



FoodCycler™

On-Site Organics Diversion Program

Prepared for:
Municipality of Kincardine
October 25th, 2023

Presented by:
Food Cycle Science
Jessica Taylor

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



One Hundred Canadian Municipal Partners
... and counting!

Pilot Program Recap

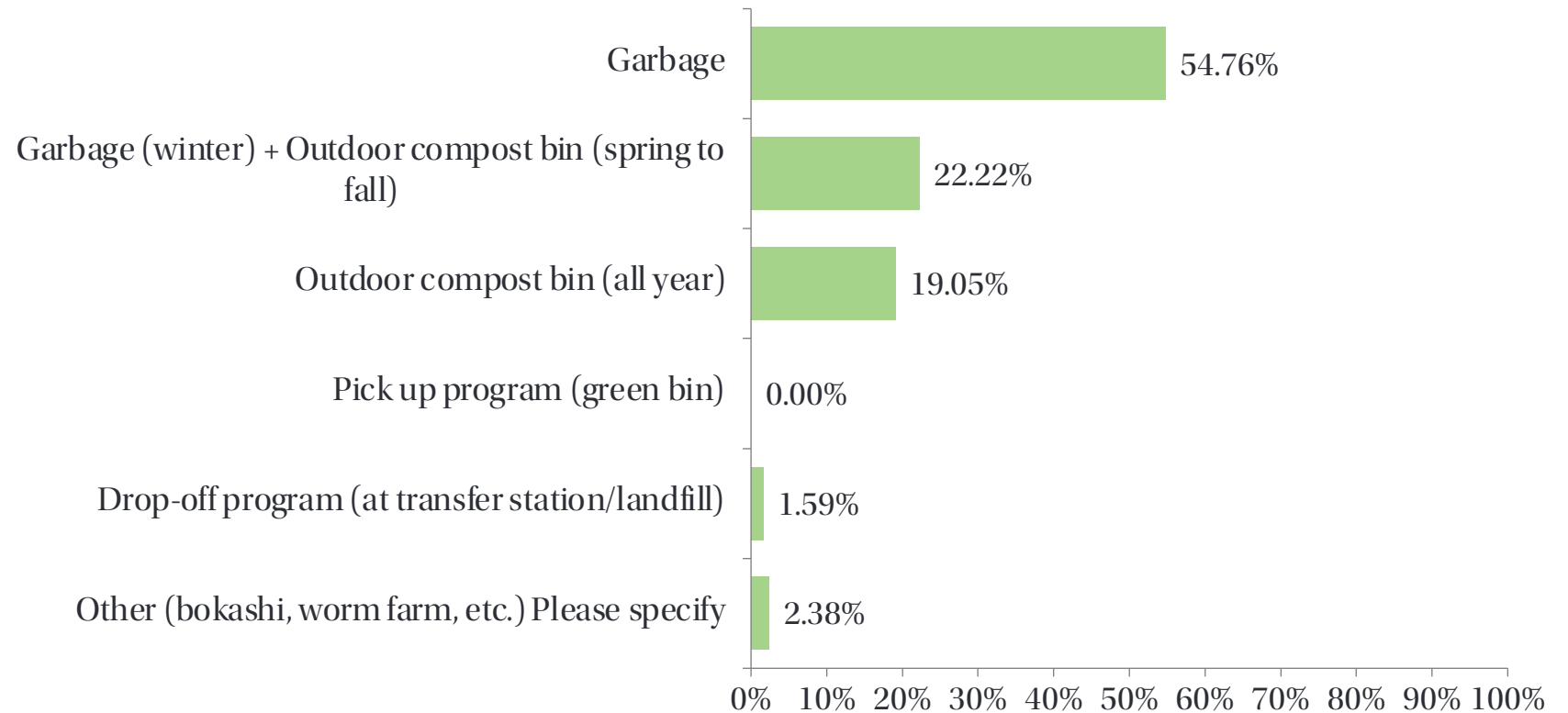
- With support from Impact Canada's Food Waste Reduction Challenge, a pilot program was run in Kincardine that included 210 participating households
 - 140 FoodCyclers subsidized by Kincardine
 - 70 FoodCyclers subsidized by the Municipal Innovation Council, with support from Bruce Power
- Part of a larger County-wide program initiated by the MIC that included 880 participating households
- Net cost to the Kincardine was \$14,000 + Shipping + HST
- Program ran from May - 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

