



FoodCyclerTM

On-Site Organics Diversion Program

Prepared for:
County of Grande Prairie No. 1
November 8th, 2024

Presented by:
Food Cycle Science
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About Us: Food Cycle Science

- 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
 - Deloitte Fast 50 CleanTech award winners (2021-2024)
 - #66th on Globe & Mail's Canada's Top Growing Companies for 2024



Trusted Canadian Solution

From Coast to Coast to Coast



100 Canadian Municipal Partners
... and counting!

Pilot Program Recap

☞ A pilot program was run in the County of Grande Prairie that included 100 participating households.

☞ Cost to the Municipality was \$10,000 + taxes and shipping.

☞ Program Outline:

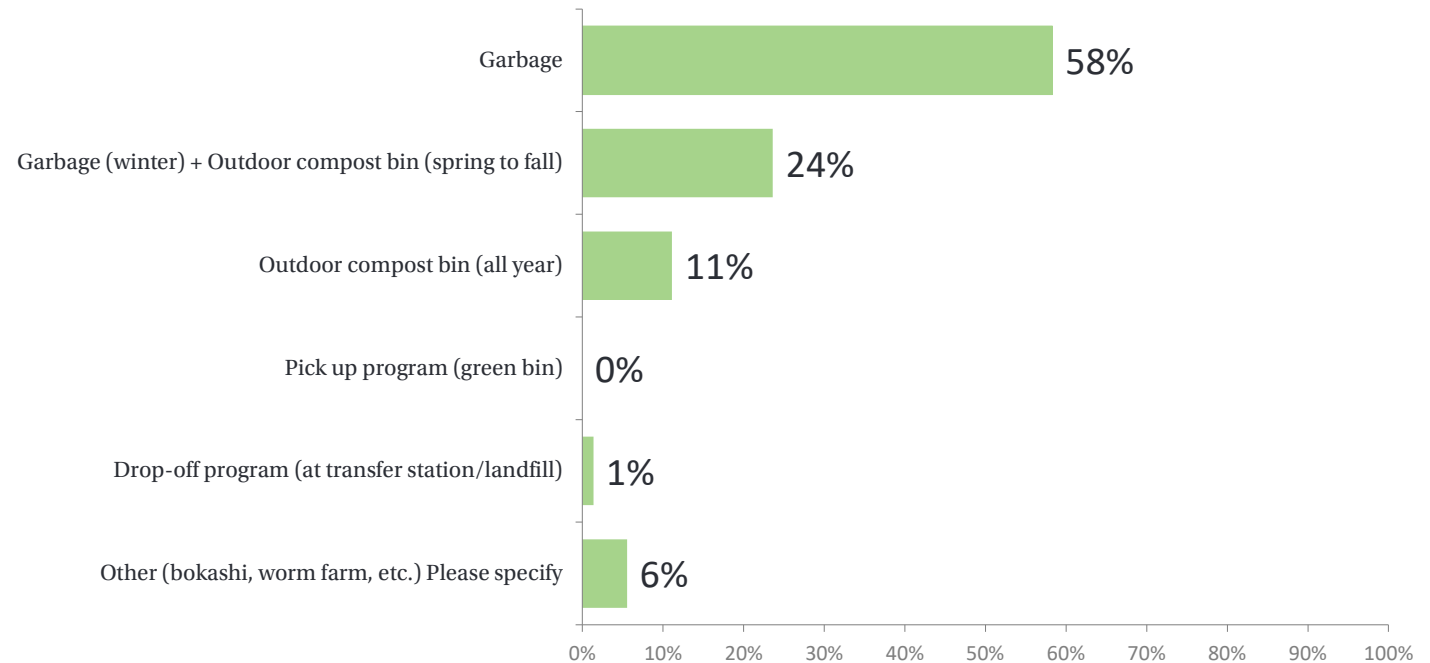
- ☞ Participating residents purchased a FoodCycler from the municipality at a subsidized price.
- ☞ Usage was tracked for 12 weeks to calculate total waste diversion.
- ☞ Participants completed a survey to provide data and feedback.



