



# FoodCycler™

## On-Site Organics Diversion Program

Prepared for:  
District of Mackenzie  
Feb 26, 2024

Presented by:  
Food Cycle Science  
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# 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

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eco schools  
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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 expansion was run in the District of Mackenzie that included 100 participating households.

○ Net cost to the Municipality was \$10,000 + shipping+ tax

○ Program ran from September to December 2023

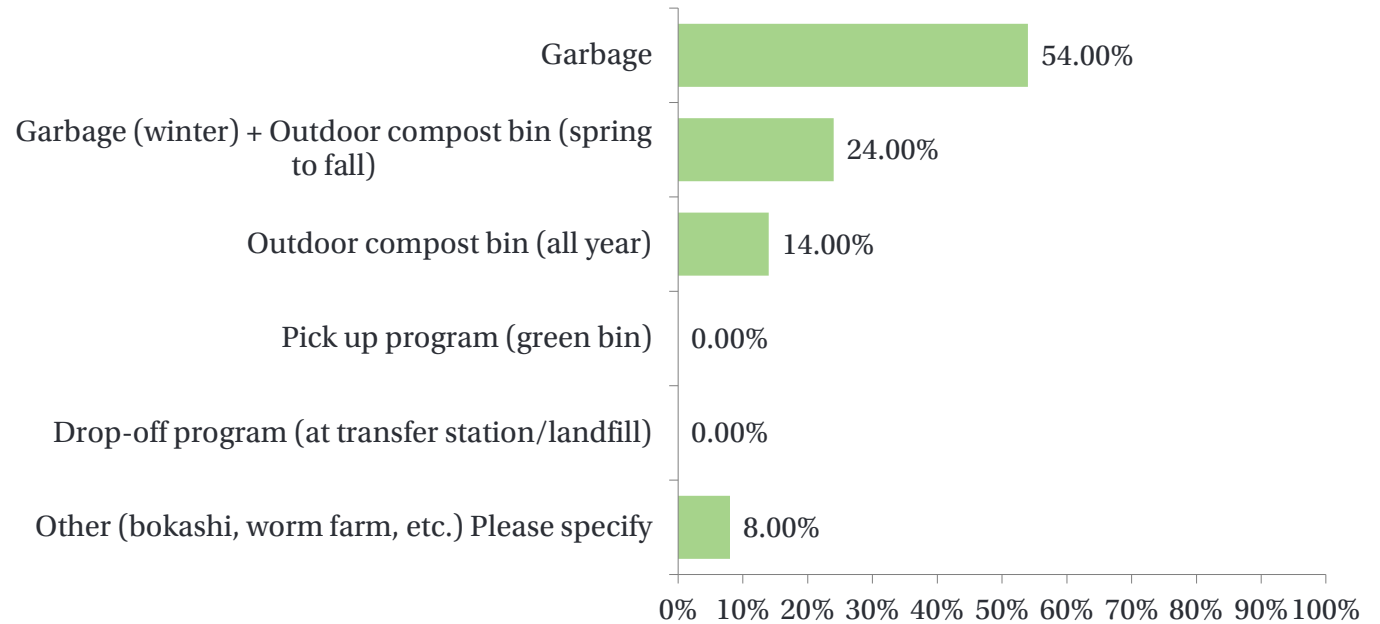
- Usage was tracked for 12 weeks to calculate total waste diversion.
- Participants completed a survey to provide data and feedback.