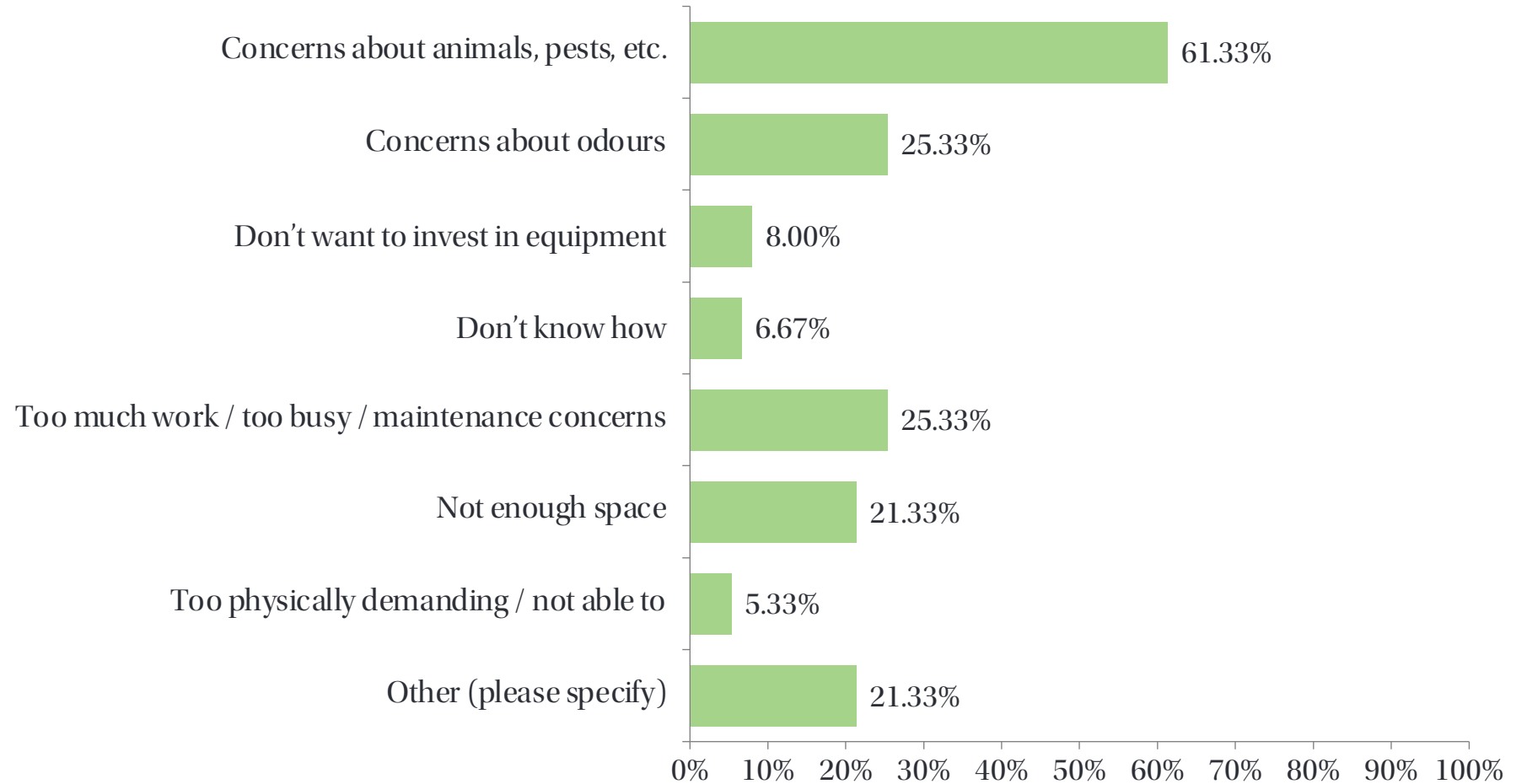
- How important is greenhouse gas reduction to you? 8.67/10
- How important is waste reduction to you? 9.2/10

Prior to using the FoodCycler, how did you dispose of the majority of your food waste?