Pilot Program Results

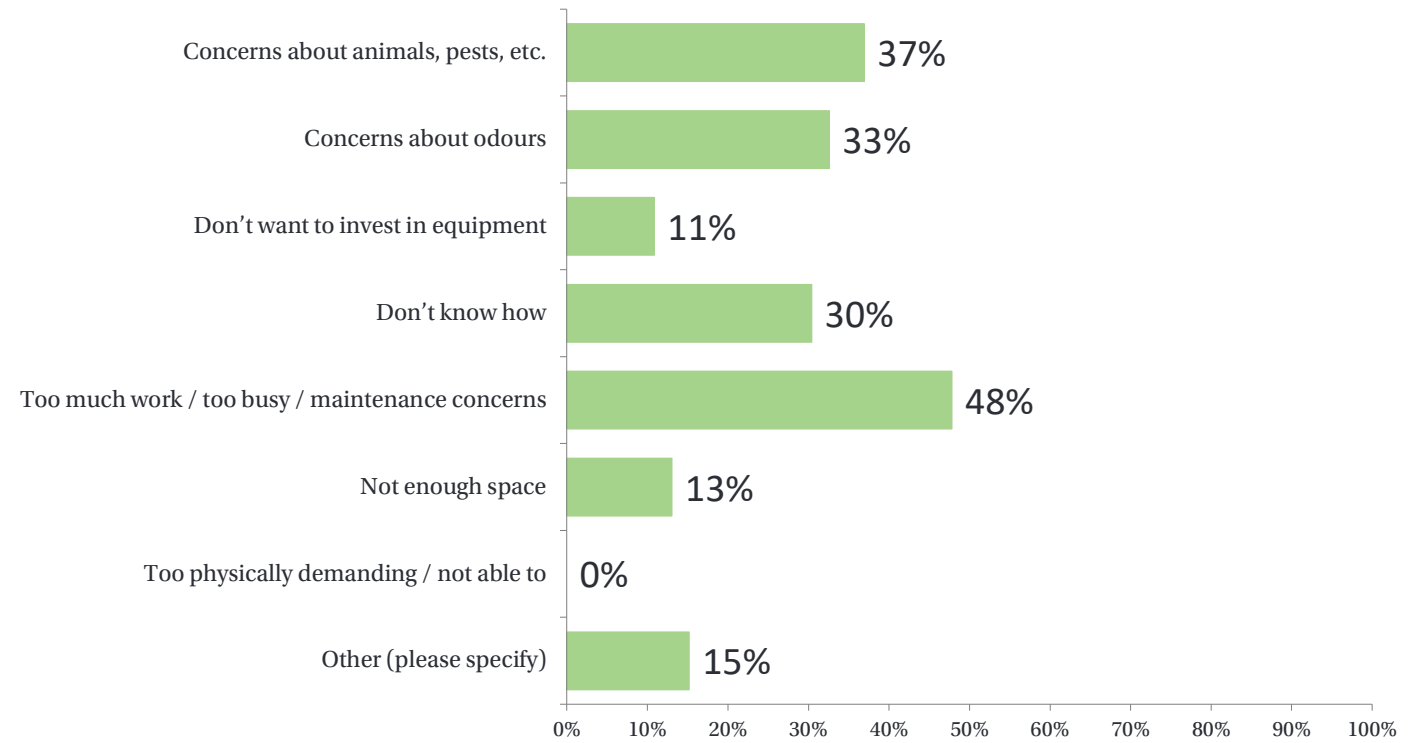
85 responses collected out of 100 participants (85%)

- How important is greenhouse gas reduction to you? 8/10
- How important is waste reduction to you? 9/10
- Where did your food waste go prior to using the FoodCycler?



