



FoodCycler™

On-Site Organics Diversion Program

Prepared for:
Town of Portugal Cove-St. Philip's
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



red dot



Trusted Canadian Solution

From Coast to Coast to Coast



145 Canadian Municipal Partners
... and counting!

Pilot Program Recap

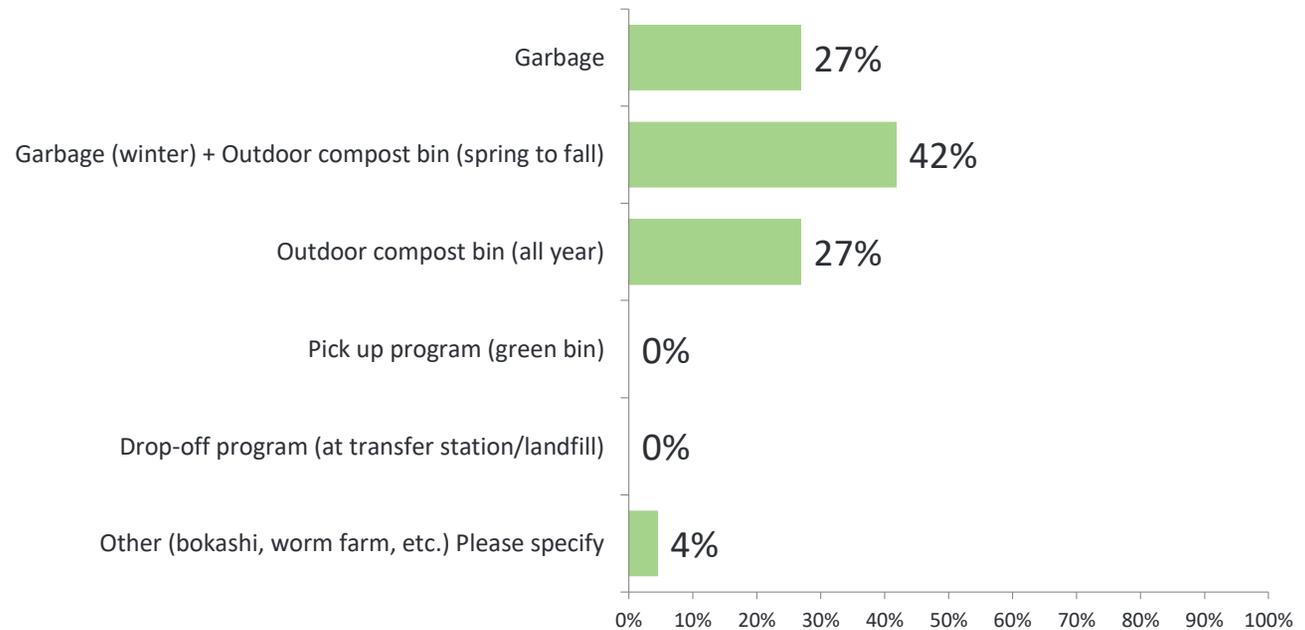
- A pilot program was run in Portugal Cove-St. Philip's that included 100 participating households.
- Cost to the Municipality was \$10,000 + taxes and shipping.
- Program ran from February to May 2024
 - Usage was tracked for 12 weeks to calculate total waste diversion.
 - Participants completed a survey to provide data and feedback.



