

Moving from Commitment to Results

Fleming College Annual Action Plan 2017-18



Introduction

As Fleming moves into the final year of the five year sustainability plan (2013-2018 <https://flemingcollege.ca/PDF/sustainability-plan-2013-18.pdf>) we will be assessing our progress against the goals and targets in the plan. This final action plan reflects the focus of closing the gaps, as well looking to the future in preparing for the next plan. Our work is against a backdrop of exciting developments!

This past year Fleming achieved the Silver award for STARS <https://flemingcollege.ca/news/fleming-college-receives-stars-silver-rating-for-sustainability-achievements/> the most recognized international sustainability benchmarking report for higher education. This award reflects accomplishments in the areas of operations, curriculum and research, our College administration and working with our communities. Fleming was also recognized as one of the 13 Centers for Sustainability across the curriculum, the only Canadian institution selected by the Association for Advancement of Sustainability in Higher Education (ASSHE) <http://www.aashe.org/partners/centers-for-sustainability-across-the-curriculum/> . In 2016 Fleming was also the post-secondary co-lead, along with Trent University, in applying to become the newly designated Regional Centre of Expertise in Sustainability Education for the Peterborough Kawartha and Haliburton Region. This United Nations University designation is a prestigious acknowledgement of the strengths of both institutions working together <https://kawarthanow.com/2017/06/05/events-celebrate-launch-of-united-nations-regional-centre-of-expertise-in-the-kawarthas/> and with our communities.

To combat climate change, the Ontario government is also building momentum, in implementing the Provincial Climate Change Action Plan. There have been a number of funding announcements in the summer 2017, including with our Ministry of Advanced Education and Skills Development, to build the skills needed through Ontario Colleges delivering training and education for the “low Carbon economy”. Fleming will be launching new programs to meet this challenge, along with our recent launching of the Centre for Sustainable Municipalities – to help our municipal partners.

Fleming also has plans to further reduce our campus carbon footprint and is well poised to continue to be a leader in sustainability!

We lead because of our programs; our research; our beautiful campuses; and our work with communities, but most of all, we lead because of our staff and students!

FIVE YEAR PLAN GOALS, STRATEGIES AND TARGETS	2017-18 ACTION PLAN PRIORITY	LEADS	BENEFITS
<p>Increase Awareness and Understanding of Sustainability</p> <p>Reduce negative environmental impact of Fleming operations</p> <p>Outcomes:</p> <p><i>Consultations across the college and development of the 2018 Sustainability Plan</i></p> <p><i>Total annual greenhouse gas emissions per weighted campus user – reduce by 10% (by 2018)</i></p> <p><i>Meet Net Zero targets of 15% reduction by 2020 and toward 37% by 2030.</i></p>	<p>Conduct an assessment and publish results in reaching the 2013-2018 sustainability plan targets.</p> <p>Prepare for the next plan. Conduct consultations with internal and external stakeholders, gather best practice information, include net zero – climate action planning and align targets with the Provincial Climate Change Action Plan (& STARS). Incorporate climate change action framework (as below).</p> <p>Develop a Net Zero - Climate Change Action Framework that includes Energy, Transportation, and Waste strategies, carbon offsets and projects that promote “resiliency” on campus and enhancement of Green Skills across the curriculum, including launching low carbon programming.</p> <p>Specific actions in the development of a Net Zero - Climate Change Action Framework include;</p> <p>Completing the Green House Gas Inventory- Scopes 1, 2 and 3</p>	<p>Office of Sustainability/Physical Resources</p>	<p>Reporting results and developing the next generation sustainability plan provides an opportunity to engage the campus community, as well as approach net zero plans, climate action planning in an integrated way.</p>

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	<p>Identification of quantifiable GHG reduction initiatives (e.g. energy use, transportation, waste) and “resiliency” initiatives (e.g. water conservation, tree canopy / green cover projects)</p> <p>To support integrated planning, link action plan to the Greater Peterborough area Climate Action Plan.</p> <p>Identify “climate leadership skills”, by assessing student participation in projects related to climate change assessment, adaptation and resiliency.</p>		
<p>Incorporate sustainability into the student experience.</p> <p>Outcome: <i>Number of internal partnerships btwn.academic programs/campuses that work to advance sustainability – 3 per year</i></p>	<p>Initiate 3-5 Sustainability partnerships with a continuing focus on partnerships with Indigenous Perspectives, International students and across programs.</p>	<p>Office of Sustainability</p>	<p>Supports applied sustainability practices and inter-cultural collaboration.</p> <p>Supports STARS Engagement Credits.</p>