# Pilot Program Results

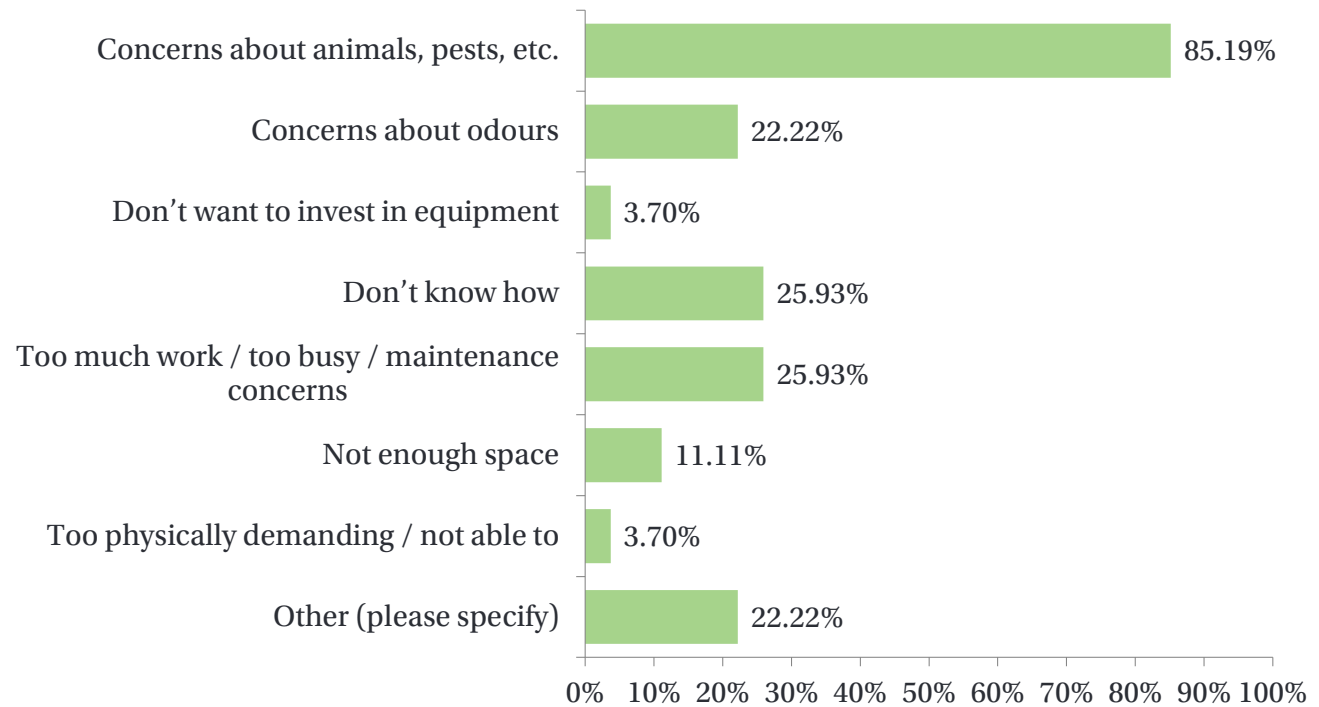
65 responses collected out of 100 participants (65%)