Pilot Program Results

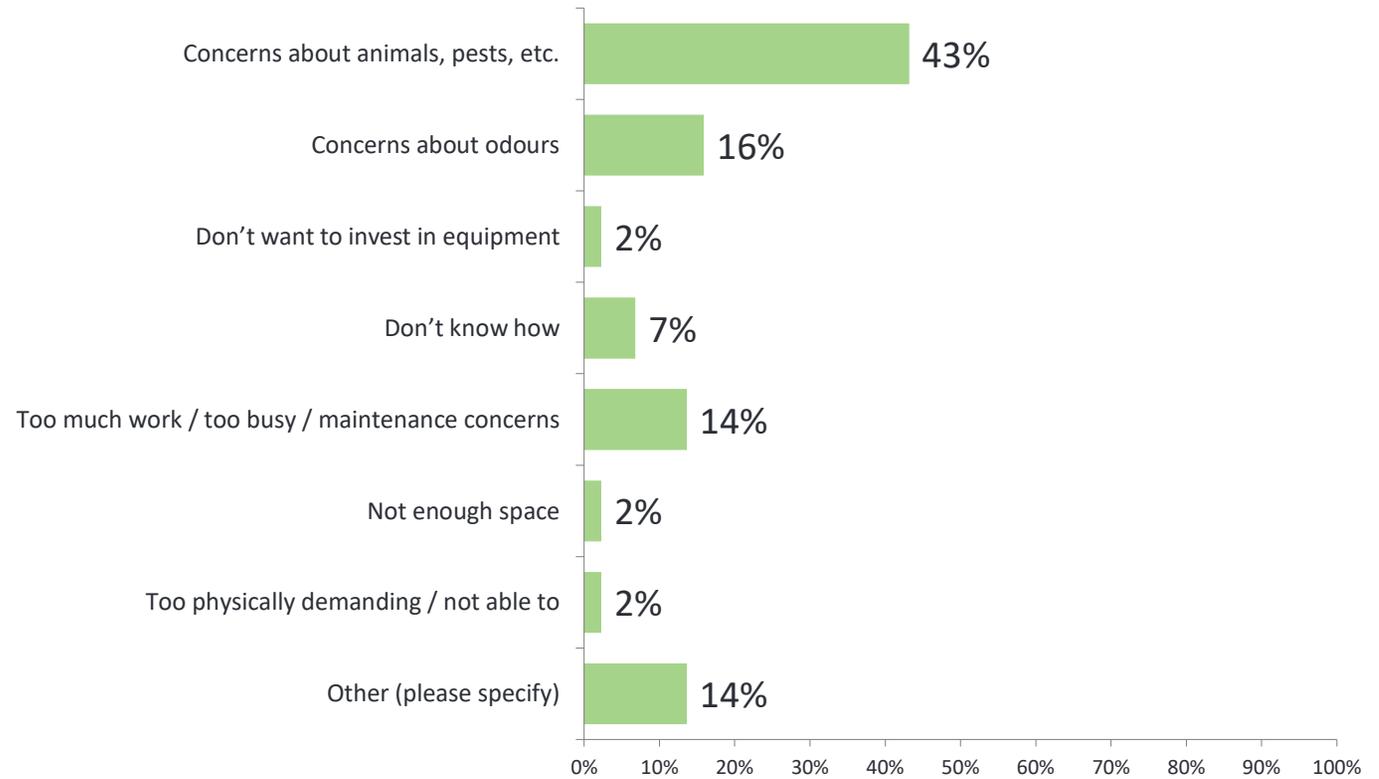
67 responses collected out of 100 participants (67%)

- 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?