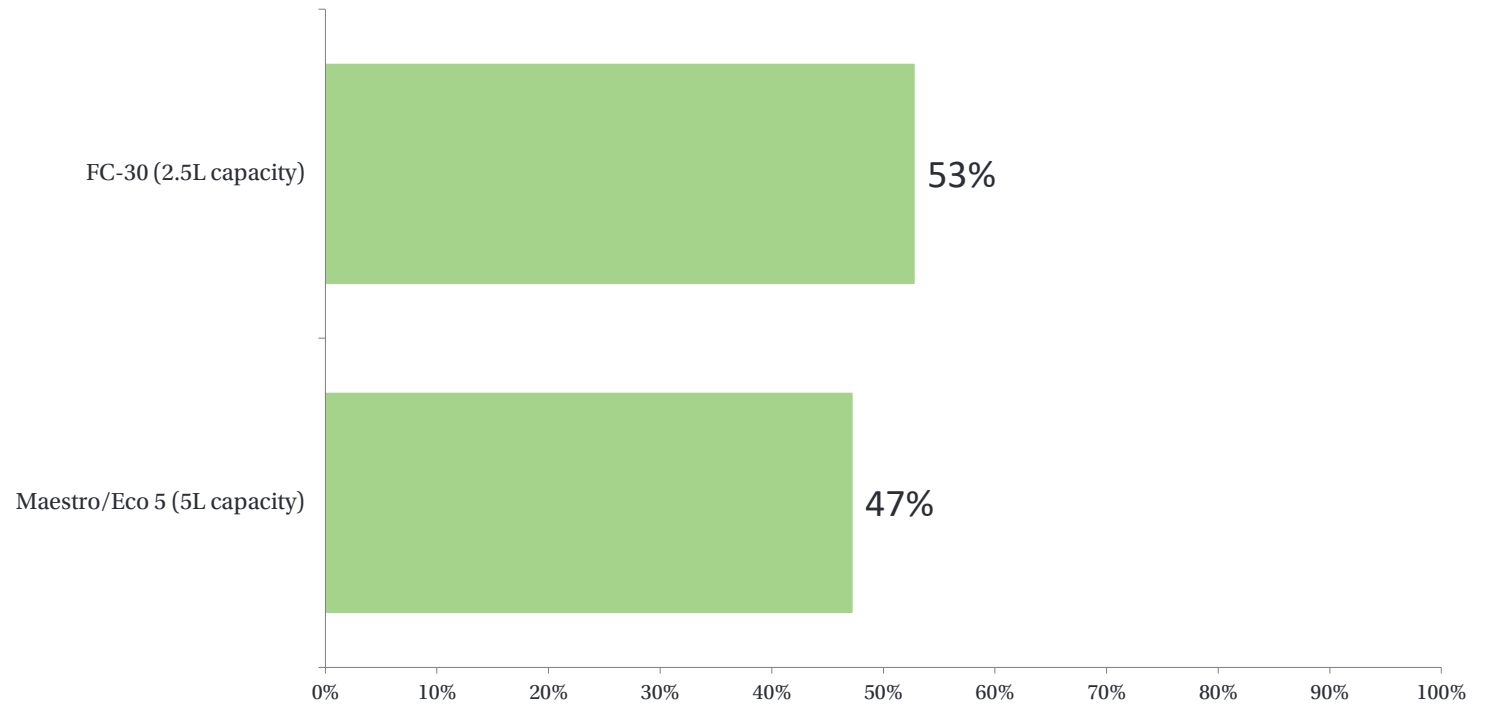
Pilot Program Results

Why don't you compost?



Pilot Program Results

Which device do you have?



