



FoodCycler™

On-Site Organics Diversion Program

Prepared for:
Town of Hanover
September 16, 2024

Presented by:
Food Cycle Science
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About Us

- Canadian company based out of Ottawa, Ontario
- 100% focused on Food Waste Diversion Solutions
- Official Canoe Procurement Group of Canada approved supplier
- Recent Awards include:
 - Finalists in Impact Canada's Food Waste Reduction Challenge
 - Selected as one of the 2021 Deloitte Fast 50 CleanTech award winners
 - #137 on Globe & Mail's Canada's Top Growing Companies for 2022



Trusted Canadian Solution

From Coast to Coast to Coast



One Hundred and Fifty Canadian Municipal Partners
... and counting!

Pilot Program Recap

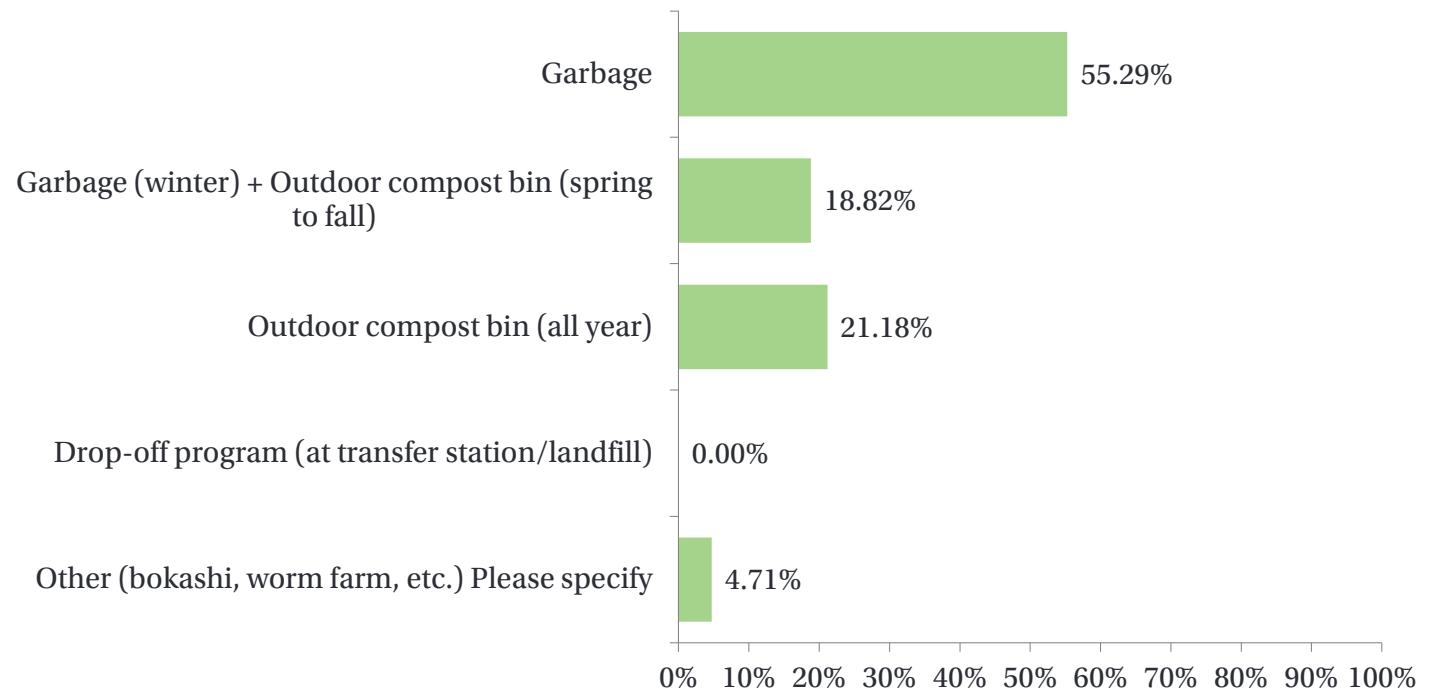
- With support from Impact Canada's Food Waste Reduction Challenge, a pilot program was run in the Town of Hanover that included 100 participating households.
- Net cost to the Municipality was \$10,000 + Shipping + HST
- Program ran from April to June 2024
 - Usage was tracked for 12 weeks to calculate total waste diversion.
 - Participants completed a survey to provide data and feedback.



