



FoodCycler™

On-Site Organics Diversion Program

Prepared for:
Municipality of Arran-Elderslie
November 27, 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

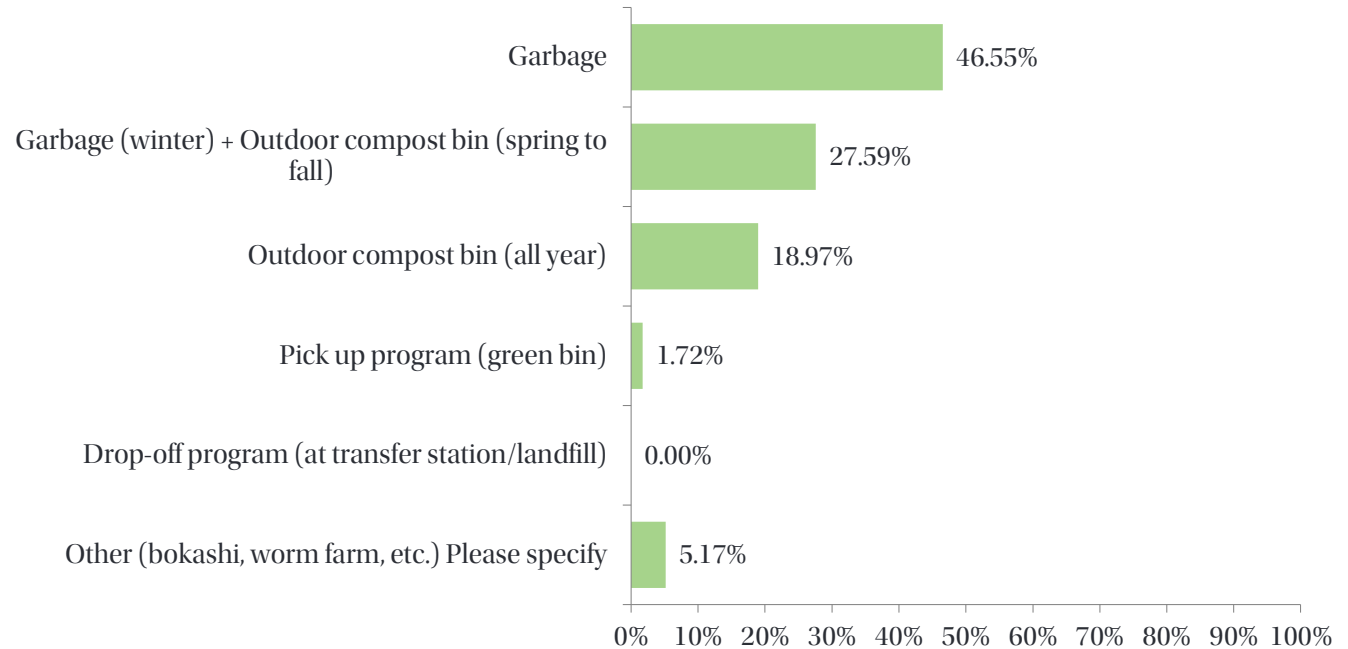
- With support from Impact Canada's Food Waste Reduction Challenge, a pilot program was run in Arran-Elderslie that included 62 participating households subsidized by the Municipal Innovation Council, with support from Bruce Power
- Part of a larger County-wide program initiated by the MIC that included 880 participating households
- Net cost to the Municipality of Arran-Elderslie was \$0
- 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

