

FOODCYCLER™
MUNICIPAL SOLUTIONS

The Future of Food Waste.



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



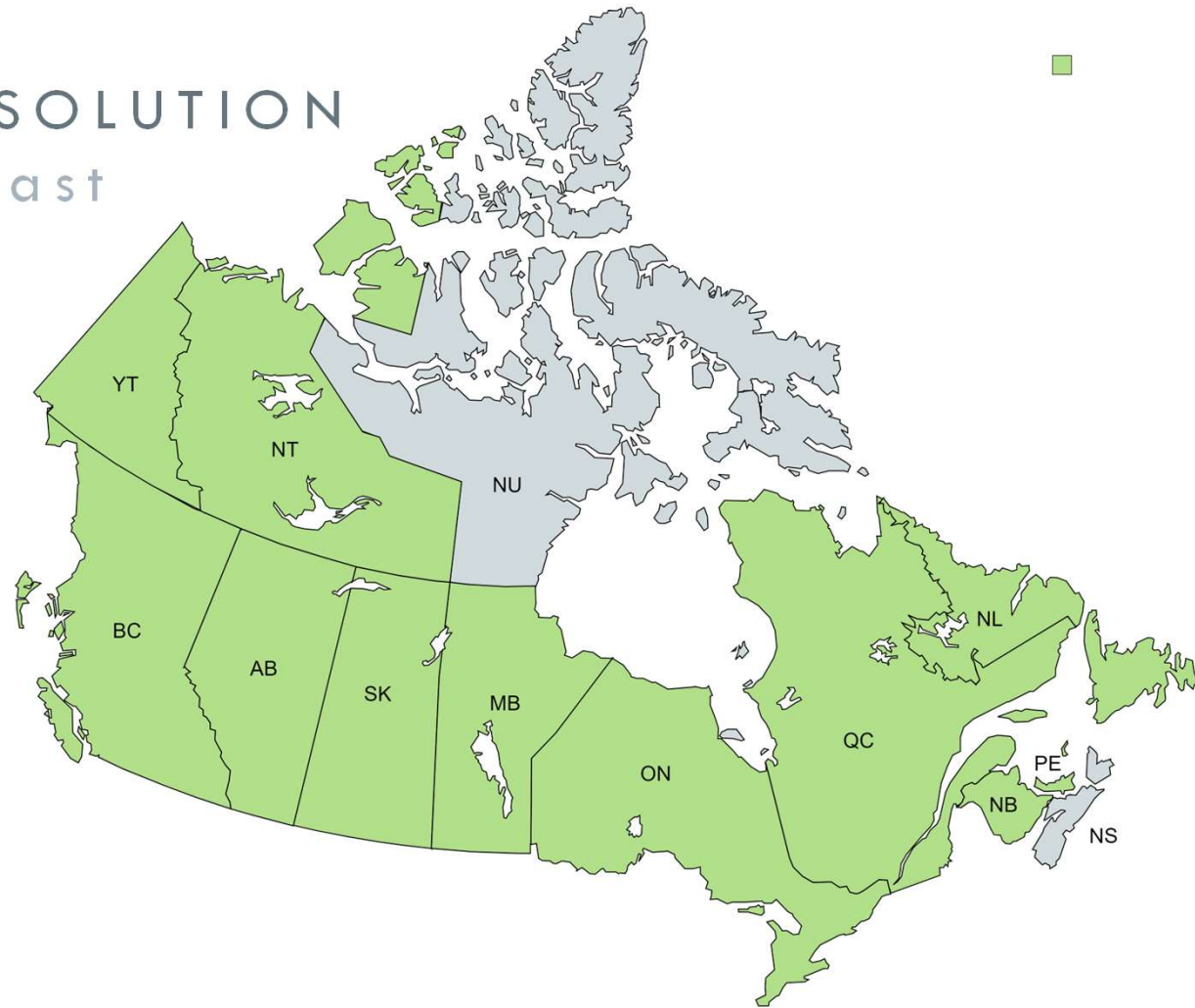
TRUSTED CANADIAN SOLUTION

Coast to Coast to Coast

150+
**Canadian
Municipal
Partnerships**

○ **9 Provinces**

○ **2 Territories**



MUNICIPAL IMPACT

Waste is a municipal responsibility

LANDFILL + WASTE COSTS

- ~**25-50%** of household waste is organic waste
- Landfills are filling up fast, creating cost and environmental issues
- Hauling, transfer, and disposal services are a major cost factor and environmental contributor

ENVIRONMENT

- Landfilled organic waste produces methane, which is **25 times** more harmful than CO₂
- 1 tonne of food waste is equivalent to 1 car on the road for one year