Pilot Program Results

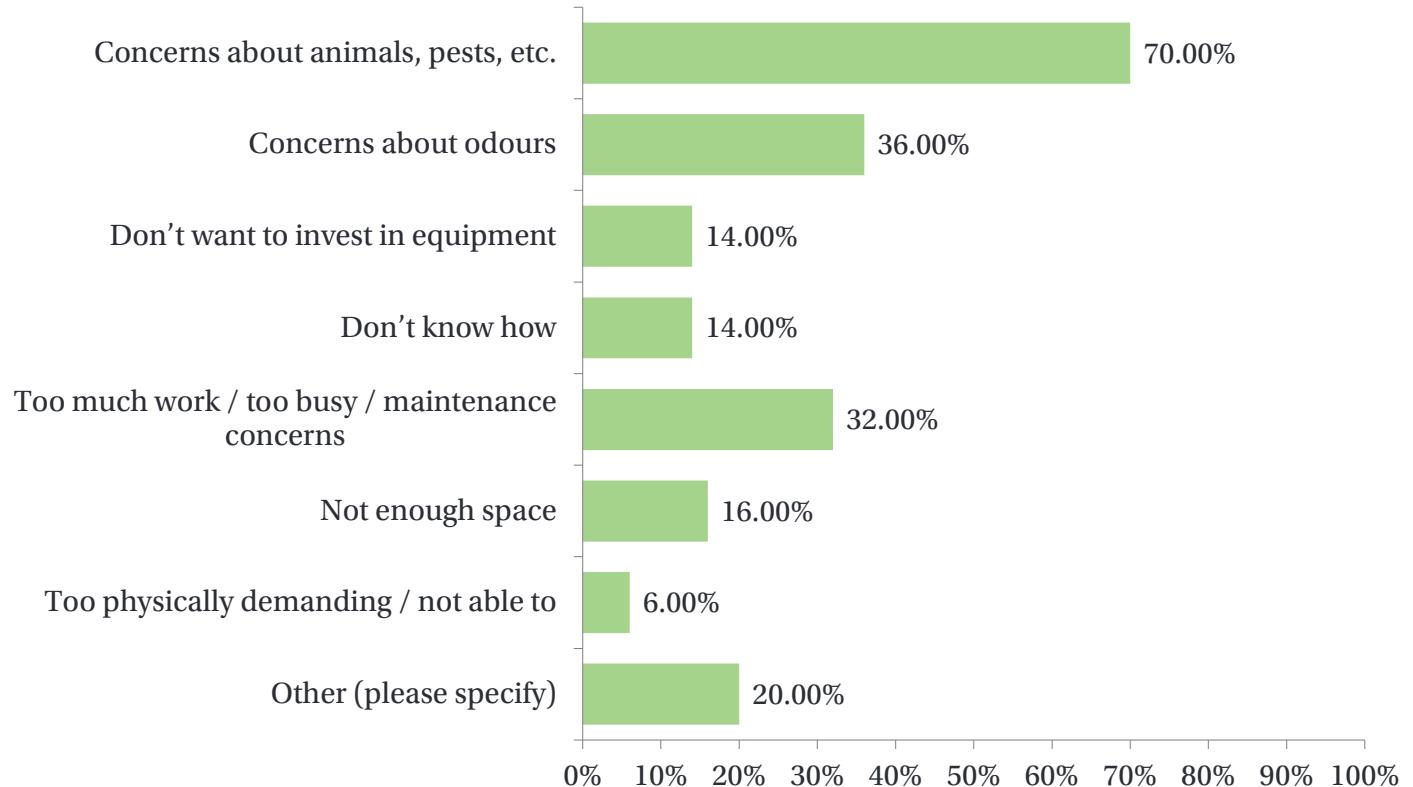
85 responses collected out of 100 participants (85%)

- How important is greenhouse gas reduction to you? 8/10
- How important is waste reduction to you? 9/10
- Where does your food waste currently go?



