



FoodCycler™

On-Site Organics Diversion Program

Prepared for:
NORFOLK COUNTY
July 10, 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)
 - #108 on Globe & Mail's Canada's Top Growing Companies for 2023



Pilot Program Recap

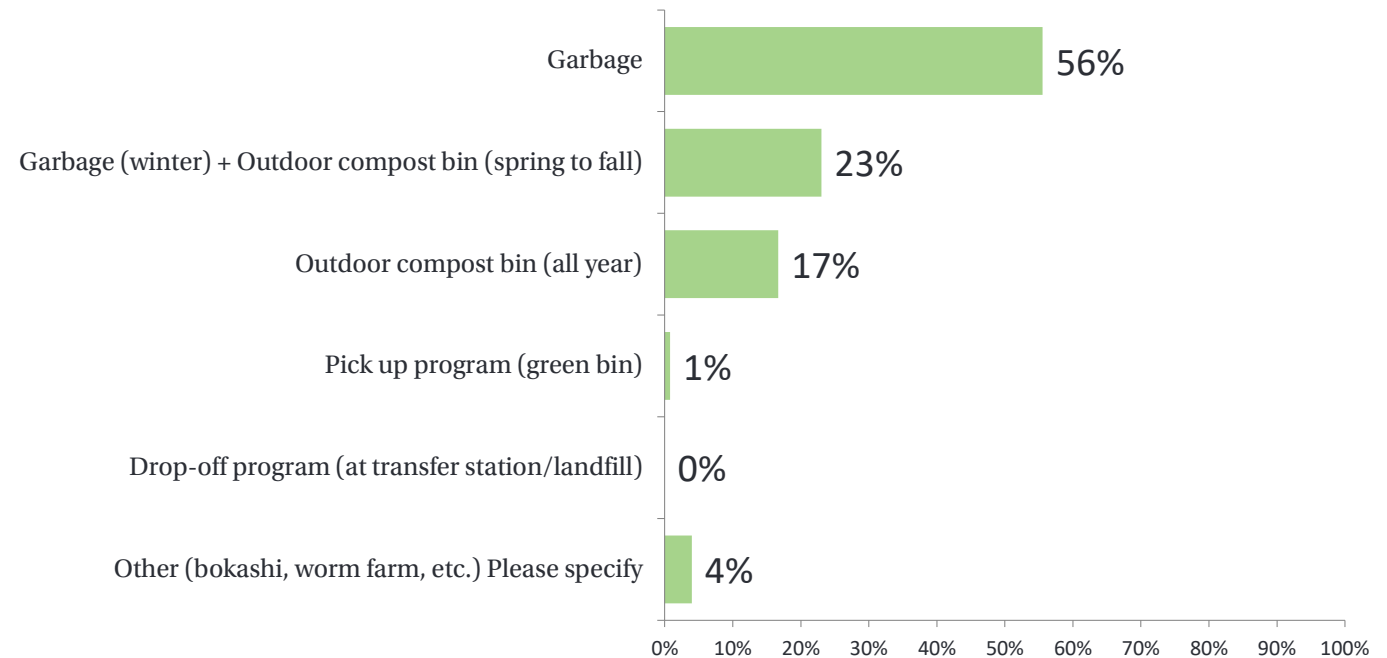
- ☪ A pilot program was run in Norfolk County that included 150 participating households.
- ☪ Cost to the Municipality was \$15,000 + taxes and shipping.
- ☪ Program ran from March to June 2024
 - ☪ Usage was tracked for 12 weeks to calculate total waste diversion.
 - ☪ Participants completed a survey to provide data and feedback.