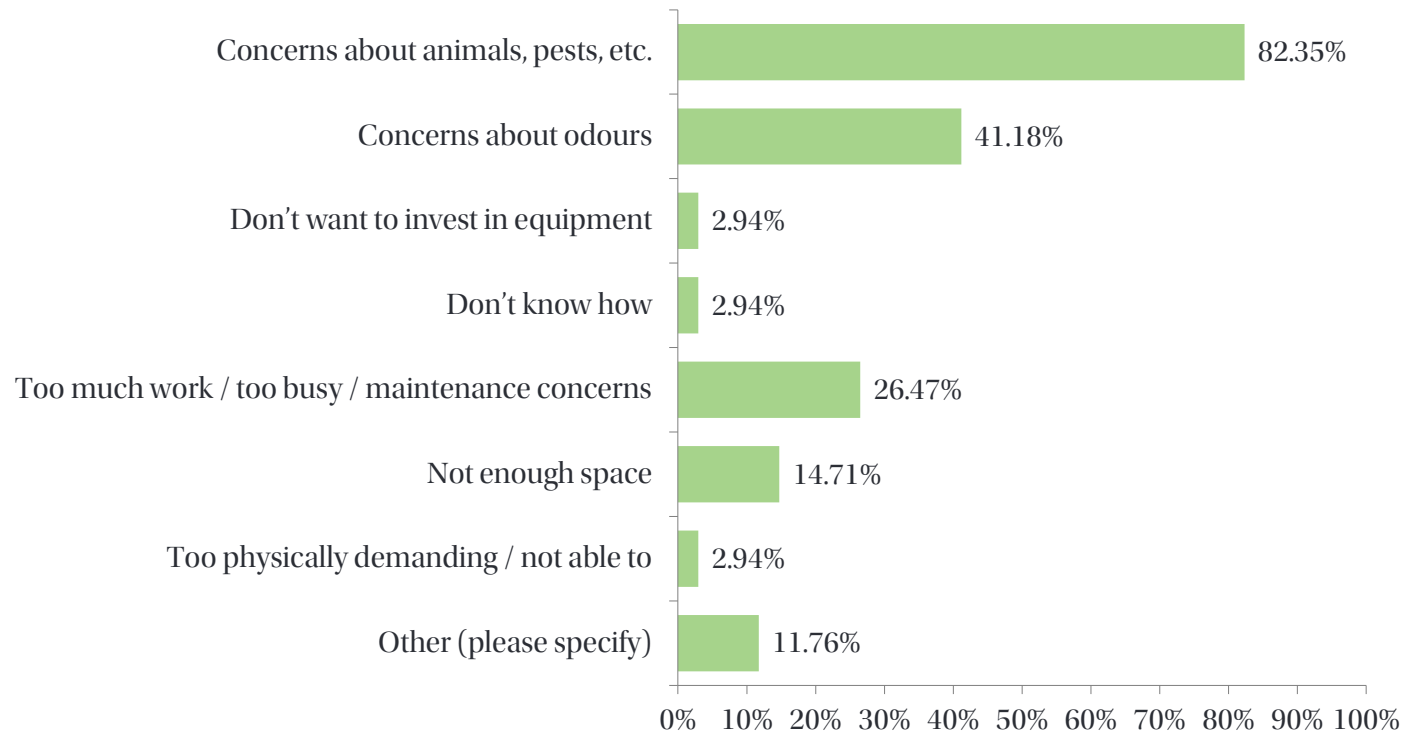
60 responses collected out of 62 participants (96.7%)