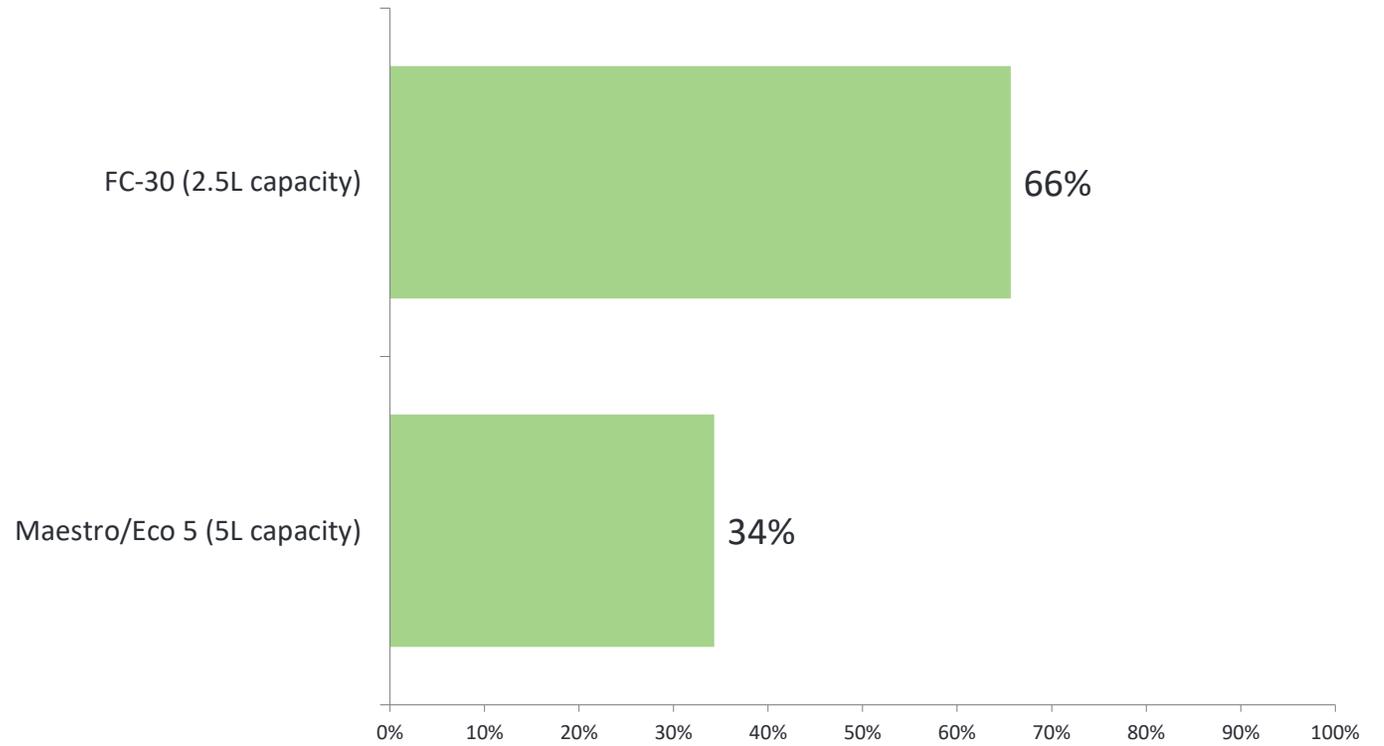
Pilot Program Results

Why don't you compost?



Pilot Program Results

Which device do you have?



