



FoodCycler™

On-Site Organics Diversion Program

Prepared for:
Township of Huron-Kinloss
December 18, 2023

Presented by:
Food Cycle Science
Farah Sheriffdeen

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 Canadian Municipal Partners
... and counting!

Pilot Program Recap

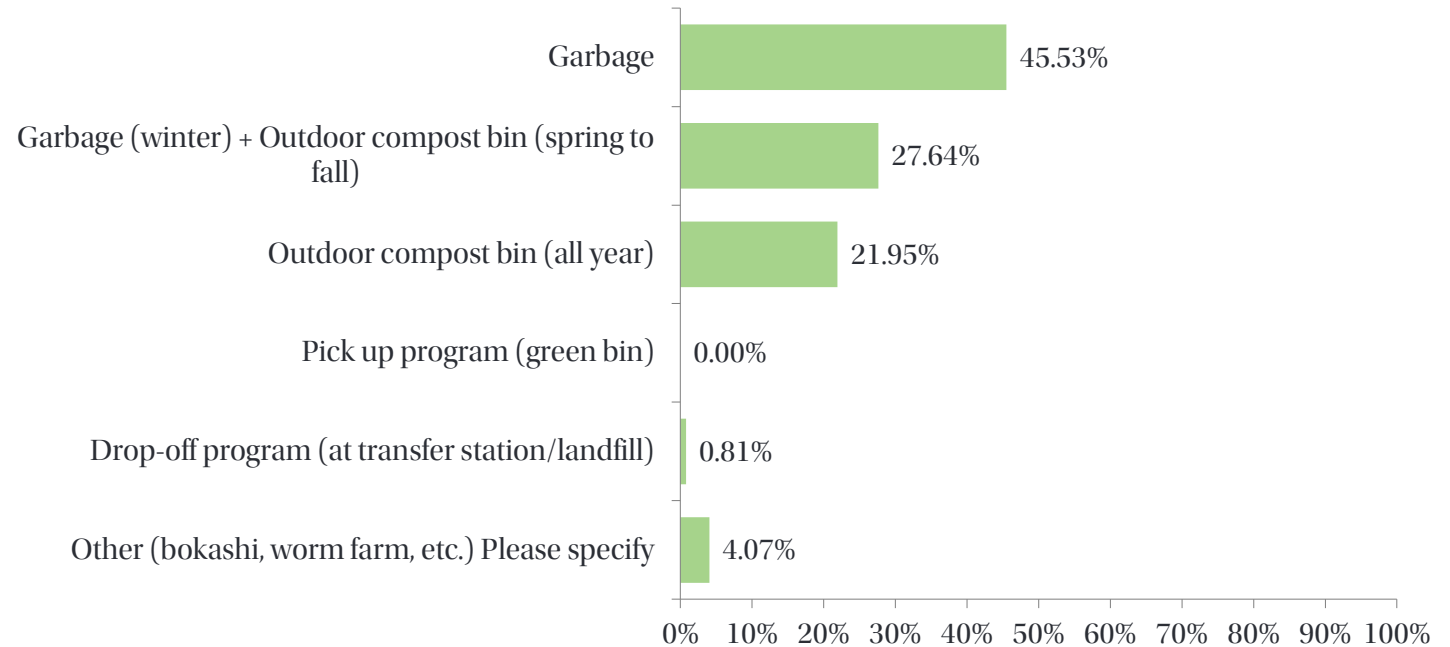
- With support from Impact Canada's Food Waste Reduction Challenge, a pilot program was run in Huron-Kinloss that included participating households subsidized by the Municipal Innovation Council, with support from Bruce Power
- Part of a larger County-wide program initiated by the MIC that included 880 participating households
- Net cost to the Township was \$6,000
- Program ran from May - August 2023
 - Usage was tracked for 12 weeks to calculate total waste diversion.
 - Participants completed a survey to provide data and feedback.



