

MUNICIPALITY OF THE COUNTY OF ANTIGONISH

ASSET MANAGEMENT COMMITTEE AGENDA

Tuesday, June 27, 2023, 5:30pm

Council Chambers

Municipal Administration Building

285 Beech Hill Road

Beech Hill, NS B2G 0B4

1. Call to Order – Chair, Bill MacFarlane
2. Approval of Agenda
3. Approval of May 23, 2023 Asset Management Committee Minutes
4. Business Arising from the Minutes
5. Delegations
 - a. Kassia Régnier, Food Cycle Science Corporation
 - b. Basil Pitts, Area Management NSDPW
6. Continuing Business
 - a. ICIP Project Updates
 - i. Active Transportation Corridor
 - ii. Net-Zero Community Buildings
 - iii. St. Joseph's & Lanark Water System Expansions
7. New Business
8. Additions to the Agenda
9. In-Camera Items
 - a. Matters related to municipal property.
10. Adjournment

MUNICIPALITY OF THE COUNTY OF ANTIGONISH

Asset Management Meeting Minutes

Tuesday, May 23, 2023, 5:30 pm
Council Chambers
Municipal Administration Building
285 Beech Hill Road
Beech Hill, NS B2G 0B4

Present were:	Warden Owen McCarron	Councillor John Dunbar
	Deputy Warden Hugh Stewart	Councillor Gary Mattie
	Councillor Mary MacLellan	Councillor Bill MacFarlane
	Councillor Donnie MacDonald	Councillor Harris McNamara
	Councillor Remi Deveau	Councillor Shawn Brophy

Regrets: None

Staff Present: Glenn Horne, CAO
Beth Schumacher, Deputy Clerk

Also Present: Darryl Myette, Strait Engineering
Gallery

Call to Order – Chairman, Councillor Bill MacFarlane

The meeting of the Asset Management Committee was called to order by Councillor Bill MacFarlane at 5:30pm.

Approval of Agenda

Councillor MacFarlane called for any additions or deletions to the agenda.

Moved and Seconded

That the agenda be approved as presented.

Motion Carried

Approval of April 25, 2023 Asset Management Minutes

Councillor MacFarlane called for any errors or omissions to the minutes of the previous meeting.

Moved and Seconded

That the Asset Management minutes of April 25, 2023 be approved as presented.

Motion Carried

Business Arising from the Minutes

There was no business arising from the minutes.

Continuing Business

ICIP Project Updates

St. Joseph's & Lanark Water Systems

Mr. Horne provided an update on the status of the contracts and final tender projects for the various components of these two projects. Councillor MacFarlane provided his thanks to staff, and to Councillor MacDonald and Deputy Warden Stewart for their ongoing advocacy to have these services built in their community.

Active Transportation Corridor

Mr. Horne introduced a cost-sharing agreement between the Municipality and the Province for the construction of the Active Transportation Corridor project. Questions regarding project scope and timelines followed.

Moved and Seconded

The Committee recommends to Municipal Council that the Chief Administrative Officer and Director of Finance be authorized to sign Cost Share Agreement No. 2023-031.

Motion Carried

Net-Zero Community Buildings

Mr. Myette reviewed the bids received in response to the tender for the Net Zero Buildings Solar Upgrades projects, providing their recommendation to award the contract to Geddes and Murphy Electric. A question was asked regarding the differences between the bids received, and Mr. Myette provided an overview of those bids.

Moved and Seconded

The Committee recommends to Municipal Council that Project 22-82-C Antigonish Net Zero Buildings Solar Upgrades, be awarded to Geddes and Murphy Electric Ltd. at the bid price of \$692,950.00 + HST.

Motion Carried

New Business

Approval of a Three-Year Cost Share Agreement for J-Class Subdivision Streets

Mr. Horne noted that this is the renewal of the 3-year cost-share agreement that the municipality enters with the Province for J-Class Road upgrades. Questions were asked about timelines for reapplication for roads to be considered for the project.

Moved and Seconded

The Committee recommends to Municipal Council the Warden and CAO be authorized to sign Cost Share Agreement No. 2023-002.

Motion Carried

Projects to be added to the Capital List for Future Consideration

Waterline loop from West River Road to Addington Forks Road

The possibility of looking at creating a loop in the waterline from West River Road to Addington Forks Road was put forward for consideration. Committee members felt that this provided an opportunity to open more land for potential development. Consensus given to explore this project for future consideration on the capital list.

Trunk 7 Sidewalk Extension to the new West River Bridge

A proposal was put forward to explore the possibility of extending the sidewalk along Trunk 7 to the new West River Bridge, to improve active transportation connections for residents in the area. Consensus given to explore this project for future consideration on the capital list.

Additions to the Agenda

There were no additions to the agenda.

In Camera Items

There was no in-camera business.

Adjournment

Moved

That the Asset Management Committee meeting be adjourned at 5:48pm.

