

ACADEMIC INSTITUTION	Mount Allison University
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PROJECT NAME	Textbook Osmosis, Enviroot & Project Green Light
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NEED AND AUDIENCE

1) Textbook Osmosis: Textbooks commonly don't get recycled. This is because the hardcover of each one has to be manually removed first. Our project provides a solution to decreasing textbook waste and cutting transportation costs for textbooks.

2) Enviroot: Developing an environmentally friendly bulletin board that aims to combine orange peel waste with natural glue that significantly reduced the release of formaldehyde over time.

3) Project Green-Light is a youth empowerment and climate change project that aims to educate students and community members in Sackville, New Brunswick on the proper waste sorting methods. Our project also aims to reduce \$50,000 in tipping fees which represent the cost incurred by our university to haul wrongly sorted items into the landfills.

ACTION TAKEN

1) Textbook Osmosis: We recycled 275 books and gave 851 to Textbooks for Change, as well as received cash from Northbridge Financial and a TD Ignite award to upgrade and expand our inventory system. A developer from Bell Canada has also coached and mentored two Mount Allison students in the development of a software program to track our book inventories.

2) Enviroot: We hired two Chemistry and Biochemistry students and partnered with our University's Facilities Management to help divert orange peel waste from our campus dining service.

3) Project Green Light: In partnership with our institution's facilities management, we posted comprehensive waste sorting instructions above the bins in residence and academic buildings. We partnered with our local waste collection facility, and the Mount Allison Student Union to systematically improve the transfer of information across to students and created structure and support for the Eco-representatives within the residence to increase sustainability on campus.

IMPACT

1) Textbook Osmosis: We empowered 31 students who bought their books 60% cheaper than new books. We also donated a total of \$1000 which assisted people with intellectual disabilities and tutored elders in New Brunswick to gain basic mathematics and literacy skills. Through our donations, we have also impacted up to 1500 students thanks to our partner organizations by providing them access to educational materials

2) Enviroot: developed multiple hypotheses and created malleable and durable sample bulletin boards with orange peels, installed bulletin board at the chemistry building in Mount Allison University, and benefited 100 students using the building.

3) Project Green Light: we diverted 17,356 pieces of Refundable from landfills and gained \$5867 from waste reduction. We decreased tipping fees by roughly \$5000 and reached over 415 students on proper sorting practices through our social media platform. We have also empowered 25 students and faculty members by involving them in awareness campaigns. Students who were confused by the waste sorting system decreased from 12% to 5.5% while those who strongly understood the waste sorting system increased from 40% to 60%.

STANDARD METRICS

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

Individuals educated on climate action	451	Businesses educated on climate action	1
Liters of water conserved	0	Metric tonnes of waste diverted	24.2
GHG emissions diverted	0	The dollar value of waste diverted in CAD \$	8,512

PROJECT START DATE	2016,2016,2020
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IS THIS PROJECT WHOLLY-OWNED AND OPERATED BY THE TEAM?	Yes
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