Pilot Program Results

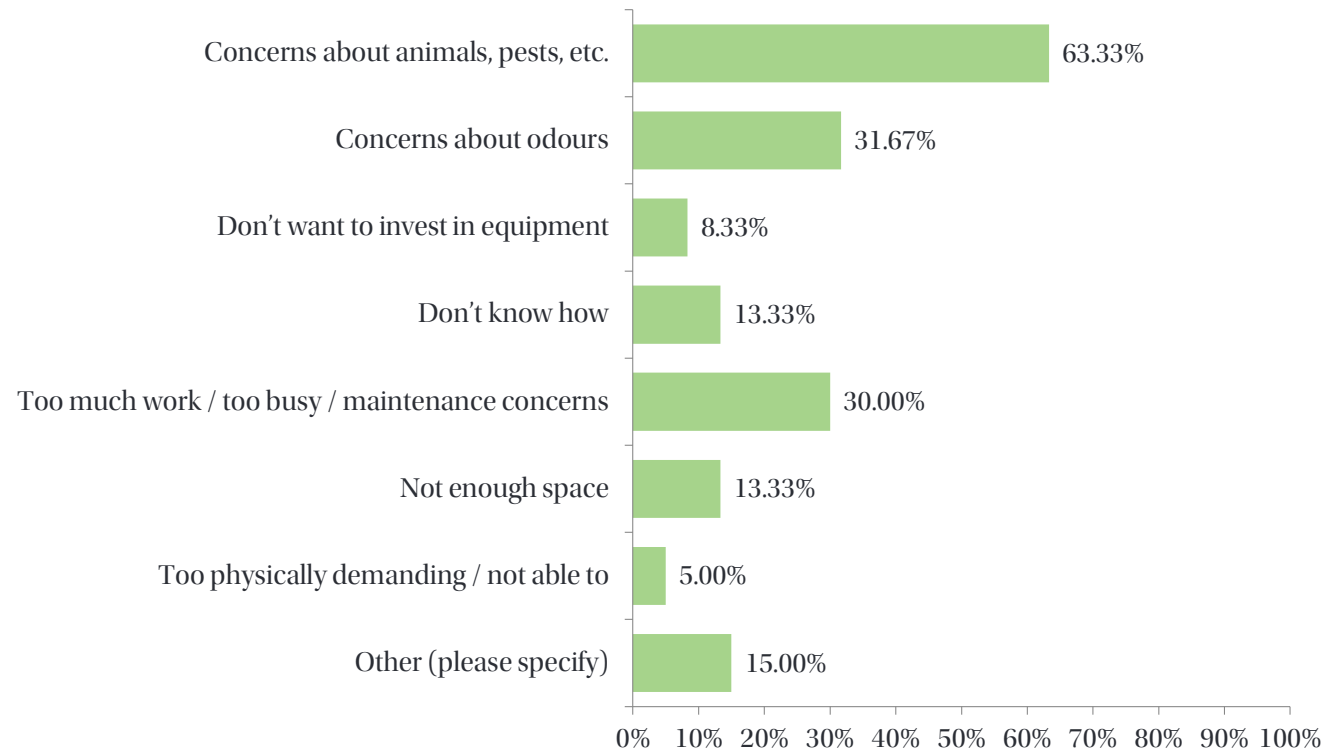
124 responses collected out of 125 participants (99%)

- 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?