- 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

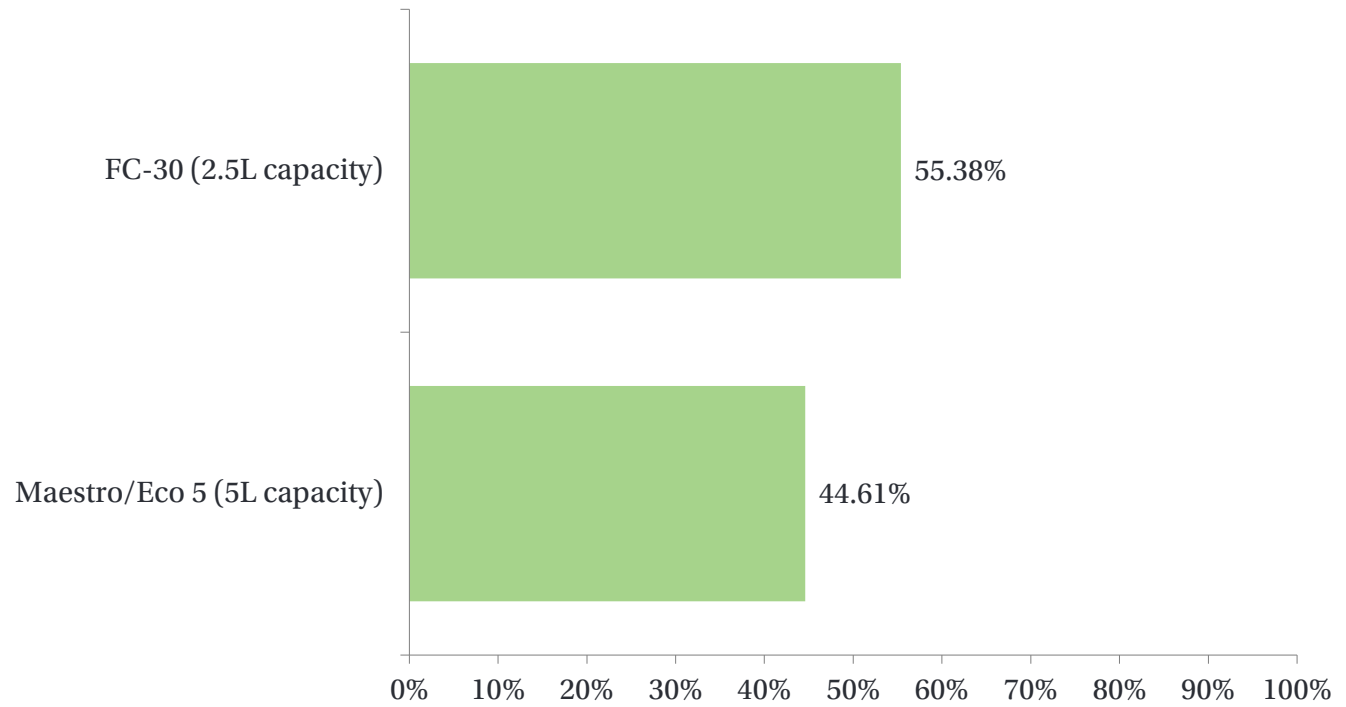
## Why don't you compost?



*"I have always composted but found the food cyclers very convenient as I didn't need to take my bucket out to the compost bin especially if there was snow."*

# Pilot Program Results

Which device do you have?



## Pilot Program Results

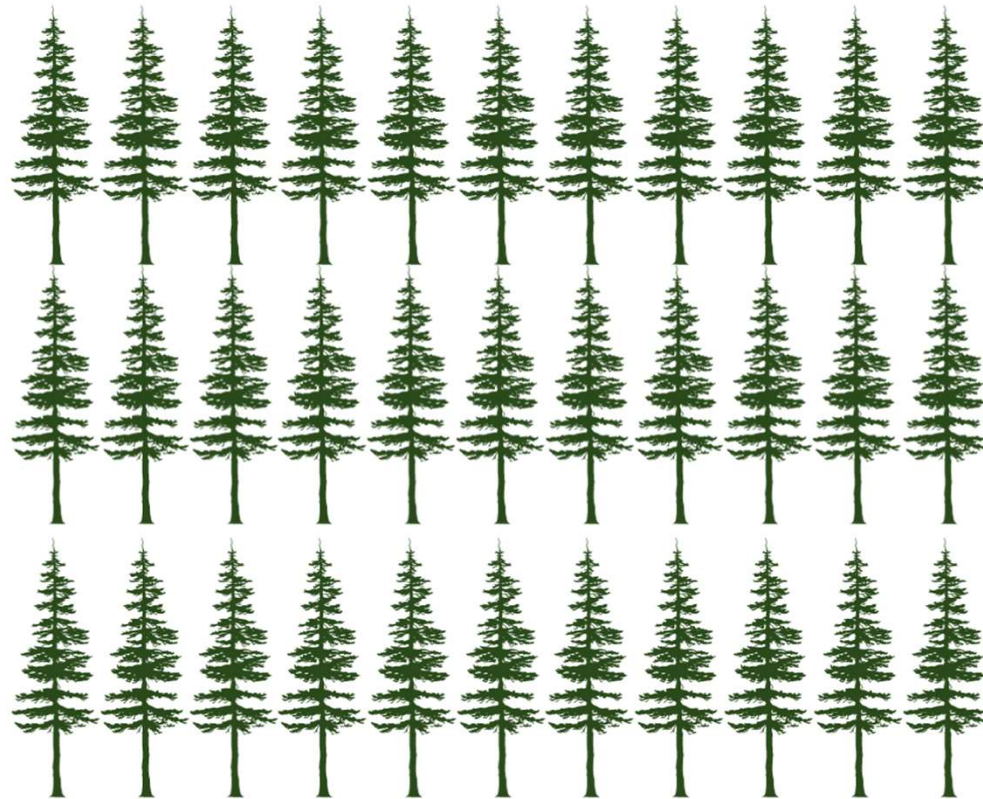
- Average of **3.19 cycles/week** for FC-30
- Average of **3.36 cycles/week** for Maestro/Eco 5
  - Equivalent to **~247.7 kg/year/household**
  - Total of **24.7 metric tonnes (MT)** of food waste diverted from landfill/year from 100 FoodCyclers in use





