



# FoodCycler™

## On-Site Organics Diversion Program

Prepared for:  
Augusta Township  
January 9, 2024

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

120  
Municipal  
Partnerships  
...and counting!

canoe  
APPROVED SUPPLIER

Canada

Deloitte  
Technology Fast50

Sage

Breville

Vitamix

Sobey's

impact  
canada

Apple

Canada  
Agriculture and  
Agri-Food Canada

BGIS

THE OUTDOOR  
LEARNING STORE  
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eco schools  
écoécoles  
CANADA

# Trusted Canadian Solution

From Coast to Coast to Coast



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



# Pilot Program Recap

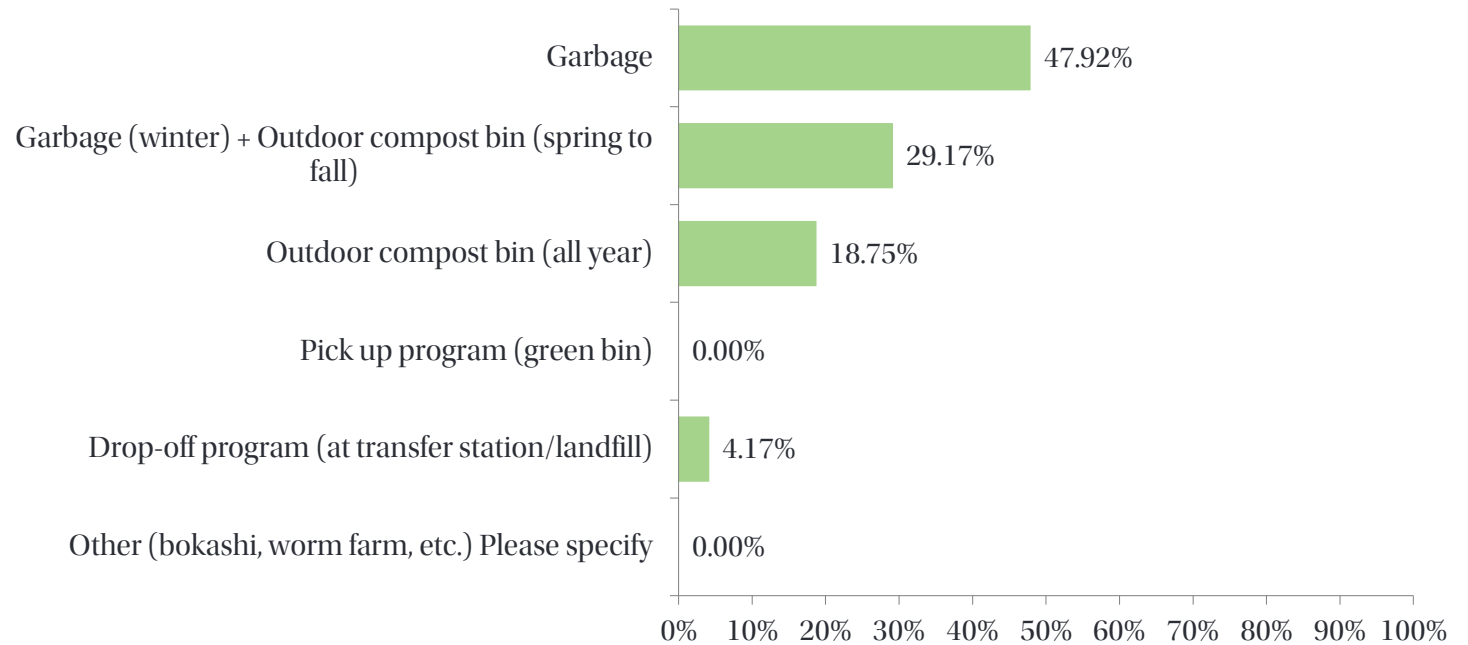
- With support from Impact Canada's Food Waste Reduction Challenge, a pilot program was run in Augusta Township that included 50 participating households.
- Net cost to the Municipality was \$5,000 + Shipping + HST
- Program ran from September to November 2023
  - Usage was tracked for 12 weeks to calculate total waste diversion.
  - Participants completed a survey to provide data and feedback.