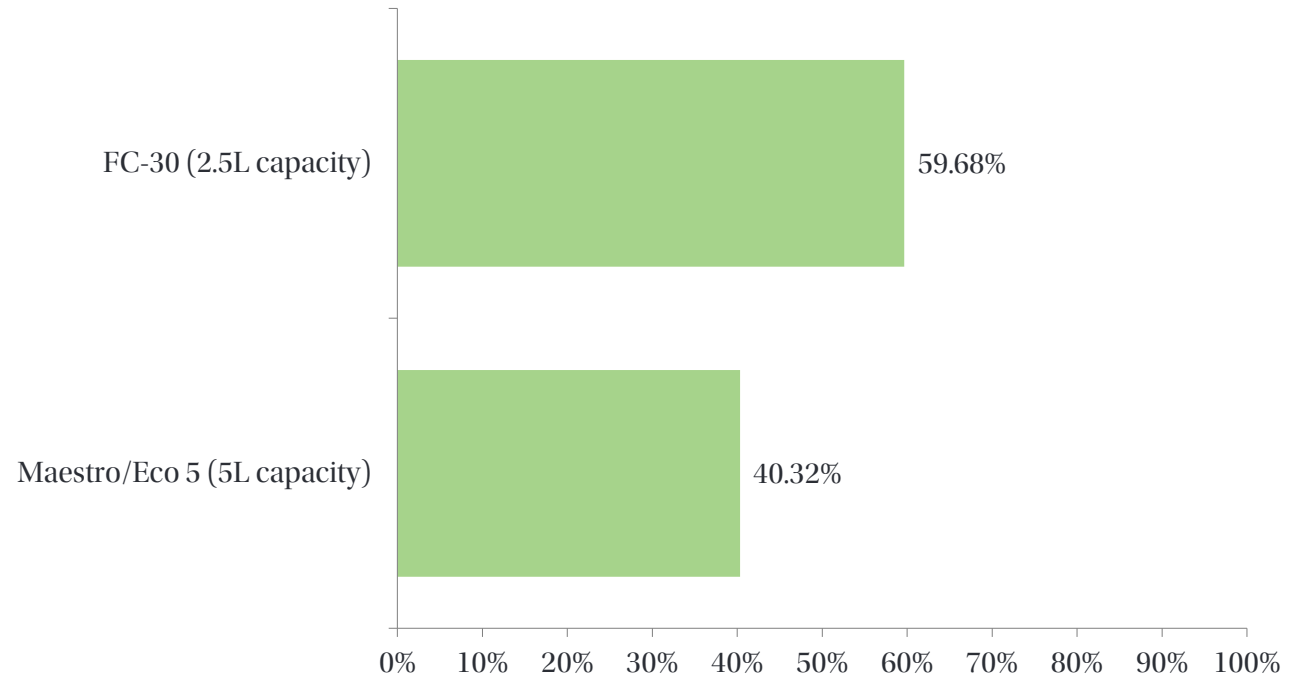
Pilot Program Results

Why don't you compost?



Pilot Program Results

Which device do you have?



Pilot Program Results

- Average of **3.31 cycles/week** for FC-30
- Average of **3.60 cycles/week** for Maestro/Eco 5
 - Equivalent to **~151 kg/year/household**
 - Total of **18.8 metric tonnes (MT)** of food waste diverted from landfill/year from 125 FoodCyclers in use
 - 125 FoodCyclers in Arran-Elderslie will divert **24.5 MT CO2 equivalents** per year, the equivalent reduction in greenhouse gas emissions of taking **5.5 gasoline-powered vehicles** off the road every year!