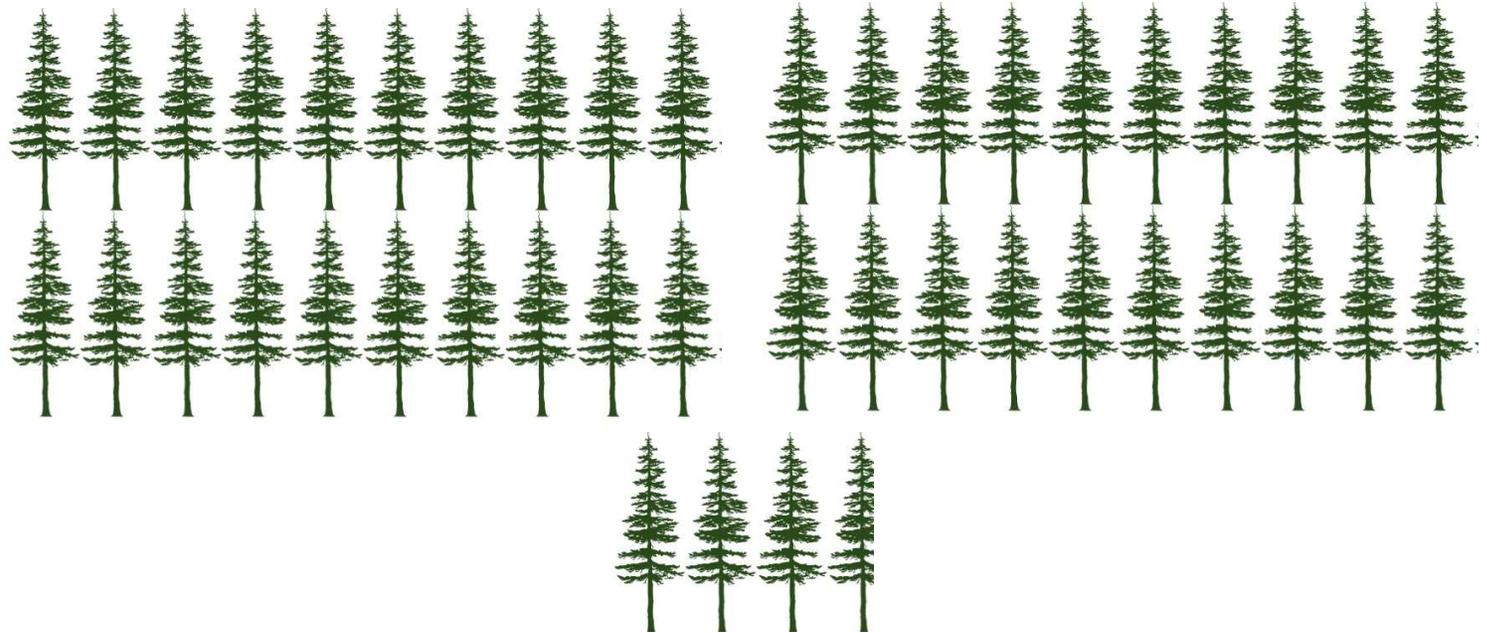
Pilot Program Results

- Average of **3.90 cycles/week** for FC-30
- Average of **3.40 cycles/week** for Eco 5
 - Equivalent to **~287.25 kg/year/household**
 - Total of **28.72 metric tonnes (MT)** of food waste diverted from landfill/year from 100 FoodCyclers in use



Pilot Program Results

- 100 FoodCyclers in Portugal Cove-St. Philip's will divert **37.3 MT CO₂ equivalents** per year, the equivalent to the carbon sequestered by 43.5 acres of forest per year!



