



FoodCycler™

On-Site Organics Diversion Program

Prepared for:
RM of St. Andrews
November 20, 2023

Presented by:
Food Cycle Science
Brittany Clarke

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



107 Canadian Municipal Partners
... and counting!

Pilot Program Recap

○ With support from Impact Canada's Food Waste Reduction Challenge, a pilot program was run in RM of St. Andrews that included 72 participating households.

○ Net cost to the Municipality was \$5000 + tax + shipping

○ Program ran from June to August 2023

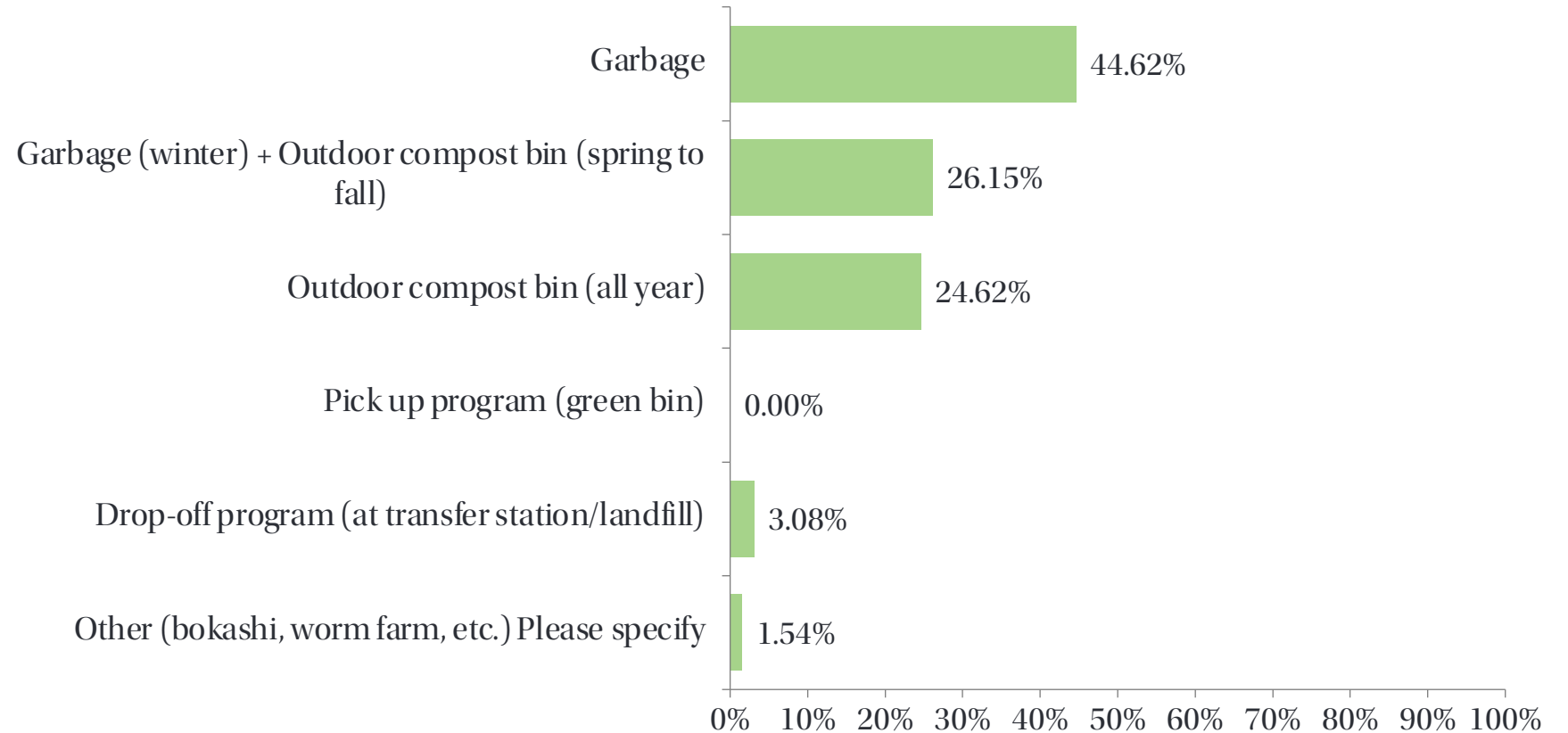
- Usage was tracked for 12 weeks to calculate total waste diversion.
- Participants completed a survey to provide data and feedback.