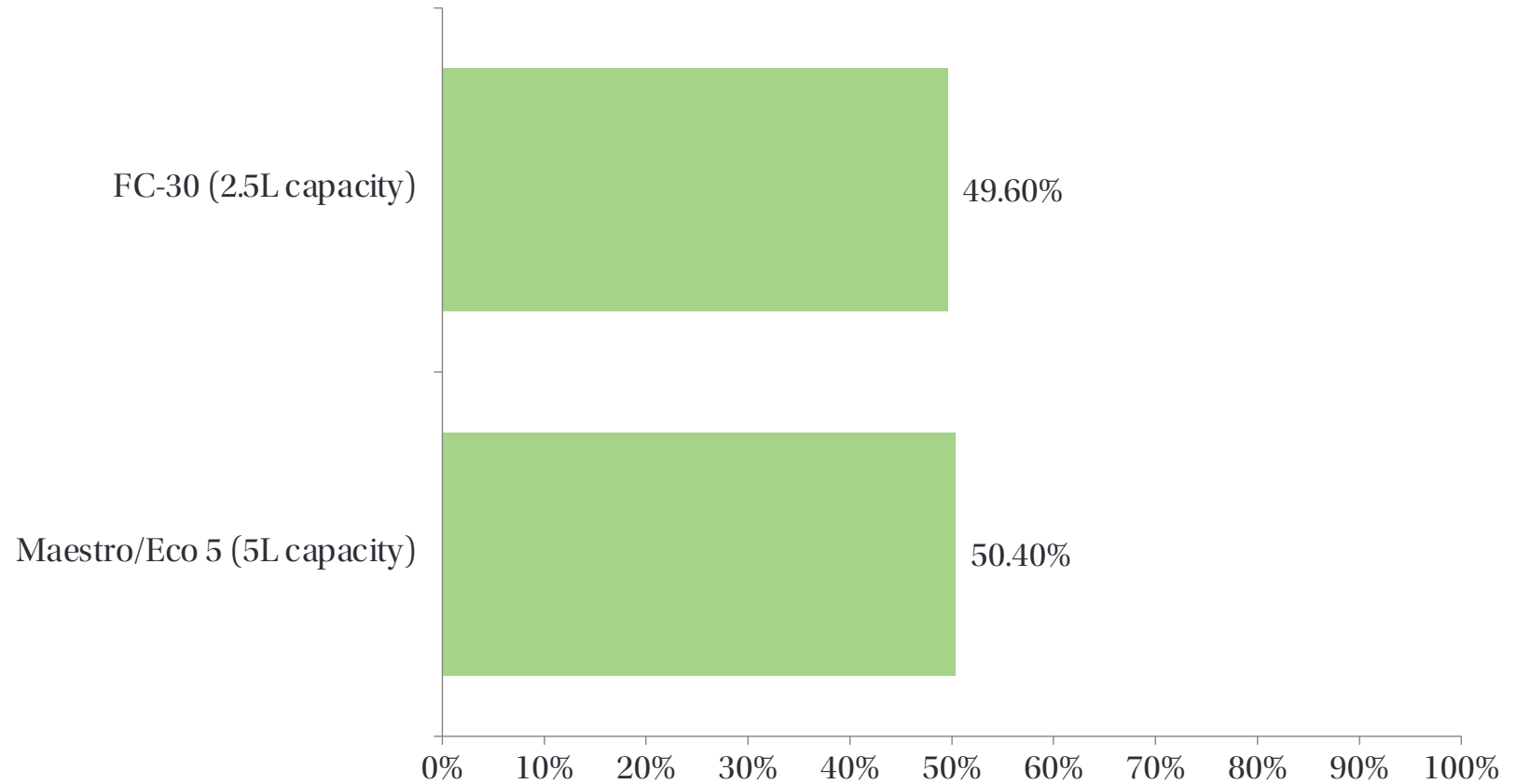
Pilot Program Results

Why don't you compost?



Pilot Program Results

Which device do you have?

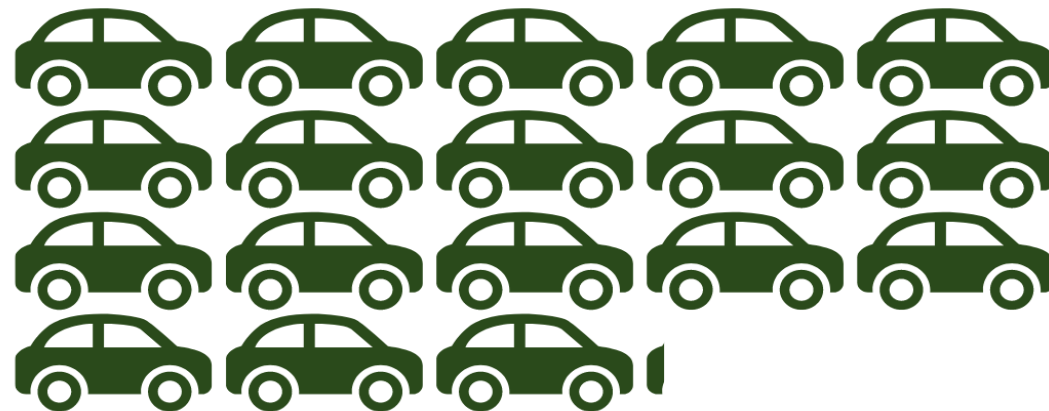


Pilot Program Results

Average of **3.64 cycles/week** for FC-30 (2.5L)

Average of **3.89 cycles/week** for Maestro (5L)

- 🌱 Equivalent to **~297.78 kg/year/household** or **~12.6 lbs/week/household**
- 🌱 Total of **62.5 metric tonnes** of food waste diverted from landfill/year from 210 FoodCyclers in use
- 🌱 210 FoodCyclers in Kincardine will divert **81.3 MT CO2 equivalents** per year, the equivalent reduction in greenhouse gas emissions of taking 18.1 gasoline-powered vehicles off the road every year!