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<p>Incorporate sustainability into the student experience.</p> <p>Outcome: <i>Incorporate sustainability into program curriculum and Learning Outcomes (100% of Diploma programs)</i></p>	<p>Update and publish the inventory of the Sustainability Learning Outcome and sustainability across the curriculum – with a focus on climate action skills.</p> <p>Distribute the common assessment tool for all faculty members teaching courses that contain the Sustainability LO.</p>	<p>Office of Sustainability Learning Design Team Program Coordinators and Faculty members</p>	<p>Fosters sustainability across the curriculum.</p> <p>Supports STARS Academic Credits</p>
<p>Incorporate sustainability into the student experience.</p> <p>Outcome: <i>Literacy Assessment/ Graduate measurement in place for 2018 graduation</i></p>	<p>Formalize the criteria for student recognition upon graduation for sustainability course work and co-curricular activities through expanding graduate awards/recognition.</p>	<p>Office of Sustainability Learning Design Team Academic Task Force</p>	<p>Fosters sustainability across the curriculum</p> <p>Supports STARS Academic Credits</p>
<p>Reduce negative environmental impact of Fleming operations.</p>	<p>Ensure that the implement of the Waste Reduction and Diversion Strategy is carried forward to achieve 10% reduction target.</p>	<p>Physical Resources Office of Sustainability</p>	<p>Supports achievement of Waste Diversion Targets in the Five Year Plan.</p> <p>Supports behavioral shift towards waste reduction.</p>

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<p>Outcome: <i>Total annual waste generated per campus user – reduce by 10% across all campuses by 2018</i></p>	<p>Ensure consistent signage and labeling for all bins.</p> <p>Complete business case analysis for an organics solution, with Frost campus as a priority.</p> <p>Communicate relevant information around waste management to staff/students at the beginning of each term.</p>		<p>Supports STARS Operations Credits.</p>
<p>Reduce negative environmental impact of Fleming operations.</p> <p><i>Improve and support Alternative and Public Transit Options for Staff and Students</i></p> <p>Outcome: <i>Year 3, Year 5 – achieve 50% of students (achieved) and</i></p>	<p>An Alternative (Sustainable) Transportation Task Force was created in 2016.</p> <p>Develop a comprehensive Alternative Transportation Plan with a focus on improving staff participation in alternative transportation from 12% to 20%.</p>	<p>Physical Resources</p> <p>Student Advisory Councils</p> <p>Internal and external partners</p> <p>Office of Sustainability</p>	<p>Reduces GHG emissions and improves accessibility to College Campuses.</p> <p>Supports STARS Operations Credits.</p>

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<i>20% of staff using sustainable transportation (by 2018)</i>			
<p>Reduce negative environmental impact of Fleming operations.</p> <p>Outcome: Total annual amount of paper used – reduce by 30%</p>	<p>Implement paper reduction strategies and campaigns to bridge the gap between our current progress of 18.5% reduction and the 30% target by 2018.</p> <p>Research best practices including the Lean paper/duplicating project in GAS (2015) for implementation across the college.</p> <p>Pursue IT infrastructure changes such as automatic duplexing, margin reductions etc. for all college printing.</p> <p>Complete implementation of digital payroll/ timesheets and assess results.</p> <p>Develop digital KPI and course evaluations for 2018 implementation.</p> <p>Exploit communication technology systems such as Spark to decrease reliance on paper communication.</p>		<p>Reduces paper consumption and improves Fleming College’s environmental footprint</p> <p>Supports STARS Operations Credits</p>

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	Host faculty workshops around paper reduction (e.g. “going paperless”)		
<p>Collaborate on sustainability initiatives.</p> <p>:</p> <p>Outcome: <i>Assist in implementing Community Sustainability Plans – published Climate Change Action Plan (GPA)</i></p>	<p>Launch the Living Planet @ Campus and Living Planet @ Work initiatives in collaboration with World Wildlife Fund and HP Canada.</p> <p>External Collaboration will continue through Sustainable Peterborough and its Climate Change Task Force, Trent Environmental Advisory Committee, and MP Council on Arts, Culture, Housing, Health and Environmental Sustainability, the Peterborough Kawartha Haliburton Regional Centre of Expertise.</p> <p>Complete partnership agreement with Mohawk Re: Local Food on Campus Research project.</p>	<p>Office of Sustainability</p> <p>Office of Sustainability, SENRS</p> <p>Office of Sustainability/Food Services</p>	<p>Supports a culture of sustainability across the whole of the College. Supports STARS Credits</p> <p>Promotes community – wide sustainability initiatives and provides Applied Learning Opportunities for students.</p> <p>Supports STARS Engagement Credits</p>