COMMUNITY

Food in the garbage:

- More frequent collection or trips to the disposal site
- Unpleasant odours
- Animals, pests & other visitors



Removing food waste from garbage:

- Volume is reduced by up to 50%
- Less frequent collection, fewer trips to disposal site, save on bag tags
- Keeps odours out, makes garbage much less “interesting” for animals

PROBLEM WITH TRADITIONAL METHODS OF HANDLING FOOD WASTE



GREEN BINS

- Major **capital expenditure** to invest in **processing & collection infrastructure**
- **Contamination** is an ongoing challenge
- **GHG emissions** and **safety concerns** from collection vehicles
- **Participation rates** are often lower than desired, particularly in **multi-residential dwellings**
- **Service disruptions** due to labour strikes, vehicle breakdowns, or inclement weather

BACKYARD COMPOST

- **Space, ability, and know-how** are limiting factors
- Most users **do not compost in winter** or inclement weather
- May **attract pests/animals** or create unpleasant **odours**
- **Participation rates** are relatively low and stagnant
- Can produce **methane** if done incorrectly

LANDFILL

- **Easiest solution** and often perceived as the most cost-effective in the short term
- Waste is typically **out of sight and out of mind** for consumers
- High levels of GHG emissions, particularly **methane**
- Long-term **environmental hazard** requires monitoring / maintenance
- **Landfill capacity** is quickly running out

THE SOLUTION? THE FOODCYCLER



THE FOODCYCLER PRODUCT FAMILY



SPECS

ECO 3

ECO 5

BUCKET CAPACITY

3.5L

5L

RECOMMENDED HOUSEHOLD SIZE

1-2

3+

DIMENSIONS (INCHES)

(H) 11 X (W) 9 X (D) 13

(H) 13.8 X (W) 13.8 X (D) 10.3

PROCESSING TIME

4-9 HOURS

6-8 HOURS

POWER CONSUMPTION

~0.9 KWH

~1.5 KWH

FILTRATION

1 REFILLABLE FILTER

1 REFILLABLE FILTER

VENT LOCATION

TOP

TOP

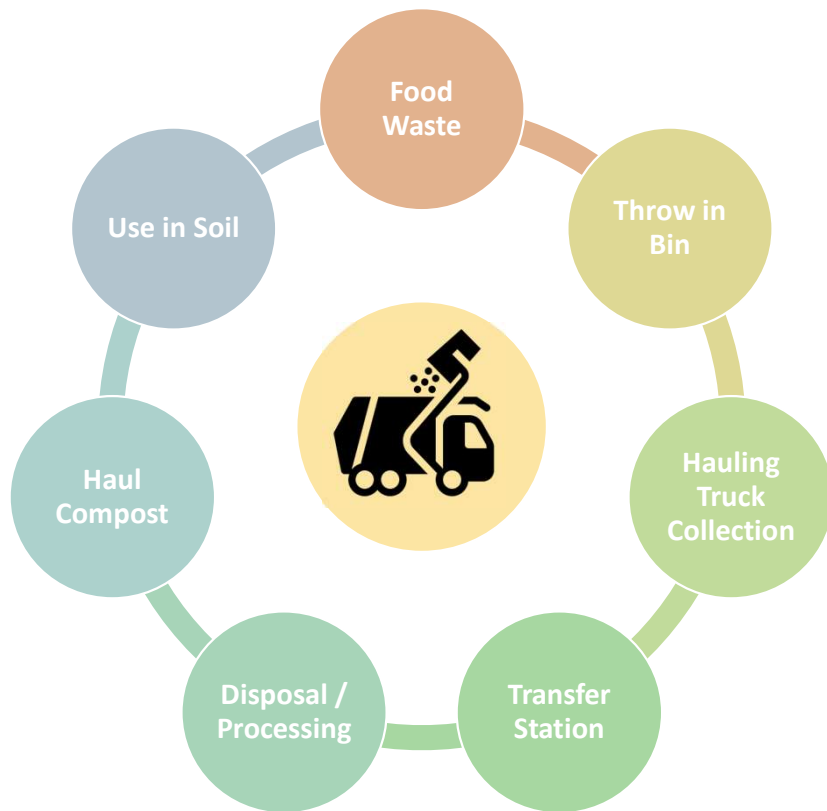
FOODILIZER™ : BENEFICIAL USES

The FoodCycler by-product is a dry, sterile, odourless and nutrient-rich biomass with many beneficial uses and practical applications:

