductions both in the office and in the plant. In the office, they are using behavior and process changes to reduce energy consumption, like making changes to thermostats and encouraging employees to turn off computers at night. In the plant, employees are using an internal checklist to find areas of improvement for energy, water and waste.



Highlights

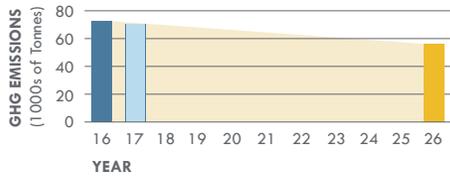
Benefect Corp. is the creator of the world's first botanical disinfectant made from the essential oil of the thyme plant. We were also the first government registered hospital

disinfectant with no human health or environmental hazards. Benefect's line of cleaners and disinfectants are used primarily in the disaster restoration industry for mould remediation, water damage repair & biohazard clean-up.

SBI Update

Benefect has recently progressed from GRI reporting to B Lab – and obtained an (unverified) score of 109! Our end goal is to pursue B Corp Certification. B Lab is a strategic priority for Benefect to enhance awareness of our brand

as a leader in this space in their market. We are proudly & eagerly sharing our awesome B Lab Impact Assessment score with staff, suppliers and customers. And because B Corp has done such a great job of promoting their certification brand, this is likely to have a significant positive impact on our brand, business & sales.



GHG
Gold

GHG
REDUCTION
TARGET
(ABSOLUTE)
20%
FROM 2016

Highlights

Hamilton Health Sciences (HHS) started new recycling initiatives in 2017 including recycling programs focused on Blueware, Operating Room, Shipping Trays and Nutrition Services. Together these increased waste diversion by 15 additional tonnes per month. HHS has also been involved in energy conservation projects targeting LED lighting retrofits (973,370 kWh reduction) and high performance air filter projects (1,085,258 kWh reduction) as well as operating co-generation facilities at MUMC, HGH and JH Since

2006. Recently, HHS has been the recipient of various awards such as Horizon Utilities Energy Champion (2015), HealthAchieve Energy Efficiency Award & Waste Management Awards (2015). OHA Green Hospital Scorecard Bronze Winner (2013-16); Smart Commute Employer of the Year (2016); and Ron Joyce Health Centre – LEED® Gold (2016).

SBI Update

Since onboarding with SHB in September of 2017, some Environmental Sustainability Leads at HHS have been trained in Verisae, we have conducted a materiality assessment, are finalizing our annual report, and have benefited from a number of events and workshops. Looking forward into 2018, HHS is gearing up our communications and engagement plan about our corporate environmental sustainability efforts as well as enhancing our existing Online Learning Management System modules to include more robust education. With the continued support of SHB, we plan to widen the breadth of corporate sustainability knowledge here at HHS, and begin to include leaders and front line staff into the SHB education events.



Highlights

Over the past year Lura has implemented many environmental, social and economic/governance initiatives. We have begun actively tracking our energy and water consumption, and waste production. We diligently divert waste to recycling and compost. We discourage printing and unnecessary

paper use. In 2018, we installed new windows and blinds which will reduce energy consumption. We have also installed under-door insulation to prevent heat loss. Furthermore, we have decided to supply coffee and tea in the office, to reduce the need for employees to purchase one-use take out cups. Lura has begun a retirement savings program for employees (RRSP) with a level of matching. Finally, we support employees who wish to work virtually, and often schedule virtual client meetings.

SBI Update

In 2017, Lura completed a B Impact Assessment, which reported on 2016 activities. Through this process we defined our baseline for quantifiable target setting and

identified areas for improvement. For example, moving forward we will be calculating our greenhouse gas emissions and pinpointing opportunities for reduction. Further research will be undertaken to determine the feasibility of potential improvements including: developing a process to determine the social and environmental impacts of significant suppliers; creating a volunteer service policy; switching to low VOC ink and unbleached paper; and considering ways to publicly report our environmental and social goals, and subsequent progress.

Legend for Charts: ■ Base Year ■ Progress ■ Target



Highlights

The past year solidified McMaster Innovation Park (MIP) as a leader in green building management and employment practices.

In the area of Environmental concerns waste, water and energy were the top environmental indicators that MIP continued to focus on. MIP has a large kiosk screen for the public to view in real

time how members contribute to overall usage of energy and water. It also shows the effectiveness of technologies like cistern water tanks which collect rain water for non-potable water uses, passive solar, carbon dioxide lighting sensors, radiant cooling and heating and other upgrades and retrofits. MIP also focused on transportation initiatives in 2017, continuing the car share program and committing to electric car charging stations.

In the area of Social concerns, our initiatives for 2017 included food drives and company volunteerism (Habitat for Humanity), employee education/professional development programs, and the Art in the Workplace program which supports local artists.

SBI Update

An MIP staff member was trained in the B Lab Assessment process and successfully completed the assessment in the summer of 2017. MIP enthusiastically established its baseline as the second SBI member to complete the B Lab Assessment when it was introduced. Our scores were compared against 340 Ordinary businesses that also have 10 – 49 employees. It became apparent through the results that we had achieved a positive impact but also revealed areas where we needed to take notice of and set goals for the future.



Highlights

This year was a perfect example of keeping sustainability as a core focus of our operations. This year Midfield was presented with a series of challenges to overcome that took a significant amount of focus and determination from the entire team. We were able to work through these challenges and have a strong and successful finish to our year. Midfield was in a position to

grow and change, and with that we have created two new positions that will be instrumental in the way that we work together as a team to build and execute our marketing initiatives. Even during very busy times, we knew it was important to make sustainability work for us, and keep it top of mind as we moved forward with new marketing campaigns.

SBI Update

Midfield Interactive is proud to be involved with Sustainable Hamilton Burlington. Through the use of the B Lab Assessment we have been able to learn more about sustainability areas where we are above the industry average, and areas that we have the opportunity to improve. We scored well on the

sections regarding our employees and the steps we take to ensure our employees are set up for success. We know Midfield is a great place to work, but now we have it in writing!

The B Lab assessment has also illuminated some ways that we can be more valuable to our community. We look forward to executing initiatives that benefit the people we work with, the place we do business, and the industry as a whole.



Highlights

Noah Digital Inc. is Canada's #1 multilingual digital marketing team located in the GTA, helping businesses of all sizes to multiply their sales by leveraging the power of online digital channels. Our motto is Our Effort, Your Success!