Pilot Program Results

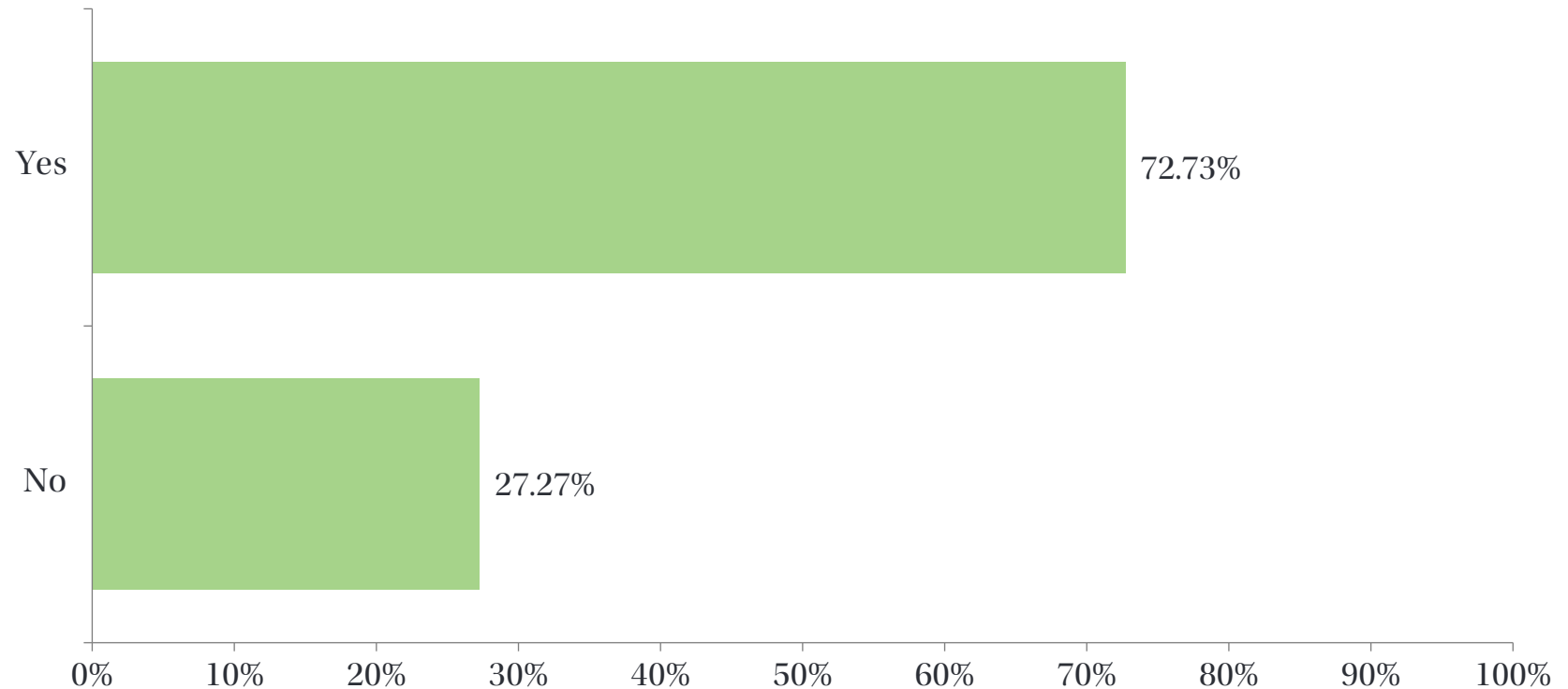
Residents reported generating 0.49 fewer standard garbage bags per week, a reduction of 25.8 garbage bags per household per year being trucked to local landfills!



*“Feel so much better about reducing our food waste and garbage production we produce **only one bag every two weeks now**”*