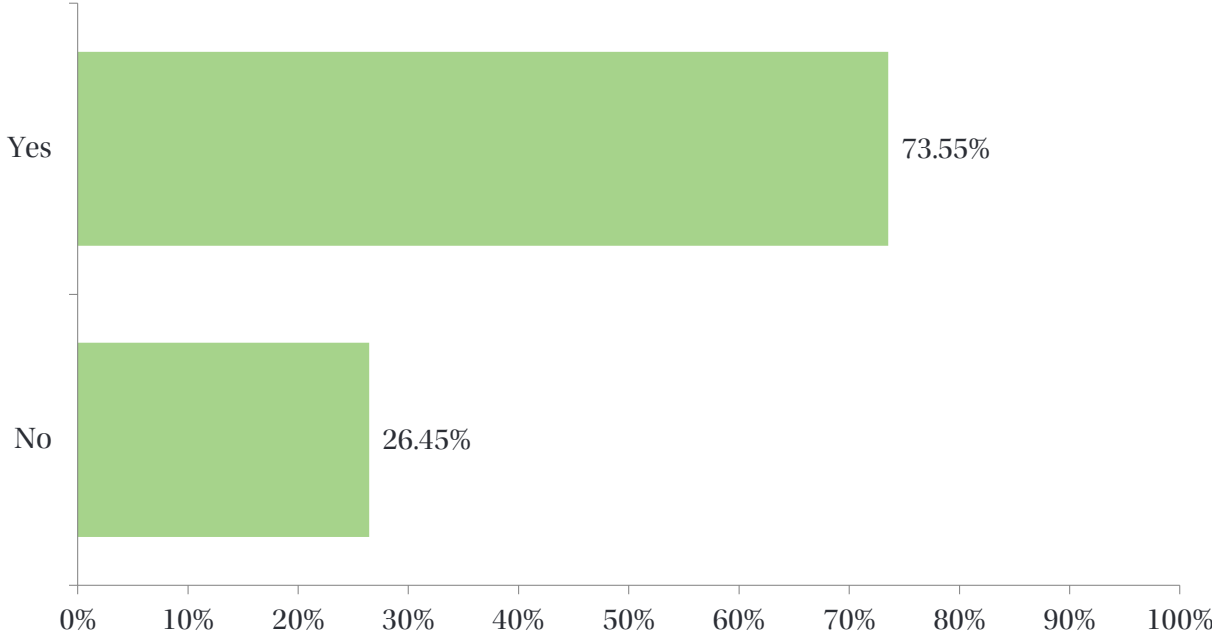
Pilot Program Results

Residents Reported generating 0.41 fewer standard garbage bags per week, a reduction of 21.3 garbage bags per household per year being trucked to local landfills!