From digital marketing strategy to execution, we have got you covered. As a results-driven agency,

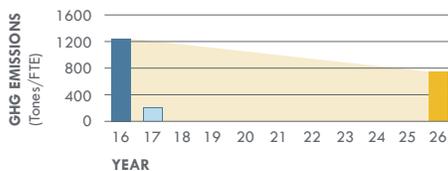
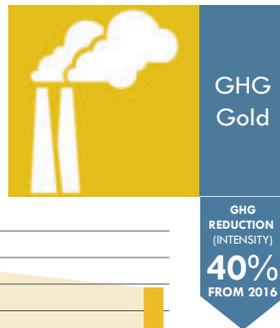
we monitor, measure, analyze and optimize your campaign performance on a daily basis to deliver optimal results.

At Noah, we firmly believe in the real value of the triple bottom line, people-planet-profit. Moreover, Noah embodies a diverse group of talents from different cultural and racial backgrounds to ensure all perspectives are discovered and implemented. In 2017, we hired four new employees, and we are on track to double our employee number by the end of 2018. All of our employees enjoy employment benefits, such as extended health care (with mental health in mind), education supports, and flexible working hours (including working-from-home days and unlimited sick days).

Noah Digital Inc. joined SHB in March 2018. This relationship allows Noah to guide its future business operations with sustainability in mind. Less than two years old, Noah Digital Inc. is one of the sustainable leaders in the Canadian digital marketing industry. We work closely with many local organizations and startups to improve their performances.

SBI Update

Noah is currently working on the B-Lab Impact Assessment to identify the company baseline to be certified as B-Corp soon. This year, Noah has also planned to create low cost, or even pro bono, digital marketing projects for non-profits and charities. It allows charitable organizations to take advantage of the digital marketing space.



Highlights

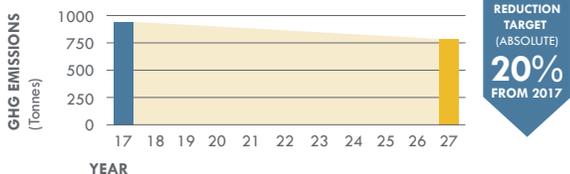
Through continued efforts to help companies reduce-reuse-recycle, REfficient helped divert 633,303lbs of technology through reuse and recycling in 2017, a 14% increase over 2016. We did a review of our carbon output tracking and set a new baseline of CO₂e. We converted all carbon reporting to our customers to this new format of CO₂e and educated them on the importance of using internationally recognized metrics.

A recycling centre was launched in the warehouse which separates plastics, cardboards, paper, cans, batteries, coffee pods and printer cartridges for recycling. Staff also set up a program to track the quantity of cardboard boxes that were reused for shipping. An average of 68lbs/month of boxes were reused for other shipments and avoided the need for new boxes to be sourced. The REfficient team volunteered for Hamilton Victory Gardens and made donations to three charitable organizations.

SBI Update

In 2017, REfficient's priority was on ensuring our carbon emissions reporting was accurate, so we worked with SHB to review and update our numbers for Verisae. Therefore, our 2016 data has become our new baseline: 6835 tonnes annually or 1243 tonnes/employee. In 2017, we produced 1132 tonnes of CO₂e or 206 tonnes/employee, which meant we far surpassed our goal. However, this was largely due to an increase in our domestic sales this year due to market conditions and also new marketing efforts. There were also fewer shipments overall (182 shipments in 2017 versus 218 in 2016).

Legend for Charts: ■ Base Year ■ Progress ■ Target

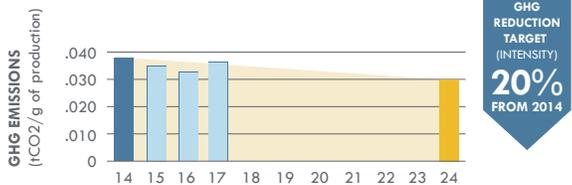


Highlights

Royal Botanical Gardens (RBG) was able to complete several environmental sustainability projects over the last year. We have implemented impactful changes to our organization’s waste diversion program by distributing new easy-to-use bins for landfill waste, mixed recycling and compost across our various properties. Alongside our participation in the SBI carbon framework, we have also completed a greenhouse gas emissions inventory encompassing RBG activities from 2012 to 2017. This data was used to inform the decisions in setting our greenhouse gas baseline year and reduction target of 20% by 2027. Another

SBI Update

In 2017 RBG set its GHG emission baseline. After some investigation and discussion completed by RBG’s Green Team, the group recommended a baseline year of 2017 with a reduction target of 20%. The decision was made because we recognize that our emission reductions in the last 4 years were primarily a result of a reduction in natural gas consumption due to warmer winters. By setting our baseline as 2017 we will be more accurately measuring primarily the reductions resulting from improvements intentionally made by RBG with the additional benefit of allowing us more time to complete our objective.



Highlights

Corporate sustainability goals for Walker Industries included focusing on sustainable energy management and conducting a Climate Change Risk Assessment for all companies. Specifically for Walker Emulsions in Burlington, goals were set to reduce production waste, to review water consumption in production processes, and to increase community involvement through employee volunteering. Work continued within the research and development group to improve products and processes and to review alternative, less harmful raw materials for use in current and future formulations. On the volunteering front, employees

SBI Update

In 2017, Walker Emulsions set a 10 year target for GHG reductions of 20% by 2024. Using 2014 as a baseline for this target. Work began with our newly hired embedded energy manager to identify areas for energy reduction and best practices for energy use. A substantial portion of the energy spend is consumed by heating large bulk liquid storage tanks throughout the year. A project is underway that involves baselining and creating best practices for managing the heating of these tanks. Other ongoing initiatives include evaluating the energy efficiencies of various equipment for consideration of future replacement.

from all three Walker Emulsions locations converged at our Orangeburg, South Carolina plant to help with a Habitat for Humanity build. Other employee volunteering efforts included local spring-cleaning in our forest and parks, working with the Good Shepherd Centre, and a fundraising event for Hospice Niagara. The real buzz at Walker Emulsions this past year resulted from a growing interest in apiculture with their expanded pollinator garden and the addition of more hives in the wooded area adjacent to their facility. No plans for a beeswax emulsion...yet!



Highlights

Wonderfloat represents one of the most exciting wellness concepts in the world today, providing the ultimate relaxation and healing experience for both mind and body with the help of advanced technologies, including full spectrum infrared saunas, zero gravity massage chairs and sensory deprivation flotation pods. Our ultimate goal is to become the world's greenest and most inspiring

wellness brand. No new initiatives were to be noted over the last year unfortunately, due to an unexpected slow-down of our business activity and rising operating costs. The facility continues to conserve water, waste and energy through initiatives that have been in place since inception. As of now, we are not aware of others in our industry that have put so much effort into changing the way we build and operate our businesses. However, by getting involved with the SBI we hope to inspire more entrepreneurs to explore this path toward getting more educated and involved.