Pilot Program Results

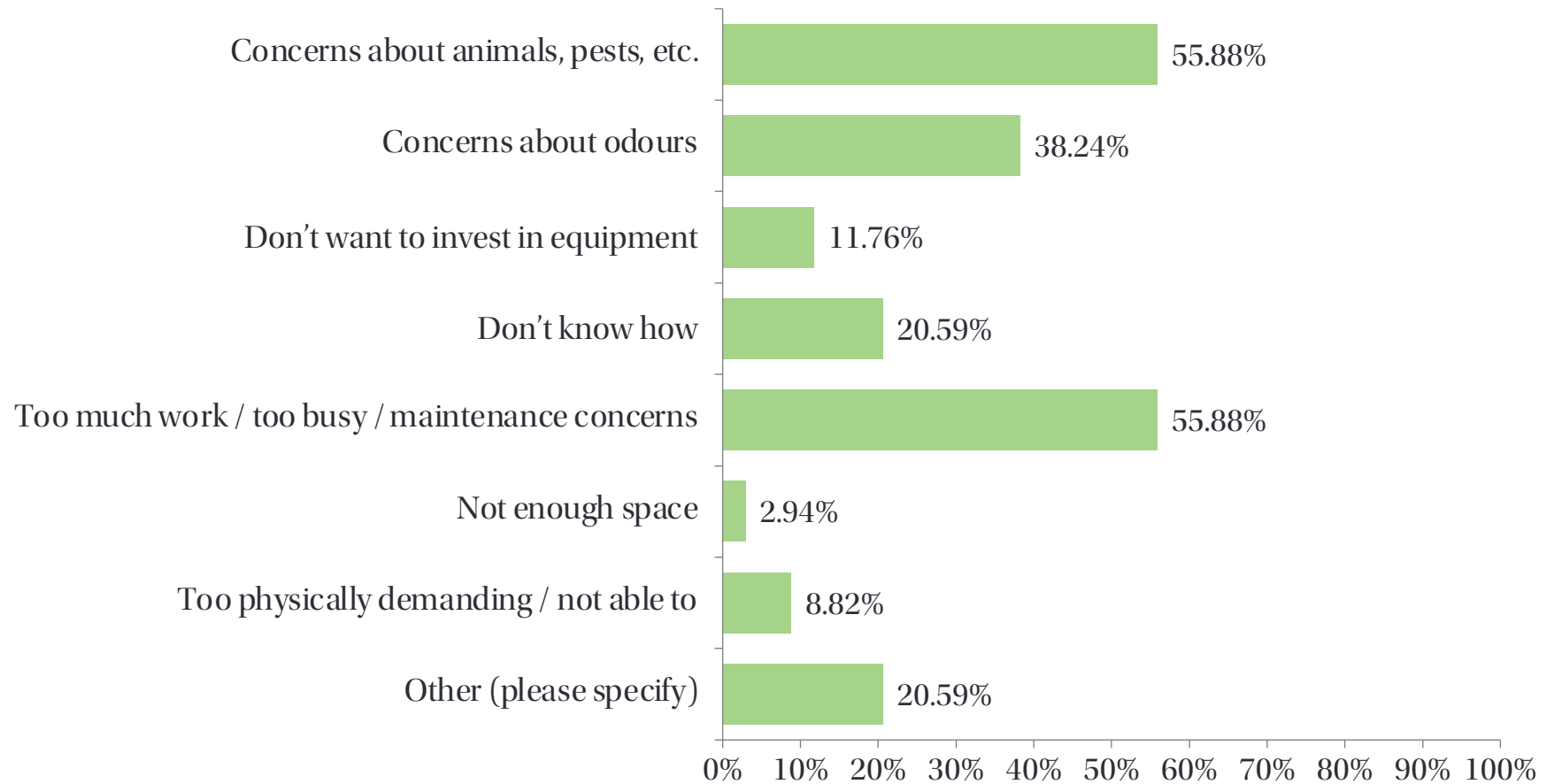
64 responses collected out of 72 participants (89%)

- How important is greenhouse gas reduction to you? 8.7/10
- How important is waste reduction to you? 8.9/10
- Where does your food waste currently go?



