

WE ARE

FUTURE FOCUSED

2019 - 2020

OFFICE OF SUSTAINABILITY

ANNUAL REPORT



Core Priorities

Culture & Community

Promote sustainable, equitable, diverse, and inclusive actions of students, faculty, staff, and partners.

Teaching, Learning & Applied Research

Sustainability will be embedded into all academic program curricula to help prepare every Humber graduate to be career-ready citizens.

Sustainable Operations

Build and operate low-impact campuses that support health and well-being, equity, diversity and inclusion, learning, innovation, biodiversity, ecosystem health and community.



Purpose

[2019-2024 Sustainability Plan](#) outlines a bold approach to reimagine our future to shape healthy, inclusive and sustainable communities. This annual report outlines the progress made in year one towards the defined objectives, targets and metrics defined within the core priorities.



Recognition

In 2020 we were named one of Canada's Greenest Employers for the fifth year in a row

In 2020 we received [Gold designation for STARS 2.2](#)

The Forest and Nature Program was the recipient of the [Edward Burtynsky Award](#) in 2019

In 2019 the North Campus NX building becomes [Canada's first retrofit to achieve a Zero Carbon Building \(ZCB\)](#) Design certification from the Canada Green Building Council





Forest Nature Program

Building on health and wellness and Indigenous mandates, The Willows, a forest nature program at Humber College received the Edward Burtynsky Award for excellence in environmental inquiry.

Culture & Community ●

Promote sustainable, equitable, diverse, and inclusive actions of students, faculty, staff, and partners.

SUPPORTING ACTIONS	PROGRESS	SDG
Contribute to the development of an EDI framework and strategy while supporting EDI Committee and Task Force with integration of a sustainability mindset	Office of Sustainability has a seat in the EDI Task Force	
Host workshops on environmental racism focused on the social justice dimensions of place, space, environment, and health Support the BASE activities through promotion	Office of Sustainability presented at the BASE's orientation	
Incorporate knowledge for LGBTQ+ related topics in performance evaluation criteria Support the LGBTQ+ Resource Centre through promotion	Office of Sustainability participated in the Pride Resource Fair	
Contribute to the development of a Healthy and Inclusive Campus framework and goals	Office of Sustainability is on the Healthy and Inclusive Campus Steering Committee	

SUPPORTING ACTIONS	PROGRESS	SDG
<p>Conduct annual Sustainability Culture Assessment</p>	<p>Conducted assessments in September 2019 and March 2020 with 467 and 257 respondents, respectively</p> <p>We saw a significant increase in students' familiarity with the Office of Sustainability and how to sort waste</p>	
<p>Engage Humber College and University of Guelph-Humber students to think with a sustainability mindset</p>	<p>Office of Sustainability hosts various outreach events, workshops, presentation and social media promotions to engage students</p>	
<p>Continuous outreach through events, campaigns and initiatives that engage our community in a culture of sustainability</p>	<p>The Office of Sustainability promoted sustainability through events to engage staff, faculty and students</p> <p>Such as:</p> <ul style="list-style-type: none"> · Eco Closet · Sustainable Wrapping · Equity Hub · Sort it Out - waste sorting challenge · Paint and Plant · Vegetarian Awareness Day · Earth Week · Find the cart - Fairtrade coffee cart 	

SUPPORTING ACTIONS	PROGRESS	SDG
Pilot and evaluate embedding the SDGs into performance reviews within all of Capital Development and Facilities Management (CDFM) department	Process has begun to embed SDGs into performance evaluations	
Host workshops on how to be sustainable in residence	Workshops hosted by the Office of Sustainability for residence students and staff	
Support IGNITE to build their staff and members ability to think with a sustainability mindset	Completed a Sustainability audit of IGNITE	

2019 Indigenous Knowledge Gathering

Bringing together a diverse array of educators, practitioners, scholars, students and members of Indigenous communities, the Indigenous Knowledges Gathering provides a safe space to think about and actively engage in meaningful conversations about the important role and inherent responsibilities of education.



Teaching, Learning & Applied Research ●

Sustainability will be embedded into all academic program curricula to help prepare every Humber graduate to be career-ready citizens