Pilot Program Results

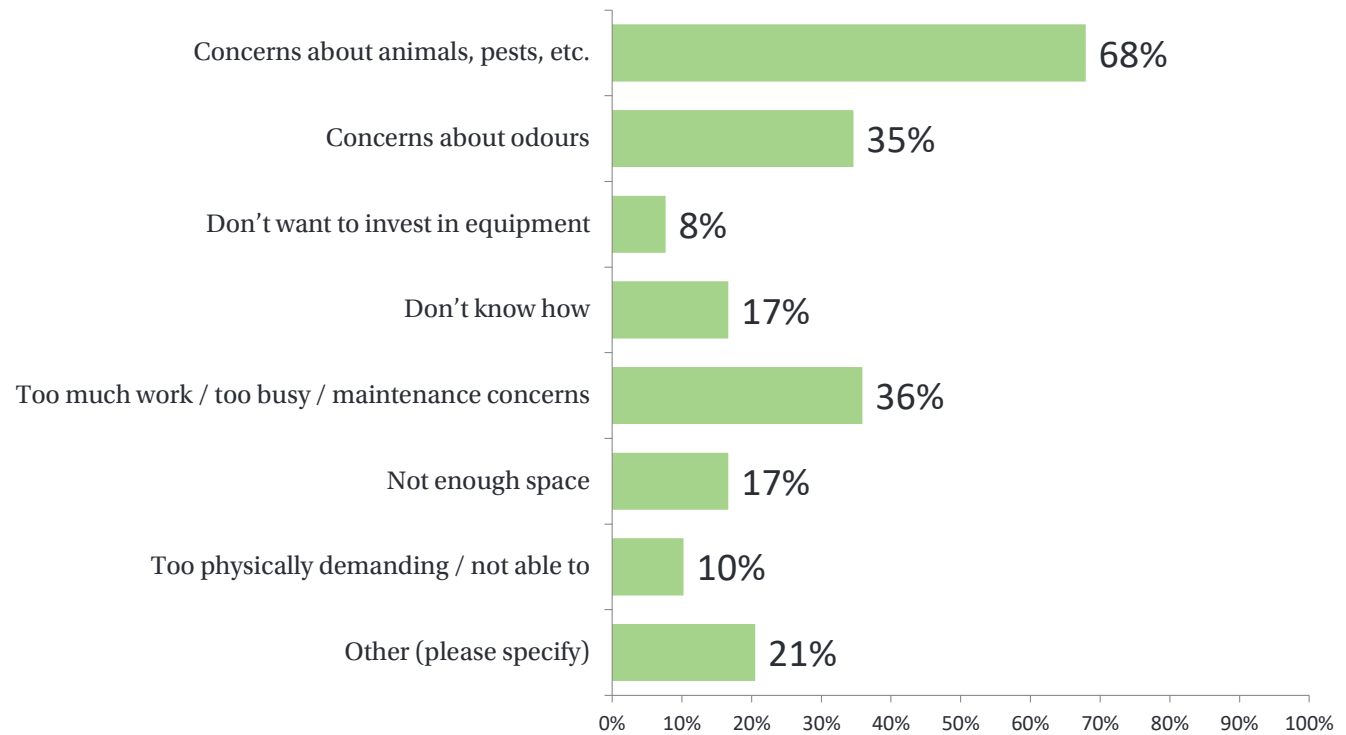
126 responses collected out of 150 participants (84%)