Pilot Program Results

Why don't you compost?

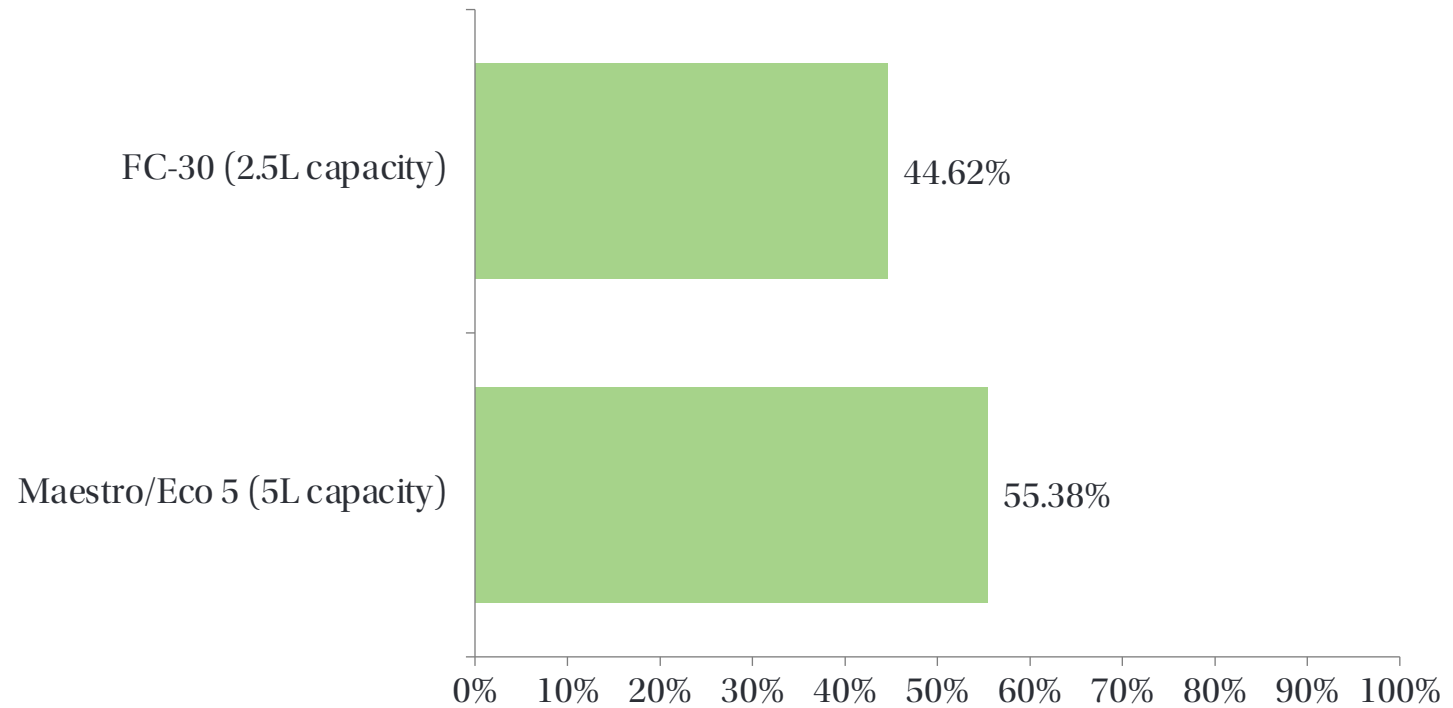


"Appliance very useful particularly in winter time when regular composting not possible. Grinder sensitive to fibrous material."

"We were composting prior to pilot - having Food Cycler made it easier"

Pilot Program Results

Which device do you have?