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



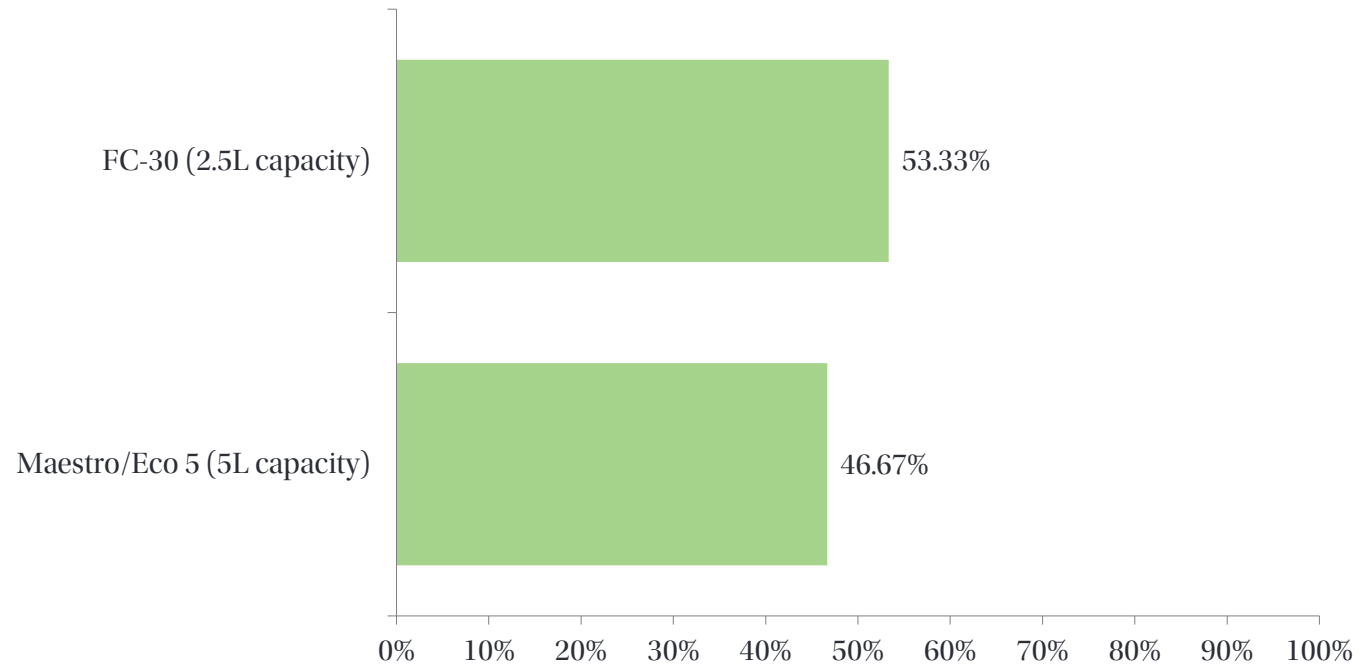
Pilot Program Results

Why don't you compost?



Pilot Program Results

Which device do you have?



Pilot Program Results

- Average of **4.15 cycles/week** for FC-30
- Average of **3.61 cycles/week** for Maestro/Eco 5
 - Equivalent to **~288 kg/year/household**
 - Total of **17.8 metric tonnes (MT)** of food waste diverted from landfill/year from 32 FoodCyclers in use
 - 62 FoodCyclers in South Bruce will divert **23.2 MT CO2 equivalents** per year, the equivalent reduction in greenhouse gas emissions of taking **5.2 gasoline-powered vehicles** off the road every year!



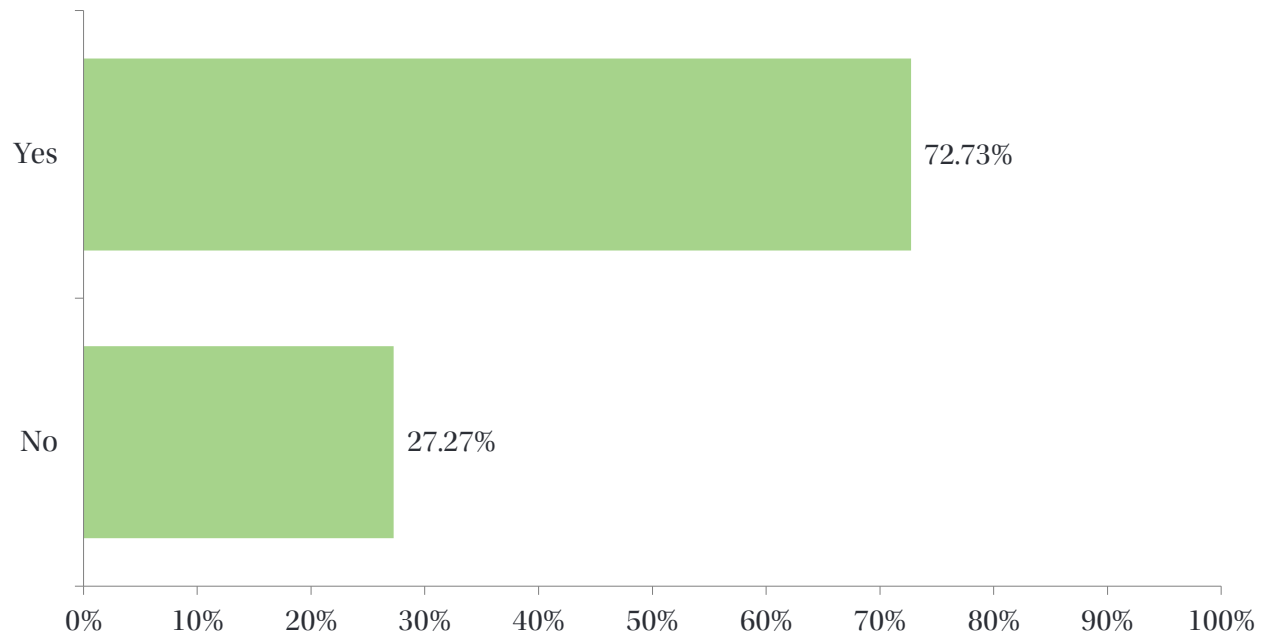
Pilot Program Results

Residents Reported generating 0.36 fewer standard garbage bags per week, a reduction of 18.7 garbage bags per household per year being trucked to local landfills!