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Teaching and learning research	Conduct the Sustainability Literacy Assessment (SLA)	Survey results	<p>Conducted assessments in September 2019 and March 2020 with 467 and 257 respondents, respectively</p> <p>We saw a noticeable increase in students' knowledge of sustainability</p>	
Staff & Faculty Mindset	Continue growing the Faculty-led Sustainability Champions Group (e.g. professional development and peer to peer learning, creation of resources)	Engagement/ attendance, resources created	<p>Faculty-led Sustainability Faculty Champions has grown to over 30 regular members, increasing each consecutive gathering</p> <p>Hosted 6 champions meetings in 2019-2020</p> <p>2019-2020 has focused on faculty review of course outlines and student activities and projects, competencies and shared resources</p>	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Staff & Faculty Mindset / Student Mindset	Advise on the development, delivery and assessment of sustainability outcomes at the course and program level (i.e., capstone projects, course materials, etc.) as well as any new programs and courses that may be created and developed	Percentage of courses/ programs that identify sustainability as being taught, reinforced and measured (COSSID)	Humber currently offers 824 courses that connect to sustainability through some aspect of ecological, social or economic means ‡	
Student Mindset	Create a Sustainability Library Guide	Create guide	Sustainability Library Guide created	
Student Mindset	Expand the value and availability of learning opportunities for Humber students connected with the Humber Arboretum and Centre for Urban Ecology Support above through greater promotion of the Humber Arboretum to internal and external community	Track opportunities and participation	Metrics for this priority will be added to the report in Summer 2020	
Applied Research	Define, track, review and set goal for number of Applied Research and the scholarship of teaching and learning (SoTL) project work in sustainability	# projects # students engaged # faculty engaged # partners	Five out of six faculties conduct sustainable research. 28 faculty conduct ongoing research directly linked to sustainability	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
<p>Student Mindset</p>	<p>Provide experiential learning opportunities for students with faculty, e.g.</p> <ul style="list-style-type: none"> · In-class presentations · Capstone projects · Applied Research projects · Connect students with IEMP and sustainability projects 	<p>Track the number of experiential learning projects</p>	<p>Office of Sustainability conducted 14 presentations, assisting in 3 capstone projects, 3 group projects, 1 workshop and 3 events surrounding various sustainability topics</p> <p>Faculty of Applied Sciences and Technology - Capstone project to connected to sustainable energy and building technology. Project connecting to IEMP through building energy efficiency and low energy building research conducted in class</p> <p>Faculty of Liberal Arts and Sciences and Innovative Learning - Sustainability focused guest speakers, waste workshop from Toronto Solid Waste Management, plant identification project and projects connected to exploring solutions to climate crisis</p> <p>Faculty of Media and Creative Arts - Students film project for Kenyan Education for Employment Project</p>	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Community Outreach and Workforce Development	Create a fund for social innovations that address Sustainable Development Goals (SDGs)	Creation of fund, track participation annually, impact of business	Humber Social Innovation Awards Launched with seven applicants. Three finalists will be provided funding to support their social innovations	
Community Outreach and Workforce Development	Continue the reach of the established Humber College Community Partnership Fund (HCCP Fund) that supports social investments in the local community to address community needs with a focus on access to education and training for underrepresented groups	Track projects and their impact annually	HCCP Fund supported 18 projects out of 22 applications. \$150,400 was requested to run new projects while continuing to maintain important community resources	

‡ Definitions differ slightly between STARS and Humber.

STARS: To count as a sustainability focused course, the primary and explicit focus of the course is on the interdependence of ecological aspects. Secondary it can involve social/economic systems or a major sustainability challenge such as climate change, however it must include an ecological aspect. We have 505 sustainability inclusive and/or focused courses.

Humber: To count as a sustainability course, the course title, description or learning outcomes must indicate a primary and explicit focus". We have 824 courses that connect to sustainability.



NX Building | 2019 Retrofit

Building NX will use 70% less energy than before, making it the College's most energy efficient building, and one of the most energy efficient in North America.

Sustainable Operations ●

Build and operate low-impact campuses that support health and well-being, equity, diversity and inclusion, learning, innovation, biodiversity, ecosystem health and community