Pilot Program Results

- Average of **3.38 cycles/week** for FC-30
- Average of **3.69 cycles/week** for Maestro/Eco 5
 - Equivalent to **~290 kg/year/household**
 - Total of **20.98 metric tonnes (MT)** of food waste diverted from landfill/year from 72 FoodCyclers in use
- 72 FoodCyclers in St. Andrews will divert **27.23 MT CO2 equivalents** per year, the equivalent reduction in greenhouse gas emissions of taking 6.1 gasoline-powered vehicles off the road every year!



Pilot Program Results

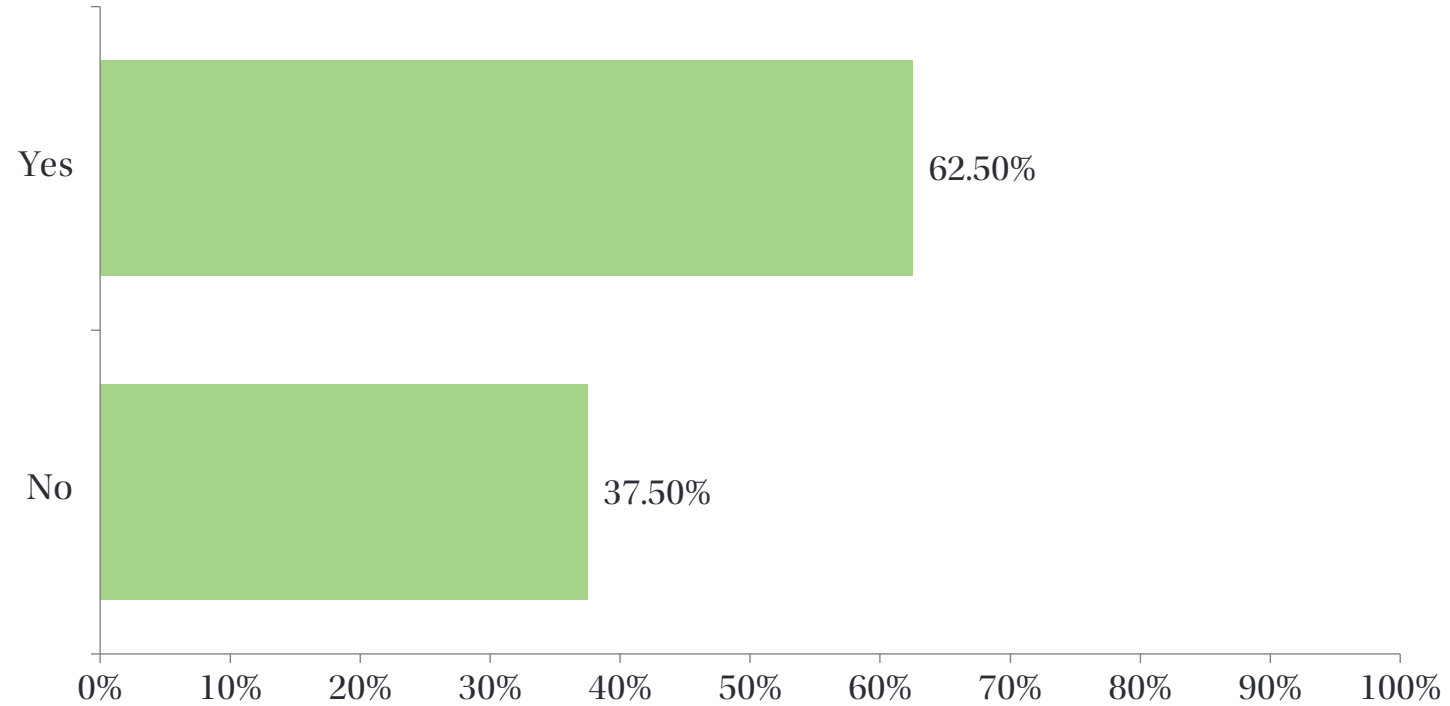
Residents reported generating 0.56 fewer standard garbage bags per week, a reduction of 29.25 garbage bags per household per year being trucked to local landfills!