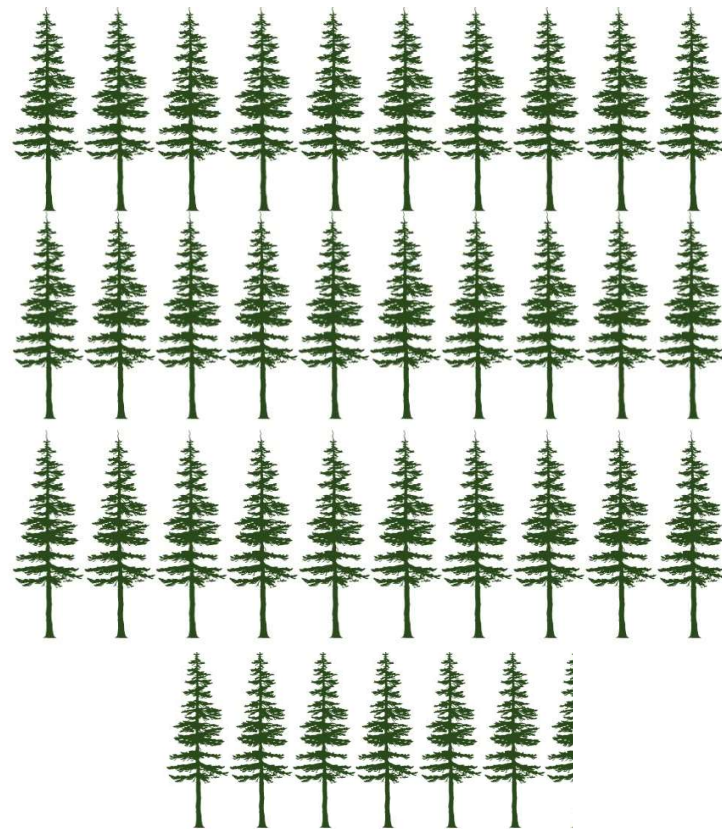
Pilot Program Results

- Average of **3.19 cycles/week** for FC-30
- Average of **3.09 cycles/week** for Eco 5
 - Equivalent to **~238.96 kg/year/household**
 - Total of **23.9 metric tonnes (MT)** of food waste diverted from landfill/year from 100 FoodCyclers in use



Pilot Program Results

- 100 FoodCyclers in the County of Grande Prairie will divert **31.06 MT CO₂ equivalents** per year, the equivalent to the carbon sequestered by 36.3 acres of forest per year!



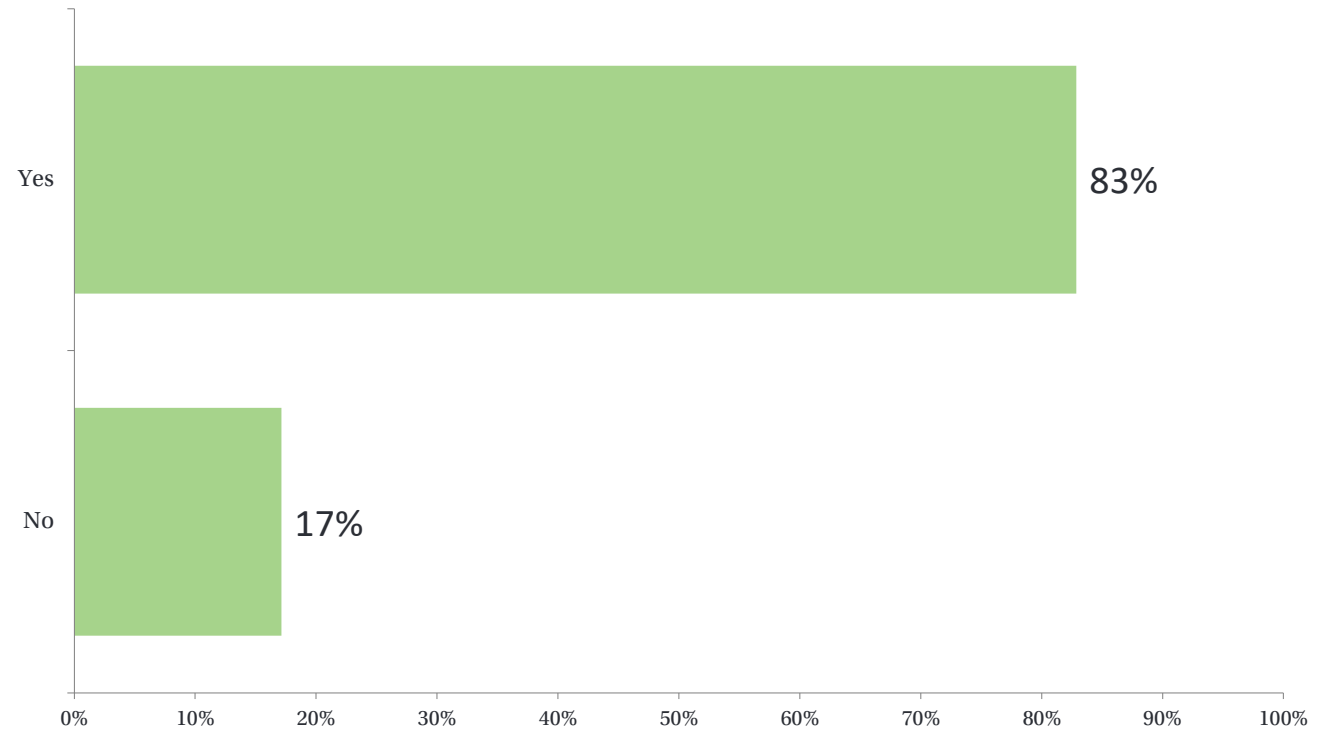
Pilot Program Results

Residents reported generating **0.54 fewer standard garbage bags per week**, a reduction of **28.05 garbage bags per household per year** being trucked to the landfill!