SBI Update

Wonderfloat was the first member to complete the B Lab Impact Assessment after it was launched as part of the SBI in 2017. As an owner operated company, we were not eligible to complete the 'workers' section which limits improvement opportunities to the other 4 sections. We scored very well in environmental areas that are integral to our brand, such as water conservation practices and chemical reduction practices. There are many opportunities of interest in the Governance and Customers section around the health outcomes of our service.



Highlights

In February this year, in an effort to improve fuel consumption and community safety, Zip Signs added telematics to our fleet of service/installation vehicles which not only provides location data, it reports events such as idling, hard braking, rapid acceleration, and fast cornering. In April, Zip Signs

completed an office lighting retrofit program replacing all fluorescent lighting with LEDs. This produced a 23% reduction in average daily electricity consumption and earned us a place in Burlington Hydro's Conservation Hall of Fame. In November, we installed air curtains at four loading dock doors to reduce heat loss during winter months (results are pending). Also beginning in November, Zip Signs initiated a 90-day "steps challenge" incentive program encouraging staff to reach the goal of 10,000 steps per day for improved health and well-being and to choose walking over driving when possible.

SBI Update

2017 was Zip Signs' inaugural year with the SBI. We collected four years of energy consumption data to begin tracking our GHGs in Verisae and will be setting a baseline and targets in 2018. We attended the Know Your Power event in October to learn about available incentives for energy retrofits in Burlington. As a member of SBI, Zip Signs has gained knowledge from SHB's helpful staff and the learning events they have coordinated.

THE FOLLOWING ARE OBSERVING MEMBERS WHO HAVE NOT YET SET A BASELINE



Highlights

ArcelorMittal Dofasco is Canada's largest flat roll steel producer and part of the world's largest steel and mining company. ArcelorMittal Dofasco's approximately 5,000 employees make more than 100 grades of steel in Hamilton which is used in the automotive, distribution, construction and manufacturing, tubular and consumer and industrial packaging sectors. Our operations distributed billions of dollars in direct economic value in 2017 (employee wages and benefits) and made

investments of almost \$2 million in our communities.

Each year, we report our progress against our 10 Sustainable Development Outcomes as part of our Annual Review Reporting, which is underpinned by transparent good governance. In 2017 there were several notable accomplishments for our Hamilton operations.

We saw continued progress in our energy consumption and efficiency. Primary energy consumption from our operations continues to decrease. At the same time, we reduced energy consumption through conservation and efficiency initiatives while energy intensity per tonne of steel has decreased.

We continue to work in partnership with our various stakeholders to address local opportunities and challenges through stakeholder meetings and welcomed contact. We also believe in 360-degree partnerships, including through

financial investments and employee volunteerism. We are increasing our focus on initiatives related to Science, Technology, Engineering and Math (STEM) education through advanced manufacturing and robotics programs, coding clubs, and STEM curriculum development with local school boards. Through this investment in STEM education, we aim to improve the gender diversity of our increasing rates of new hires. In 2017, we invested almost \$2 million and had active employee volunteerism activities in the community through our TeamOrange program.

SBI Update

In 2017, ArcelorMittal Dofasco became the first SBI member to join the waste framework. We have supervised two teams of Mohawk students through SHB's Collaborative Experiential Learning program to find opportunities to improve our waste diversion.



Highlights

Beginning in 2017, the Art Gallery planned to convert to LED lighting in the public and offices spaces. This conversion will take place in 2018 with plans to prioritize wet waste and water reduction. A portion of the 2018 exhibitions will focus on

environmental issues such as our relationship with water, stories of water (Water Works) and bring attention to the environmental issues of industrial sites in the world through abstract images that document them (Witness-Edward Burtynsky). Our school group tours and some of our community children's art classes are focused on "exploring the environment." Each year the Gallery celebrates with a Free Family Picnic that offers education and interactivity to families not just about art, but about nature and the environment.

SBI Update

In 2017, the Art Gallery of Hamilton joined the SBI. The Gallery is starting with a GHG reduction target at the Bronze level and will progress to the Gold level in the future. Staff have volunteered for the "green team" initiative that is slated to roll out in 2018. The Operations Manager has identified sources of data for establishing a GHG baseline. Building automation and lighting will be an integral source of emissions reductions.



Highlights

Carrothers and Associates Inc. is an award winning architectural design firm located in the heart of Hamilton, Ontario. With our staff of Architectural Designers and Consultants, we have built a reputation for innovative design and exceptional service throughout the GTA and Southern Ontario.

We love all things modern, innovative and sustainable and

encourage fresh thinking and honest questions while taking a creative approach to every project. Our design philosophy is to create strong, simple and beautiful solutions, arrived at through a collaborative effort between our clients, consultants and contractors. Many of our trade relationships are with local companies who share our sustainable interests. Materials we spec are locally sourced and environmentally friendly, making the decision to implement innovative and sustainable products within every design our top priority. Our awards and media coverage give us an appropriate platform to share our thoughts with the community and we hope that with the help of the SBI, we can track our companies environmental impact and begin to make a difference through setting and achieving targets and engaging

in networking opportunities. Continuing to grow relationships with others who share similar interests about sustainability and innovation will both strengthen our company and our community.

SBI Update

In 2017, Carrothers were introduced to the B Lab Impact Assessment. We aspire to complete the assessment by the end of 2018 and set that as the baseline year. We are interested to see how our score compares with other architectural firms in Canada.



Highlights

Burlington's Strategic Plan includes carbon neutral targets for city operations and community wide. There are two plans to provide guidance to improve the energy efficiency and reduce carbon emissions: The Community Energy Plan and the Corporate Energy Management Plan. The City has also entered into a climate change partnership with the City of Hamilton and Mohawk College to reduce

the Bay Area community carbon footprint. City staff are currently updating the Official Plan and Cycling Plan; the next priority will be to update the Transportation Plan. These plans will include climate friendly policies that support mixed use and transit friendly development, as well as active transportation measures, among other policies. In addition, the City has an Anti-idling by-law and campaigns to reduce unnecessary idling.

The City has a number of environmental sustainability policies/ strategies to support greening its operations, including energy management, zero waste, restrictions on the sale of bottled water, green buildings, green procurement, and a green fleet strategy. They are also participating in the EU's International Urban Cooperation program in partnership with the City of Växjö,

Sweden to work on sustainability projects and share knowledge on sustainability issues.