“Noticed a reduction in waste for sure by using the FoodCycler. While I only went to the landfill once a week, the amount being put into the landfill was less than usual”

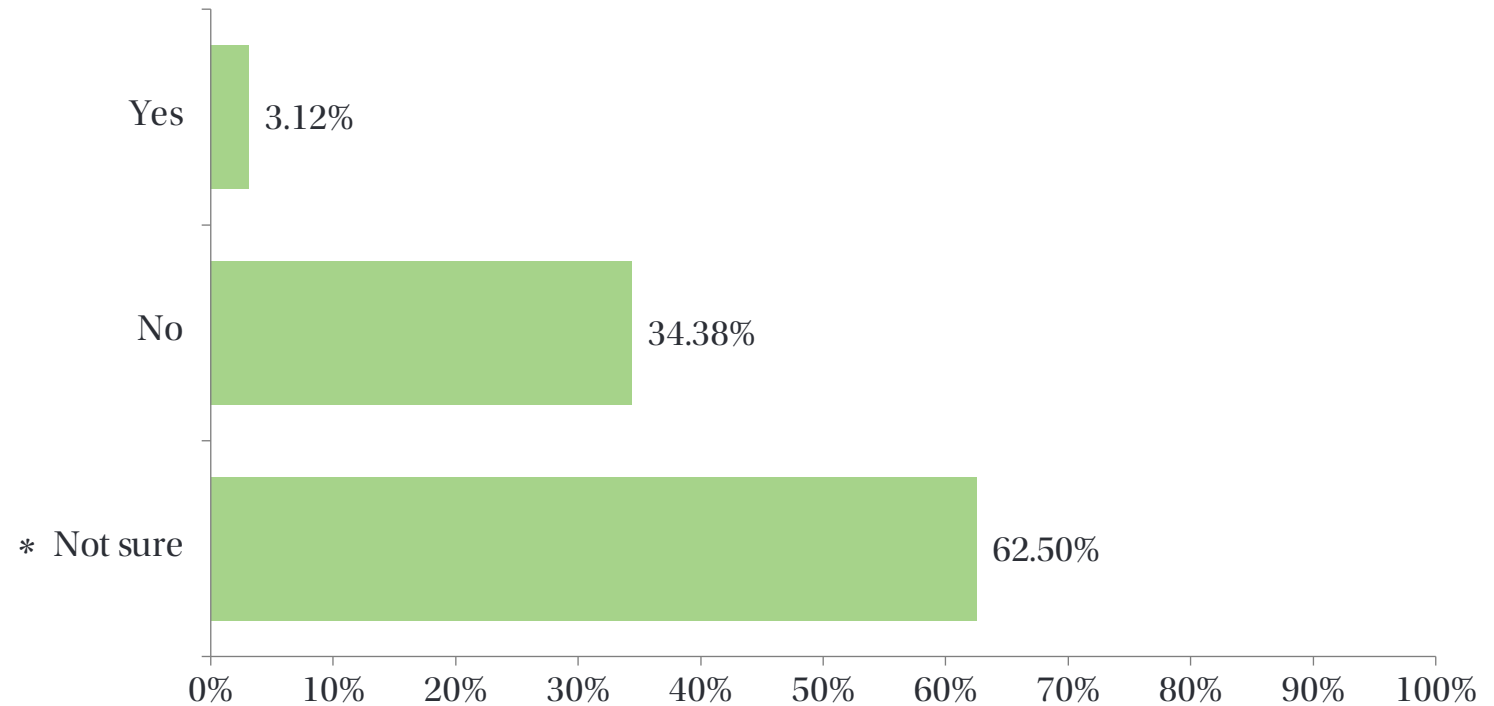