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



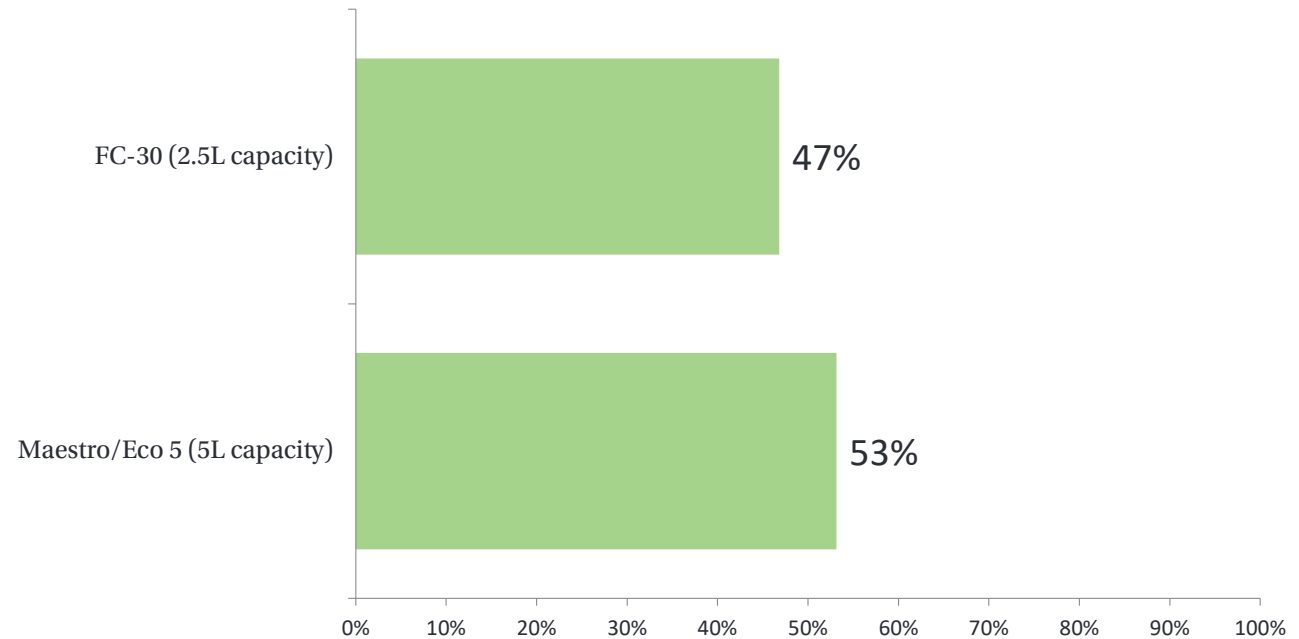
Pilot Program Results

Why don't you compost?



Pilot Program Results

Which device do you have?



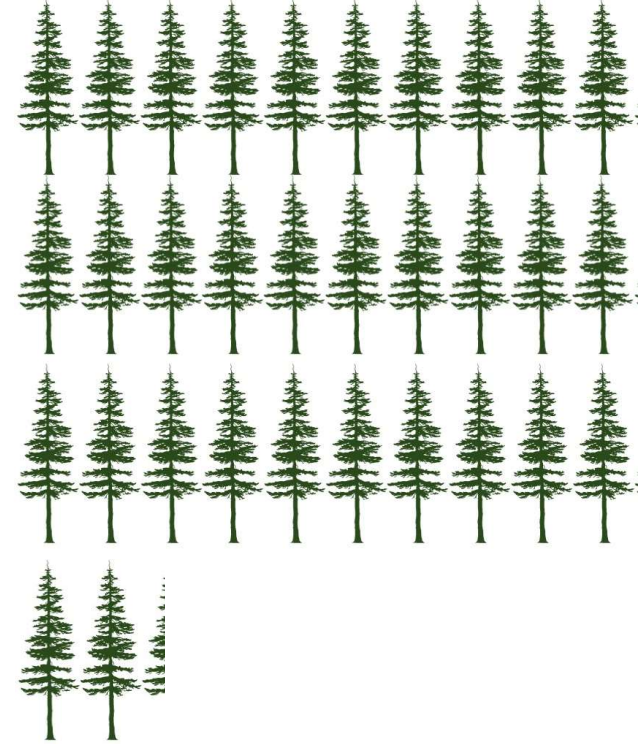
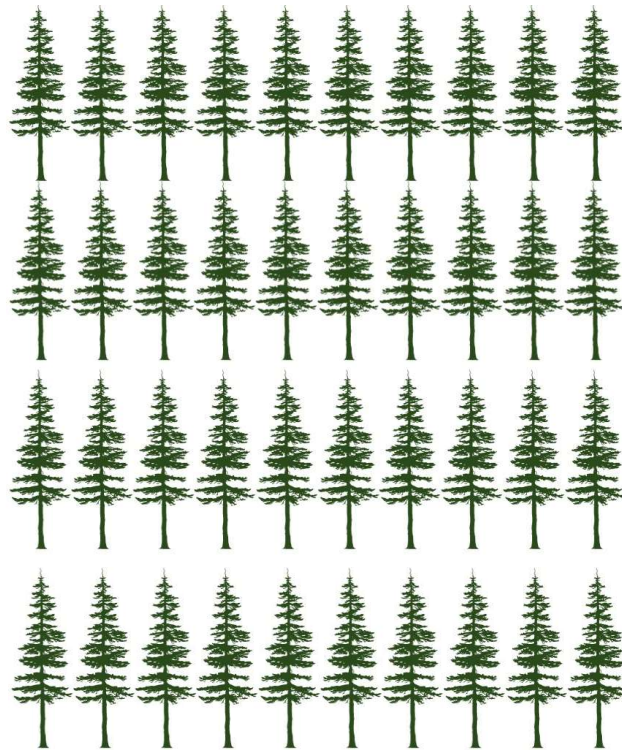
Pilot Program Results