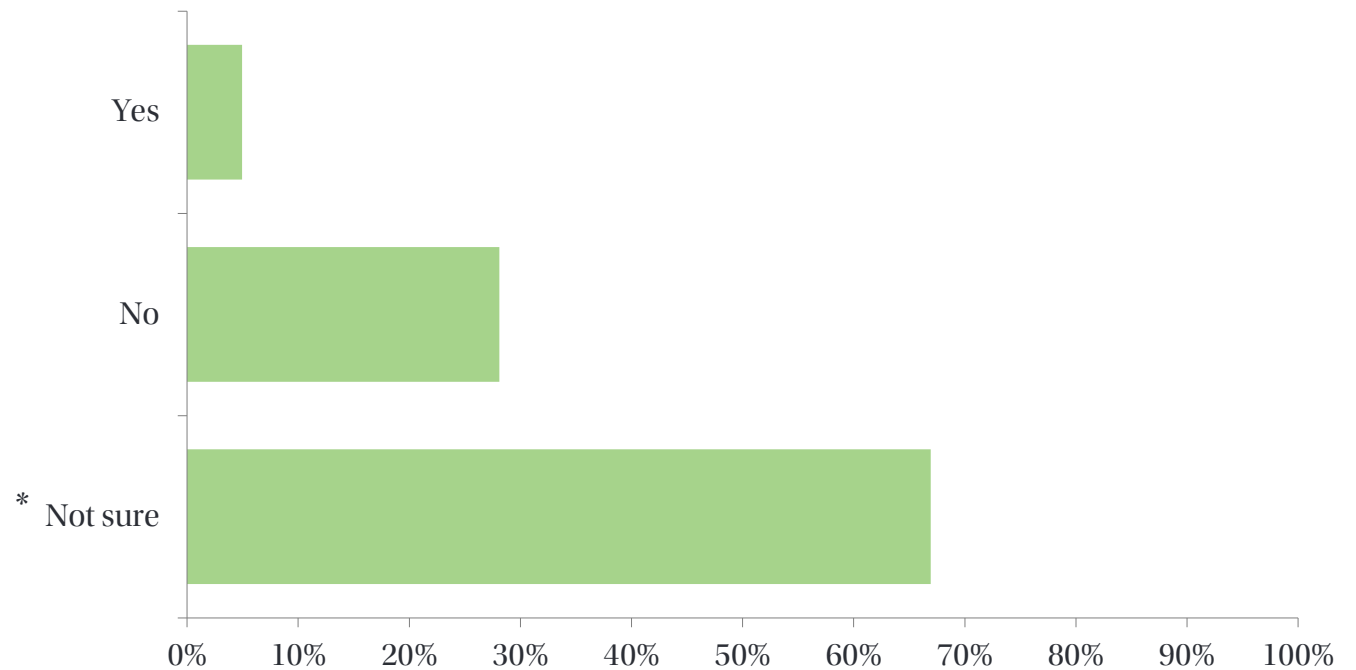
Pilot Program Results

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



Pilot Program Results

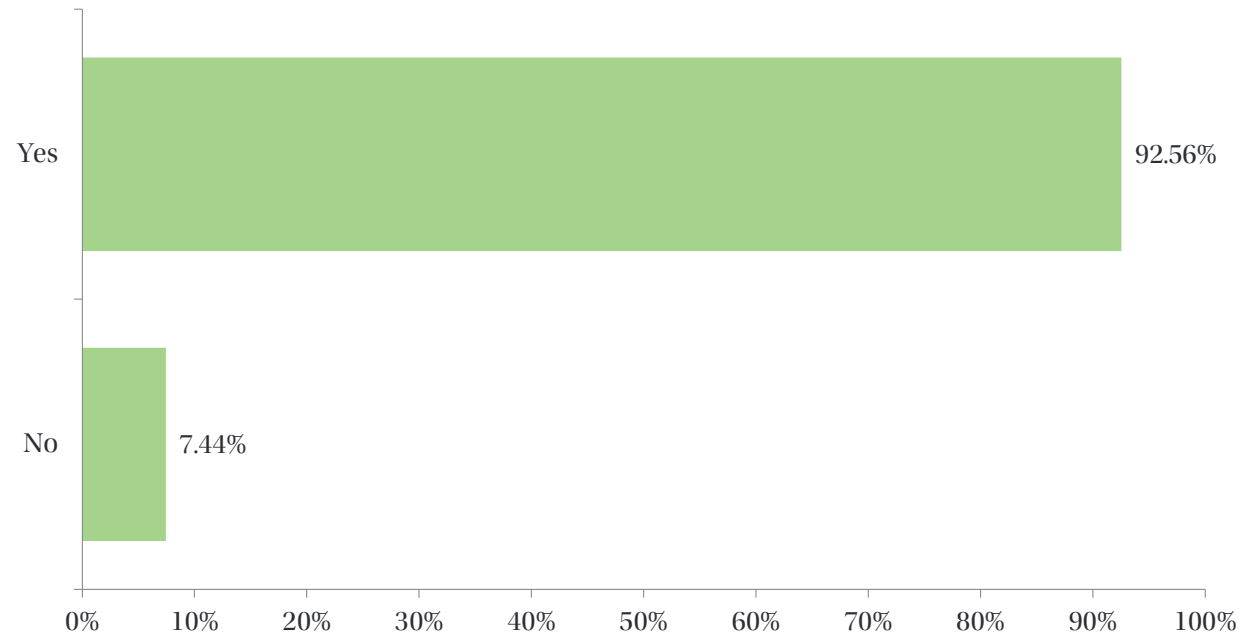
Did you see increased electricity costs during the time you used the FoodCycler?