# Pilot Program Results

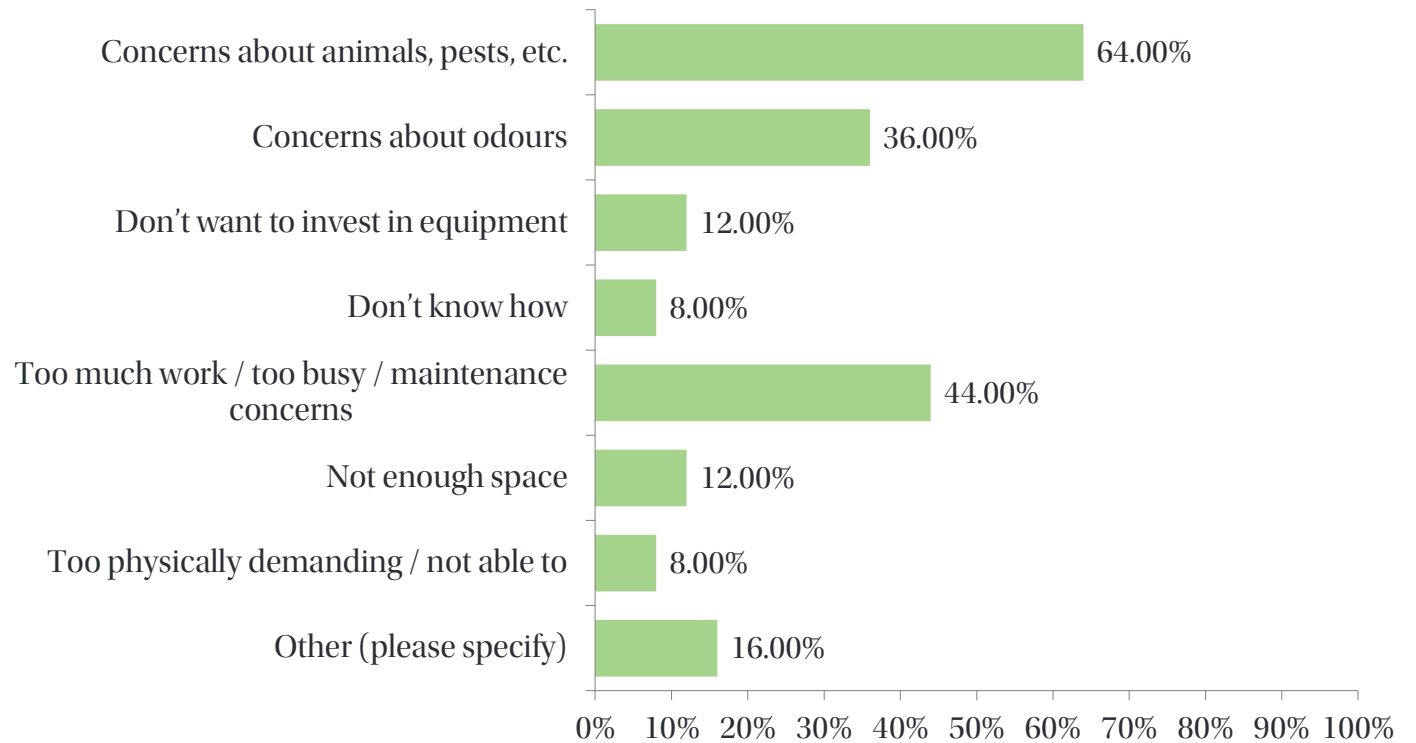
48 responses collected out of 50 participants (96%)

- 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?