- Average of **3.54 cycles/week** for FC-30
- Average of **3.40 cycles/week** for Eco 5
 - Equivalent to **~274 kg/year/household**
 - Total of **41 metric tonnes (MT)** of food waste diverted from landfill/year from 150 FoodCyclers in use



Pilot Program Results

- 150 FoodCyclers in Norfolk County will divert **62 MT CO₂ equivalents** per year, the equivalent to the carbon sequestered by 72.4 acres of forest per year!



Pilot Program Results

Residents reported generating 0.60 fewer standard garbage bags per week, a reduction of 31.2 garbage bags per household per year being trucked to the landfill!

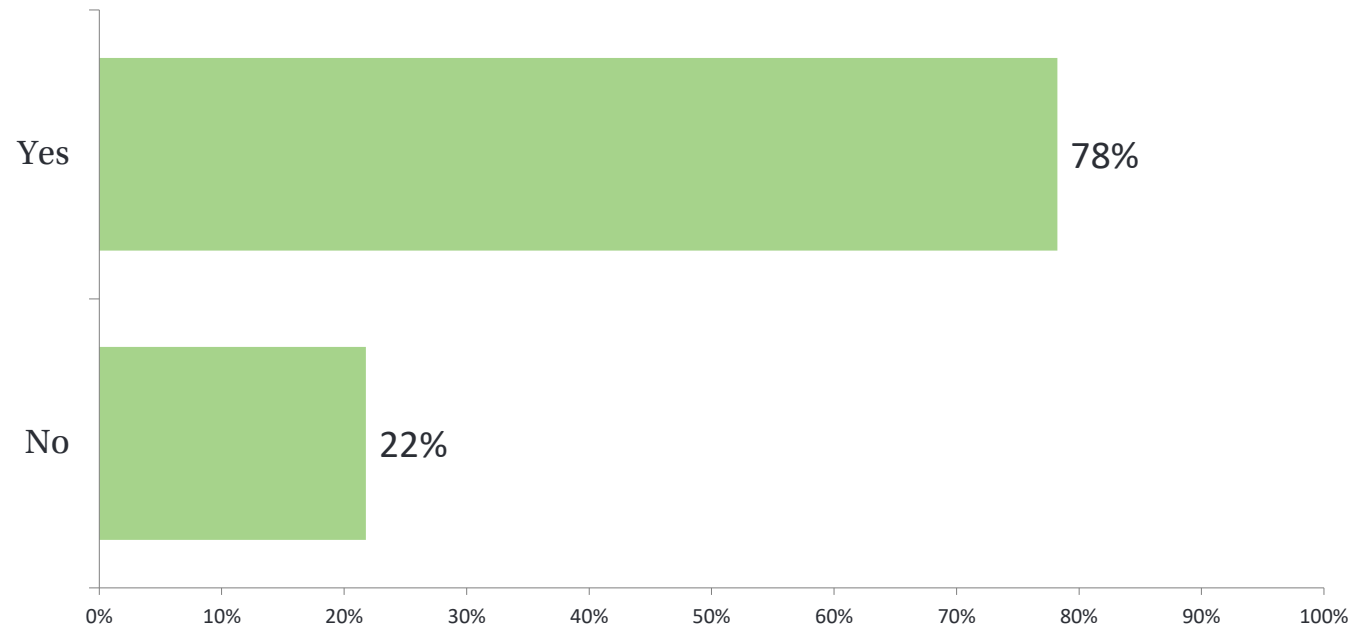


*"I think it is a **great product** to use for diverting a lot of food waste from the landfills."*

*"This is an incredible idea. **We also recycle with the blue box, and this means we had, at best, one kitchen garbage bag per week.** It should indeed be a municipal service."*