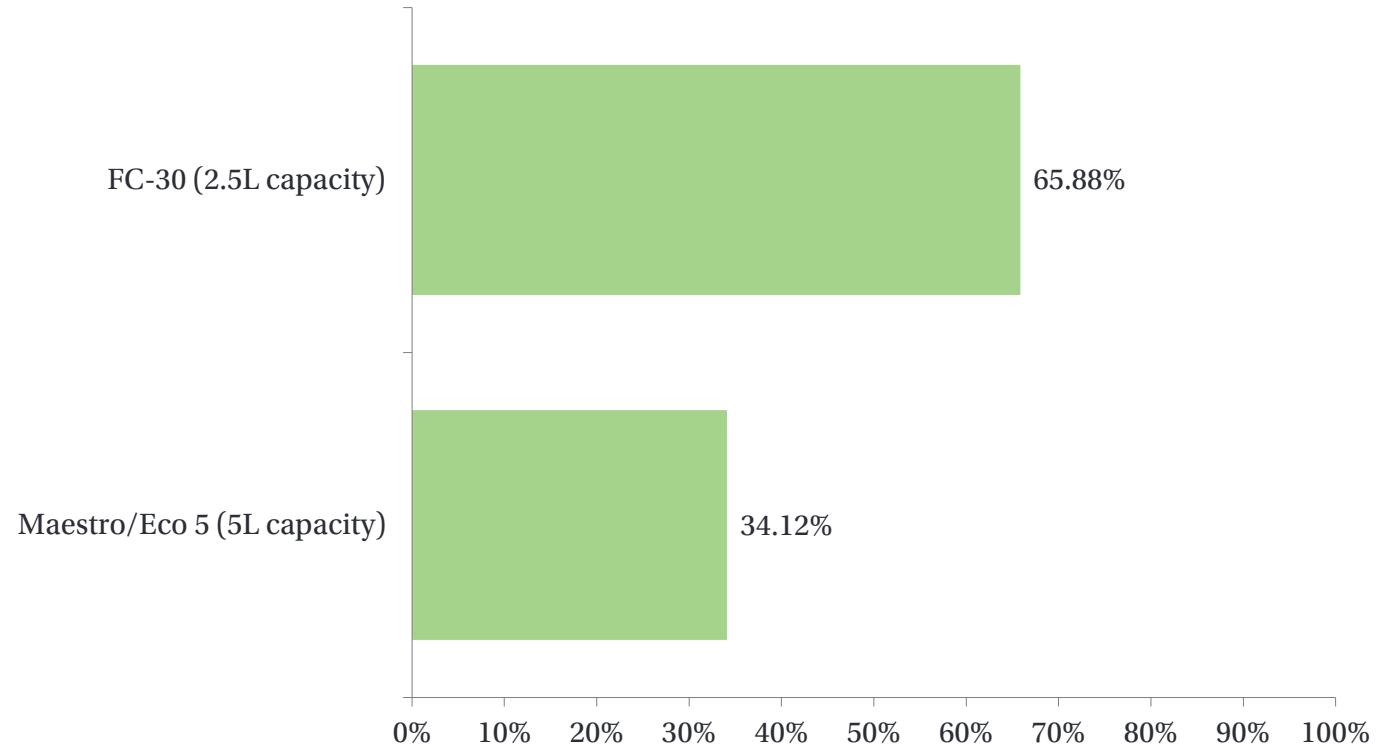
Pilot Program Results

Why don't you compost?



Pilot Program Results

Which device do you have?



Pilot Program Results

- Average of **2.82 cycles/week** for FC-30
- Average of **3.52 cycles/week** for Eco 5
- Equivalent to **~221 kg/year/household**
- Total of **22.1 metric tonnes (MT)** of food waste diverted from landfill/year from the 100 FoodCyclers in use



Pilot Program Results

- 100 FoodCyclers in Hanover will divert **28.7 MT CO₂ equivalents** per year, the equivalent to carbon sequestered by **33.5 acres** of forest each year!



