

# Fleming College Annual Sustainability Report 2015 - 2016

## YEAR IN REVIEW

Tony Tilly, President Fleming College

I am pleased to present our Third Annual Sustainability Report on achievements to date arising out of Fleming College's Five Year Sustainability Plan (2013-2018). This plan sets out specific goals and targets aimed at making sustainability an integral part of our academic programs, our operations and our engagement with the college community and beyond. Highlights of this report include the high level of engagement amongst our faculty and students as they bring sustainability into our classrooms, hallways and communities. Their efforts include a sustainability learning outcome in over 80% of diploma programs, applied projects aimed at reducing waste and increasing energy efficiency on campus and actions and events to support local food- to name just a few. These efforts have been reported in our local media and highlighted in international publications. We are also making progress towards targets in the areas of water, transportation, energy and greenhouse gas emissions. Action on issues such as climate change and the corresponding imperative of sustainability education – has become top of mind at the local, provincial, federal and international level like never before. Our priority is to prepare our students to be problem solvers and innovators in their fields of study so that they can become the graduates that will shape a more sustainable future.

Tony Tilly,  
President, Fleming College

## Progress On Our Five Year Sustainability Plan

With two years left in our sustainability plan, we are tracking our targets in water, transportation, energy, curriculum and engagement with more to come on waste and local food.

**Update-5 Year Sustainability Plan**

Indicator	Metric	Objective	Tracking - Fiscal Year			Target
			2012-13	2013-14	2014-15*	
Energy	kWh/sq.ft	Reduce annual energy consumption per square foot* by 15% across all campuses	42.7	49.5	41.89	36.3
Water	m3/sq.ft.	Reduce total annual potable water consumption per square foot by 10% across all campuses	0.059	0.048	0.048	0.053
Waste***	kg/user	Reduce annual waste generated per campus user** by 10% across all campuses	0.070	0.073	0.088	0.063
Paper	#sheets	Reduce annual amount of paper used by 30%	10,980,441	11,042,211	10,099,916	7,686,309
Transportation		Achieve 50% of students & 20% of staff using sustainable transportation	Unknown	Unknown	Stud - 65% Staff - 12%	Students - 50% Staff - 20%
GHG Emissions****	eMTCO2/user	Reduce annual greenhouse gas emissions per weighted campus user by 10%	0.35	0.34	0.337	0.315
Local Food Content	%	Increase local/sustainable content in food provided by 3rd party provider to 40%	28%	19%	Not Available	40%
STARS Rating	Rating	Achieve Silver Rating by 2016	Bronze	Not Applicable	Not Applicable	Silver

Indicator	Objective	Tracking - Fiscal Year			
		2012-13 (Baseline)	2013-14	2014-15*	2015-16
Awareness	Complete 3 sustainability awareness surveys	None	Completed	None	Achieved
Awareness	Complete a minimum of 6 sustainability outreach vehicles, programs, or events	6+	6+	6+	6+
Student Experience	Number of sustainability focused & sustainability related courses – increase to by 50% by 2018	16%	Unknown	Unknown	Preliminary est. 25%
Student Experience	Number of students participating in community based learning (curricular/co-curricular) achieve 40%	Unknown	Unknown	Unknown	to assess #s
Well-being	Sustainability Literacy Assessment - graduate measurement in place	No	No	No	Learning Outcome
Collaboration	Number of internal partnerships between academic programs/campuses that work to advance sustainability – 3 per year Years 3, 4, 5	Not applicable	No applicable	No applicable	3+
Collaboration	Number of partnership related projects, with external entities, that work to advance sustainability – target minimum 6 per year	Unknown	Unknown - C-Links	4	6
Use Sound Business Analysis	Number of green value stream initiatives undertaken – complete 1 per year	None	None	Paper use- gy underway'	GAS

## HIGHLIGHTS - YEAR 3 ACHIEVEMENTS

### GOAL 1 - Increase Awareness and Understanding of Sustainability

- Monthly Sustainability Awareness Tables, set up in the main foyer, engaged hundreds of students in awareness activities on waste reduction, water protection, local food, Earth Hour and how to make sustainable household products.
- Over 200 people attended this year's Ecosystem Management Student- Led Conference on Food, Energy and Water featuring hands-on workshops and a keynote address by CBC's Bob MacDonald.
- Sustainability goals and targets became part of our new Strategic, Academic and Business Plans.
- We are on track to achieve a STARS Silver Rating in 2016.
- The work of Fleming's staff and students was featured in the "International Sustainability Journal of Record" with a reach of hundreds of countries around the world.