Pilot Program Results

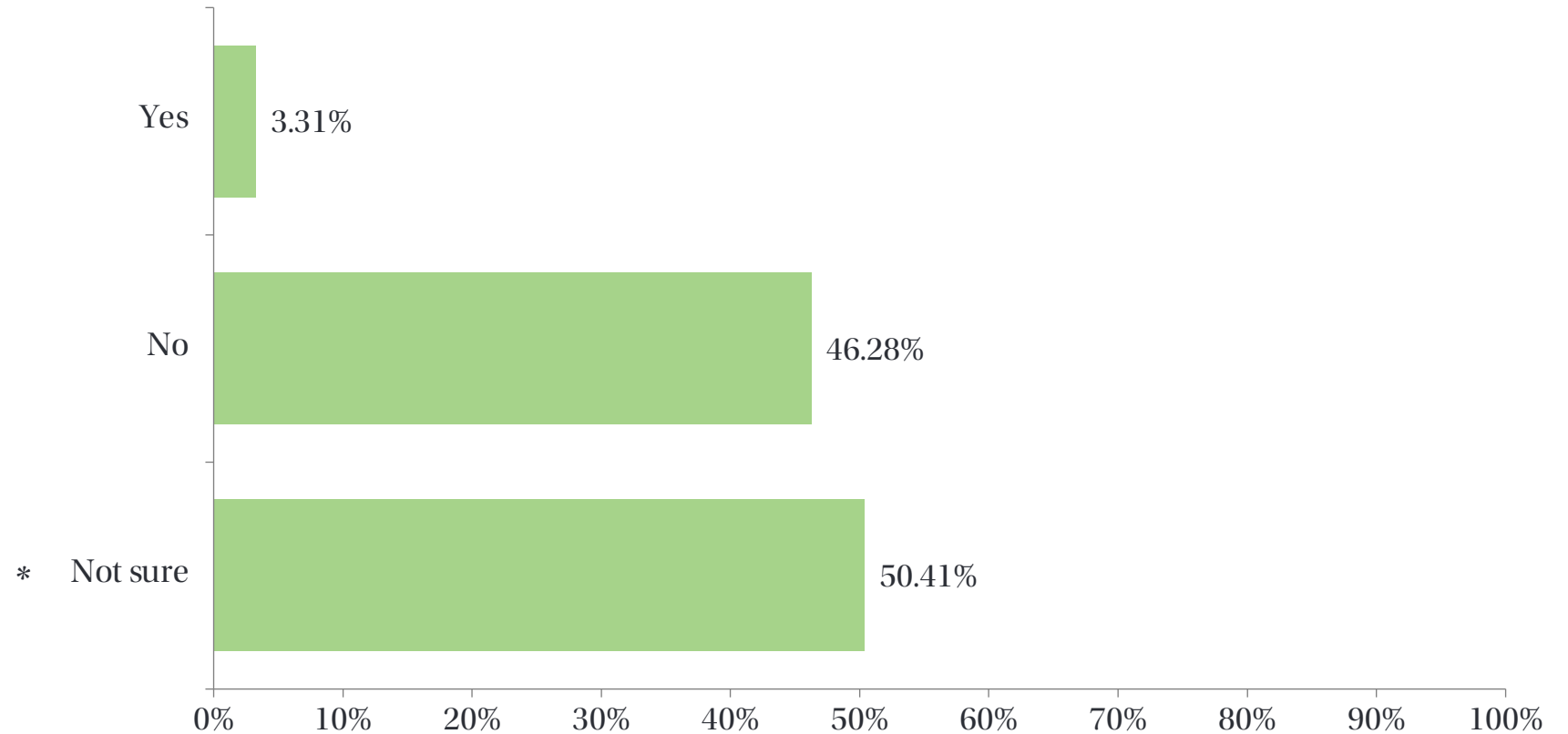
Did increased awareness of food waste motivate you to waste less food?



*"The FoodCycler definitely showed me how much food waste we have in our household. This awareness has **motivated me to plan better to minimize food waste**. The FoodCycler was a great size to handle waste like peels, cores, stems etc. however when food spoiled in fridge and had to be discarded the FoodCycler wasn't of adequate size. This is how I realized how much waste comes from poor food management. Thank you."*

Pilot Program Results

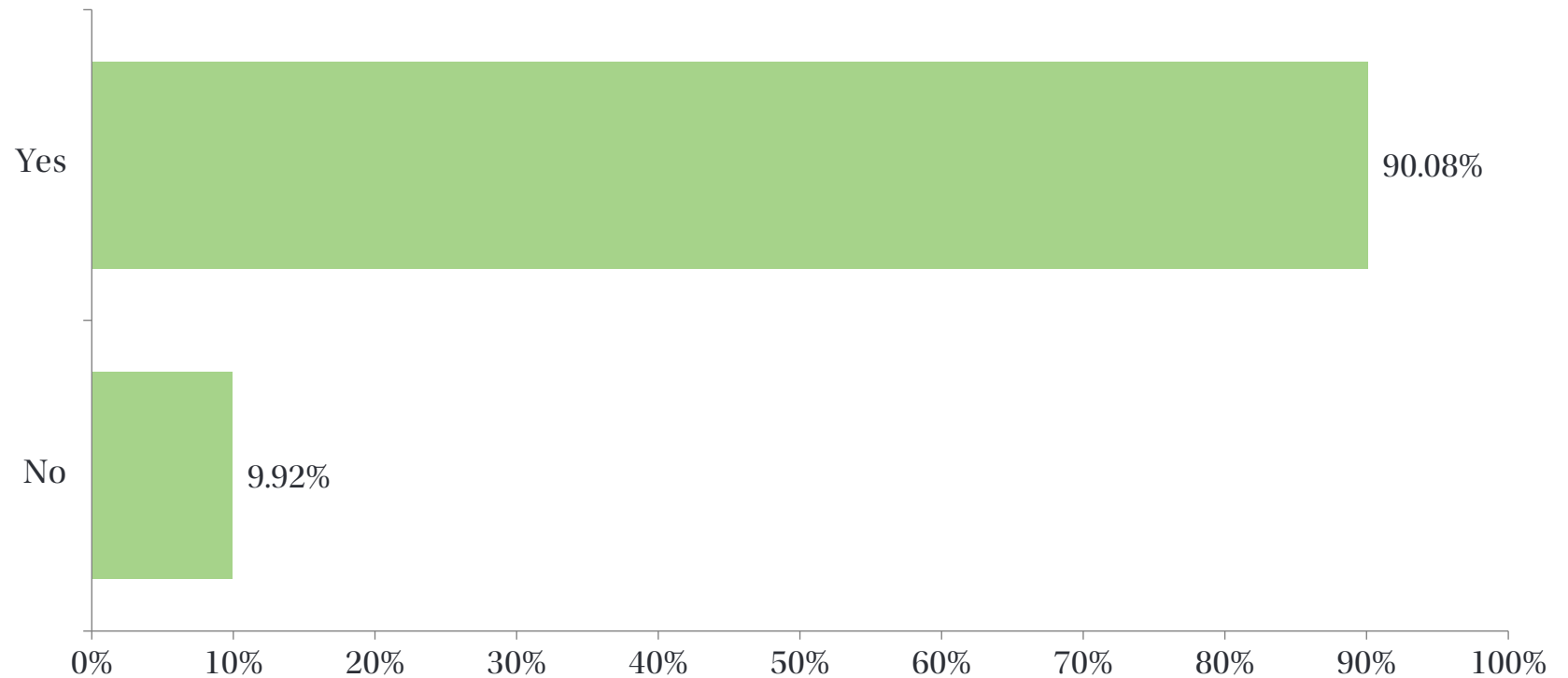
Did you see increased electricity costs during the time you used the FoodCycler?