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Natural Environment	Enhance the natural functions of the Humber Pond that includes living labs, an outdoor classroom, social gathering spaces and wildlife habitats	Examples of activity annually	<p>Phase One of construction has completed on the Humber Pond Revitalization Project</p> <ul style="list-style-type: none"> · Create new learning and social gathering spaces for our students and community · Help protect the health of people, native plants, and wildlife · Pioneer innovative, sustainable approaches to green infrastructure 	
Natural Environment	Integrate sustainable stormwater management into campus design and management practices following Toronto's Green Standards	Examples of activity annually	<p>Stormwater Management principles incorporated in the design of Humber Cultural Hub</p>	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Natural Environment	Foster continued connection and evolution of current Indigenous teachings such as land-based ways of living and learning	Examples of activity	In November, Aboriginal Education Month and many other workshops fostered our connection with Indigenous teachings	
Food Systems	Conduct the Good Food Challenge every two years	Purchase Data	Conducted the Good Food Challenge in summer of 2019	
Food Systems	Review the Good Food Challenge baseline results and set a target of Good Food on campus by 2024	Percentage of Good Food	A target of 20% Good Food by 2024 has been set	
Food Systems	Establish a Campus Good Food Committee	Committee established, active participation	Wellness and Culinary Committee established with representation from student, faculty, and staff	
Food Systems	Provide opportunities to learn about Good Food	Activities annually	Good Food presentations conducted to various Humber Stakeholders including staff and students	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Food Systems	Reduce the availability of foods that are not reflected in the new Canada Food Guide, including sugary drinks	Purchase data % availability Access to water in each building	Fair Trade selection of coffee is available both through the Starbucks brand and Van Houtte Coffee Water bottle refill stations located across all campuses	
Food Systems	Increase the availability and marketing behind foods that are reflected in the updated Canada Food Guide	Purchase data % availability Access to water in each building	Office of Sustainability hosted the annual Vegetarian Awareness day event During Humber's annual Earth Week, a menu of vegetarian and vegan meals is prepared to highlight a healthy plant-based diet and promote reducing meat consumption Powered by Pulses Campaign in January brought pulses to the forefront as a staple plant based protein and nutrition option to traditional meat based menus	
Food Systems	Explore solutions to increase food security within our community	% students of reporting food insecurity, need baseline	Faculty of Business' leftover food is donated to the pay-what-you-can Soupbar at Humber College	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Food Systems	<p>Expand the reach of Humber Arboretum Food Learning Garden. Continue food growing and integration with Arboretum community programming and Faculty of Health Sciences programs</p> <p>Connect Arboretum Food Learning Garden with internal and external partners to improve distribution of food grown on campus</p>	Examples of partnerships and activities within Humber and with surrounding communities	Faculty of Business culinary facilities and its food services division use vegetables and herbs from the garden whenever available	
Sustainable Purchasing	Create a guiding document for social and sustainable purchasing practices	Document completed, communicated and tracked	Creation of Sustainable Procurement Committee	
Sustainable Purchasing	<p>Update main RFP template and Procurement Policy with social and sustainable purchasing language, requirements and evaluation matrices</p> <p>Develop a tracking mechanism for RFPs integrating sustainability into evaluation matrices</p>	Complete updates	Sustainable procurement policy drafted and working towards creating a sustainable procurement procedure	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Sustainable Purchasing	Establish program to provide refurbished computers to students in need at the college and in the community	Program established and tracked	<p>Winter 2020 pilot of the partnership with Renewed Computer Technology</p> <ul style="list-style-type: none"> · 118 total learners across North, Lakeshore, HCCES (Humber College Community Employment Services) reached out for purchasing codes · 97 applications completed · 60 paid and received a computer: 30 Lakeshore, 30 North (5 Community) 	
Sustainable Purchasing	Evaluate and right-size printers across all areas, fleet review and balancing	Conduct evaluation and make adjustments	All campus printers were re-deployed with defaults for double sided, black and white, and print/release	
Sustainable Purchasing	Purchase EPEAT Gold products whenever available	Purchase data	In 2019, 38% of electronics purchased were EPEAT Gold registered and/or third party certified at the highest achievable level	
Sustainable Purchasing	Review and reduce desktop printers campus-wide (excluding accessibility accommodations)	Inventory	Progress was limited because printers were re-deployed in 2019. Data is being gathered to do assessment in 2020	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Sustainable Purchasing	Exclusive use of certified green cleaning and janitorial paper products	Reporting, purchase data	Custodial provider at Humber is certified by the International Sanitary Supply Association's Cleaning Industry Management Standard for Green Buildings (CIMS-GB)	
Sustainable Purchasing	Collaborate through the Humber Seneca Polytech Partnership	Partnerships created	Collaborated on selecting a Waste Hauler	
Climate Action and Built Environment	Minimum LEED Platinum certification on all new construction	Number of Projects	LEED Platinum is the standard for all new buildings at Humber	
Climate Action and Built Environment	Continue progress towards Humber's Integrated Energy Master Plan resulting in reductions of 30% greenhouse gas emissions, 50% per unit area in energy use, and 50% per student in water use by 2034. Select major initiatives: <ul style="list-style-type: none"> · Conversion of North Campus heating systems to low carbon alternatives · Renewable energy installations 	GHG: CO2e tons Energy: eKWH Water: m3	IEMP progress has continued with the execution of various projects: Solar, Lighting Retrofits, Controls upgrades, Equipment Replacement Metrics will be available Summer 2020	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Climate Action and Built Environment	Influence transformational change in the marketplace by challenging industry with new and innovative approaches to sustainable design and operations	Examples of activity annually	<p>Building NX renovation project was completed and became the first zero carbon building design certified project in Canada. Winning the Canada Green Building Council's Ontario Green Building Excellence and Leadership Award for Existing Buildings</p> <p>Barret Centre for Technology Innovation (BCTI) was completed, second largest net zero energy building in Canada. The solar panels on the new commuter hub was completed and is thought to be the largest solar install on any post-secondary building in Ontario</p>	
Climate Action and Built Environment	Update our emissions inventory annually and begin to track and report Scope 3 greenhouse gas emission	Report published, GHG emissions	All flights tracked across the institution in 2019	
Climate Action and Built Environment	Integrate universal design principles into campus planning and design to ensure the institution's products and environments enable accessibility, functionality and social inclusion	Examples of activity annually	Accessibility audit of all spaces on campus completed	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Climate Action and Built Environment	Install 1.1MW of renewable energy across North and Lakeshore campuses	GHG emissions	Installations complete	
Climate Action and Built Environment	Produce engaging communications throughout campuses and buildings outlining how sustainability is integrated into the design and construction	Examples of activity annually	BCTI was designed with education in mind: ceilings are exposed to show infrastructure, includes 'truth windows' (building elements that are behind plexiglass) to allow observers to see systems that would normally be behind walls or closed doors	
Climate Action and Built Environment	Integrate universal design principles into campus planning and design to ensure the institution's products and environments enable accessibility, functionality and social inclusion how sustainability is integrated into the design and construction	Examples of activity annually	Accessibility audit of all spaces on campus completed	
Climate Action and Built Environment	Provide experiential learning opportunities for students that are connected to campus development projects whenever possible	Annual examples of IEMP projects	Tours and presentation of NX were conducted. Energy Manager delivered guest lectures in various forums	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Climate Action and Built Environment	Work with Academic Faculties to connect curriculum to on campus energy and building projects	GHG emissions	In 2019 labs were conducted for the energy audit course in the Sustainable Energy & Building Technology Program using Humber's Lighting Management system - allowing students to interact with, manipulate and program classroom lighting. Humber students and faculties participated in first Hackathon to engage with industry partners to produce visualizations of the hard data from the BCTI	
Sustainable Transportation	Continue to improve and communicate about carshare program and how sustainability is integrated into the design and construction	Increased use of programs (users)	Continue to improve and increase communication of carshare program	
Sustainable Transportation	Participate in all regional discussions related to a student transit pass	Participation	Participation in discussion with regional transportation authorities	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Sustainable Transportation	Install electric vehicle charging stations to meet evolving campus and community needs	Number of EV stations	Electric vehicle (EV) charging stations installed. 16 located at North Campus Commuter Hub, 2 at Carrier Drive and 2 EV parking charging stations at the Lakeshore Campus Welcome Centre underground parking area	 7 AFFORDABLE AND CLEAN ENERGY
Sustainable Transportation	Incorporate accessibility and bike infrastructure into all campus design and infrastructure	Examples as they occur	Secured bike rooms designed and built at North and Lakeshore campuses North has 100 bike spots and Lakeshore has 45	 10 REDUCED INEQUALITIES
Sustainable Transportation	Explore the use of an electric shuttle bus service	Number of vehicles	Use of an electric shuttle bus service has been explored and best available options are being reviewed	 9 INDUSTRY INNOVATION AND INFRASTRUCTURE
Waste Systems	Reduce the volume of waste generated by 15% per campus user	Metric Tons	Reduced amount of water coolers in offices. Reduced size of Humber acceptance package	 12 RESPONSIBLE CONSUMPTION AND PRODUCTION
Waste Systems	Reduce contamination in all waste streams	Metric Tons	Started Waste Warrior Wednesdays on Instagram to encourage students to sort their waste	 12 RESPONSIBLE CONSUMPTION AND PRODUCTION