Contributing to economic sustainability, the Burlington Economic Development Corporation has opened a new facility called TechPlace, an innovation centre dedicated to developing, advancing and connecting technology companies.

SBI Update

In 2017, the City of Burlington began reporting through SBI on their GHG emissions. The City is already tracking energy and water consumption for city facilities and fleet using AssetPlanner, and these sources will constitute the carbon baseline to be completed in 2018.



Hamilton



Highlights

The City of Hamilton has a strong focus on providing a Clean and Green, Healthy and Safe Community for residents. As a municipality, the city has the responsibility to corporately manage sustainability. The City uses the Corporate Energy Policy as a guideline to achieve energy intensity reduction targets of 20% by 2020, 45% by 2030 and

80% by 2050, and GHG Emission Reduction targets of 20% by 2020, 50% by 2030 and 80% by 2050.

Various City departments promote sustainability to the public. The Waste Management group educates the public and diverts more than 138,000 Metric Tonnes of waste from landfills annually through its Recycling and Compost programs. The City installs bike lanes and improves infrastructure to make active and sustainable transportation safer and more accessible. The Transportation and Public Health groups promote and fund sustainable and active transportation for residents of all ages.

Other initiatives taken by the City include the annual organization of Earth Hour, conducting an Anti-idling campaign, the City's implementation of the Smart Commute program and encouragement of active

and sustainable transportation by offering discounted SoBi and HSR memberships to employees.

SBI Update

Since joining SBI, staff have been trained on Verisae and are working toward defining a baseline for corporate energy intensity data. To achieve reductions, the Office of Energy Initiatives (OEI) will use the Corporate Energy Policy as a guide when managing projects that increase energy efficiency such as lighting retrofits, building automation and HVAC upgrades. In 2017, staff actively participated in the creation of the Bay Area Climate Change Coordinating Office and many staff attended the Bay Area Climate Change Summit.

John C. Munro

HAMILTON INTERNATIONAL AIRPORT



Highlights

John C. Munro Hamilton International Airport is a privately held company and a wholly owned subsidiary of Vantage Airport Group, a leading global airport investment, management and development company. Vantage Airport Group manages a network of nine airports on three continents.

The Hamilton International Airport is a growing passenger airport and the largest overnight express freight airport in Canada. Focused on

providing fast, hassle-free service, it is Hamilton International's goal to redefine the experience of flight for all its stakeholders.

At the Hamilton International Airport, the lens of sustainability focuses attention on opportunities for continuous improvement of our environmental stewardship, social engagement with stakeholders and contribution to the regional economy. Each sustainability initiative enhances operational performance and/or supports persistent shareholder value by focusing on supporting economic development, enhancing the capabilities of staff and community or, minimizing operational impacts on the environment.

As we are in the preliminary stages of implementing a Sustainability Management Plan (SMP), we envision:

- Developing a system for evaluating project and program proposals
- Integrating SMP updates into our annual business planning cycle
- Reporting on, and publicly sharing sustainability results
- Engaging the entire airport community in sustainable practices

SBI Update

In 2017, airport staff were trained on the Verisae carbon accounting tool and began to look into data sources, scopes and boundaries for GHG emission reporting. They also attended SHB's Thinking Outside the Blue Box event in November.



Highlights

2017 has been a very interesting year for mcCallumSather. As we watch a groundbreaking Net Zero Project (the Joyce Centre for Partnership + Innovation) come to completion, we've begun to shift our focus heavily to Westinghouse. mcCallumSather's new office will be one floor of the old Westinghouse building, and we are planning to continue paving a path of environmental stewardship with this project.

The building not only is a Historical Hamilton site, but the Carbon footprint of renovating vs building new is significantly less. We will be targeting LEED platinum on our floor, are implementing renewable and green energy, and are reviewing the potential to apply for net zero carbon for the entire building! With the change of offices, all staff will be working from laptops which significantly reduces energy loads and also allows for the flexibility to get out of the office and work in a nearby café or from home.

Our office re-design has been inspired by 'the office of the future' framework and will have designated task related work areas as well as floating seating allowing for flexibility in the working environment.

SBI Update

mcCallumSather is currently developing our Green Team. We have one staff member who is trained in the Verisae Carbon Accounting Tool and are looking to train our second. We have had several staff members out to events and focus groups for the Climate Action Toolkit. In the upcoming months we will be establishing our carbon baseline.



Highlights

In 2017, Mohawk College demonstrated a continued commitment to leadership on sustainability and climate change. Construction continues on the Joyce Centre for Partnerships and Innovation (JCP&I), set to become Canada's largest net zero energy building, and a living lab to students in engineering and clean technology programs. This past November

also saw the launch of the Centre for Climate Change Management (CCCM) at Mohawk, an exciting new catalyst to support regional action on climate change. Mohawk successfully collaborated with five Ontario colleges to complete pilot projects to increase the availability of local food on campus, culminating in the development of a Local Food Framework for Ontario Colleges. Mohawk was the recipient of multiple awards of excellence for its Community Plaza. Constructed on a former parking lot, the plaza exemplifies sustainable development practices by creating additional green space, pedestrian walkways, and utilizing recycled rainwater.

SBI Update

Mohawk College became a SBI member in late 2017 and completed the onboarding process.

We hired multiple positions for the Centre for Climate Change Management, which opened in November 2017. The college was named one of Canada's Greenest Employers for the 2017 year, the fifth consecutive year for the college. We are also expanding our Environmental Management Plan to become a Sustainability Plan in 2019 that will be reported using Global Reporting Initiative principles via the SBI program.



Highlights

Company CEO Robert Pocius is very involved in public education about the environmental impacts of packaging and alternatives. In 2017, he spoke at the Innovation Forum in London, UK to a group of about 50 multinationals and NGOs on plastic contamination in the oceans. His crusade is to reduce public misinformation about biodegradable products, and educate on how Omnidegradable

packaging can break down into food for microbes wherever it ends up, including landfills.

The Tek Pak solution has caught the eye of some of the largest food and beverage companies. In 2017 they rolled out an omnidegradable K Cup, and Nespresso cups are under development.

The company reduced transportation emissions in 2017 by setting up a distributor in the UK for the European market. They are also working to obtain their own plant and production facility to take advantage of new, very environmentally friendly equipment that will change the industry.

In an effort to create a more circular supply chain, Tek Pak Solutions has been investing in research to develop paper packaging made with inputs from food waste such as

wheat and sugar waste instead of timber-based polyethalyene. Tek Pak Solutions has also started working with researchers to study how to turn carbon into packaging.

