

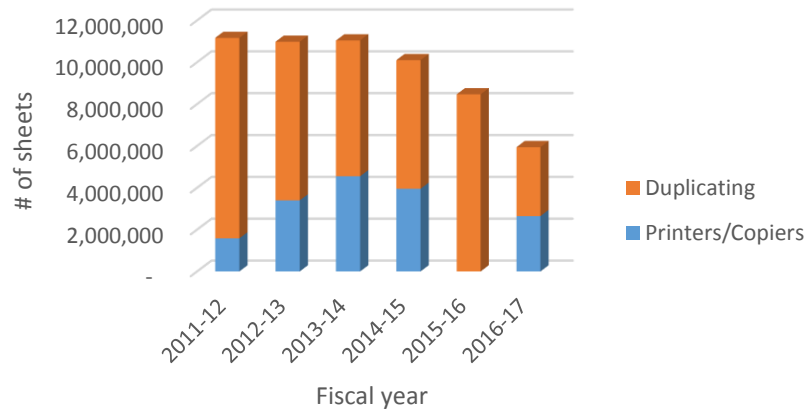


**Tony Tilly, President Fleming College**

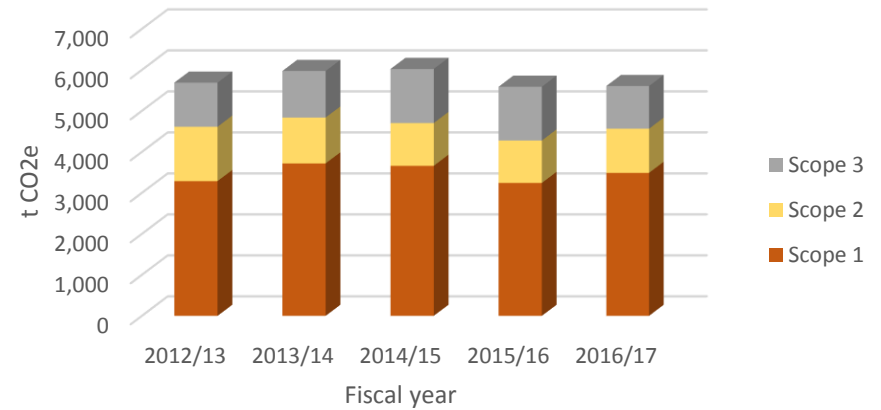
In September, Fleming will release a final report of the accomplishments against targets set in the five year plan and launch the next Sustainability and Climate Action Plan. Most of the targets in the current plan have already been achieved. Therefore, the next plan will be three years (2018-2021) in length and will go further! It will provide specifics regarding how Fleming will achieve a 37% reduction in our greenhouse gas emissions by 2030 and an 80% reduction by 2050. The new plan will also set the roadmap to 2021 for how Fleming will continue to embrace the whole institution approach to sustainability through the five dimensions of green campus; green curriculum; green research; green community, and green culture. All of these dimensions are important as they work synergistically to support Fleming graduates to be future leaders, in their workplace and their communities, in supporting the [United Nations Global Sustainable Development Goals](#)

Indicator	Metric	Tracking – Fiscal Year				
		2012-2013 (Baseline)	2015-2016	2016-2017	Target	Status
Energy	[kWh/sq.ft]	42.7	33.6	35.9	36.3	Reduce by 15% across all campuses - <b>reached</b>
Energy	[kWh]	35,464,476	29,948,243	31,993,353		Row outlines actual energy consumption
Water	[m3/sq.ft.]	0.059	0.044	0.05	0.053	Reduce by 10% across all campuses - <b>reached</b>
Water	[m3]	40,476	39,092	44,417		Row outlines actual water consumption
Waste	[kg/user]	0.072	0.07	0.05	0.064	Reduce by 10% across all campuses - <b>reached</b>
Waste	[kg]	289	350.2	270.1		Row outlines actual waste generation
Paper	[# sheets]	10,980,441	8,466,540	5,939,862	7,686,309	Reduce by 30% - <b>reached</b>
Transportation – students	[%]	Unknown	57	57	50	3 Modal Transportation Surveys, achieve 50% of students using sustainable transportation - <b>reached</b>
Transportation - staff	[%]	Unknown	10	10	20	3 Modal Transportation Surveys, achieve 20% of staff using sustainable transportation – <b>not reached</b>
GHG Emissions (scope1&2)	[eMTCO2/user]	0.96	0.86	0.83	0.86	Reduce by 10% - <b>reached</b>
GHG Emissions (scope 1&2)	tCO2e	4,614	4,278	4,565		Row outlines actual GHG emissions
GHG Emissions (scope 1,2&3)	[eMTCO2/user]	1.12	1.12	1.02	1.01	Includes scope 3
GHG Emissions (scope 1,2&3)	tCO2e	5,688	5,589	5,606		Row outlines actual GHG emissions, including scope 3
Local Food Content	[%]	28	Not Available	TBD	40	
STARS Rating	[Rating]	Bronze	Silver	Silver	Silver	Achieve STARS silver rating - <b>reached</b>