*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?

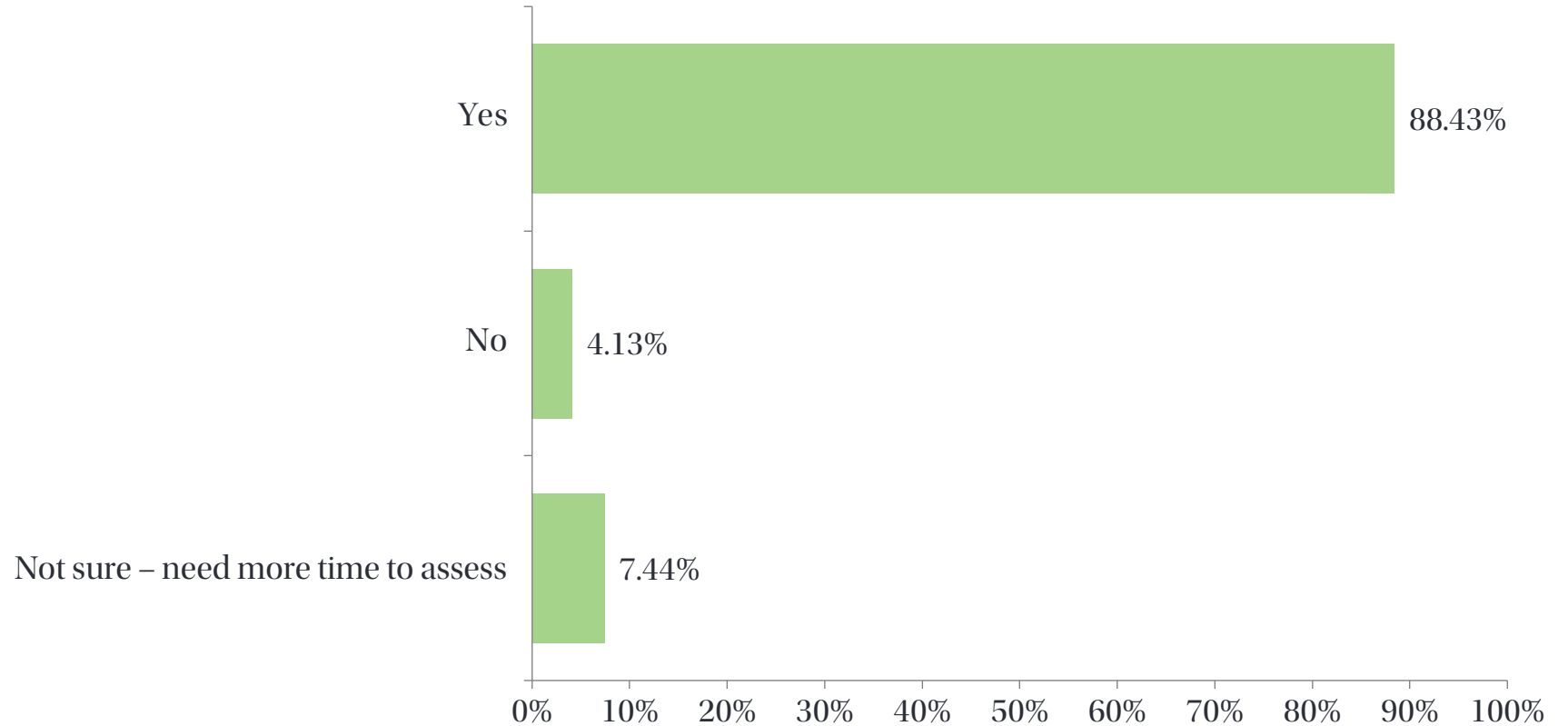


"Please offer the program again as I know people in town who would like one but missed out."