SBI Update

In 2017 Tek Pak Solutions embarked on the B Lab Impact Assessment and intend to complete their baseline score in summer 2018. Tek Pak Solutions is growing and eager for the newly hired Office Assistant to get acquainted with the Impact Assessment so that they may also contribute to it and have more employees engaged in the company's sustainability efforts.

WALTERFEDY



Highlights

WalterFedy (WF) has an internal Sustainable Advisory Committee and a Community Initiative Committee with a mandate to develop various initiatives that have a positive impact on employees, the local community and environment. The Hamilton location continues to track employee commuting habits on a weekly basis to understand the impact on the companies carbon footprint and propose targeted internal initiatives for reduction. Initiatives

have included "bike-to-work week" and potential corporate membership to Sobi Hamilton bike share. WF Hamilton is a recently established location within the past two years and during that time has teamed up with the Port Authority for community garbage clean-up in local parks in support of City Kidz, taken part in a community build for Habitat for Humanity and organized a holiday food drive for Hamilton Food Share.

SBI Update

In 2017, Walterfedy joined the SBI. They will complete Verisae Carbon Accounting Tool training as a next step and will include a new employee that performs data modeling. Walterfedy has an internally developed software that tracks employee commute data, and they have been working with

their landlord to obtain utility data to contribute to a GHG baseline. Walterfedy would like to use point of use electrical meters to track equipment to support reliable estimations in their current building. Their experience in the SBI so far has created awareness of data constraints and about how they would set up monitoring for success in the future.

HIGHLIGHTS FROM 2017



Hamilton Health Sciences

The sustainability report was undertaken by compiling a large amount of data and information provided by a number of stakeholders across the organization. The process itself was very enlightening and it allowed the stakeholders the opportunity to see how their program/ disciplines work connected to the larger picture of organizational environmental

sustainability. The process also highlighted the opportunities for improvement in areas such as program collaboration, outcome data capture and communications. Our stakeholder engagement with our materiality assessment

also highlighted that staff are engaged and concerned about environmental health topics in areas beyond what we presently measure or have the ability to easily capture in a report such as this.

However, the report has also highlighted a number of areas of success that we will continue and/or start to track and measure in future years, such as:

- Organizational volunteer work and community outreach
- Opportunities for training and education, especially related to environmental sustainability
- Environmental metric such as waste and energy
- New environmental metrics & initiatives related to water
- Corporate engagement and outreach on issues related to environmental sustainability



REfficient

REfficient completed a full materiality assessment four years ago and we have reviewed it annually. The biggest takeaway from the process is that what we think is important may or may not be significant for stakeholders. For example, in the materiality analysis, waste and emissions from

transportation came back with only a Medium significance, which surprised us. We place a high importance on this within the company. We also noted that we did not always follow through on our intentions. We had a goal to set up measures to track garbage and recycling in the

warehouse, and set up a recycling centre but did not set up the consistent processes to measure them. Finally, our CEO, who is also the champion of our sustainability reporting, had a baby in November and took leave, so some efforts to improve sustainability were placed on hold.

There are still many things we are proud of in 2017. Our warehouse recycling centre is one of them, as it diverts waste into so many recycling streams. We volunteered together as a team for Hamilton Victory Gardens and helped plant and prune the community gardens. This was a fantastic team bonding experience as well. We already surpassed our carbon reduction goal, but we are cautious to celebrate as it somewhat reflected a change in the market.



Royal Botanical Gardens (RBG)

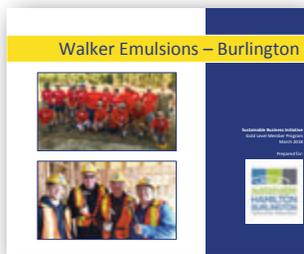
RBG's sustainability report was built to fit within two programs which RBG has committed to utilizing to best integrate sustainability into our organization. The program besides the SBI program is known as the American Public Garden Association's Public Gardens Sustainability Index which is based on

building sector-wide sustainability for public gardens. This program provides 12 attributes important to a garden's sustainability which in combination with the SBI program's GRI framework set the foundation for our disclosures.

The process of developing a baseline report on our sustainability for our organization was complicated due to the variety of types of initiatives that are happening across diverse departments. It is expected once this report is completed there will be additional factors that could have been considered but were missed in this year's report. We hope that with the feedback from SBI's expert judges and future stakeholder engagement we can continue to build our system of reporting to be the best fit and most relevant to our operations.

2017 is our baseline year so we do not have a lot of progress to report on; however it is exciting to be able to report our baseline indicators on what seems to be well rounded variety of indicators based on the attributes of the Public Gardens Sustainability Index.

SUSTAINABILITY REPORTS



Walker Emulsions

Sustainability reporting allows a company to take a comprehensive inward look from an outside perspective. It is a way to reconcile the image we project to our stakeholders with our internal

operations, and in a way, to ensure that we are practicing what we are preaching. We were extremely proud of our employees' commitment to sustainable practices. Often the little things go unnoticed such as finding new ways to recycle packaging or half a day of volunteer work. The reporting process captures accomplishments that are often

overshadowed by larger projects. One thing we need to improve on is the recognition and celebration of employee driven sustainable initiatives.

A proud moment came this year when we set a GHG reduction target of 20% by 2024. This shared commitment will inspire our team and drive innovation into the next decade. We look forward to digging even deeper into our operations over the next year as we conduct a Climate Change Risk Assessment. It is our hope that our goals will also inspire other organizations in the community to set their own goals and targets to aid in the fight against global climate change.

THE FOLLOWING ORGANIZATIONS HAVE NOT YET PUBLISHED A REPORT

mcCallumSather

mcCallumSather is looking forward to continuous improvement through regularly reporting with SHB and the Global Reporting Initiative. As we develop our awareness company wide, we are finding that staff are coming together organically and more frequently to discuss and share strategies to better ourselves within the office and at home. We believe this is by far the most critical part of the journey, as without a passionate and driven group there is no change. Through sustainability reporting we hope to continue minimizing our footprint not only at work, but at home and within our community. Our processes within the office and work are becoming more refined and environmentally conscious. This impact has a ripple effect as we are setting higher standards within the industry, which we are proud to stand behind.