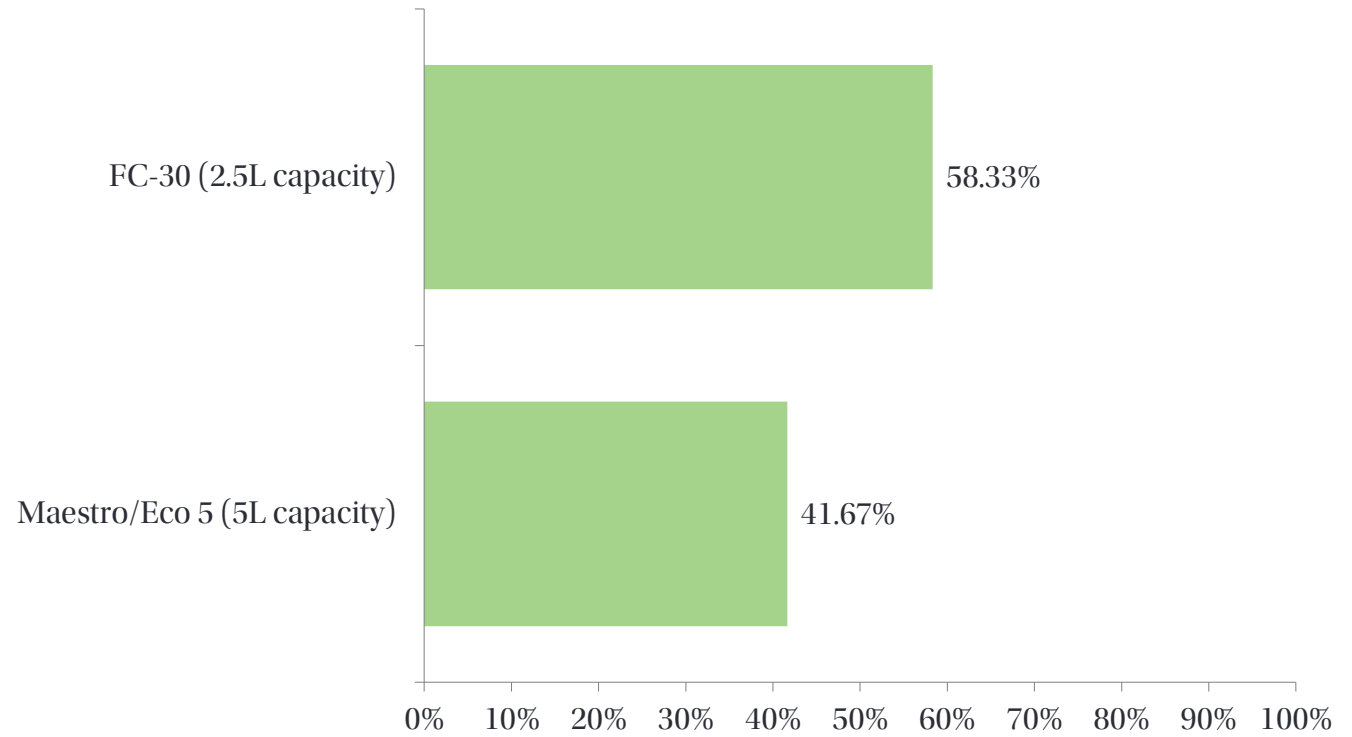
# Pilot Program Results

## Why don't you compost?



# Pilot Program Results

Which device do you have?