Pilot Program Results

Residents Reported generating 0.55 fewer standard garbage bags per week, a reduction of 28.5 garbage bags per household per year being trucked to local landfills!



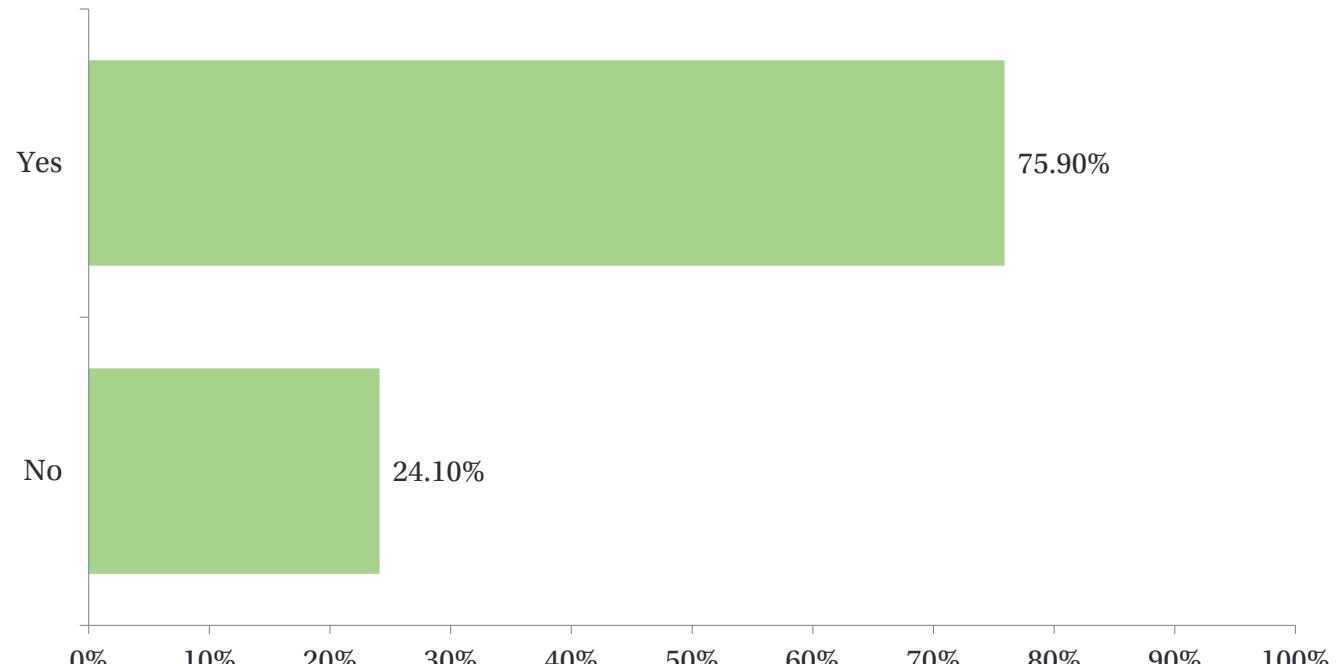
"I was very happy to be able to participate in this program. Our garbage bin goes out once every 6-9 weeks now, compared to every 2 weeks before the food cyeler."

"Noticeable drop in bag tags used and less ants in the house."

"The food cyeler is fantastic. My parents picked up a leftover cyeler after I shared how great it was. They have reduced garbage to 1 bag per week."