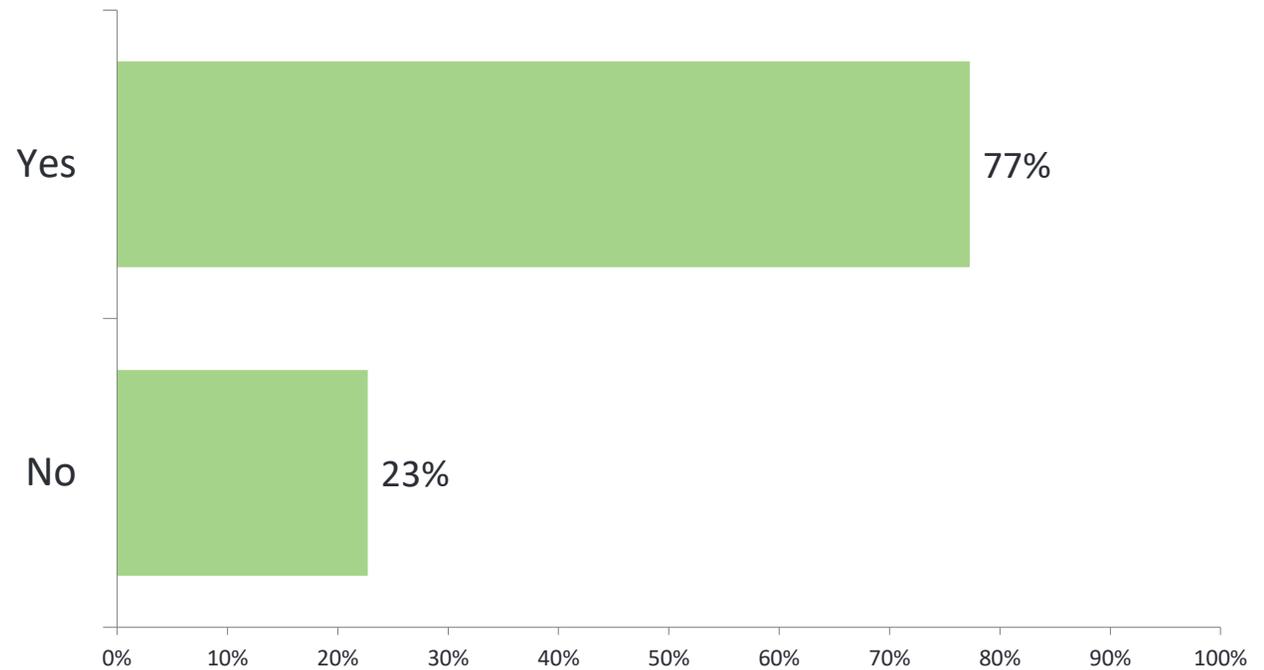
Pilot Program Results

Residents reported generating **0.65 fewer standard garbage bags per week**, a reduction of **33.8 garbage bags per household per year** being trucked to the landfill!



Pilot Program Results

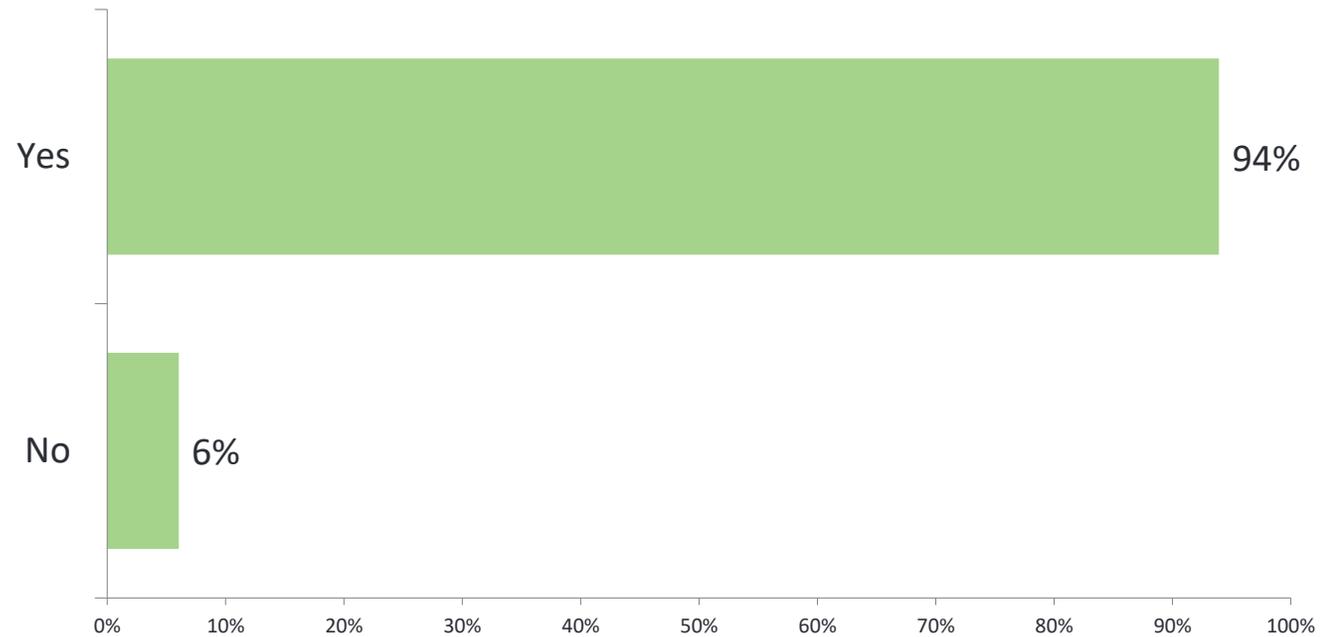
Did increased awareness of food waste motivate you to waste less food?



"I do enjoy the FoodCycler. It makes you more conscious!"