## Pilot Program Results

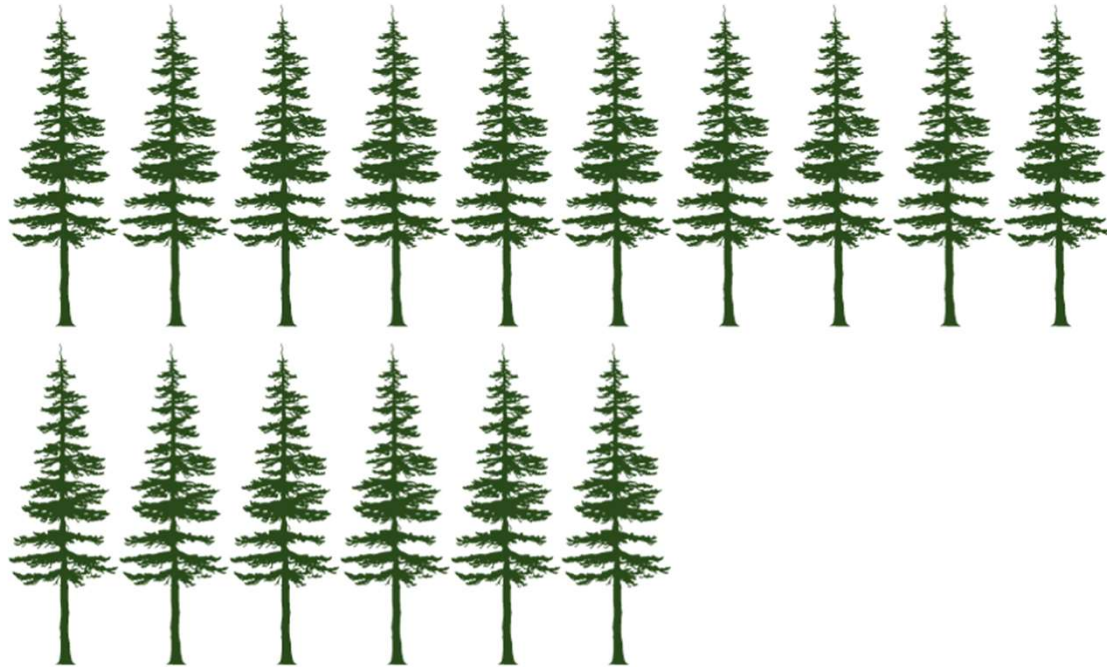
- Average of **3.09 cycles/week** for FC-30
- Average of **2.57 cycles/week** for Maestro/Eco 5
  - Equivalent to **~205 kg/year/household**
  - Total of **10.2 metric tonnes (MT)** of food waste diverted from landfill/year from the 50 FoodCyclers in use





# Pilot Program Results

- 50 FoodCyclers in Augusta will divert 13.3 MT CO<sub>2</sub> equivalents per year, the equivalent to carbon sequestered by 15.9 acres of forest each year!



## Pilot Program Results

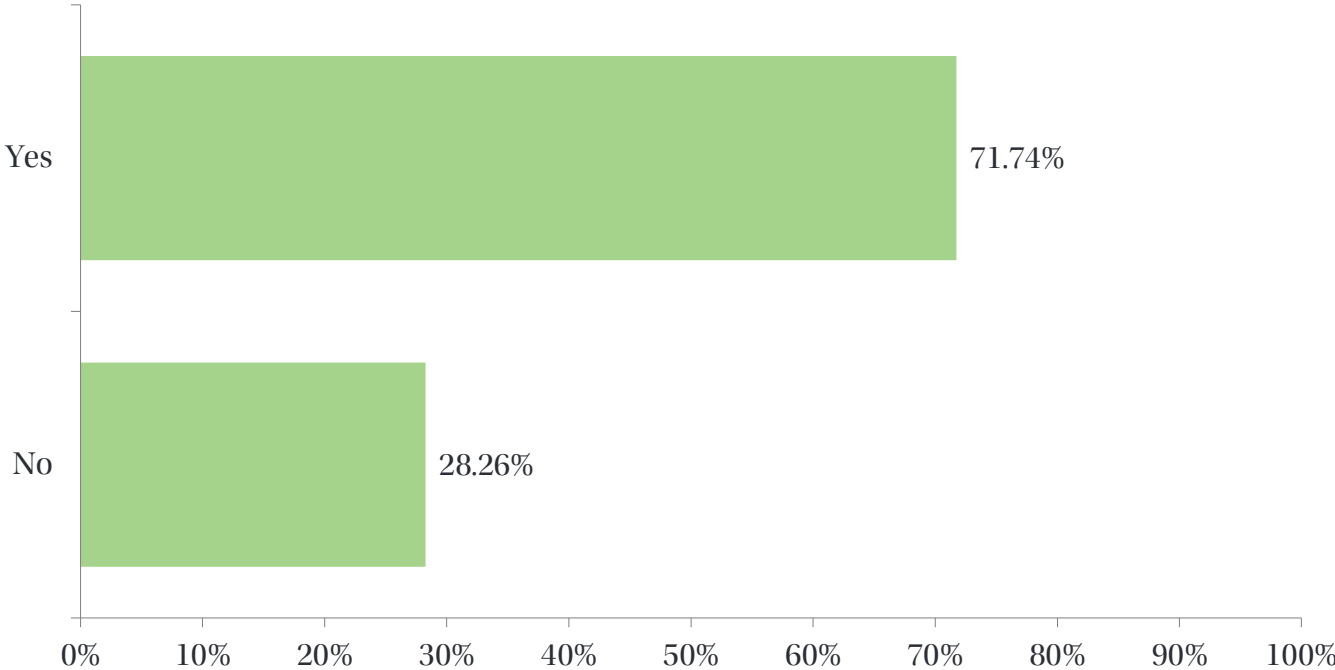
Residents Reported generating 0.46 fewer standard garbage bags per week, a reduction of 23.9 garbage bags per household per year being trucked to local landfills!