Pilot Program Results

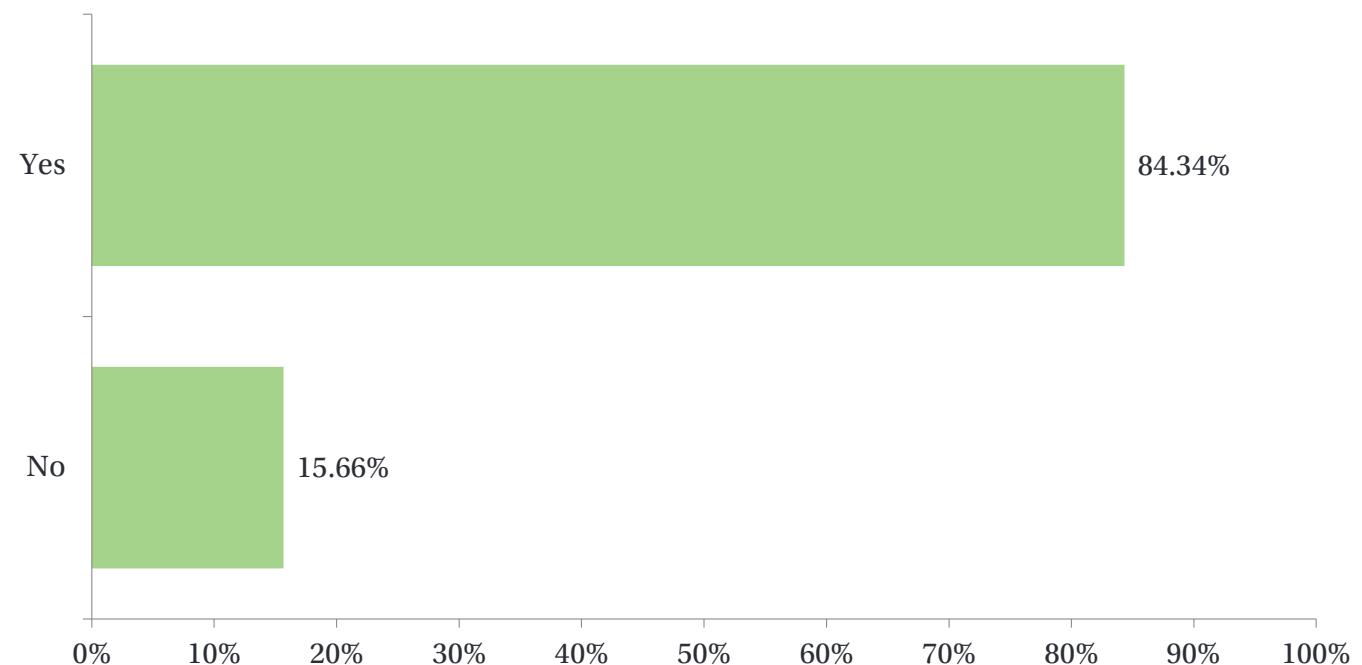
Did increased awareness of food waste motivate you to waste less food?



“Great idea to make people aware of the food waste/food not used.”