**Fleming College's EcoHealth Conference**

Saturday March 19, 2016

The 8th annual EcoHealth Conference featuring:

- Speech and book signing by speaker Bob MacDonald
- Environmental themed workshops for all ages
- Dinner reception and silent auction!

General Admission: \$25.00 Student Admission: \$20.00

**Bob MacDonald**  
As the host of CBC Radio's Quirks and Quarks, and author of 4 bestselling science books, Bob MacDonald makes complex scientific issues understandable, meaningful, and fun!

For more information and registration, please visit:  
<http://ecoconference.wix.com/ecohealthconference>

Fleming College | 200 Albert St. S. | Lindsay, ON

**Sustainability**  
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**Alain Paris**  
The Role of International Climate Initiatives

Finance 101 for Sustainability Coordinators

Why is Bottled Water so Popular? Study from a Campus Community

Sustainability Across the Curriculum at Fleming College

The Environmental Costs of Serving the Bottom of the Pyramid



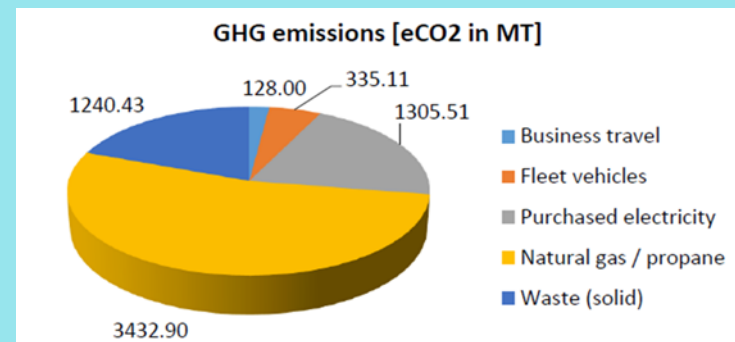
## GOAL 2 - Incorporate sustainability into the student experience

- 87% of our diploma programs contain our Sustainability Learning Outcome through required courses.
- 25% of all diploma and certificate courses contain elements of sustainability.
- Over 100 Business students engaged in sustainability applied projects with the Office of Sustainability this year alone (particularly International Business, Project Management and Marketing Students)
- Faculty have integrated sustainability into courses such as *Managing Technical Projects* where students developed proposals for the College covering rain water catchment, LED interior lighting, roof gardens and more.
- A new *Green Living Guide* has been introduced at residences, highlighting how students can live sustainably and affordably on campus.
- The Office of Sustainability took part in Welcome Days, Orientation and Open House - distributing a new campus “Sustainability Walking Map” and other information about sustainability on campus for incoming students.



## GOAL 3 - Reduce negative environmental impacts of Fleming operations

- Transit service for the Sutherland campus will be enhanced thanks to the successful passing of a transit referendum conducted by SAC that will significantly increase transit service for students.
- The Frost Campus Shuttle has seen a **33%** increase of ridership between fall and winter in its second year of operations- A Survey of Shuttle users found that **39% of riders said the presence of the shuttle influenced their decision to attend Fleming and the Frost campus.**
- Facilities upgraded all exterior lighting to LEDs, as well as some interior lighting, including residence buildings.
- Facilities installed EV Charging Stations at the Sutherland Campus with a planned expansion to other campuses in partnership with the community.
- Campus naturalization plans have been implemented.
- A multi-campus Waste Reduction and Diversion Strategy has been developed for roll-out in Fall, 2016.
- Greenhouse gas emissions data is being refined and updated for reporting through STARS with “scope three” analysis to be completed in 2016.