"Very worthwhile program. Please continue."

Pilot Program Results

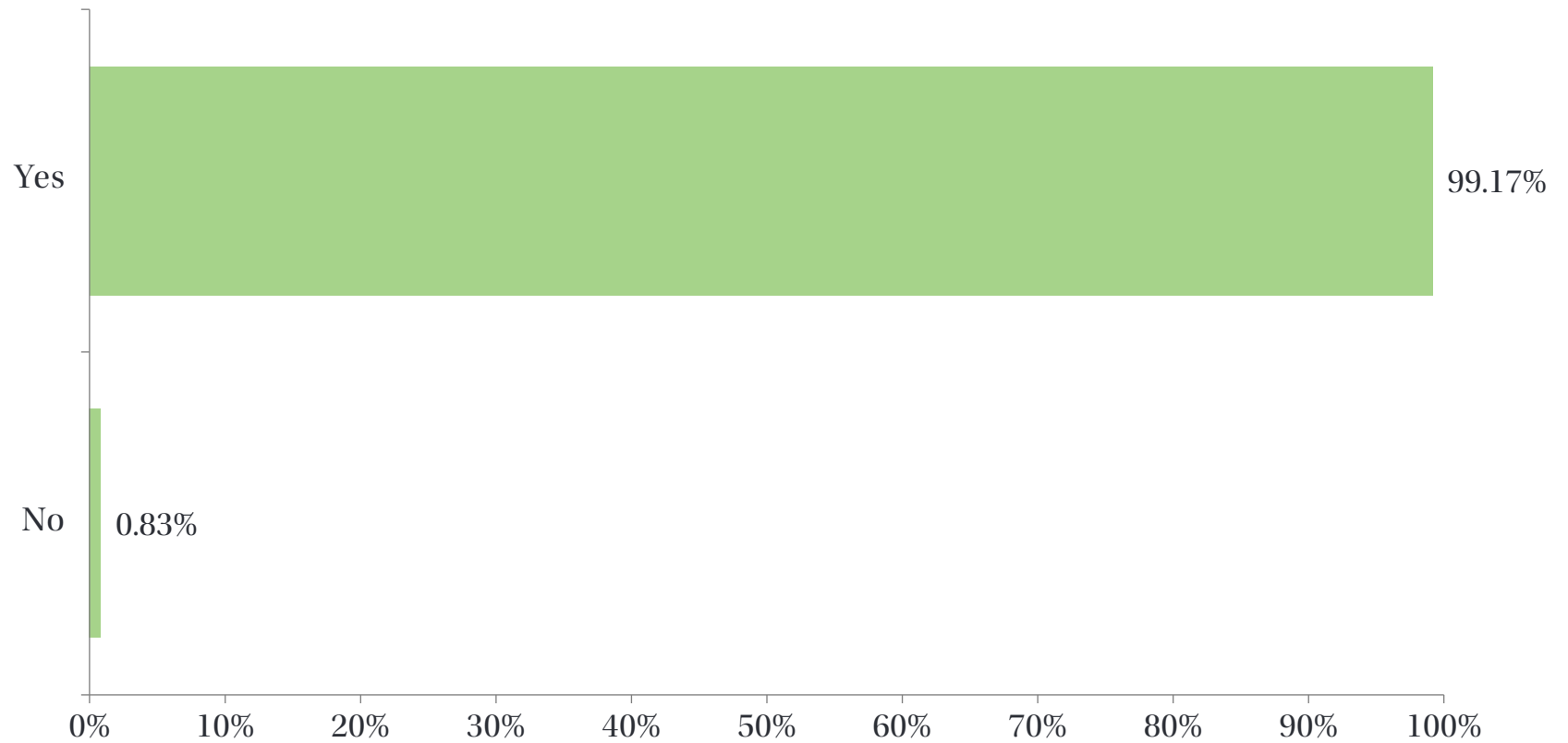
Would you recommend the FoodCycler to others?



"It worked really well. I've recommended to family and friends."

Pilot Program Results

Will you continue using the FoodCycler after this pilot?



"Great program. Grateful for the opportunity and happy with the outcome. Will continue to use it. Thanks!"

Pilot Program Results

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

Average rating: 4.64/5 Stars



Pilot Participant Comments

“We love our Foodcycler, my only complaint is that I still have to compost (or discard) paper waste products like used paper towels and coffee filters. In municipally operated Green Bin programs, these products are accepted and would continue to reduce the number of black backs we send to the curb every other week. That being said I’m extremely grateful for the opportunity to use a countertop composter for half the cost of purchasing one new. It’s saving us at least one bag tag per collection cycle and has greatly increased my backyard composting capabilities.”