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Waste Systems	Increase waste diversion to 80% per campus user	Percent	Switched from black to white plastic, as white plastic is recyclable. Increased access to organics bins. Increased diversion of main student spaces through improved bin layout and signage 2019 college total waste diversion rate 68.5%	
Waste Systems	Build and implement a strong engagement strategy to increase awareness of on-campus waste reduction and separation practices	Create and execute ongoing strategy	Office of Sustainability hosted workshops and presentations to increase proper sorting practices Sort it out events are held ongoing	
Waste Systems	Expand access to food waste collection bins across all campuses	Metric Tons of wasted food in waste audit	Bins were selected to standardize waste sorting, increase accessibility and efficiency	
Waste Systems	Significantly reduce single-use and unsustainable items from campus (single-use water bottles, plastic straws, plastic cutlery, plastic bags, single-use condiments and milks, etc.)	Reduction in sales/purchases	Increased use of bulk sugar Decreased availability of straws across Humber Baseline numbers are being obtained in Summer 2020	

PRIORITY	SUPPORTING ACTIONS	METRICS	PROGRESS	SDG
Waste Systems	Tax use of paper cups - pilot year 1	Program created and communicated	<p>Uniform discount (25 cents) for using a reusable mug applied at all non-branded locations</p> <p>Paper cup tax was piloted at The Spot</p>	
Waste Systems	Standardize responsible disposal of waste for users (i.e. bins, locations)	Standard created	Ran a pilot program in Birmingham building to assess best standard bin option	



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