# Pilot Program Results

100 FoodCyclers in the district will divert 32.2 MT CO<sub>2</sub> equivalents per year, the equivalent of sequestering carbon from 38.4 acres of forest



## Pilot Program Results

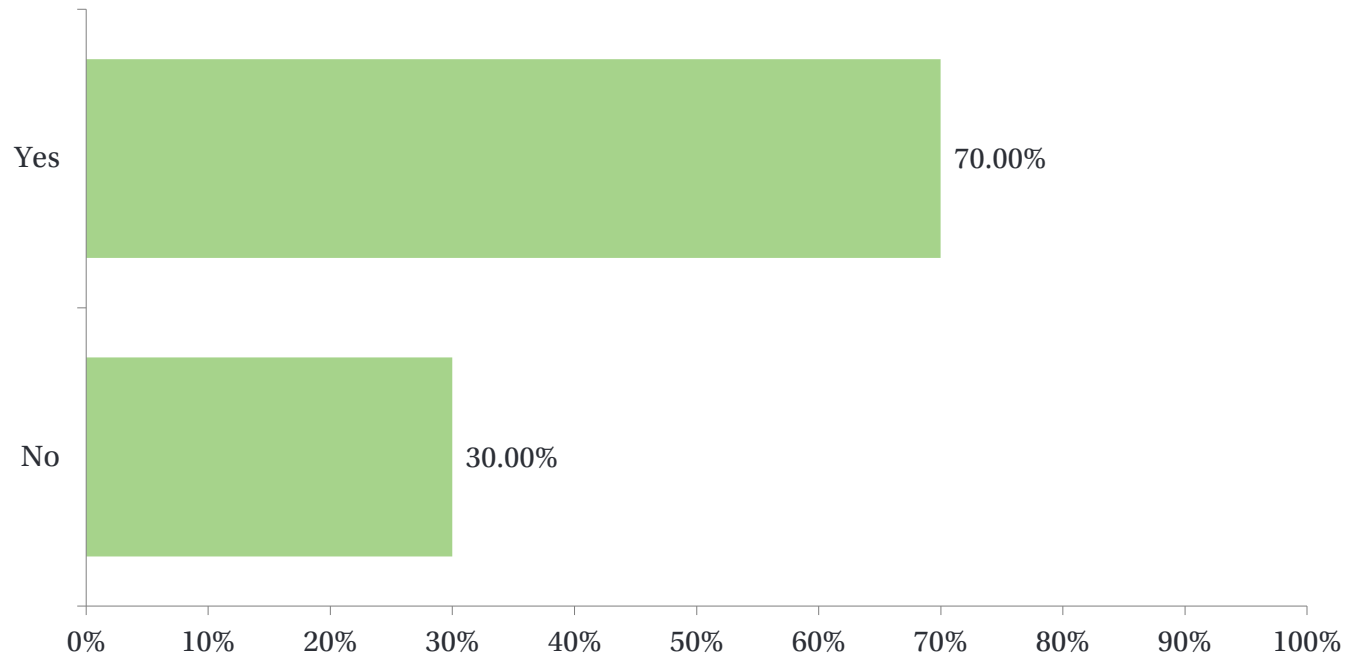
Residents Reported generating 0.71 fewer standard garbage bags per week, a reduction of 36.8 garbage bags per household per year being trucked to local landfills!