*Suggests that increased electricity costs are negligible/acceptable

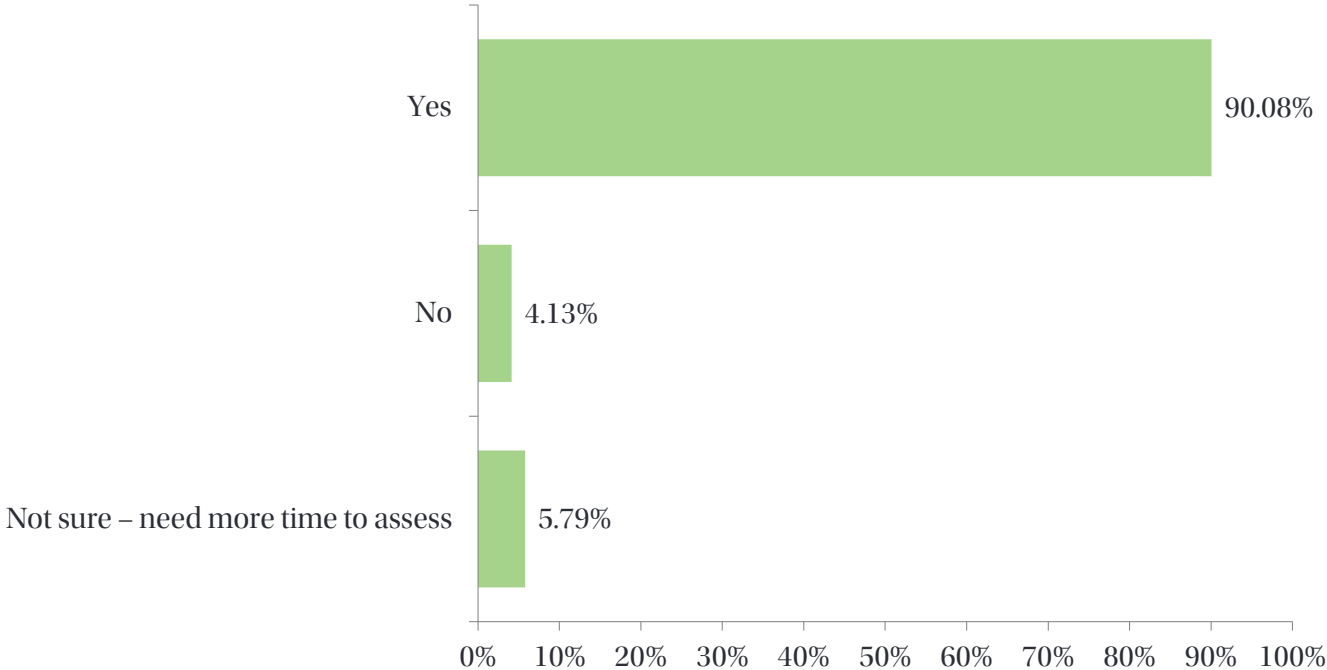
Pilot Program Results

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?