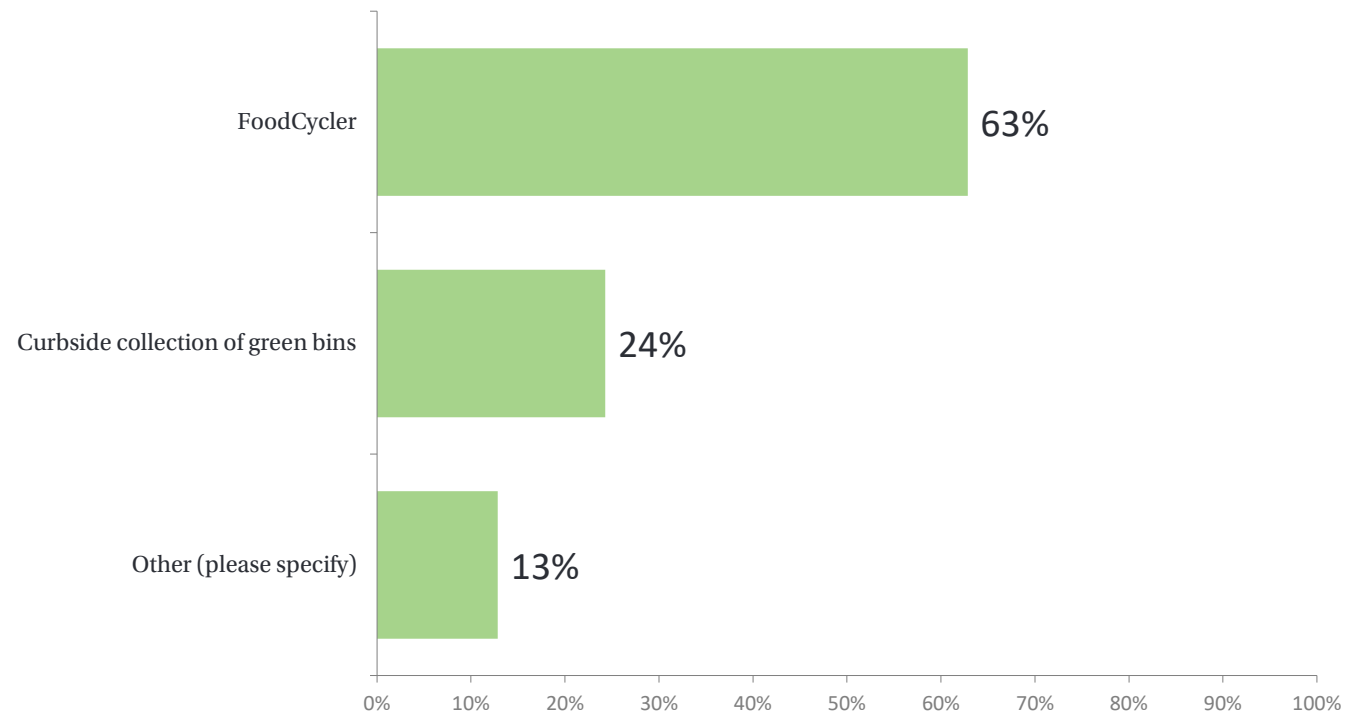
Pilot Program Results

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



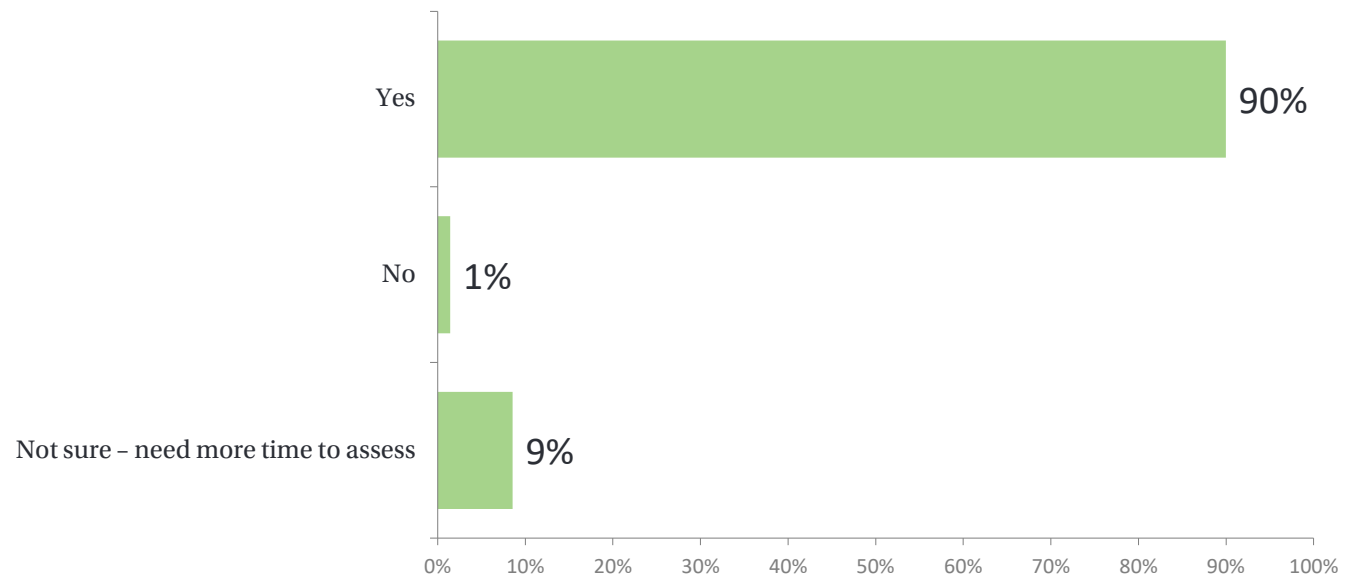
Pilot Program Results

If the municipality were to implement a municipal service to divert food waste, please indicate your preferred method:



Pilot Program Results

Would you recommend the FoodCycler to others?

