

<b>ACADEMIC INSTITUTION</b>	Fleming College
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<b>PROJECT NAME</b>	Paper Planet
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**NEED AND AUDIENCE**

- Reducing greenhouse gases by diverting paper from Fleming College waste streams and turning it into profit
- Primary target audience is elementary teachers and their students
- Secondary target audience is parents homeschooling their children

**ACTION TAKEN**

- Partnered with Fleming College’s Mechatronics team to create an automated production machine to manufacture Paper Planters with more efficiency. Our molds were 3D printed using recycled nontoxic materials. The actual hydraulic machine was almost entirely made of scrap material that would have otherwise gone to a landfill. Our machine has increased our production capacity by 98%, producing 16 planters in 2 minutes; reducing manual effort and increasing our ability to divert paper waste from landfill streams.
- We were able to secure seed donations and other sources of paper from local businesses.
- We were able to continue our relationship with the Society of St. Vincent De Paul of Peterborough who generously provides a place for us to store and produce the product.
- We launched our new e-commerce site on Shopify on Feb 15, with no online promotion, and received orders within 72 hours. We sold 400 Paper Planters, generating over \$330.00.

**IMPACT**

- 230 volunteer hours
- 135 lbs of paper
- 43.57 lbs of CO2 from entering Earth’s atmosphere
- Impacted 5 people directly and 375 indirectly
- \$330.00 in revenue

**STANDARD METRICS**

(These metrics are related only to the project presented and represent work done since March 1, 2021)

Individuals educated on climate action	15	Businesses educated on climate action	0
Litres of water conserved	412	Metric tonnes of waste diverted	0.061
GHG emissions diverted	43.57 lbs	Dollar value of waste diverted in CAD \$	14.00

<b>PROJECT START DATE</b>	July 2017
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<b>IS THIS PROJECT WHOLLY-OWNED AND OPERATED BY THE TEAM?</b>	Yes
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