*"Our household garbage was cut by half at least and bears were less of a concern!"*

# Pilot Program Results

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

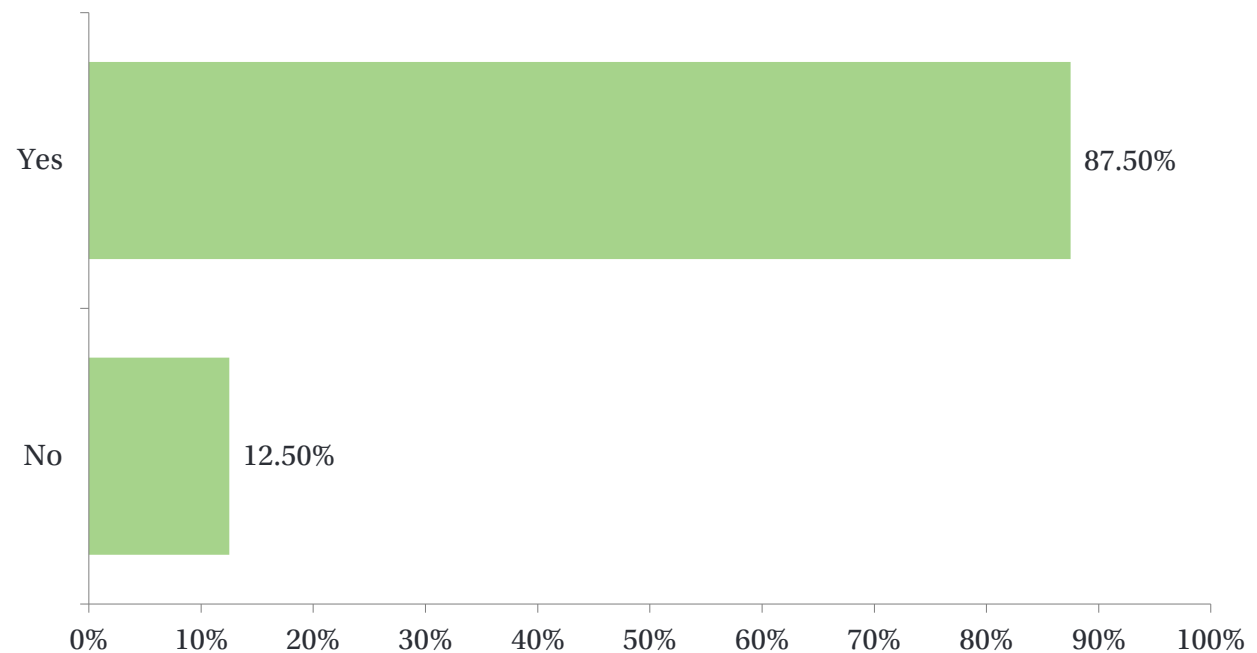


*“Really makes you aware of what you are throwing away.”*

*“It is amazing how little product is left over after a cycle. The food waste is reduced by such a significant amount. I am looking forward to the increased soil I will have by springtime.”*