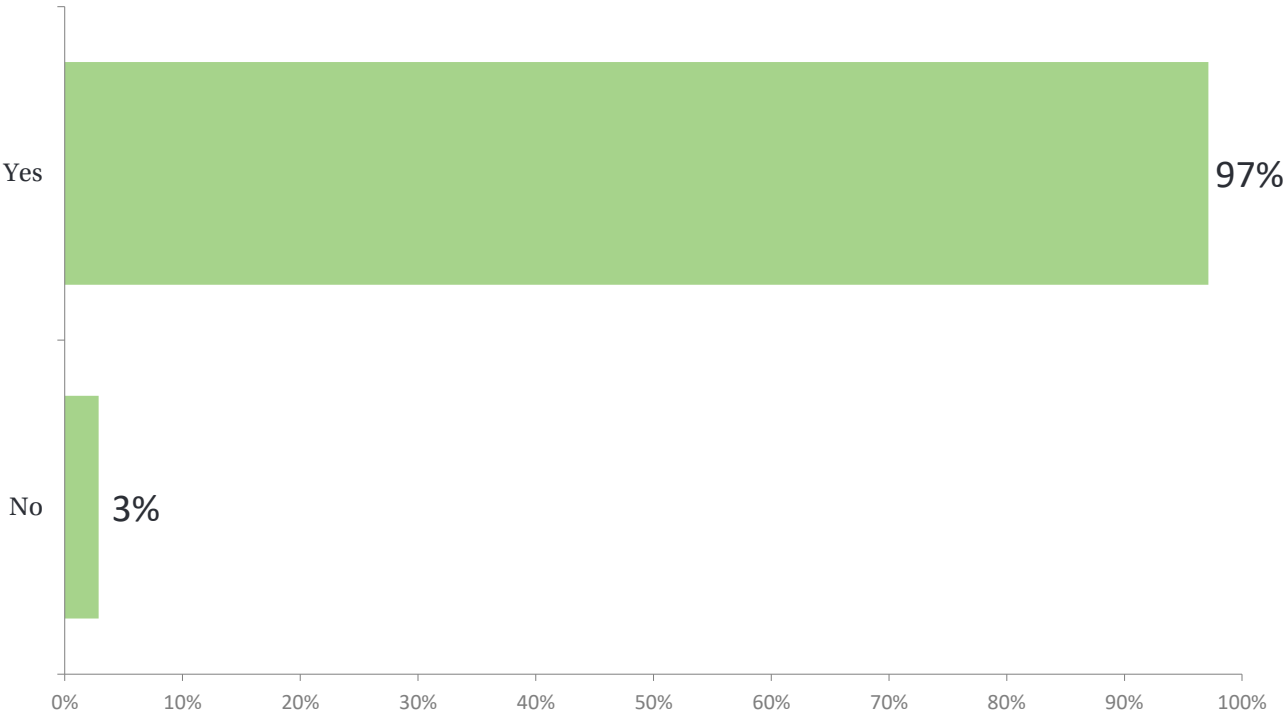


“I love the unit. Many neighbors have asked about it.”

“Would love to have the opportunity to share the program with my kids (live in a house on same property) to have one in their home to also help keep the waste down. We also have lots of friends, family and run a not-for-profit homesteading community group who loved this idea and would love to participate if possible (live in town and surrounding areas). Thank you again for this opportunity!”

Pilot Program Results

Will you continue using the FoodCycler after this pilot?



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 = 0%
- 3 Stars = 4%
- 4 Stars = 21%
- 5 Stars = 45%

“Thanks for the opportunity to participate! We would not have known about this if the county didn't have their booth at the spring home show. Very forward thinking.”

“Loved the program and that the municipality made it much more accessible to start something like this with the subsidized cost!”

“Great job with this awesome pilot project!”

“Thank you for the opportunity.”

Pilot Participant Comments

"As someone who already compost consistently, I think the FoodCycler has less value for me, though I still do use it for things that can't be composted, and to avoid making more trips to my compost pile. I think it would hold a lot more value for someone who doesn't compost at all but has a desire to get started. Thanks for running this program!"

"I'm not sure if the cost of the unit and the cost of the electricity to run the FoodCycler offsets the amount of recycled product produced."

"My husband complained about use of power as we were already composting by traditional means. I appreciated the convenience."

"I absolutely loved this thing! Some days I had more than one full bucket, but I would just add the extra in a pail and do a cycle the next day."

"It is quite amazing how little compost comes from a full bucket of waste. There was usually just a bit covering the bottom after the cycle. It sometimes was a bit dirty after a cycle and some compost stuck to the bottom and sides, but it usually came off."

"It's quieter than I anticipated!"