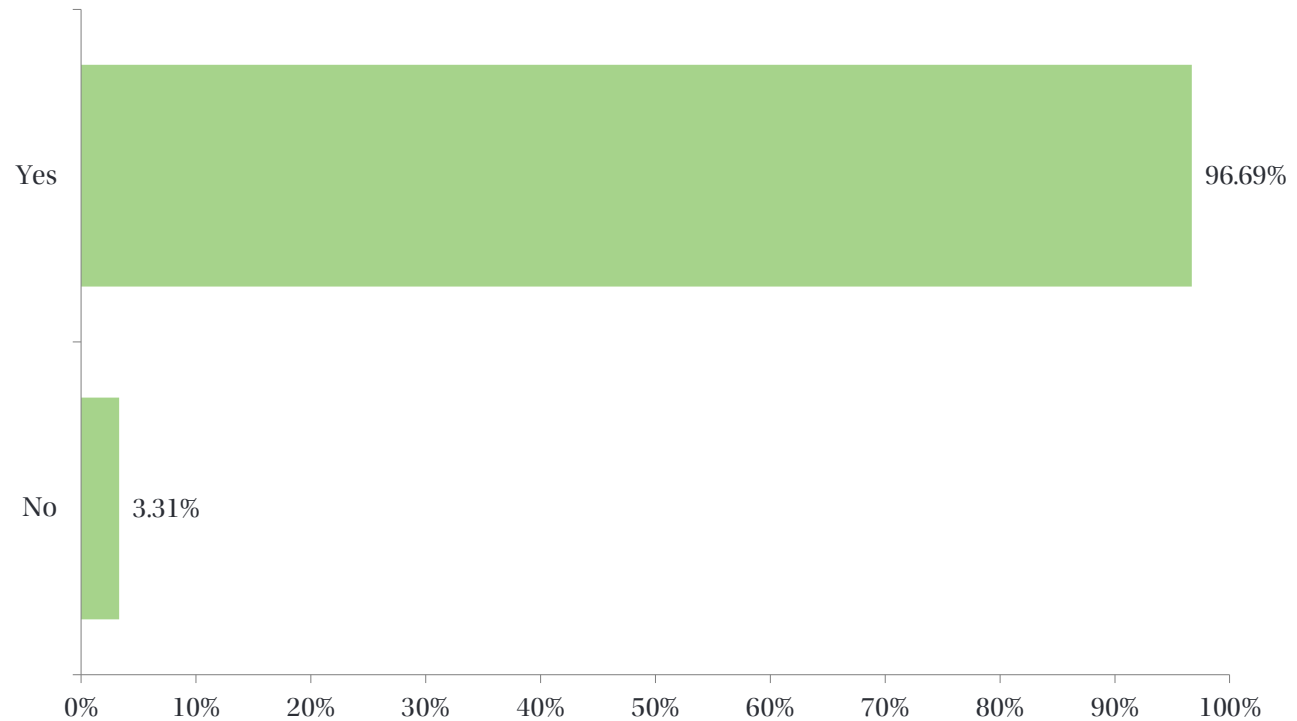
Pilot Program Results

Would you recommend the FoodCycler to others?



Pilot Program Results

Will you continue using the FoodCycler after this pilot?



*"Love that the foodcycler allows us to turn other materials like bones and meat into a garden usable product. Also, will encourage us to make good use of food scraps during winter months when it is less convenient (ie less likely to happen) to put them in our backyard composter - will use the foodcycler instead and save the byproduct up until snow disappears. **Love how simple it is to use.** Would be great to have a mark in the bin and unit where to drop the bucket in. Thank you for the link to discounted replacement parts."*

Pilot Program Results

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

Average rating: 4.5/5 Stars



Pilot Participant Comments

“Excellent machine - a stream / mechanism to deal with fat, oil, grease would be a good idea to ensure the soil amendment is ideal for gardening etc.”

“We tended to use and run the food cyclor on weekends. Would run 1-2 buckets while doing food prep for the week. We were used to having a green bin program where we used to live. Glad to have some option for food waste diversion.”

“Cost for some may be a barrier. Space to accommodate in the house, and additional hydro costs could affect general usage in the township/ towns.”

“If used efficiently by a large number of residents I think it would be a viable service.”

“I think the food cyclor is a "tidy" way of dealing with food waste for people who don't like mess/smell. Composting is a better method for anyone who has some land. I think our rural area should be promoting/educating on green cone and garden composting. “



Program Recap

Recap

- **18.8 MT** of food waste diverted from landfill/year from the 125 FoodCyclers in the pilot program
- Residents reported a **0.41 bag reduction per week** which equals **21.3 bags/household/per year** of food waste diverted from landfills.
- **96.6%** of participants will continue using the FoodCycler