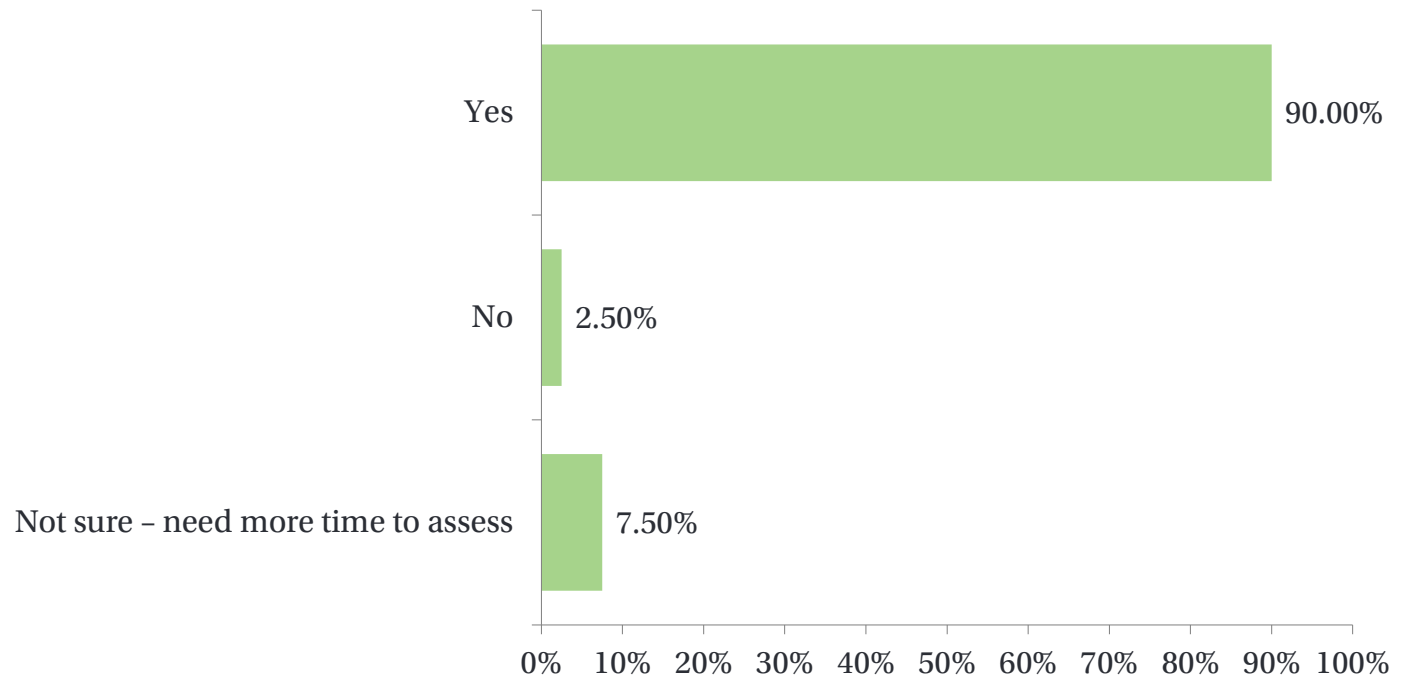
# Pilot Program Results

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?