*"The foodcycler has allowed us to reduce our total waste by 40-50%. An added benefit is that a trip to the transfer station is not needed weekly as the garbage does not "rot" since there is no food in the bags. We can go 2-3+ weeks between trips (we have an enclosed space to store the waste away from pests)."*

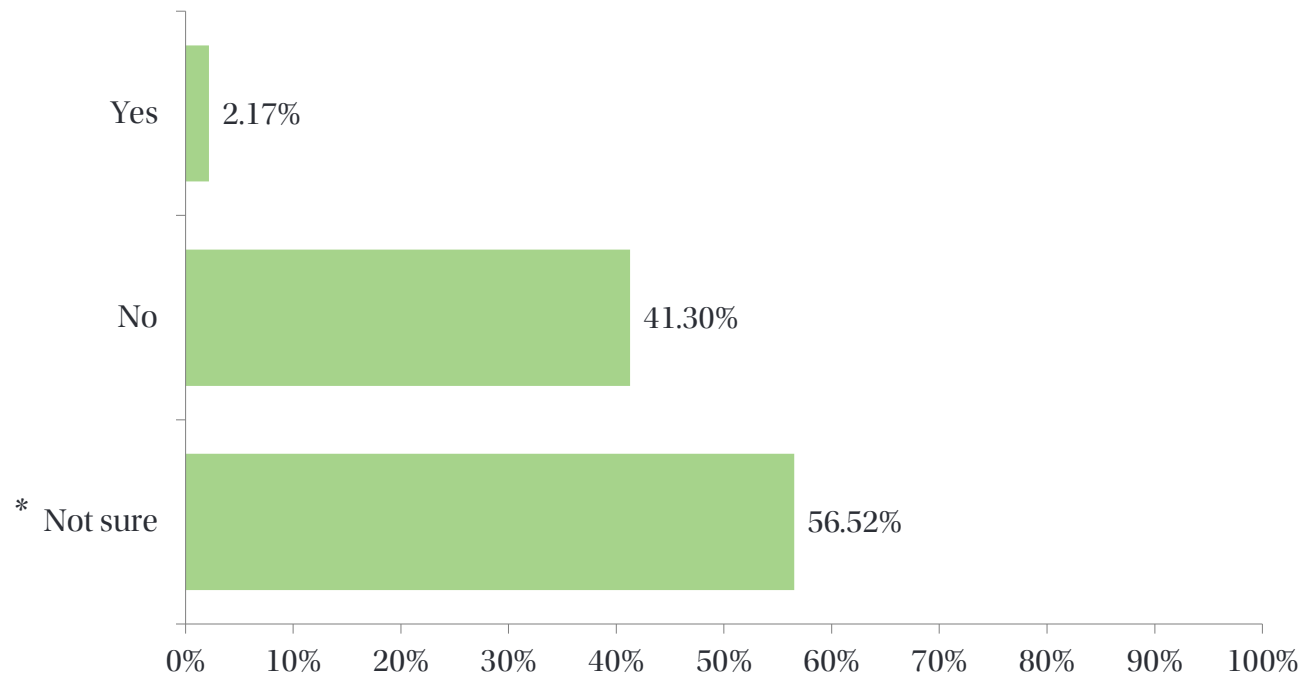
# Pilot Program Results

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



# Pilot Program Results

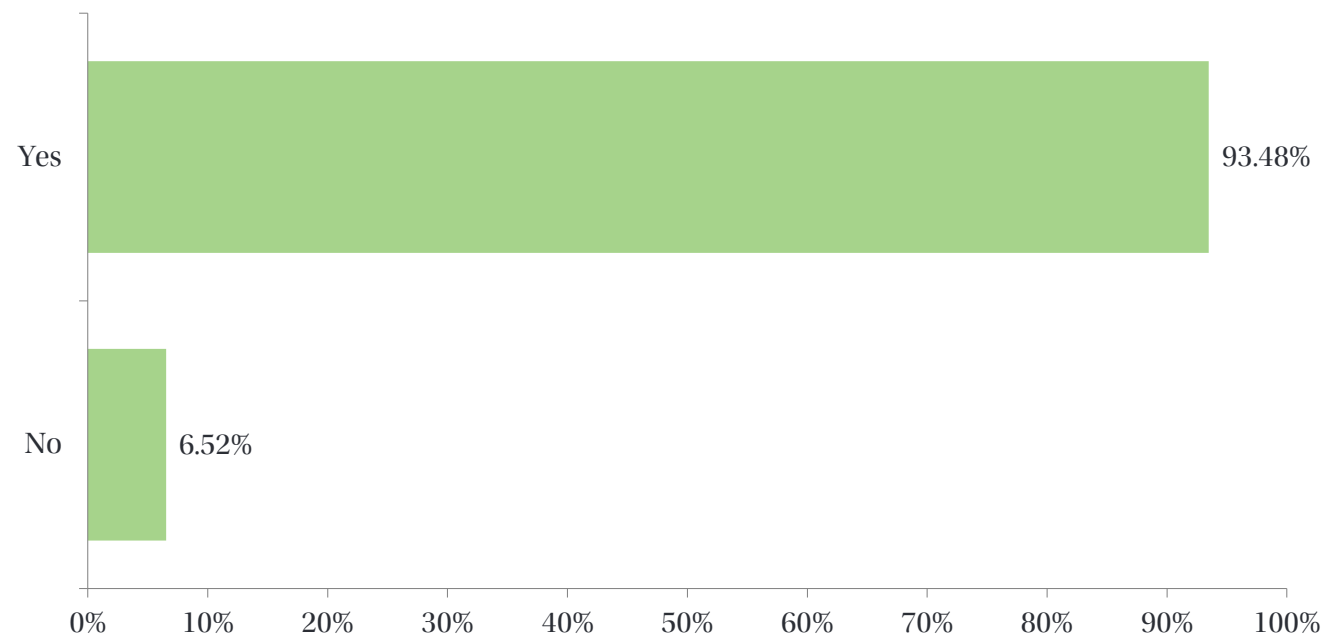
Did you see increased electricity costs during the time you used the FoodCycler?