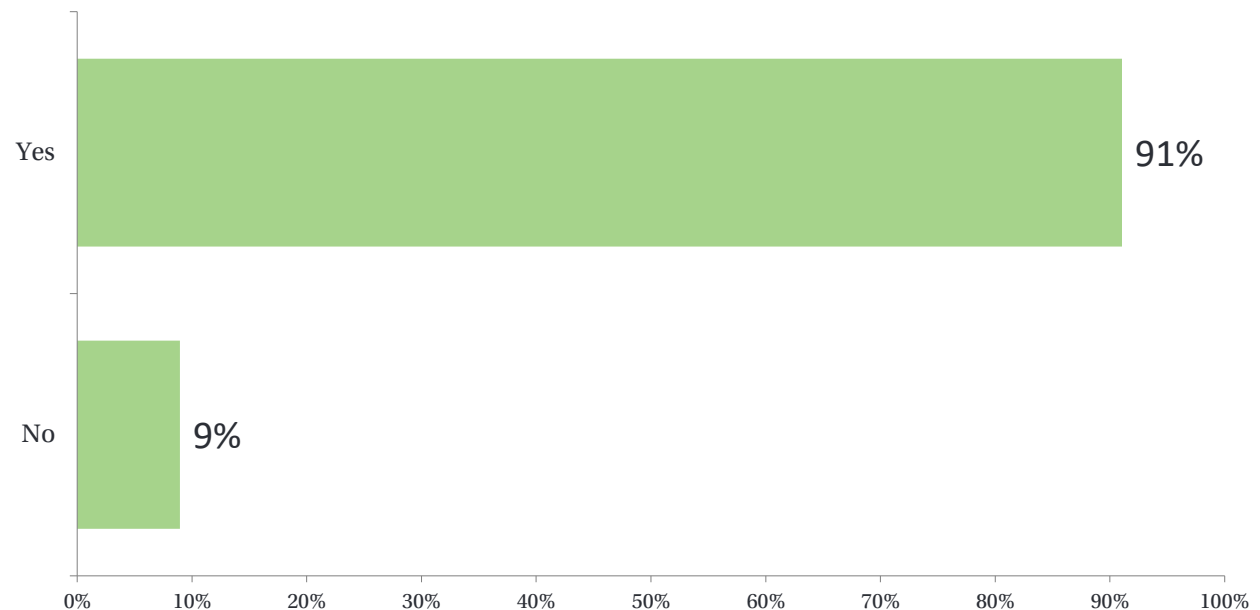
Pilot Program Results

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



Pilot Program Results

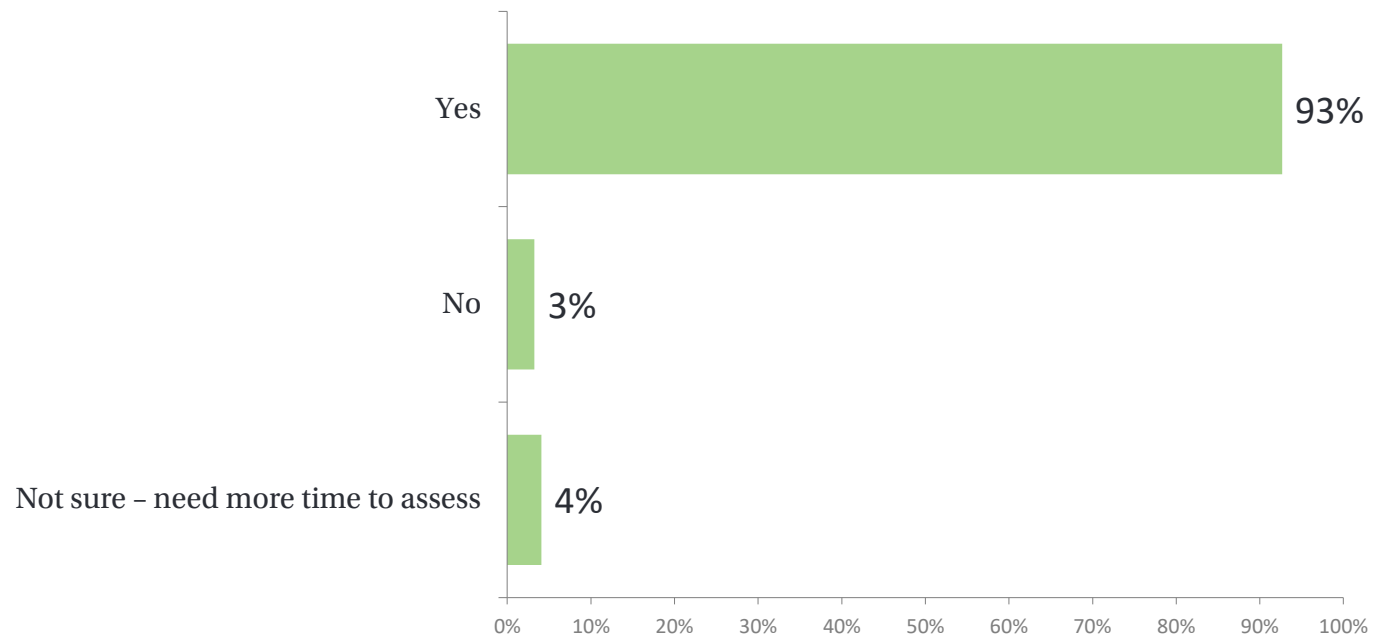
If the municipality continued to offer a FoodCycler to residents at no or low cost as part of a diversion program, do you think your friends / neighbours in the community would participate?