Total Paper Usage - All Campuses



GHG Emissions - All Campuses



Tracking Fiscal Year

Indicator	2012-2013 (Baseline)	2015-2016	2016-2017	2017-2018 (prelim.)	Target/Status
Awareness	None	Achieved	Faculty Survey	Staff/student survey/spring 18	3 surveys in 5 year plan – <b>reached</b>
Awareness	6+	6+	6+	6+	6+ outreach vehicles annually – <b>reached</b>
Student Experience	16%	Preliminary est. 25%	22.90%	24.8%	Increase # of sustainability courses by 50% - <b>reached</b>
Student Experience	Unknown	Inventory in 13/14 67% of programs - fieldwork	To assess #s	To assess fall 18 – career ready project	40% of students – community based learning experience
Well-being	No	Learning Outcome	Learning Outcome & Graduate Award	89% of Diplomas with sustainability learning outcome	# of Sustainability Immersive experiences – <b>reached</b>
Collaboration	N/A	3+	3+	3+	3+ internal partnerships annually – <b>reached</b>
Collaboration	Unknown	6	7	7	6+ external partnerships per year – <b>reached</b>
Use Sound Business Analysis	None	Waste Strategy underway	Waste Diversion Implemented	GGRP Proposal Submitted & funded	Use sound business analyses – capital

## HIGHLIGHTS - YEAR 5 ACHIEVEMENTS

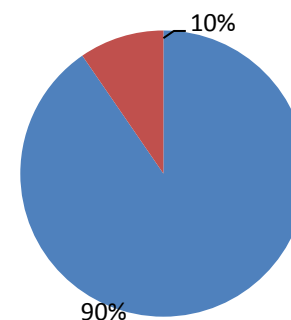
### GOAL 1 - Increase Awareness and Understanding of Sustainability

- Fleming organized a shoreline cleanup of Del Crary Park in Peterborough, Ontario in partnership with World Wildlife Fund – Canada.
  - 36.5 kg of litter removed
  - 6800 cigarette butts diverted to Terracycle
  - 792 pieces of plastic collected
- Participated in Cobourg, ON Community Earth Day Clean Up.
- Hosted Speakers Series entitled “Fleming Talks” which featured sustainable business entrepreneurs – Andrew Bowerbank & Barbara Stegemann
- 2<sup>nd</sup> Annual Regional Envirothon Competition with focus on Climate Change – Student Volunteers CCR Experience
- As the only Canadian Centre for Sustainability Across the Curriculum with Fleming hosted workshops in Early Childhood Education and Sustainability featuring Fleming’s Eco Mentorship model
- Incorporated Sustainability as an organizational competency for all staff
- Joined the Canada Green Building Council with opportunity for all staff to become members



### GOAL 2 - Incorporate sustainability into the student experience

- Hosted student pitch competition as part of the student led Ecosystem Management Conference, awarded \$2500 in FASTSTART prize money for student initiated sustainability projects.
- Over \$350,000 in Low Carbon Building Skills Grants
- Launched Living Planet @ Campus and Living Planet at Work Programs in partnership with Wildlife Fund Canada - Competed in the 1<sup>st</sup> annual Living Planet @ Campus Hackathon competition, Designing Innovative Change, with a team of Fleming students hosted by World Wildlife Fund – Canada.
- Ran a Student Sustainability Workshop in partnership with ENACTUS – Fleming
- Awarded a \$500 Sustainable Peterborough sponsored student award for graduating students at Sutherland campus – awarded to a School of Business student.
- Continued to work with more than 100 students, in courses in SENRS, Skilled Trades and Business, in applied campus sustainability projects
- Students for Sustainability at Frost Campus launched a series of free educational workshops made available to both students & staff



- Total Programs Currently with the Learning Outcome
- Total Programs that Still Need the Learning Outcome

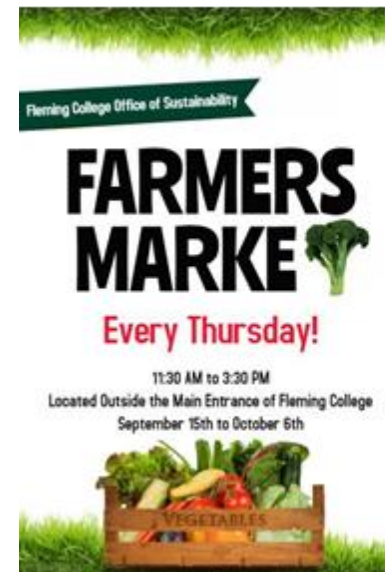
### Goal 3 – Reduce negative environmental impacts of Fleming operations