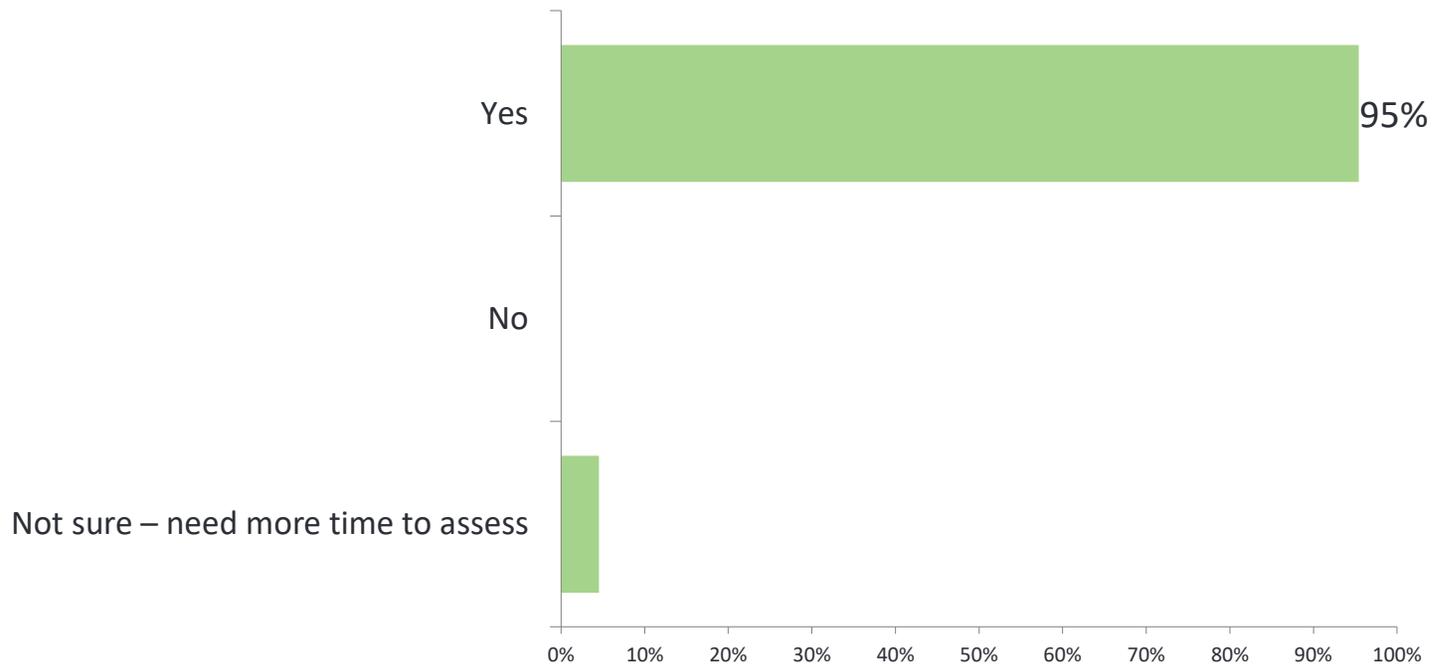
Pilot Program Results

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?