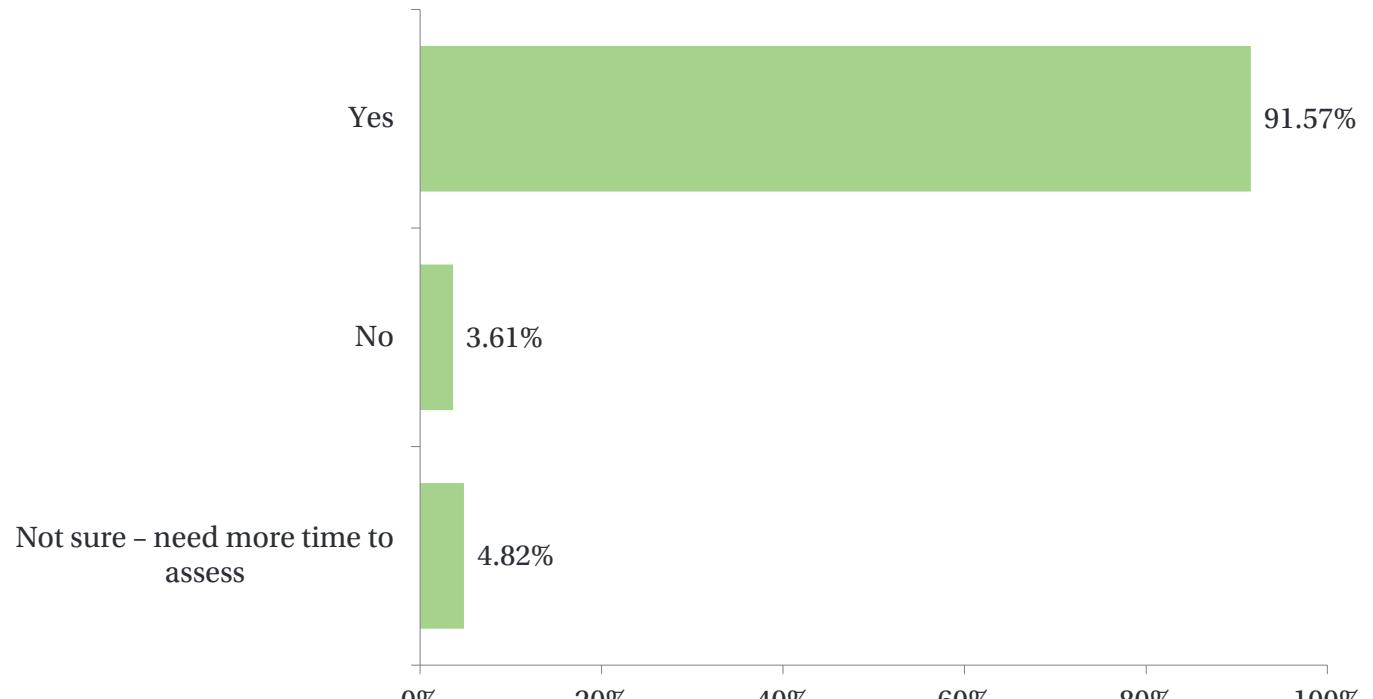
Pilot Program Results

If the municipality continued to offer a FoodCycler to residents at no or low cost as part of a diversion program, do you think your friends / neighbours in the community would participate?



Pilot Program Results

Would you recommend the FoodCycler to others?