"I believe if this was continued to be offered at the reduced cost and coupled with education, people would be inclined to purchase and use."

Pilot Program Results

Would you recommend the FoodCycler to others?

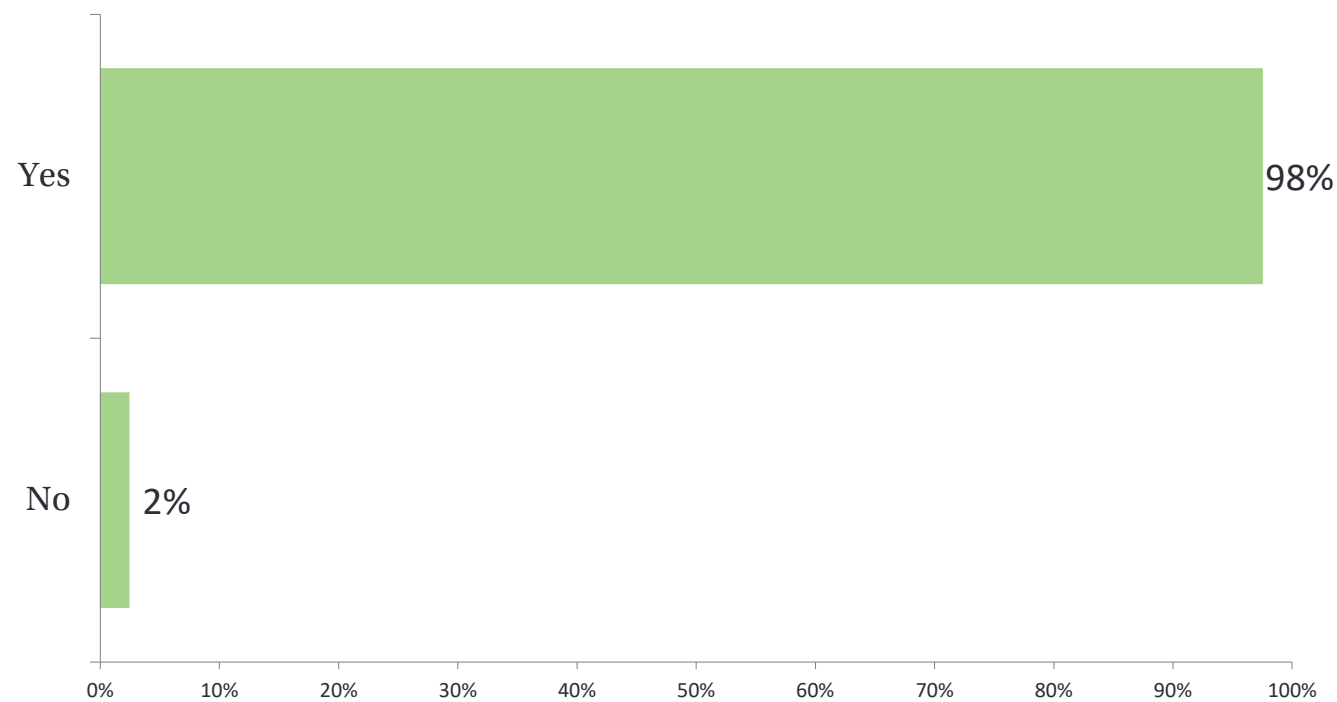


"I was thoroughly impressed. Fantastic results with the compost in my garden and plants. Never ever noticed a smell from the bucket or machine. I would highly recommend it to family and friends."

"Great program! Thank you! I hope it will be offered again so that my friends and family can get involved."

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: 4.8/5 Stars



- 1 Star = 0.8%
- 2 Stars = 0.8%
- 3 Stars = 2.4%
- 4 Stars = 14.6%
- 5 Stars = 81.4%

"I applaud Norfolk County for this program. Every household should have one of these devices. I would support tax money being used to supplement more households owning one of these devices to reduce waste going into landfills."

"Thank you for offering this opportunity. We are happy to use it regularly. Other municipalities should also pilot this. Great work!"

"I thought the Food Cyclor was excellent. I was able to get rid of vegetable/fruit scraps, eggs shells, bones, etc.etc. I was delighted with the FoodCycler and the program. Good Job!"

"Thank you very much for supporting this!"

Pilot Participant Comments

"The machine was a bit finicky and really did need a "diversified diet" as suggested in the manual. If you put too much of one thing in it would clog and fail to properly function. We did not process any unapproved items but at 30% strawberry waste, it turned to fruit leather and clogged the machine. I had to soak it for two days to loosen it up and make it function again."

"My unit is definitely not large enough. I can run it almost daily and still need to keep a second bucket on reserve."

"May need a bin or something at the dump so people who live in apartments etc. with nowhere to use the material are able to drop it off."

"I love the FoodCycler. I'm just not sure what to do with the compost afterwards. Right now, it's just in a bucket in the garage. Also, if I had to do it over, I would get the bigger one."

"I am not sure how many families would be able to afford the FoodCycler if they needed to purchase it. I feel it would be more viable at a more subsidized cost."