“A program for institutions would be good, schools and shared housing, restaurants”

“The device worked really well. I was unsure what to do with the output after learning that it was just ground dehydrated food and could rot, so I have been putting it on the compost pile. I think it might be more energy efficient to just compost directly. I think we will see more benefit in the winter when it is harder to get to the compost bin, the FoodCycler output could be stored for a few days without stinking.”

“Needs to be plan for larger scale organic waste producers-- restaurants, etc, as well as a collection program for households. We do our part at a home level, but community and business level buy in very minimal.”



Recap and Next Steps

Recap

- **62 MT** of food waste diverted from landfill/year from 210 FoodCyclers in Kincardine
- Average reduction of **25.8 garbage bags** per household per year being trucked to local landfills as a result of food waste.
- **99%** of participants will continue using the FoodCycler

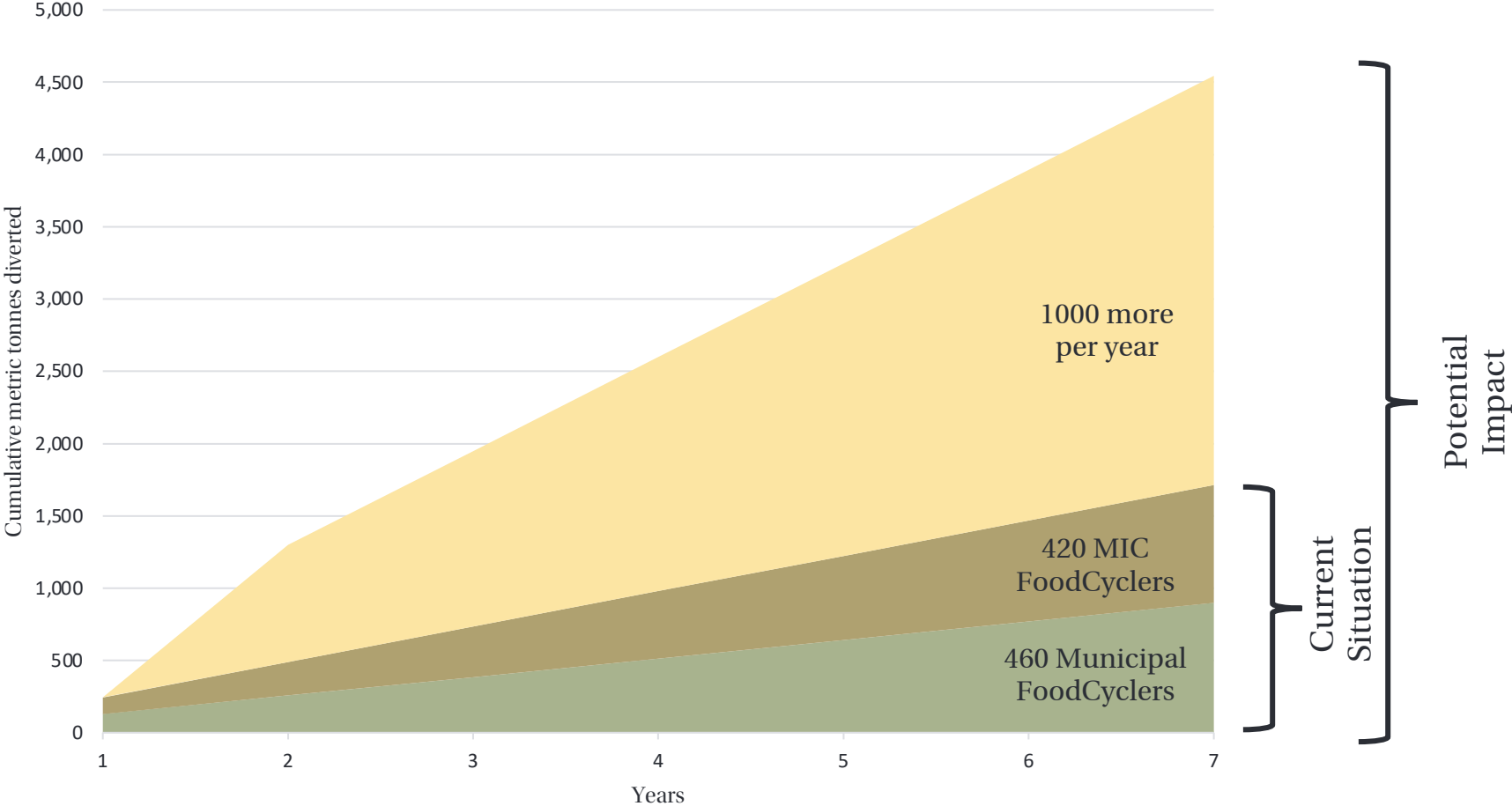
Next Steps

- Now 880 FoodCyclers in Bruce County
- Expanded program in 2023/24
- Comprehensive program designed for you by Food Cycle Science
- Stronger Together



Scaling Real Change

Cumulative metric tonnes over expected life of 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



Thank you!
Any Questions?

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