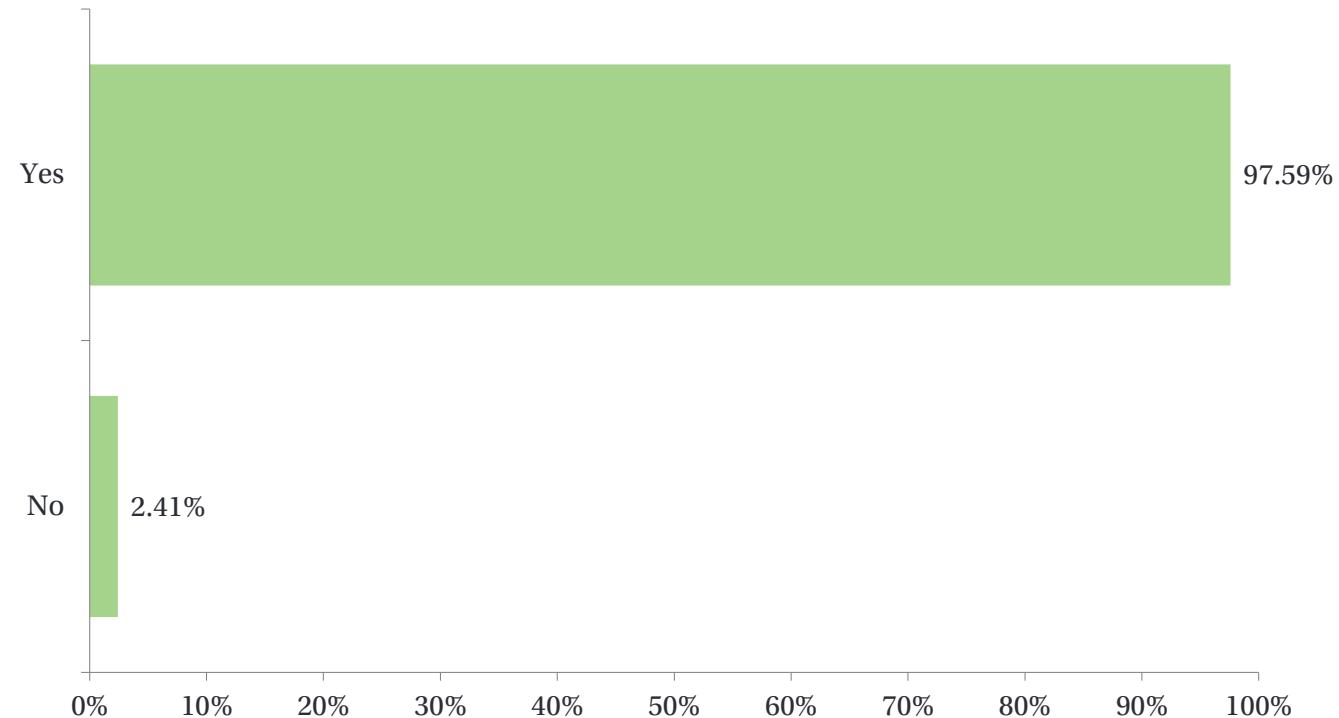


"It reduced the waste going to the landfill and my garden is loving it. No muss, fuss and great awareness achieved. Win win!"

"I would love to see more people use the food cycler. The cost was minimal and there were many benefits."

Pilot Program Results

Will you continue using the FoodCycler after this pilot?



"I was amazed with the unit & how it magically transformed food into such a small amount of compost, similar look to peat moss or potting soil & no odour!"

"For our family, this was an excellent solution to reducing our overall municipal waste as well as flies, odours, etc."

Pilot Program Results

Please rate the overall pilot project experience out of 5 stars.

Average rating: 4.6/5 Stars



- 1 Star = 0%
- 2 Stars = 1%
- 3 Stars = 8.4%
- 4 Stars = 19%
- 5 Stars = 71%

"I enjoyed the program and will continue to use the FoodCycler. I think perhaps it should be rolled out and given more publicity. Several people I know did not hear about the project. Thank you to the Town for initiating this project. It was very good."

"I'm glad the Town of Hanover offered this pilot project."

"This experience was fantastic. As much as we do not produce much garbage, our backyard composts were becoming quite full of the amount of food waste we were disposing of. The food cycler has changed this, we were able to fill a 38L tote (plus some!) with all the broken-down compost. The FoodCycler is a daily use appliance in our household and are very pleased that this pilot project was offered in our community. Thank you, Hanover Council, for doing this!"

Pilot Participant Comments

“I think it works amazing-and love it- but because it is not a necessity, and it costs a fair bit- people will be hesitant.”

“Would like to see Foodcycler compost pick up or somewhere to deliver it where it can be used as compost.”

“I enjoyed the program and will continue to use the FoodCycler. I think perhaps it should be rolled out and given more publicity. Several people I know did not hear about the project. Thank you to the Town for initiating this project. It was very good.”

“Absolutely loved this unit! The Foodcycler produced more usable compost in 12 weeks, than my outdoor composter did in 2 years. Thanks for this and the municipal discount on extra buckets and charcoal. No smell through 12 weeks and counting.”

“To the extent that the FoodCycler reduced methane emissions and will make winter composting easier the FoodCycler is ideal. A lot of education is needed to make a meaningful reduction in organic waste going to the landfill. I notice few of the residents in my area compost any organic waste. I wish that the municipality had a composting service at the landfill site. Citizens could then buy back the composted material.”

“It was a great way to introduce this type of composting to my family. I strongly encourage others to try it.”