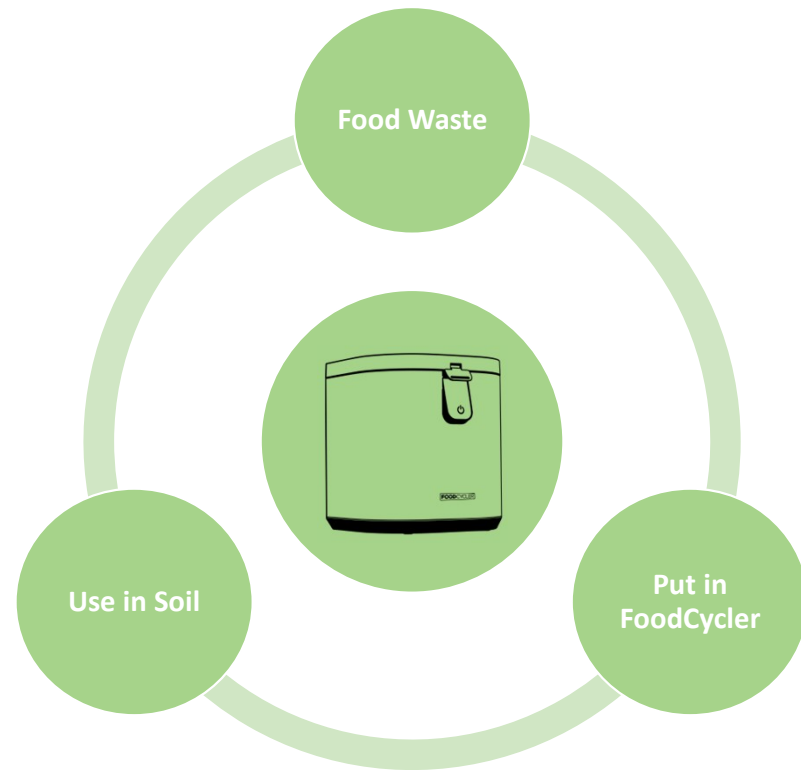
- Add to garden soil
- Add to backyard composter/tumbler/green cone
- Integrate to existing Leaf & Yard waste systems
- Pelletize/briquette as home heating alternative
- Drop off at compost site
- Drop off to a local farm
- Drop off to a community garden
- Add to Green Bin (where available)



IMPACT: ENVIRONMENTAL & ECONOMIC



Traditional Waste Management



FoodCycler

THE FOODCYCLER PROGRAM

The results are in.

"It's a great tool to reduce household waste. Appreciate that the municipality is being innovative and piloting different solutions."

Pilot participant in Hornepayne

"We were extremely happy with this program and loved that it made us aware of our daily waste."

Pilot participant in South Glengarry

"I've received a number of positive messages from residents saying, 'sign me up, where can I get mine.' I'm 100 per cent in favor of it."

Deputy Mayor Lyle Warden, (South Glengarry ON)

Participation Rate

98%

- 98% of participants will continue using the FoodCycler after the pilot period

Net New Diversion

<300 kg

- Each participating household is estimated to divert approximately 300 kg of food waste per year

Awareness + Prevention

77%

- 77% of participants resolved to waste less food as a result of increased awareness

****Based on results from over 10,000 households.**



MUNICIPAL PROGRAM

from Start to Finish

TYPICAL PROGRAM SCOPE

PILOT

Residents purchase FoodCycler from the municipality at a subsidized rate.

They track the number of cycles they run for 12 weeks and complete a survey. The FoodCycler is theirs to keep forever.

EVALUATION

Based on the results from the pilot, the program is evaluated to determine the feasibility of this solution in your community.

EXPANSION (optional)

A 2nd pilto can rolled out if needed.

PROGRAM ROLLOUT

Tailored program design and implementation.

Grants may be available, with support from Food Cycle Science.

FUNDED PILOT PROGRAM OPTIONS

Municipal Subsidy Model



FOODCYCLER™
Eco 3

\$ 600

-\$ 250

-\$ 50

\$ 100

\$ 200

RETAIL PRICE

MUNICIPAL DISCOUNT

FEDERAL FUNIDNG

* MUNICIPAL SUBSIDY *

RESIDENT COST

\$ 800

-\$ 250

-\$ 150

\$ 100

\$ 300



FOODCYCLER™
Eco 5

FUNDED PILOT PROGRAM OPTIONS

Pilot Scope Recommendations

Municipality Population	Pilot Scope	Municipal Investment
< 10,000 Residents	100 Households	\$10,000
10,000 – 20,000 Residents	200+ Households	\$20,000
> 20,000 Residents	500+ Households	\$50,000+

- **Plus shipping costs and applicable taxes**





Next Steps:

- Receive presentation as information.
- If interested in partnering, refer to Staff for a recommendation to Council.