Art Gallery of Hamilton

The Art Gallery of Hamilton plans to circulate a staff survey to gather stakeholder feedback on what topics are material for sustainability reporting. Sustainability reporting is in line with the Art Gallery's strategic plan, which puts community engagement and financial sustainability as high priorities. It will help to establish metrics against which various aspects of the performance of the organization can be measured. Board members, management and donors are some of the intended audiences of the sustainability report that will be developed in the future.

Mohawk College

By utilizing the GRI framework and reporting structure, we hope to expand our understanding of Mohawk's impacts from an environmental, social, and economic perspective even further and enhance our ability to communicate our impacts. By doing so, we can take our current Environmental Manage Plan, EMP 2.0, to the next level and create a comprehensive college-wide sustainability plan that both complements and enhances current work. We anticipate the identification of new, untapped opportunities for improvement and enhancements in our accountability. We are excited to move forward with the process!

SUSTAINABILITY AWARDS

BEST SUSTAINABILITY REPORT

This award recognizes the organization which the judges determine best meets all criteria set out by the *Global Reporting Initiative* for effective sustainability reporting.

Winner: **Walker Emulsions**



BEST FIRST TIME SUSTAINABILITY REPORT

With this award, the judges recognize an organization that demonstrated excellence in their very first *Global Reporting Initiative* based report within the SBI.

Winner: **Hamilton Health Sciences**



SOCIAL INITIATIVE

This award recognizes a member's program, product, service, or process that demonstrates outstanding innovation and impact on social sustainability.

Winner: **ArcelorMittal Dofasco**



ENVIRONMENTAL INITIATIVE

This award recognizes a member's environmentally-focused program, product, service, or process that demonstrates outstanding innovation and impact.

Winner: **Hamilton Health Sciences**



ECONOMIC INITIATIVE

This award recognizes a member's program, product, service, or process that exemplifies the principle of economic sustainability.

Winner: **Benefect**



AWARDS FINALISTS HIGHLIGHTS

SOCIAL

ArcelorMittal Dofasco

Through the 2017 **Corporate Community Investment Fund**, Dofasco awarded \$1.6 million over 43 organizations in the community. These organizations ranged from the Art Galleries of Hamilton and Burlington, to the Bay Area Restoration Council, to the American Society for Metals (ASM) Material Science Camp.

Royal Botanical Gardens

The Indigenous People and Plants Discovery Trail or **Anishnaabe Waadiziwn Trail** is a renamed section of trail in RBG's Arboretum property created in collaboration with various indigenous people to share and educate about their culture and how it relates to nature.

ENVIRONMENTAL

Hamilton Health Sciences

After implementing an innovative **Nutrition Services Recycling** program and overcoming challenges to create an **Operating Room Recycling** program, the HHS has been able to divert approximately 9 additional tonnes of waste from landfill every month.

Royal Botanical Gardens

Roll out of the RBG's **New Waste Diversion Program** is still in progress, results from the zones where they were initially deployed show an increase in waste diversion from 33% to 68% - more than double the original rate!

ArcelorMittal Dofasco

ArcelorMittal Dofasco began a project to replace three aged boilers with one modern high-pressure boiler, a 20 MW steam turbine, and water treatment plant. **The New Boiler** will use by-product fuel from steel manufacturing to produce steam and electricity and reduce NOx emissions, reducing demand from the electrical grid by about 129,000 MWh/year and provide many local jobs.

ECONOMIC

Benefect

Benefect's new Botanical Cleaner **Quantum Cleaner** is a safe & non-toxic alternative in the fight against drug contaminants. Chemical residues from illicit drugs like methamphetamine and fentanyl are hazardous contaminants and traditional cleaning solutions involved hazardous chemicals, hours of labour & huge costs.

WalterFedy

When a local architecture firm closed its doors, WalterFedy's Hamilton location overhauled their business model to hire the 8 members of the displaced architectural group. This strengthened their operation and allowed them to expand their range of services, while also allowing the architectural group to remain part of the local consulting community rather than commuting or relocating.



BUILDING A BUSINESS CLIMATE ACTION TOOLKIT

Climate change is one of the greatest challenges of our time. Over the next 30 years, our local region will experience a rise in heat waves, intense rainfall events, potential for flooding and other seasonal irregularities. These changes are already putting stress on our systems. For public infrastructure, energy security, supply chains, and property management, climate change poses a strategic risk. This is why we must continue to build a more resilient region, adapting to the risks of climate change while reducing our regional carbon footprint.

In 2014, the City of Hamilton and local organizations set out to engage the public on this issue, identifying priority actions to address climate change in the region. One of these priority actions was to “create an accessible toolkit for businesses to assist with impact analysis and business continuity planning” in the context of a changing climate and low-carbon economy.

As a longstanding partner of the local business community, Sustainable Hamilton Burlington (SHB) was appointed to develop this toolkit. In March 2018, SHB conducted a series of focus groups to explore the common challenges and resources

needed to integrate strategies for climate adaptation and carbon management into business.

Several insights emerged from this research:

- Businesses want to better understand the risks of climate change on their organization
- Businesses want support for capacity building in leadership and change management
- Businesses want information on what projects and programs can be integrated into business
- Businesses want access to financial supports to integrate these projects and programs
- Businesses want to be connected to networks for support, guidance, and recognition

These insights are helping to inform the development of resources contained in the toolkit. Launching in September 2018, the toolkit will be a free, online resource-hub, supporting local businesses in building a climate-resilient, low-carbon future for themselves and our communities.



COLLABORATIVE EXPERIENTIAL LEARNING (CEL) PROGRAM

Sustainable Hamilton Burlington has partnered with McMaster University since 2013, and with Mohawk College since 2016, with the vision of equipping every student with a sustainability lens to carry forth throughout their careers.

Through the Collaborative Experiential Learning program (formerly called SHEL, the Sustainable Hamilton Burlington Experiential Learning program,) 235 students have participated in 64 group projects that have provided creative solutions to organizations trying to improve their sustainability performance as well as valuable work experience for the students.

This year, 5 small businesses were among those assisted with technical and market research to grow their business and deliver valuable goods and services in our community. Here are some examples of the projects completed over 2017/18:

- Greening of the Valley Park Community Centre including stakeholder consultation
- Electric bike sensor/software product that detects the pedaling effort a bicycle rider is exerting and modifies the assistance level accordingly

- Engineering and market research for a vertical gardening product concept, including design and packaging.
- Developing a plan to manage and repurpose storm water coming from adjacent lands for productive use, such as vegetable gardening
- Developing and building a proof of concept design for a system to educate the public about aquaponics, including a market research study
- Conducting a full waste audit to determine a true diversion rate, and capture rate for the divertible materials, and calculate the potential diversion rate if all divertible materials were captured
- Identification of technical solutions utilizing the latest in energy efficiency technology to dramatically lower the environmental footprint of a repurposed building in a cost-effective manner.