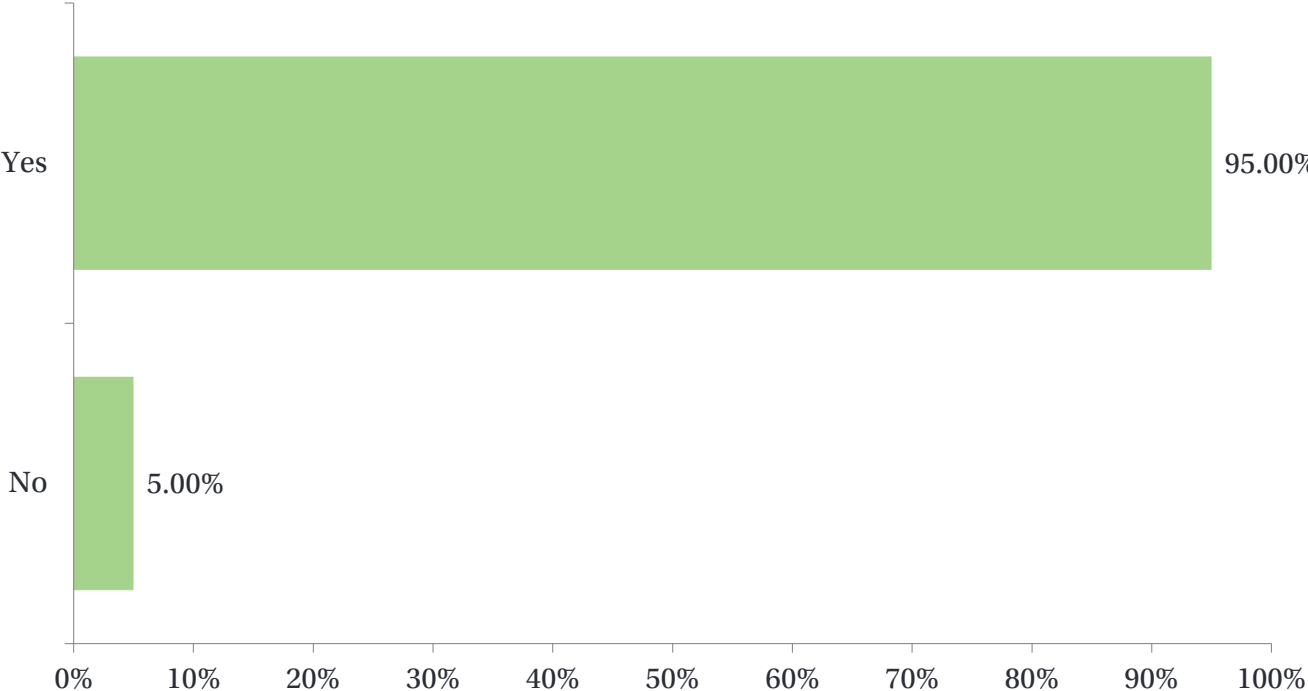
*"I bought another Food Cycler for my parents, and they are really enjoying it too."*

*"Great option for those with limited space for traditional composting, easy to use, loved it!"*

*"Would recommend! Have sent the info to a friend on another council - this whole project is great!"*

# 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: 4.7/5 Stars



- 1 Star = 0%
- 2 Stars = 0%
- 3 Stars = 2.5%
- 4 Stars = 17.5%
- 5 Stars = 80%

*"I think it's innovative and I hope to see the program in more municipalities."*

*"Offering the Food Cyclor for an affordable price was an awesome idea. I didn't have a bear in my carport since I got the food cyclor."*

*"I think this is a good way to get everyone involved and help with less landfill waste."*

## Pilot Participant Comments

“This is a great program. I think there are a number of advantages to the Food Cycler for Mackenzie (and all northern communities). First, composting in the winter is very challenging given how long the winter is and the amount of snow you have to clear to get to your compost. In addition, the large number of black bears that come during harvest time make it difficult to compost many things such as fruit cores..”

The Food Cycler allows for safe composting of all food products even during the height of bear season.”

“It’s fine, but a significant financial investment. We know people who didn’t participate because it was too expensive. Also finding things to do with the foodcycler byproduct becomes a tiresome chore after a while.”

“I would like to be able to come to the district or locally purchase the replacement pieces .”

“Need to get this information out as to why we are doing it and how easy it is. Would be great for classrooms and kids to learn to teach parents!”





## Program Recap

### Recap

- 24.7 MT of food waste diverted from landfill/year from the 100 FoodCyclers in the pilot program
- Residents reported a **0.71 bag reduction per week** which equals **36.8 bags/household/per year** of food waste diverted from landfills.
- **95%** 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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