\*Suggests that increased electricity costs are negligible/acceptable

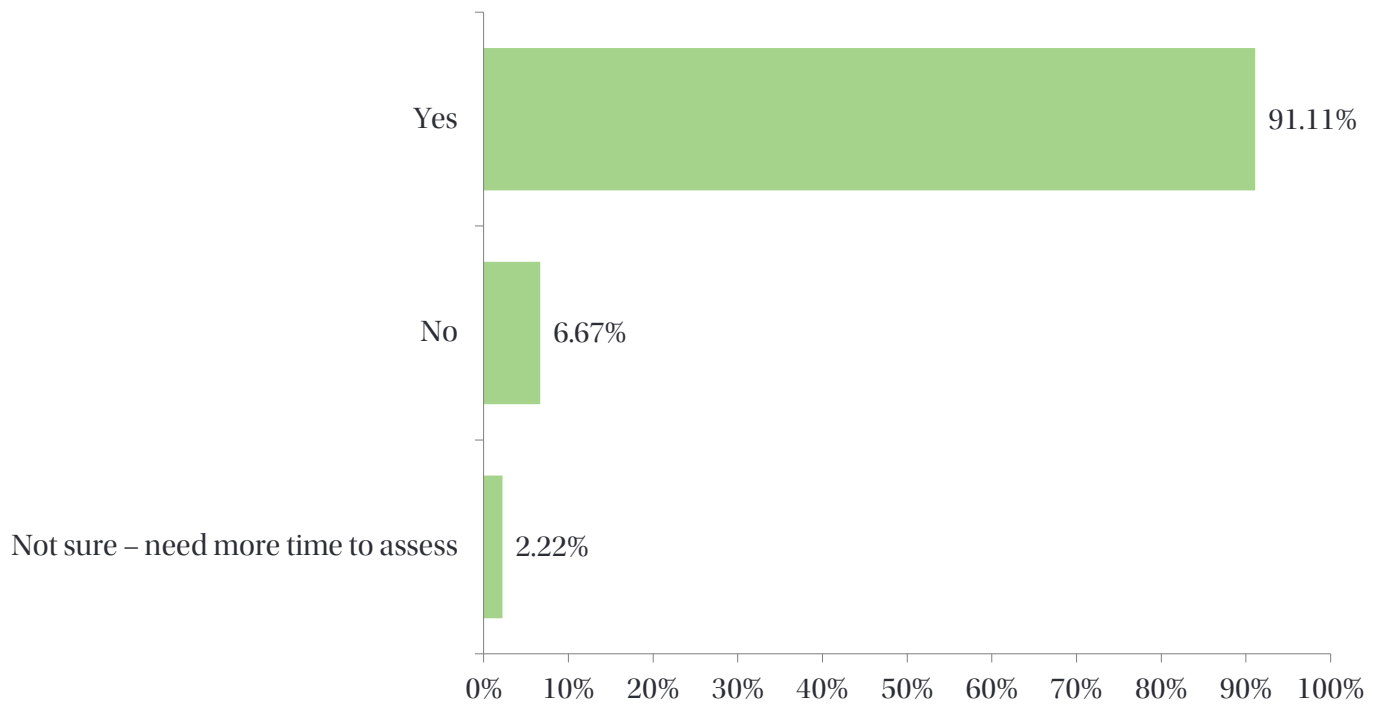
# Pilot Program Results

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?