We are always recruiting new company projects for our students! If you would like more information on how you can participate, please email info@sustainablehamiltonburlington.ca or call us at **905-570-8899**.

COMMUNITY

Collaboration is fundamental in creating a sustainable community and to address climate change, as no single organization can address the broad range of social, environmental and economic issues on its own.

Green Economy Canada (GEC)

Highlights from Green Economy Hubs

Sustainable Hamilton Burlington is one of seven Green Economy Hubs across Ontario supporting a network of over 240 businesses to set and achieve sustainability targets. As of December 31, 2016, businesses in Green Economy Hubs have collectively reduced 44,257 tonnes of CO₂e - the equivalent of taking 9,477 cars off the road for a year.



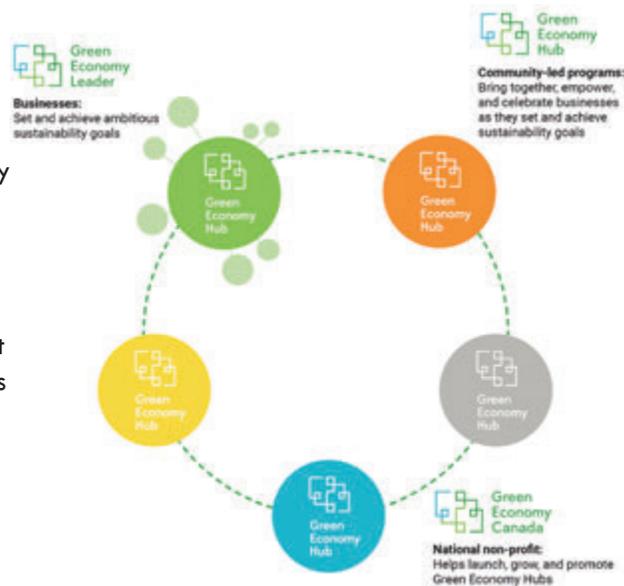
A Network of Green Economy Hubs Driving the Sustainable Economy

In addition to SHB in Hamilton and Burlington, Green Economy Hubs are changing business as usual in Durham Region, Kingston, Ottawa, Greater Sudbury, Waterloo Region, and York Region. GEC brings together, empowers, and celebrates businesses individually and collectively as they achieve their sustainability goals. Through Green Economy Hubs, businesses are demonstrating that profitability and sustainability go hand-in-hand. Together - across 7 communities and with over 240 businesses - we're demonstrating a more sustainable economy is possible.

From Sustainability CoLab to Green Economy Canada

SHB has been a member of Sustainability CoLab since 2016. Sustainability CoLab rebranded in 2018 as Green Economy Canada, and supports a network of Green Economy Hubs. This network provides access to shared resources, best practices and connections and recognizes business leadership across the province.

Visit greeneconomy.ca to learn more about what's happening at Green Economy Hubs across Ontario.



Our Future Hamilton 2017

Our Future Hamilton 2017 Annual Summit: Shaping Democracy Through Civic Engagement invited community groups like ours to discuss how the success of the Clean and Green Community Priority will be measured.

We were glad to see footage from our 2017 Evening of Recognition featured as part of Our Future Hamilton's community showcase video.

Clean Air Fair

SHB joined Hamilton Industrial Environmental Association and Clean Air Hamilton for their Clean Air Fair March 4, 2018

COLLABORATIONS



Mayor's Breakfast

On Thursday, February 1st, the Burlington Chamber of Commerce hosted the Mayor's State of the City Address; commonly called the Mayor's most important speech of the year. In it, the mayor spoke about working with both SHB and our partners, the Centre for Climate Change Management (see page 32)

Upwind Downwind

SHB handled registration for the City of Hamilton's tenth biennial Upwind Downwind Conference on March 5th, 2018: focusing on the City of Hamilton's airshed model, provincial air quality work, practical solutions and new partnerships to address air quality in Ontario.

Minister's Round Table

SHB was invited to a roundtable discussion with Minister of Environment and Climate Change Chris Ballard and Burlington MPP Eleanor McMahon, to discuss "issues of common interest and concern including the government's Climate Change Action Plan (CCAP)." Also present were several current and past SBI members.

Hamilton Industrial Environmental Association

Since its establishment in 1997, HIEA has been actively engaged in consultation with local communities, research organizations, academic institutions, governmental agencies and the public to find the issues, concerns and suggestions for improvements from the wider stakeholders. By taking this information HIEA has helped facilitate interaction among its member companies to develop long-term strategies for pollution management and secondary material reduction in a "circular economy".

HIEA member companies have invested over \$646.5 million on environmental capital improvement projects since 1997 which will have a positive and lasting impact on the Hamilton community.

Since 1997 the HIEA member companies have also paid approximately \$672 million in municipal property taxes and have provided over 7,000 direct manufacturing jobs as well as approximately 56,000 indirect jobs in Hamilton each year. These and many other improvements over the years have had a very favourable impact on the local air quality – drastically reducing dust, diesel emissions and

HIEA members improvements

for air

- 43% reduction in Greenhouse Gases;
- 78% reduction in Total Particulate Matter;
- 42% reduction in Nitrogen Oxides;
- 86% reduction in Polycyclic Aromatic Hydrocarbons (PAHs)

for water:

- 45% reduction in Bay water use.
- 54% reduction in City water use.
- 95% reduction in Suspended Solids discharged to the Harbour and over 83% reduction in Suspended Solids discharged to sanitary sewer for an overall 93% reduction.

green house gases. HIEA members continue to show an overall improving trend since 1997 (see sidebar). Complete survey results are available at www.hiea.org

HIEA's 12 member companies also continue to participate in, and support, a number of local environmental and community initiatives including: Bay Area Restoration Council (BARC), Children's Water Festival, Royal Botanical Gardens Green Angels Program, McQuesten Urban Farm and others providing almost \$1.5 M in community and educational support over the last 20 years.

CENTRE FOR CLIMATE CHANGE MANAGEMENT AT MOHAWK



The Centre for Climate Change Management at Mohawk will be housed in the award-winning net-zero emissions Joyce Centre for Partnership & Innovation, slated to open in fall 2018.