FIVE YEAR PLAN GOALS, STRATEGIES AND TARGETS	2017-18 ACTION PLAN PRIORITY	LEADS	BENEFITS
<p>Collaborate on sustainability initiatives; <i>Utilize mechanisms to facilitate community-based education and research opportunities that support sustainability.</i></p> <p>Outcome: <i>Number of partnership related projects, with external entities, that work to advance sustainability – target 6/ yr</i></p>	<p>Seek a minimum of one funding grant proposal in partnership with the local community, and or other educational institution(s), to advance sustainability education.</p> <p>Fleming College will collaborate with Trent University and multiple organizations in advancing the goals of the Peterborough Kawartha Haliburton Regional Centre of Expertise (RCE) in Sustainable Development Education as endorsed by UNESCO, particularly Goals 1, 3 and 4, as follows:</p> <ol style="list-style-type: none"> 1. advancing indigenous knowledge in curriculum 3. building bridges between school curriculum and the programs offered at Trent University and Fleming college 4. linking post-secondary programs and community-based training programs to green jobs, research and innovation in the region 	<p>OOS/Applied Research Office</p>	<p>To build on collaboration between key educational organizations- both formal and informal- to support students moving from the K-12 system into sustainability related programs at the post-secondary level and into Green jobs in the Kawartha region.</p> <p>Supports STARS Engagement Credits.</p>

FIVE YEAR PLAN GOALS, STRATEGIES AND TARGETS	2017-18 ACTION PLAN PRIORITY	LEADS	BENEFITS
<p>Utilize sound business analysis for sustainability initiatives</p> <p>Outcome: <i>Utilize existing College process improvement strategies.</i></p> <p><i>Utilize Life-Cycle Assessment in capital expenditure decision making</i></p> <p>Improve the well-being of Fleming staff, students and the communities they serve.</p> <p><i>Use of sustainability as parameter in capital expenditure decisions</i></p>	<p>Drafting an updated Board Policy for Sustainability (Sustainability Decision Support Tool) – to assist the College in integrating sustainability in all decisions based on ACCC Pan-Canadian Protocol for Sustainability, UNESCO Principles, Indigenous Perspectives, STARS criteria and consideration of climate impacts and resilience. To be in place by the time of the expiration of the Five Year Sustainability Plan in 2018.</p>	<p>Office of Sustainability in consultation with Task Forces, Leadership Teams.</p>	<p>A decision- support tool will institutionalize sustainability even further at the College by putting a sustainability lens on future capital, maintenance, curriculum, and engagement and investment decisions.</p> <p>Supports STARS Planning and Administration Credits.</p>
	<p>FROST CAMPUS</p>		

FIVE YEAR PLAN GOALS, STRATEGIES AND TARGETS	2017-18 ACTION PLAN PRIORITY	LEADS	BENEFITS
<p>Increase awareness and understanding of sustainability <i>Increase visibility of sustainability initiatives</i></p> <p>Outcome: Incorporate sustainability into the student experience <i>Use the “campus as curriculum” to teach about sustainability concepts</i></p>	<p>Development of Frost Sustainability website as a distinct page on the OOS Site, Sustainability Blog and improvement of social media presence</p> <p>Run Nature Camp to educate children about Nature and promote sustainable behaviour; put infrastructure in place to support the Nature Camp</p> <p>Reinstate FSCI Committee.</p>	<p>Students for Sustainability</p> <p>Sustainability Coordinator</p>	<p>Supports STARS Engagement Credits. Increases visibility of sustainability initiatives and promotes sustainable behavior.</p> <p>Supports STARS Academic Credit. Uses sustainability initiatives to teach students about sustainability concepts.</p>
<p>Improve the well-being of Fleming staff, students and the communities they serve</p> <p>Outcome: <i>Increase local and/or sustainably produced content of food services</i></p>	<p>Increase local food content by using the Sustainable Agriculture Garden as produce supplier for Aramark</p>	<p>Sustainable Agriculture Program, FSCI</p>	<p>Supports STARS Operations Credit. Increases local food content and reduces GHG emissions.</p>