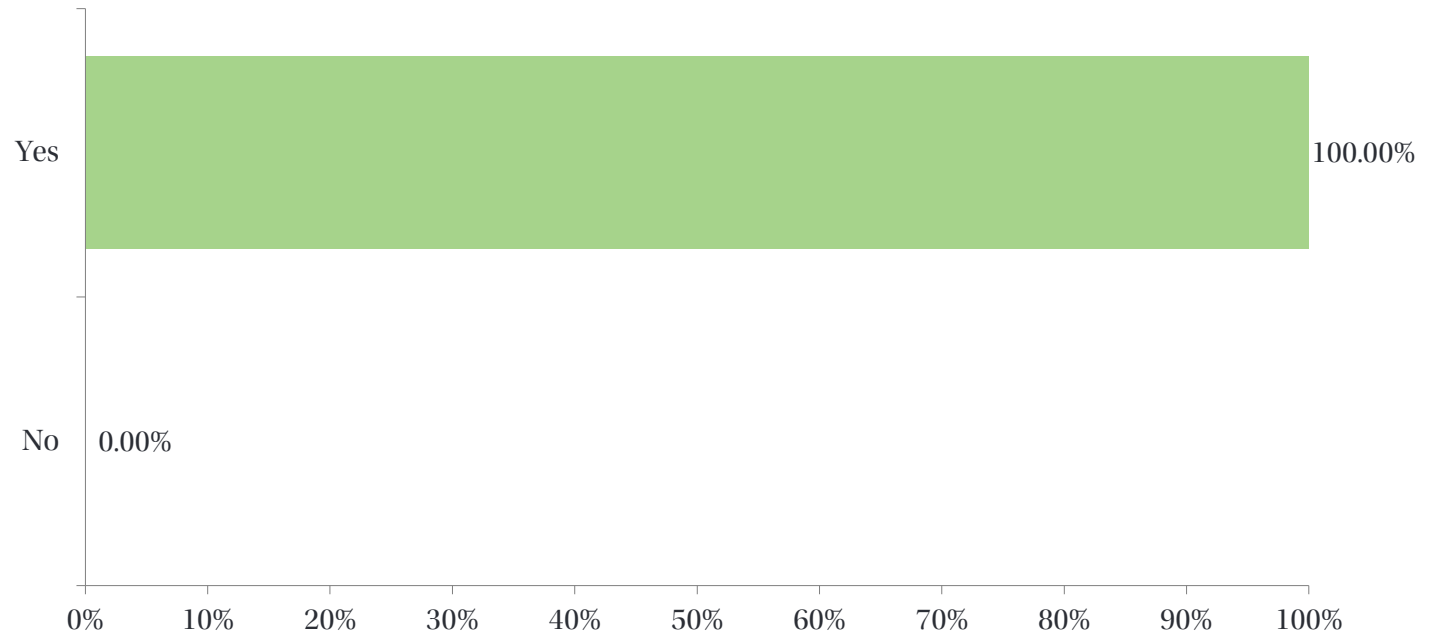
# Pilot Program Results

Would you recommend the FoodCycler to others?



# Pilot Program Results

Will you continue using the FoodCycler after this pilot?



*"Loved it and will continue to use it! We are storing the soil/compost to be used in the spring."*

*"Very happy with it, works great and nice to be able to composted food waste without the large bin in the back yard. "*

*"I have enjoyed using the food recycler. I have always composted using a plastic kitchen compost bucket, but I find with this program there is less smell. Less mess. I am looking forward to using the compost in my gardens in the spring."*

## 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%
- 4 Stars = 24.4%
- 5 Stars = 71.1%

*"I think this concept is brilliant. I already composted, but this is much more efficient in turning food waste into useful garden soil amendment."*

*"Very pleased with the unit and the program."*

*"Absolutely impressed with the machine and very happy we were able to participate in the program."*



## Pilot Participant Comments

“If there was a bin at the transfer station for our product instead of throwing it out or finding someone else's compost bin to put it in. If I had a home compost I wouldn't need the food cyclor, but I feel bad throwing it out, and it isn't always convenient to hold onto it until I can take it to someone else's (we don't have a lot of extra space to store items). I would also note that I found myself saving my food scraps from my lunch (at work) like eggshells to bring home and put in the foodcyclor rather than throwing them out at work, so I'm more aware of my garbage and better ways to dispose of items. We also noted that the weeks where we were eating healthier were the weeks we ran our cyclor more, because we were doing more vegetable prep, so we could always tell when we were eating better by our tracking sheet.”

“The discounted price was nice but may still be too high for most people to consider buying vs just taking food waste to the transfer station free of additional charges. More public education on food wastes impacts on landfills can help, however, more incentive to use a foodcyclor can help as most people don't see/understand the impact of food waste.”

““Would have liked a more local Facebook group to discuss the program.”

“Having the municipality have filters to sell on site, instead of having to order and pay delivery fees would probably be more efficient (can access right away) less costly and more environmentally friendly.”

“Was pleasantly surprised that running during peak hydro hours, my hydro bill was unaffected - also found that some items composted quite quickly.”



## Recap and Next Steps

### Recap

- **10.2 MT** of food waste diverted from landfill/year from the 50 FoodCyclers in the pilot program
- Residents reported a reduction of **0.46 bags per week which equals 23.9 bags/resident/per year** of food waste diverted from landfills.
- **100%** 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

### 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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