The **Centre for Climate Change Management (CCCM)** at Mohawk is a collaboration between Mohawk College, the Cities of Hamilton and Burlington and Sustainable Hamilton Burlington (SHB), with funding from the Ontario Ministry of Environment and Climate Change. It is designed to support action on carbon emissions reduction and accelerate transformation to a low carbon economy. The programs of the CCCM have been developed to engage a variety of stakeholders in advancing their climate change mitigation efforts, and to provide opportunities for students to live, learn and lead in the development of applied climate change mitigation strategies and initiatives.

The **Campus Carbon Management Initiative (CCMI)** will assemble a body of best practices and tools for measuring and reducing emissions for colleges. These resources will be shared among Ontario's 24 colleges.



The **Bay Area Climate Change Office (BACCO)** will be hosted by Mohawk College in the CCCM to provide support to strengthen a regional, community-based, coordinated approach to climate

action across our region in partnership with the Cities of Hamilton and Burlington.

The heart of SHB's partnership with the CCCM is the **Industry Partnerships Initiative (IPI)**. Mohawk College and the Ministry of Environment and Climate Change recognized the need to bring local businesses into any truly comprehensive plan for climate action. Rather than "reinvent the wheel", they saw the success of the SBI model and brought SHB into the partnership.

To accomplish the goal of reducing greenhouse gas emissions, the Centre for Climate Change Management is offering a number of incentives to businesses to join the SBI (see IPI Incentives on the facing page).



LOOKING AHEAD



Few things have the power to reshape an organization more completely than new leadership. The most significant change coming this year will be the hiring of a new Executive Director. We look forward to the new energy and fresh perspective this Executive Director will bring to the organization.

Of course another important theme in the coming year is going to be exploring our alliance with the Mohawk Centre for Climate Change Management (CCCM - see facing page). Not only will we be working very closely with the Industry Partnerships Initiative (IPI - see below), but we are looking forward to working, through them with other parts of the CCCM and the college in general. There is an opportunity here to make the Collaborative Experiential Learning (CEL) program broader and deeper - addressing more disciplines and exploring different modes of collaboration. An exciting

example is the Energy and Power Innovation Centre at Mohawk which supports industry innovation in the energy and power sector. We hope to facilitate partnerships between EPIC and local industry to provide opportunities for applied research and development and electrical power technology deployment. Another new development for CEL is a micro-module for students on Climate Change Management for Business, expected to launch in Summer 2018.

Last but not least, we've been actively exploring the incentives and rebates that have grown out of Ontario's new carbon market. It's clear that the work of agencies like the Green Ontario Fund is poised to have a significant positive impact on businesses in our community, and we're looking forward to helping members, and the larger business community, understand and utilize these programs.

Industry Partnerships Initiative (IPI) Incentives

Are you interested in learning more about how the CCCM can help you take the next step in reducing the climate impact of your business?

- From now until March 2019: 50% off first year of SBI membership within the carbon framework
- Access to paid, faculty-supervised interns

to assist with greenhouse gas inventory and reduction activities — at no charge

- Access to Mohawk College's world-class facilities and renowned network of leaders in energy and power innovation, and engineering technology.

Contact: Kayla LaChance, Project Lead, Industry Partnership Initiative, at 905-575-1212, ext. 2210 or kayla.lachance@mohawkcollege.ca.

NONE OF THIS WOULD

VOLUNTEERS



SBI

Seyi Adagbe
Rick Alsop
Emma Benko
Tom Darling
Sam Dilorio
Danielle Fabbro
Miranda Floreano
Saurabh Gupta
Allan Kean
Erik Korber
Chris McAnally

David McCallum
Ian O'Reilly
Mike Rooks
Melissa Schwyer
Stacy Trifunovic
Emily Vis
Lindsay Williamson
Mikayla Zolis

IPI

Kayla LaChance
Andrew Ketchin

Business Development

Imogen Ames
Erika Parente
Ashvin Sharma
Matthew Stillman
Lydia Vanderkooy
Yinan Zhang

Events & Marketing

Aceel Habboub
Vani Lallit
Leigh Licursi

Morgan Morel
Titi Onabanjo
Dustin Pollock
Samantha Pufek
Erinn Van Wynsberghe
Lisa Yuan

Volunteer Coordinator

Linda Mirabelli

We would like to say a special Thank You to the panel of judges who judged our Sustainability Awards:

Gwen Cottle, Manager, Sustainability, Loblaw Companies Limited

Velma I. Grover, Adjunct Associate Professor, W Booth School of Engineering Practice and Technology, McMaster University; GRI Trainer, LEAD Canada

Brent McKnight, Associate Professor, DeGroot Business School, McMaster University



We would also like to say a special thank you to local glass blower Paull Rodrigue, for creating our beautiful awards.

www.paullrodrigue.com

BE POSSIBLE WITHOUT

STAFF



Sandi Stride
Founder and Former
President / CEO



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Toolkit Coordinator,
Business Development
Coordinator



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Interim Executive Director,
Sustainable Business
Initiative Manager



Alex Johnston
Events and Marketing
Manager

Sam Dilorio
Sustainability Educational Events Program
Coordinator (Canada Summer Jobs 2017)

Dustin Pollock
Web Developer (Canada Summer Jobs 2017)

AND A SPECIAL THANK YOU TO OUR MEMBERS AND THE PUBLIC WHO ATTEND OUR EVENTS AND HELP TO MAKE THEM AWESOME!

The Members, Board, Staff and Volunteers of Sustainable Hamilton Burlington are passionate about driving positive change for Hamilton and Burlington. By supporting and celebrating sustainability leadership in our businesses, public sector and other organizations we want to put Hamilton and Burlington on the map internationally as forward-looking cities that are thriving in a new low-carbon economy. But we can't achieve this without you!



We extend this invitation to you to join us over 2018 and 2019: let's work together to help drive improved success for you and your stakeholders while contributing to a healthier, more resilient Bay Area.

Consider joining as a member, or showing your support through sponsorship. It takes a whole community to make a difference!

**Contact us at 905-570-8899
or email info@sustainablehamiltonburlington.ca today!**



SUSTAINABLE HAMILTON BURLINGTON WOULD LIKE TO THANK OUR GENEROUS SPONSORS & FUNDERS

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of over \$136 million, OTF awards grants to some 1,000 projects every year to build healthy and vibrant Ontario communities.

Sustainable Hamilton Burlington gratefully acknowledges the support of the Ontario Trillium Foundation. An agency of the Government of Ontario, the Ontario Trillium Foundation is one of Canada's largest granting foundations. With a budget

Sustainable Hamilton Burlington is one of 7 Green Economy Hubs across Ontario supporting networks of businesses to set and achieve sustainability targets. Together, we're demonstrating a more sustainable economy is possible.