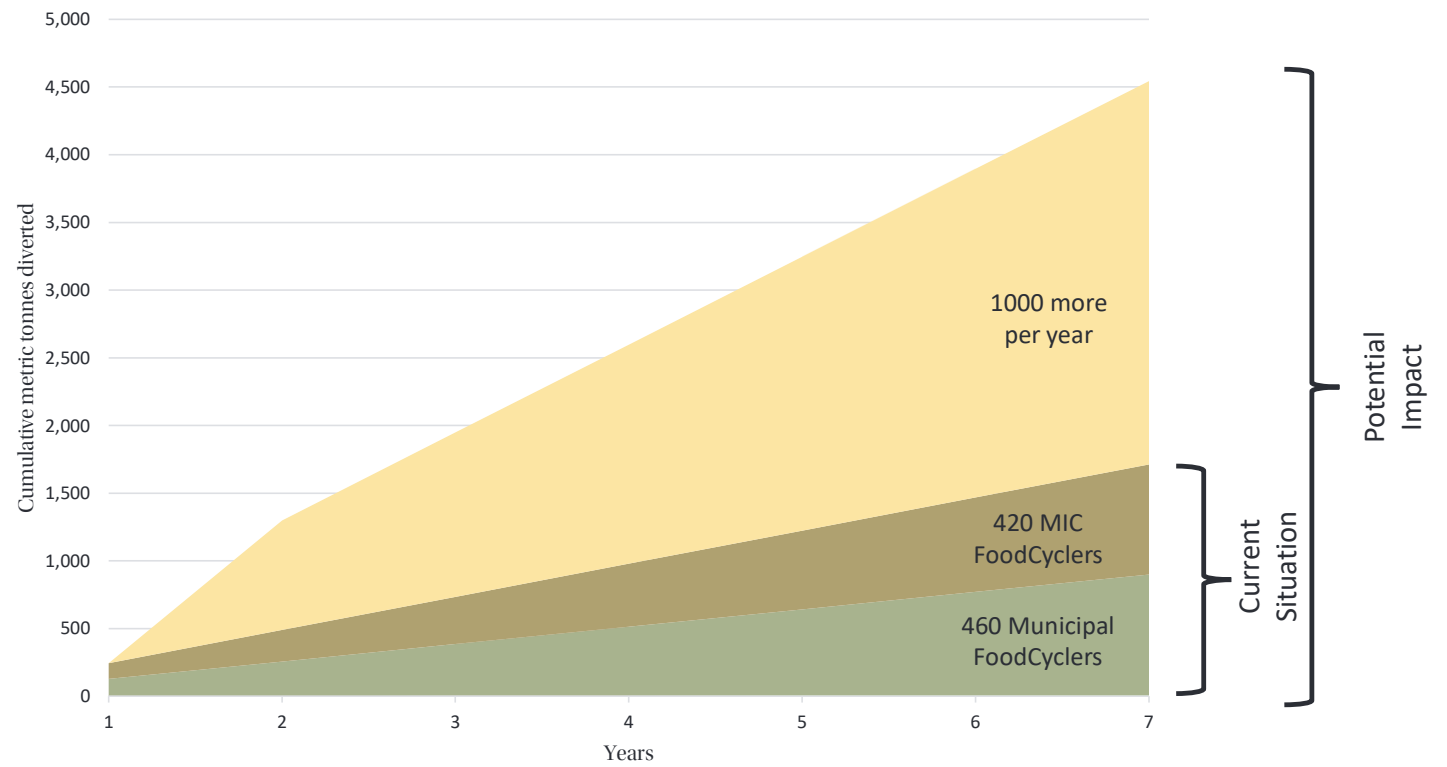
Next Steps

- Now 880 FoodCyclers in Bruce County
- Expanded program in 2023/24
- Comprehensive program designed for you by Food Cycle Science
- Stronger Together



Scaling Real Change

Cumulative metric tonnes over expected life of 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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British Columbia

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



Thank you!
Any Questions?

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