- Waste Reduction Target of 10% met
- Coffee Cup waste diversion pilot launched. Detailed waste audits performed in fall/16 and winter/17 with initial results of a 13% improvement in waste diversion for Frost and 3% for Sutherland
- Launched of Paper Reduction Challenge with WWF Living Planet @ Work
- Strategic Investment Funds Projects - Frost GeoCentre & Sutherland A Wing to reduce electricity (16.8MWh), natural gas (49719.2 m3) and carbon (95.5 tCO2) annually
- Launched Cupanion to promote reusable cups/reduce single use coffee cups
- Worked with two groups of WIN Students to develop virtual waste sorting games on an Android Platform & Website Platform
- Received 12 Million Dollars in funding from the Provincial Government under the Greenhouse Gas Retrofit Program to reduce annual GHGs by 610 equivalent metric tonnes
- Sutherland Public Transit increased to 69,000 rides and drove an overall increase of 20% in City of Peterborough public transit ridership
- Frost Campus Bike Loan Program + Bike Repair Stations
- Expanded the intercampus Shuttle between Frost & Sutherland Campus



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

- [Launched Eat Local Fleming Website](#) – and a Seasonal Local Food Menu
- Dishware + Cutlery Lending Program in Lounge at Frost and Sutherland
- Launched Free Market at Sutherland Campus
- Fifth successful year of fall Farmer's Market at Sutherland campus with expanded choice of vendors – moved indoors.
- Expanded Seed Library – to provide locally sourced regional seed from Office of Sustainability
  - Around 60 borrowers over 3 seasons
  - 182 seed varieties





## GOAL 5 - Collaborate on sustainability initiatives

- Hosted 2<sup>nd</sup> annual Regional Envirothon Competition for the Peterborough, Kawartha Northumberland Region at Sutherland campus, in partnership with the City and County of Peterborough and the Otonabee Region Conservation Authority.
- Hosted 1<sup>st</sup> Annual SENRS BioBlitz with over 250 elementary school students for educational day & over 300 species catalogued during full 24 hour blitz.
- Launch of an Apiary at Frost Campus in partnership with the Sustainable Agriculture Program – Application to be a BEE Campus through Bee City
- Active Participant of the Pollination Action Committee – City of Kawartha Lakes
- Signed an MOU with Kawartha Conservation to run Nature Explorer Camp with over 100 registered children for summer 2017.
- Activities in the last year related to Regional Centre of Expertise – three workshops for educators and community members
- Fleming joined the newly launched U. of Waterloo Pan Canadian Sustainable Development Solutions Network



## SUSTAINABILITY ACROSS THE COLLEGE

- Fleming's Centre for Sustainable Municipalities received \$500,000 in research grants
- Haliburton is piloting changing their fuel source in the blacksmith program from coal to coke reducing their coal consumption by over 10,000 pounds! Coke is also a much cleaner fuel source than coal.
- New local garden plots on Sutherland Campus for the Culinary Program to use for herbs and vegetables
- Peer Mentorship @ Fleming launched Mentorship Miles in March of 2018. Mentorship Miles is a "walking and talking" initiative designed to engage students by encouraging authentic connection while experiencing nature.



## SUSTAINABILITY ACROSS THE COLLEGE – Spotlight on Student Orientation!

- Eliminating paper agendas for Fleming KO (Winter, Spring and Fall) and posting publically as a large notice instead
- moving towards reusable banners and table cloths to advertise events, opposed to printing more signs
- Purchase of department table cloths so cloths don't have to be ordered/washed from Aramark each event
- Orientation 2017 lunch voucher doubled as a draw ticket and the plastic wrapper for sunglasses was used to trade for a reusable water bottle. This ensured proper disposal/recycling of approximately 2000 plastic wrappers and elimination of approximately 2000 extra pieces of paper
- Elimination of approximately 12,000 paper handouts during Welcome Days event at Sutherland Campus



## LOOKING FORWARD

In August 2018 Fleming will launch its second Sustainability Plan by submitting a three year Sustainability and Climate Action Plan (2018-2021) to the Ministry of Advanced Education and Skills Development. The Plan will demonstrate how the College will support the UN Sustainable Development Goals and meet the provincial carbon reduction targets of -37% by 2030 and -80% by 2050.



Special thanks to the members of the Sustainability Steering Committee, the Academic Task Force and the Transportation Task Force for their role in the creation and ongoing implementation of Fleming's Sustainability Plan

For more information please go to:  
[Fleming College Office of Sustainability Webpage](#)

### 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."