Pilot Program Results

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



Pilot Program Results

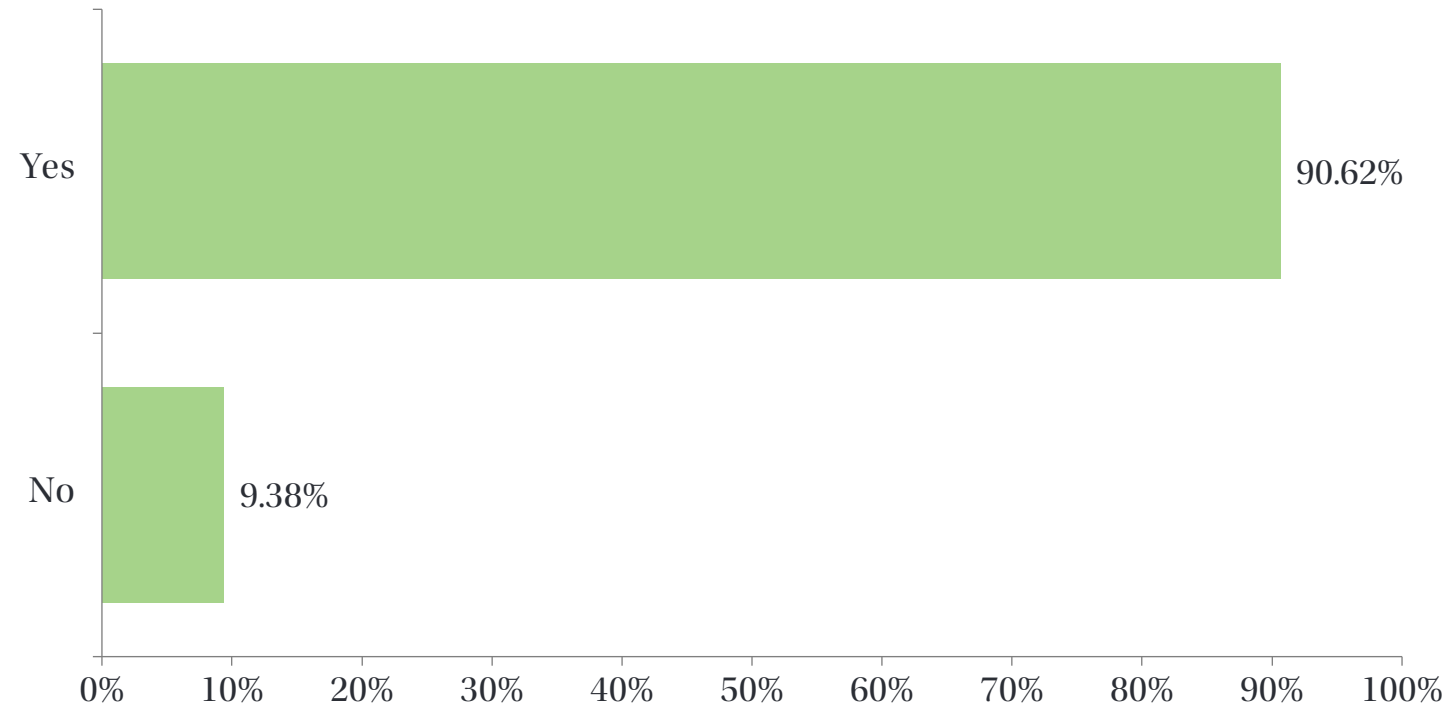
Did you see increased electricity costs during the time you used the FoodCycler?