"We think some people would participate; however, the cost to them (with no tax increase) would have to be very minimal. I don't think many would want or could afford to pay the \$300 we paid."



Pilot Participant Comments

"Highly viable solution to reducing waste in the municipality. Affordability may be a concern for some residents, however, given the significant reduction in the curb side pickup that would result, from our experience over the 12 weeks, it would be significantly easy to demonstrate a business case for a large-scale rollout of the product with a larger or complete subsidization, against the savings generated from a reduced curb side pick up cost. This is particularly considering food waste adds the greatest volume and weight to garbage hauling."

"More innovation like this please! This has made such a difference to our household waste; most notably as we haven't been able to use it for the past few days due to a part issue (currently being sorted by FoodCycler, who have been amazing)."

"I think the FoodCycler is excellent for this area because of all the wild animals in the area. Putting out green bins would definitely need animal-proof bins to store the waste in."

"We are very happy with the FoodCycler. Better than curbside collection of green bins. It's less messy and smelly and avoids the need to purchase compostable plastic bag liners for the green bin."

"We just found it amazing . We started cautious to make sure everything we put in would be reduced but are so impressed by how much we were actually throwing away. So glad we found out about this."

"It is the most sensible way to manage food waste. Really love it. Easy to use. Great by-product to reuse in the garden. Not buggy or smelly."

"Easy to use and great communication during the pilot project."

"I am 100% in favor of this food waste solution for the municipality."

"I really enjoyed it. Hope more people get on board."



Program Recap

Recap

- 41 MT of food waste diverted from landfill/year from the 150 FoodCyclers in the pilot program
- Residents reported a 0.6 **bag reduction per week which equals 31.2 bags per household per year** of food waste diverted from the landfill.
- As a result of this program, 78% of participants are now motivated to waste less food.
- **98%** 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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