#### **GOAL 4 – Improve the well-being of Fleming students, staff, and the communities we serve**

- In October, the Alumni Association and the Frost Campus Friends Committee hosted a 100 Mile Dinner Moveable Feast. Proceeds went to the United Way for the City of Kawartha Lakes and to financial assistance for students.
- Frost Campus faculty and students along with the Office of Sustainability provided project and facilitation support to Lindsay's "Neighbourhood Bounty" community garden initiative.
- An additional Local Food Box program was introduced at Sutherland campus to give students and staff access to fresh food from the *Sustainable Agriculture Garden* up to the month of December.
- Aramark supported local farmers by purchasing local beef and chicken as well as food from the Sustainable Agriculture Garden.
- The Sutherland Campus Farmer's Market was enhanced with a new, more accessible location (in front of the main doors) with more vendors and higher staff and student participation.



#### **GOAL 5 - Collaborate on sustainability initiatives**

- A successful partnership between the Culinary Program and the Frost Campus Atlantic Salmon Hatchery staff resulted in trout that were raised in the hatchery prepared and served at the Culinary Cast Iron competition in March. The Culinary Program also procured produce from the Sustainable Agriculture Garden.
- Partnerships with local stakeholders - local farmers and craftspeople who are our vendors for Farmer's Markets and events, community groups participating in our on-site Community Gardens, Transition Town-through Peterborough's Purple Onion Festival and the many community based partnerships
- The Office of Sustainability participates as member of Trent University Environmental Advisory Committee, Sustainable Peterborough, OCUSP and AASHE ( including sharing best practices and presenting to and with these organizations); Fleming staff presented a workshop at Trent's Greening the Campus conference
- Fleming hosted Charles Hopkins, ESD Chair of UNESCO, who met with Fleming's Academic Task Force and attended Fleming classes to share best practices.

#### **GOAL 6 –Sound business analysis for sustainability initiatives**

- LED Lighting upgrades will provide 47.3 K in Annual Savings.
- The Frost Shuttle resulted in increased enrollment.
- Capital project proposals have included sustainability features (particularly energy efficiency upgrades) to support longer term savings on energy costs.

## -SUSTAINABILITY ACROSS THE COLLEGE-

**Early Childhood Education Program:** Fleming's ECE program has become a leader in Ontario with its focus on outdoor play, nature education and reducing the use of plastic toys.

**Business Programs:** The inclusion of the Sustainability Learning Outcome in required courses such as Corporate Social Responsibility and Management Essentials has been accompanied by applied learning with close to 100 students undertaking projects in the Office of Sustainability.

**Culinary and Chef Training:** The theme of "Culinary with a Conscience" has been put into practice with students learning about the fully "life-cycle" of food from procurement to waste – including procuring food from our Aquaculture and Sustainable Agriculture programs.

**Integrated Design:** Offered at the Haliburton School of the Arts, this program leads off with its own "*Introduction to Sustainability*" course and, from there, brings sustainability into all aspects of design.

### **Ecosystem Management/ACBR**

The Ecosystem Management program & Applied and Community-Based Research students work with conservation organizations in Parismina, Costa Rica on Marine Turtle research, community conservation projects and economic development for the local community.

**Sustainable Building, Design and Construction Program:** In 2016, the program will partner with Abbey Gardens Community Trust to build a new 1,200 square-foot off - grid Alternative Energy Presentation Centre which will feature the local company Haliburton Solar and Wind.

### **Indigenous Perspectives**

In December, 2015, Fleming College signed the Indigenous Education Protocol with an implementation plan developed for the next three years. An Indigenous Perspectives Designation is now available through a number of programs throughout the College.

## LOOKING FORWARD

In the final two years of our Sustainability Plan we will strive to meet all of our goals and targets with a particular focus on;

- Increasing waste reduction and diversion rates across the College through our Waste Reduction Strategy.
- Ensuring that the Sustainability Learning Outcome is backed up by strong assessment and that students gain recognition for sustainability skills upon graduation.
- Evaluating next steps in creating a Climate Change Action Plan and an Alternative Transportation Plan for the College.
- Supporting the integration of green features in our capital project proposals.
- Continuing to demonstrate the College's commitment to participation in and leadership on sustainability issues that affect students and our community.

Special thanks to the members of the Academic and Operations Task Forces for their role in the creation and ongoing implementation of Fleming's Sustainability Plan

For more information please go to:

<http://flemingcollege.ca/services/office-of-sustainability>

### **Our Learning Outcome**

Students will be able to;

"Explain the interconnections between the broad principles of sustainability-which include human health and well-being, ecological health, social issues, and secure livelihoods-in order to support a better world for all generations."