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<p>Improve the well-being of Fleming staff, students and the communities they serve</p> <p>Outcome: Increase naturalization of SENRS grounds;</p>	<p>Improve the landscaping of SENRS ground by creating a naturalization and planting plan; ensure adequate maintenance.</p> <p>Investigate and develop a plan for bee hives/small Apiary on the roof of the environmental technology wing, to be used for climate change monitoring and assessment research.</p> <p>Investigate air and climate monitoring equipment for installation and display on campus.</p>	<p>FSCI Committee, Sustainability Coordinator</p>	<p>Applied learning through implementation of sustainable actions/projects</p> <p>Increases attractiveness of campus</p> <p>Supports STARS credits.</p>
<p>Collaborate on sustainability initiatives;</p> <p>Outcome: <i>Utilize mechanisms to facilitate community-based education and research opportunities that support sustainability.</i></p>	<p>Supporting the MOU between Frost Campus and the City of Kawartha Lakes</p>	<p>Frost Leadership</p>	<p>Supports STARS Engagement Credits.</p> <p>Applied learning through implementation of sustainable actions/projects in the community</p>

FIVE YEAR PLAN GOALS, STRATEGIES AND TARGETS	2017-18 ACTION PLAN PRIORITY	LEADS	BENEFITS
Reduce negative environmental impact of Fleming operations Outcome: Reduces annual water consumption. Supports water reduction target.	Research water conservation initiatives <ul style="list-style-type: none"> - Rain water catchment system living wall - Rain water catchment system greenhouse - Low-flush toilets 	Operations Lead/Water Conservation Intern	Reduces annual water consumption; fosters “green-skill” development Supports STARS Operations Credits.
Reduce negative environmental impact of Fleming operations Outcome: Supports GHG emission target.	Implement wind and solar energy projects on campus.	Physical Resources	Reduces GHG emissions; fosters “green-skill” development Supports STARS Operations Credits.

Appendix a – Fleming Sustainability Plan 2013-2018 – Metrics & Targets

GOAL	METRICS & TARGETS
Increase awareness and understanding of sustainability.	<ul style="list-style-type: none"> • Sustainability Survey – complete 3 surveys: Year 1(baseline), Year 3, Year 5 • Number of sustainability outreach vehicles, programs and events – target six annually • STARS Rating - achieve a minimum level of silver by 2015

GOAL	METRICS & TARGETS
<p>Incorporate sustainability into the student experience.</p>	<ul style="list-style-type: none"> • Number of sustainability focused & sustainability related courses – increase to 50% by 2018 • Number of sustainability immersive experiences • Number of Students participating in community based learning (as part of their curricular and co-curricular experience) – achieve 40% • Sustainability Literacy Assessment - graduate measurement in place
<p>Reduce negative environmental impact of Fleming operations.</p>	<ul style="list-style-type: none"> • Total annual potable water consumption per square foot – reduce by 10% across all campuses • Total annual energy consumption per square foot – reduce by 15% across all campuses • Total annual waste generated per campus user – reduce by 10% across all campuses • Total annual greenhouse gas emissions per weighted campus user – reduce by 10% • Total annual amount of paper used – reduce by 30% • Modal transportation survey – Year 1 (baseline), Year 3, Year 5 – achieve 50% of students and 20% of staff using sustainable transportation
<p>Improve the well-being of Fleming staff, students and the communities they serve.</p>	<ul style="list-style-type: none"> • Percentage of endowment fund investments meeting Jantzi Social Index parameters • Number of applied projects related to implementing community sustainability plans • Use of sustainability as parameter in capital expenditure decisions • Employee engagement survey • Percentage of local/sustainable content in food provided by 3rd party food service provider – achieve 40% • Fleming diversity survey
<p>Collaborate on sustainability initiatives.</p>	<ul style="list-style-type: none"> • Number of interdepartmental collaborations on sustainability projects • Number of internal partnerships between academic programs/campuses that work to advance sustainability – 3 per year Years 3, 4, 5 and number of partnership related projects, with external entities, that work to advance sustainability – target minimum 6 per year

GOAL	METRICS & TARGETS
Utilize sound business analysis for sustainability initiatives.	<ul style="list-style-type: none"> • Total annual savings and benefits derived from sustainability initiatives • Number of green value stream initiatives undertaken – complete 1 per year