"Really enjoyed this project. Easy to use the FoodCycler and the product that comes out of it. Highly recommend!"

"Hope this becomes a part of normal operations."

"We really enjoyed having the unit to help manage our food waste. This is a great program."

"This was wonderful, thank you very much for giving us this opportunity at a price we could afford."

"I enjoy using it. Our biggest concern is storage space as we live in a modular. This machine has encouraged us to reduce waste, but more importantly, to compost and enrich the garden soil we have."

"I liked this pilot project. I found it is an easy way to manage composting. We typically ran our FoodCycler daily and sometimes twice a day when we were doing meal prep. I liked using it daily and not having to wait to collect enough scraps to go in the FoodCycler. I have shared with a lot of colleagues and friends about this product."



Program Recap

Recap

- **23.9 MT** of food waste diverted from landfill/year from the 100 FoodCyclers in the pilot program
- Residents reported a **0.54 bag reduction per week which equals 28.04 bags per household per year** of food waste diverted from the landfill.
- As a result of this program, **83%** of participants are now motivated to waste less food.
- **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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British Columbia

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

Next Steps

FoodCycler as an Organic Waste Diversion Solution

- Launch of Eco3
 - bucket capacity of 3.5L, smaller overall size, and the same high efficiency Vortech grinding system as the Eco 5
- Life Cycle Analysis
 - Our new Emissions Calculator Tool is available at no extra cost to our implementation partners
- FoodCyclers in MultiRes
 - We have just wrapped up our 1st FoodCycler MultiRes Program in partnership with the City of Belleville
- Feasibility Report
 - We are developing a toolkit to provide municipalities with the economics of implementing FoodCyclers vs. landfill and curbside green bin programs





Thank you!
Any Questions?

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