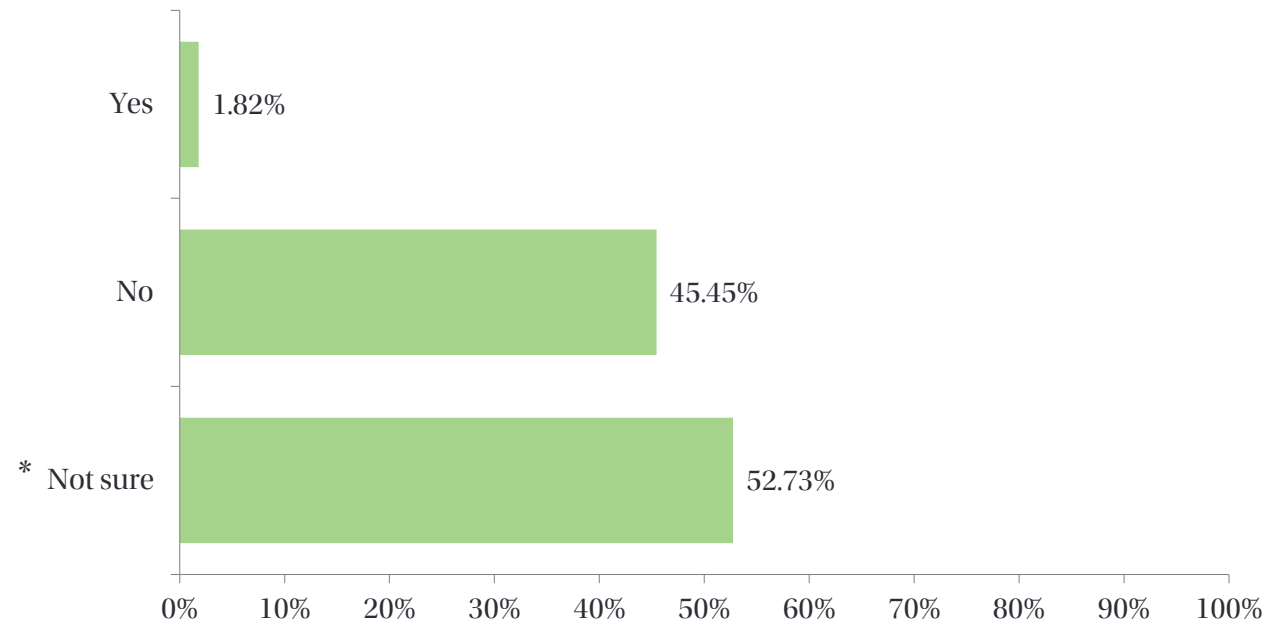
Pilot Program Results

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



Pilot Program Results

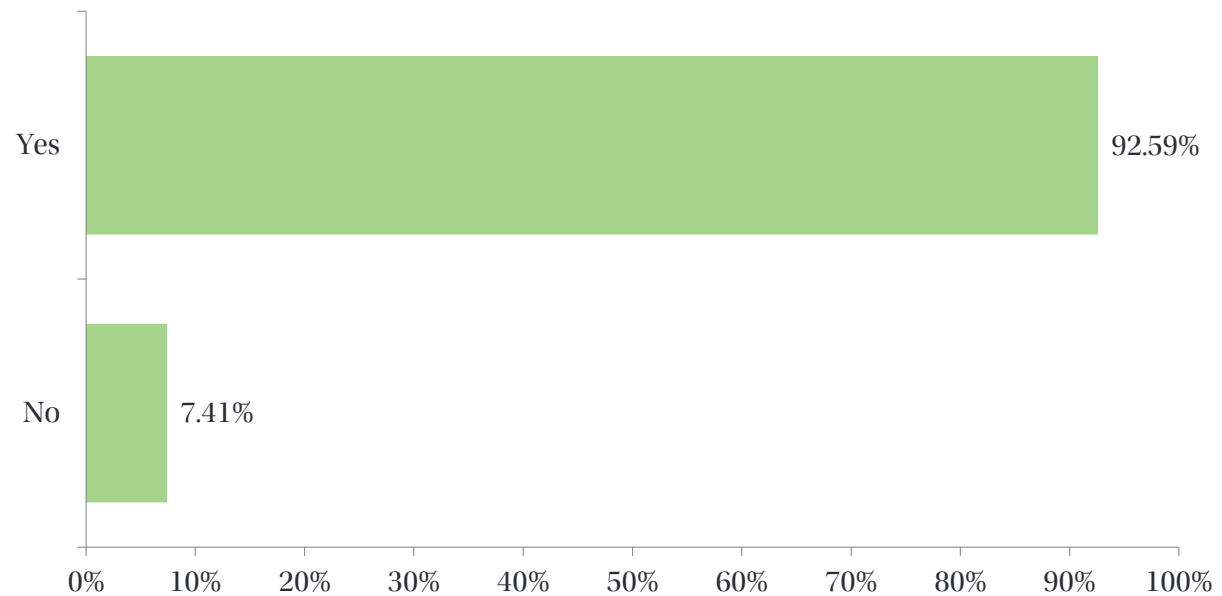
Did you see increased electricity costs during the time you used the FoodCycler?