Recap and Next Steps

Recap

- 22.1 MT of food waste diverted from landfill/year from the 100 FoodCyclers in the pilot program
- Residents reported a reduction of 0.55 bags per week which equals 28.5 bags/resident/per year of food waste diverted from landfills.
- 97% of participants will continue using the FoodCycler



Scaling Real Change

Nelson, British Columbia (5000 homes)

Citywide Pre-treated Organics Program program including:

- Free bulk carbon refill station in local Safeway grocery store
- Full warranty and local repair program
- Convenient, animal-proof soil amendment drop off locations
- Accessories sold by local businesses
- E-waste recycling programs established locally
- Resident education – guides, information sessions, and how-to videos

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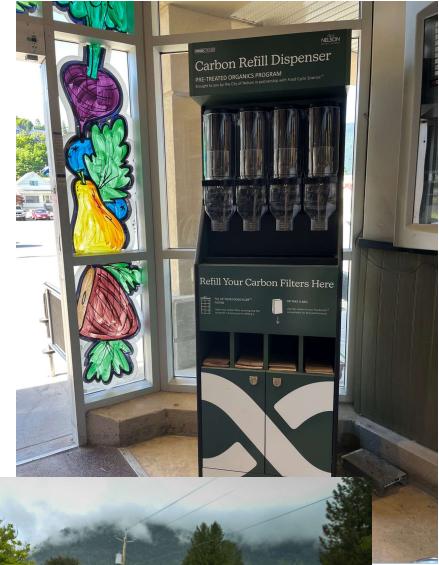
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British Columbia

B.C. community expands home composting pilot project to divert more food waste from landfills



Next Steps

Next Steps

○ Life Cycle Analysis

- Our new Emissions Calculator Tool is available at no extra cost to our implementation partners

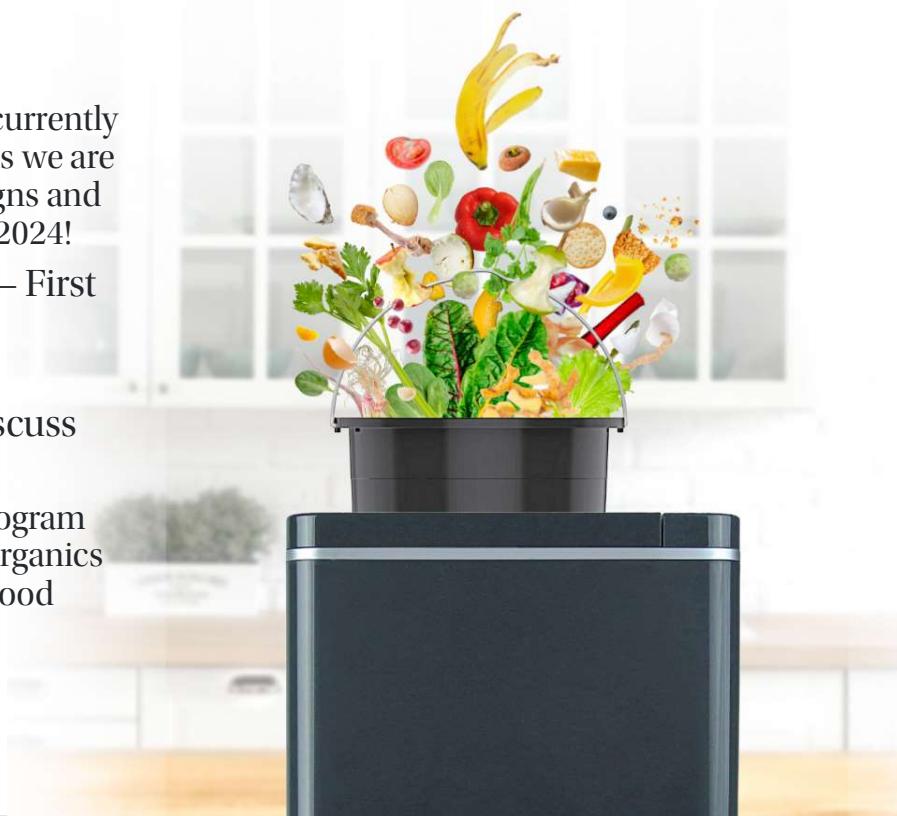
○ New Technology

- In addition to the two models currently available to municipal residents we are constantly improving our designs and will be adding a new model in 2024!

○ Impact Canada AAFC Funding – First right of refusal

○ Accept this presentation as information and refer staff to discuss next steps:

- Explore either an expanded program or comprehensive municipal organics program designed for you by Food Cycle Science





Thank you!
Any Questions?

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