*Suggests that increased electricity costs are negligible/acceptable

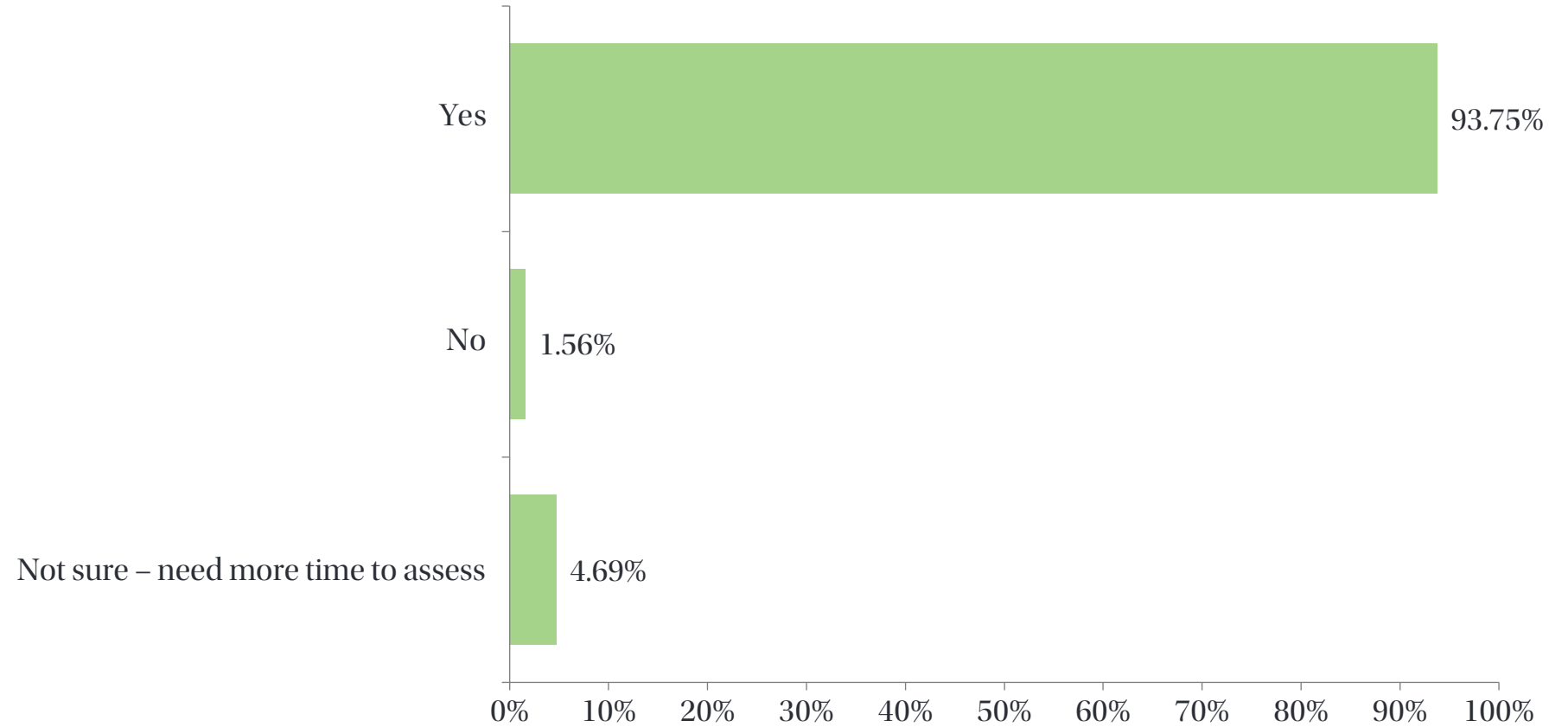
Pilot Program Results

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

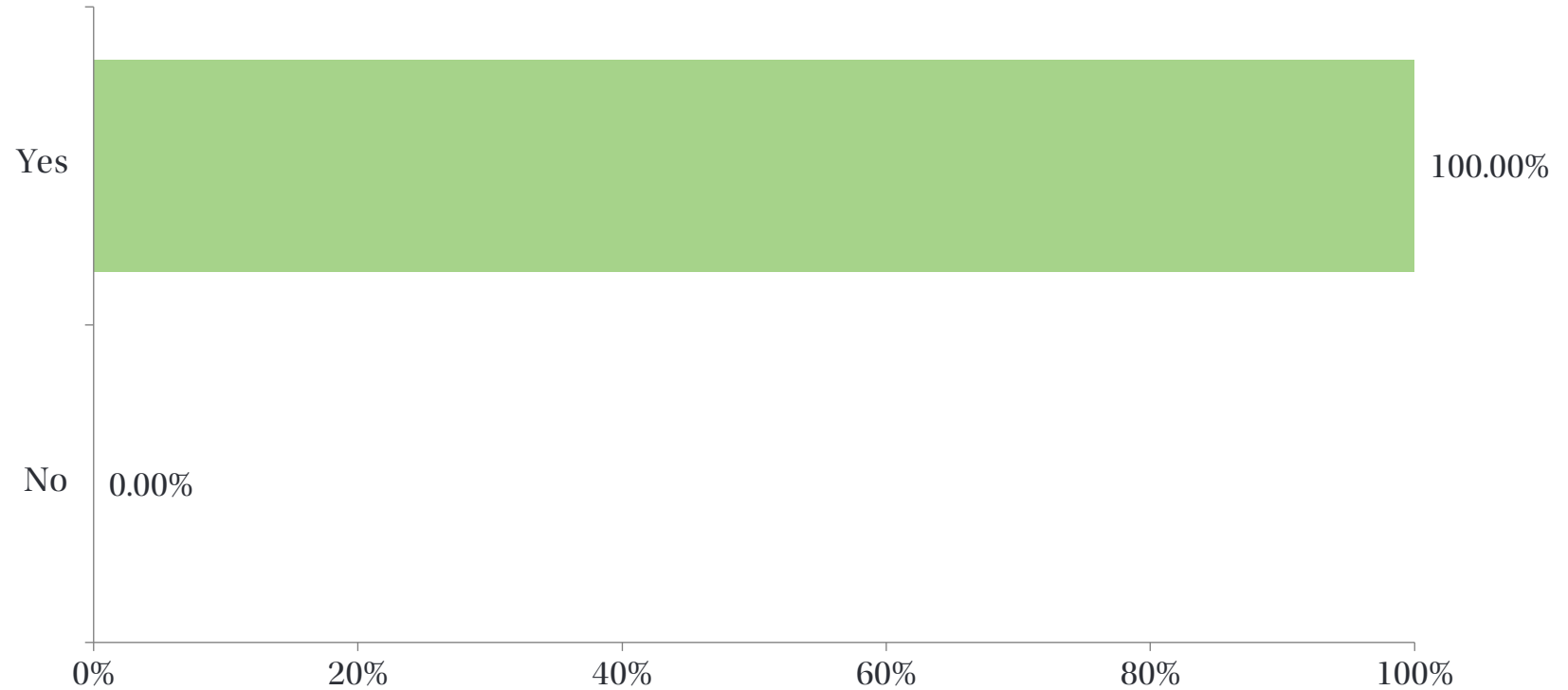
Would you recommend the FoodCycler to others?



"I appreciated the opportunity to be able to have participated in the program. I absolutely love my FoodCycler and recommend it to everyone. I think every household should have one."

Pilot Program Results

Will you continue using the FoodCycler after this pilot?



“Love the product and very glad to have gone with the larger bucket!”

“We love using the FoodCycler. No more household smell of food waste “

Pilot Program Results

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

Average rating: 4.72/5 Stars



- 1 Star = 0%
- 2 Stars = 0%
- 3 Stars = 4.69%
- 4 Stars = 18.75%
- 5 Stars = 76.56%

"We are so happy with this machine. All our friends and family are very interested in it when they visit and we've had no issues with smell. Thrilled we had the chance to be apart of this program! Thank you so much."

"Love the unit!"

Pilot Participant Comments

“Great product a little expensive to purchase it without the help of the pilot program”

“It was a great idea piloting it and if it wasn't for the pilot I would have never purchased one.”

“Too expensive for many residents. A demonstration video to post on the RM website would be good so people could understand what it is and what it does and what it produces after the cycling. It's very exciting and most people would have no idea what the results would look like in the bucket after a cycle. It surprised me.”

“I love using our Foodcycler but have always been a bit more "green" than some neighbours. If the RM were to introduce a way to divert food waste, I think it would need to be easy and convenient to get widespread acceptance. I will keep using my FoodCycler in any case and thank-you for the opportunity to participate in the study.”

“I think this was a great pilot. Whether the municipality were to implement a service by providing FoodCyclers or curb side pick up, it needs to be done!! Thanks!”



Program Recap

Recap

- **20.9 MT** of food waste diverted from landfill/year from the 72 FoodCyclers in the pilot program
- Residents reported a **0.56 bag reduction per week** which equals **29.25 garbage bags/household/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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