*Suggests that increased electricity costs are negligible/acceptable

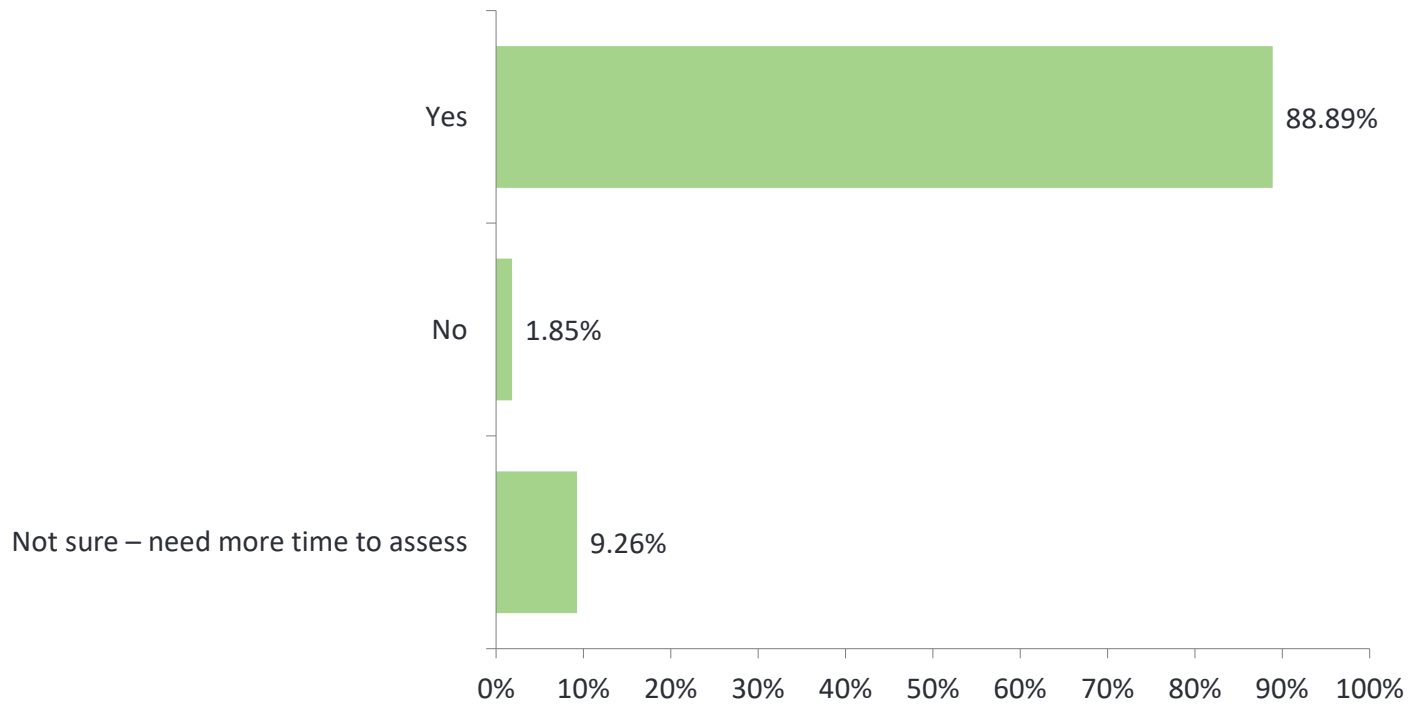
Pilot Program Results

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?



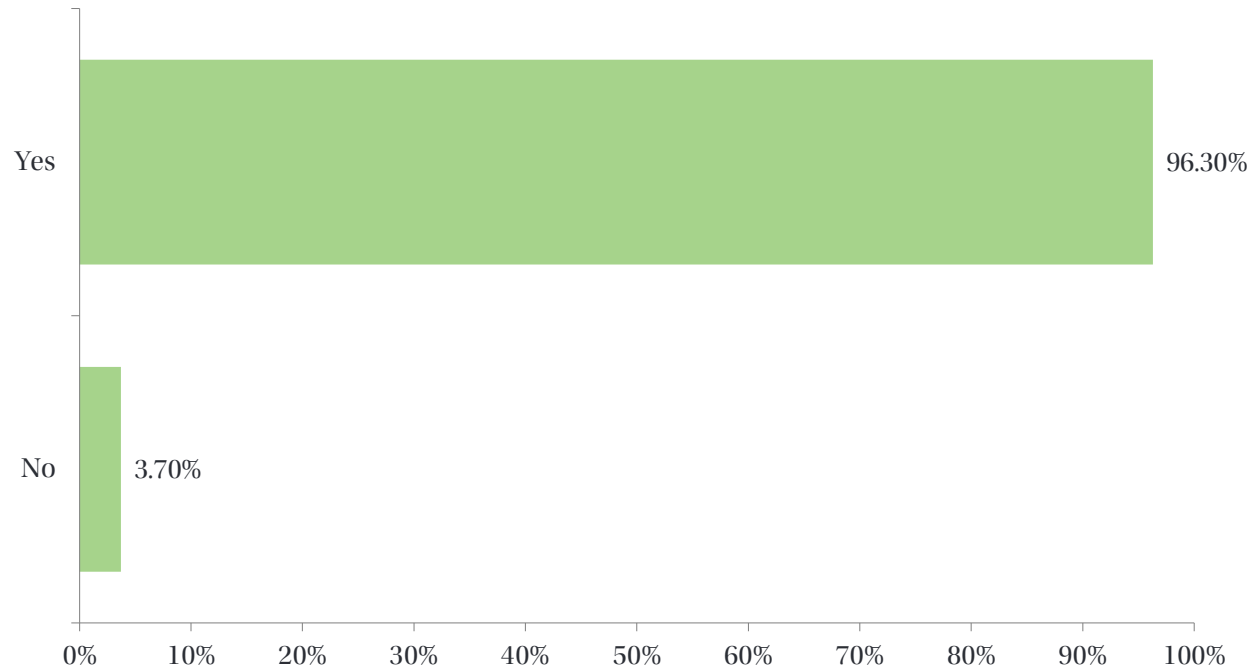
Pilot Program Results

Would you recommend the FoodCycler to others?



Pilot Program Results

Will you continue using the FoodCycler after this pilot?



“I have no complaints! **I loved the machine.** It was a good size for using and storing. It was quiet when it ran. We only ran it in the evening or overnight, so it was cheaper to run. I can't compare our hydro because we don't have heaters running anymore but we have an air conditioner and a pool pump. **I wish more people would use something like the Food Cycler.**”

Pilot Program Results

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

Average rating: 4.57/5 Stars



Pilot Participant Comments

“I think a compost program would be better because not all residents can afford a food cyclers. Creating incentive for compost pick up or implementation. I think subsidies for food cyclers is still valid.”

“For a person who cooks from scratch often, volume is not sufficient with 3 adults. I will use the FoodCycler most in winter, when I cannot access my backyard composter.”

“Focus additional service/ efforts on those not able to compost on site.”