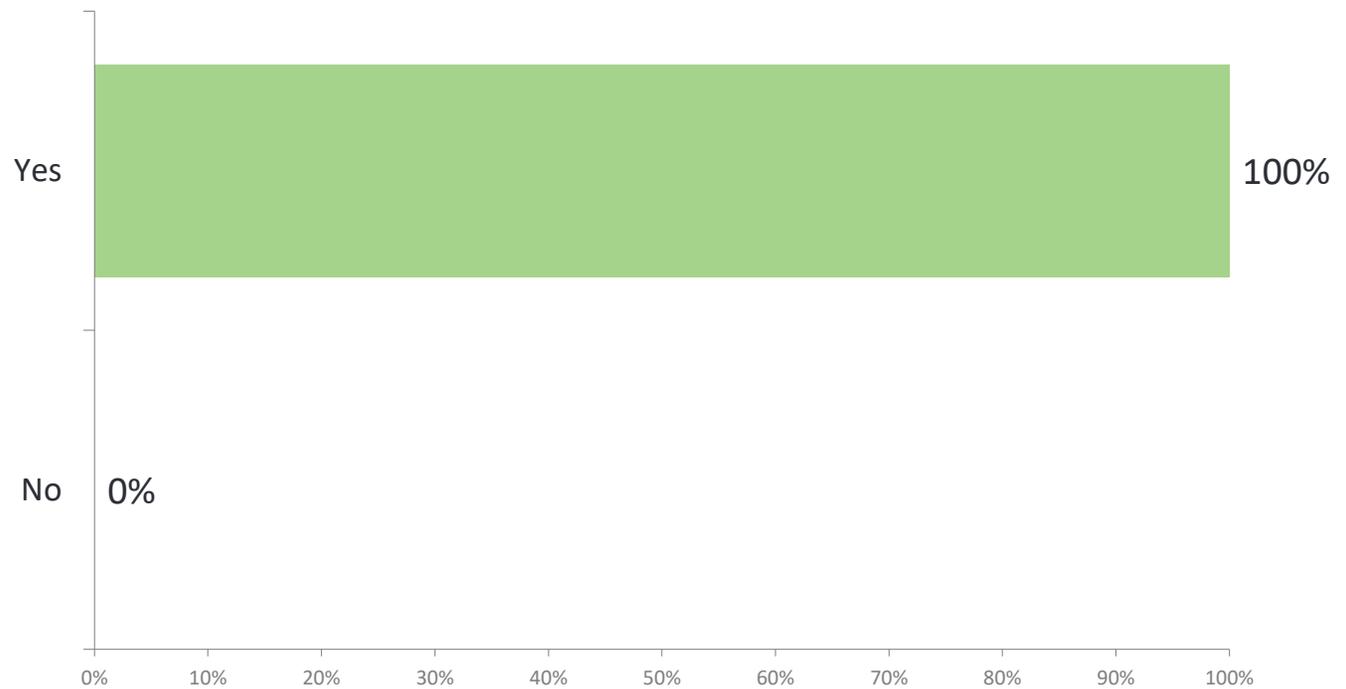
Pilot Program Results

Would you recommend the FoodCycler to others?



Pilot Program Results

Will you continue using the FoodCycler after this pilot?



“Found it great and will definitely continue with it.”

Pilot Program Results

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

Average rating: 4.8/5 Stars



- 1 Star = 0%
- 2 Stars = 0%
- 3 Stars = 1.5%
- 4 Stars = 18.2%
- 5 Stars = 80.3%

"Great product/service. Very happy with it and to be part of study overall!"

"Thanks, PCSP, for bringing this innovation to residents. I hope more will purchase one and help reduce GHG emissions across the province and country."

Pilot Participant Comments

“Great program! Would like the option to upgrade without paying for additional unit for larger capacity once I had the chance to experience the process. Fantastic initiative!!”

“I enjoyed experimenting with the FoodCycler. While most days I could keep up with the waste, there were times I would have preferred a larger unit as multiple runs had to be made in one day. Good initiative as I find regular composting sometimes is inconvenient in winter and it attracts rats and squirrels and other pests – FoodCycler results in a small amount of waste that can easily go in the garden or garbage. I highly recommend an expansion of the program.”

“Fabulous idea. Not sure if everyone can afford to buy one, and that would be my only concern.”

“I love our FoodCycler and tell all my veggie garden friends about it, and I also share our organic matter with them. It would be great if the town provided a list of farms or others who are wanting to take unused organic matter, so it doesn't end up in a landfill. A full FoodCycler program would be wonderful.”

“I love it. I have a lot of company and while cooking meals this generates a lot of peels, etc. This is a great way to compost especially during the winter when it is often difficult to get to the outside composter plus this FoodCycler takes a lot of waste that can't go in the regular compost. As I said I love it and sing its praises every day!”

“Fantastic initiative. I would love to see more of these in all communities! Very grateful to have a progressive community!”

“It is a fantastic machine. What a great way to help the environment!”

“I have been composting for 10 years and would stop in the winter, so I am now delighted to not have to stop composting in the winter.”

“Love the FoodCycler. Happy to have been a part of this study!”



Program Recap

Recap

- **28.7 MT** of food waste diverted from landfill/year from the 100 FoodCyclers in the pilot program
- Residents reported a **0.65 bag reduction per week** which equals **33.8 bags per household per year** of food waste diverted from the landfill.
- As a result of this program, **77%** of participants are now motivated to waste less food.
- **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

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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