“I think this was a great program, likely to be utilized more in the town's vs the rural residents. I had been looking into a similar program for a while but hadn't wanted to invest the initial funds (2.5-3x higher) for the device.”



Program Recap

Recap

- 17.8 MT of food waste diverted from landfill/year from the 62 FoodCyclers in the pilot program
- Residents reported a **0.39 bag reduction per week which equals 18.7 bags/household/per year** of food waste diverted from landfills.
- **96.3%** of participants will continue using the FoodCycler

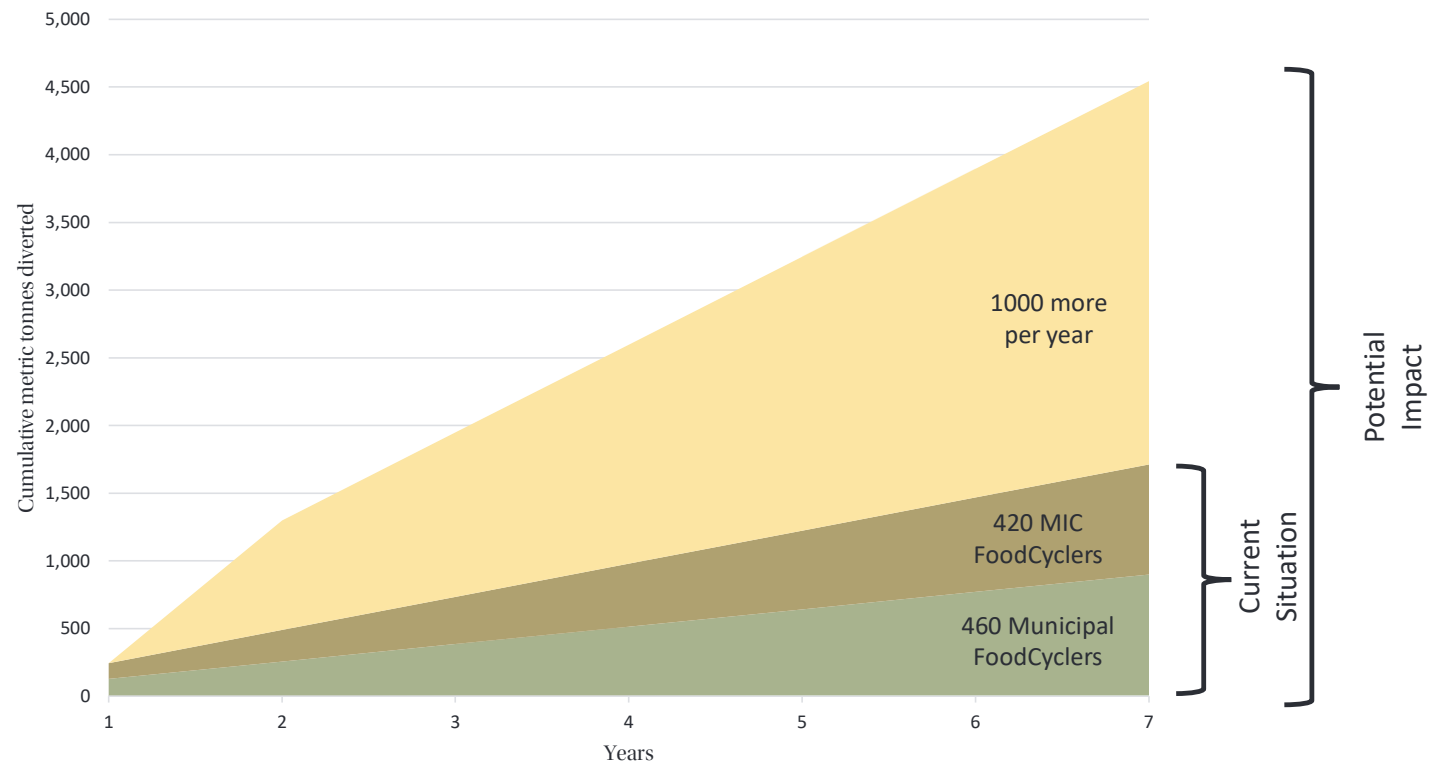
Next Steps

- 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?

Farah Sherifdeen
Municipal Program Coordinator
farahs@foodcycler.com
647-539-1090