Motion Carried

Councillor Bill MacFarlane

Glenn Horne, CAO



FOODCYCLER™ MUNICIPAL SOLUTIONS

The Future of Food Waste



ABOUT US

Food Cycle Science

- Canadian company based out of Ottawa, ON
- Founded in Cornwall in 2011 – Company is 100% focused on **Food Waste Diversion Solutions**
- Products available in North America through **FoodCycler Municipal** / **Vitamix** and internationally through network of distributors & OEM partners
- Finalists in Impact Canada/AAFC's Food Waste Reduction Challenge
- Globe & Mail Canada's Top Growing Companies (2021 & 2022)
- Deloitte Fast 50 CleanTech award winners (2021)
- Approved supplier with Canoe Procurement Group of Canada



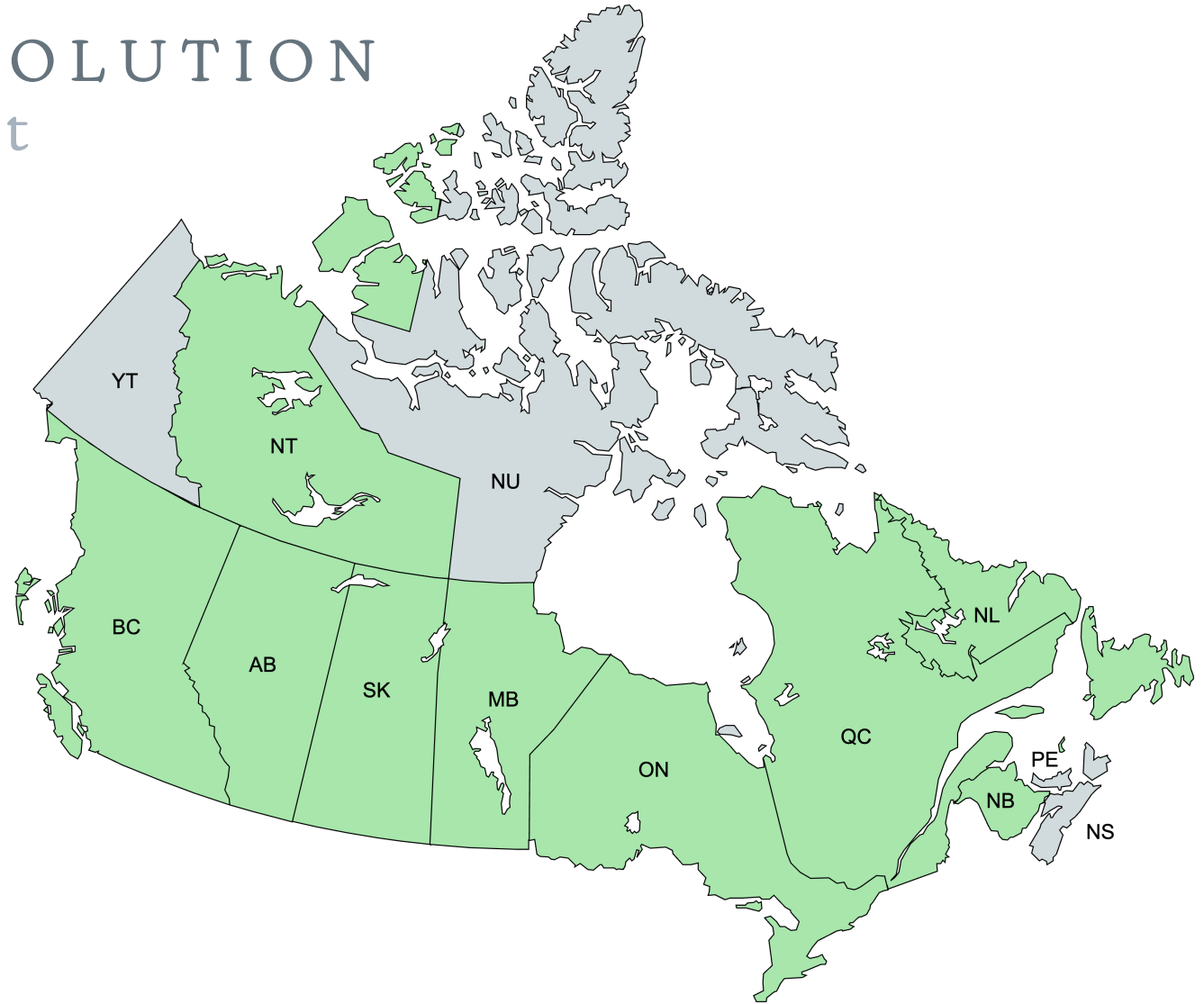
TRUSTED CANADIAN SOLUTION

Coast to Coast to Coast

92*
Canadian
Municipal
Partnerships

○ 8 Provinces

○ 1 Territory



*Plus 3 in the United States.

THE PROBLEM: FOOD WASTE

- **63%** of food waste is avoidable
- Household waste is composed of **25-50%** organic waste
- Food waste weight is up to **90%** liquid mass (which is heavy)
- The average Canadian household spends **\$1,766** on food that is wasted each year
- Each year food waste in Canada is responsible for **56.6 Million tonnes of CO₂** equivalent of GHG



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

“HAVEN'T WE SOLVED THIS ALREADY?”



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**

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 **odors**
- **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



OUR SOLUTION: 90% FOOD WASTE REDUCTION

Full bucket of wet,
smelly food waste

2.5L / 5L

Handful of dry, sterile, odourless
& nutrient-rich by-product

100 g / 200 g



4-8 HOURS
(Overnight)

0.8-1.5 kWh
(Equivalent to a laptop)

\$0.10-\$0.15 per cycle
(\$2-4 per month)



THE FOODCYCLER FAMILY

FOODCYCLER™
FC-30



2.5 L

30.5 L

4-8
HOURS

0.8 kWh

2 REFILLABLE
FILTERS

BACK

VOLUME CAPACITY

UNIT VOLUME

PROCESSING TIME

POWER
CONSUMPTION PER
CYCLE

ODOUR CONTROL

VENT LOCATION

5.0 L

28.9 L

6-8
HOURS

1.3 kWh

1 REFILLABLE
FILTER

TOP

FOODCYCLER™
Eco-5



FOODILIZER™: BENEFICIAL USES

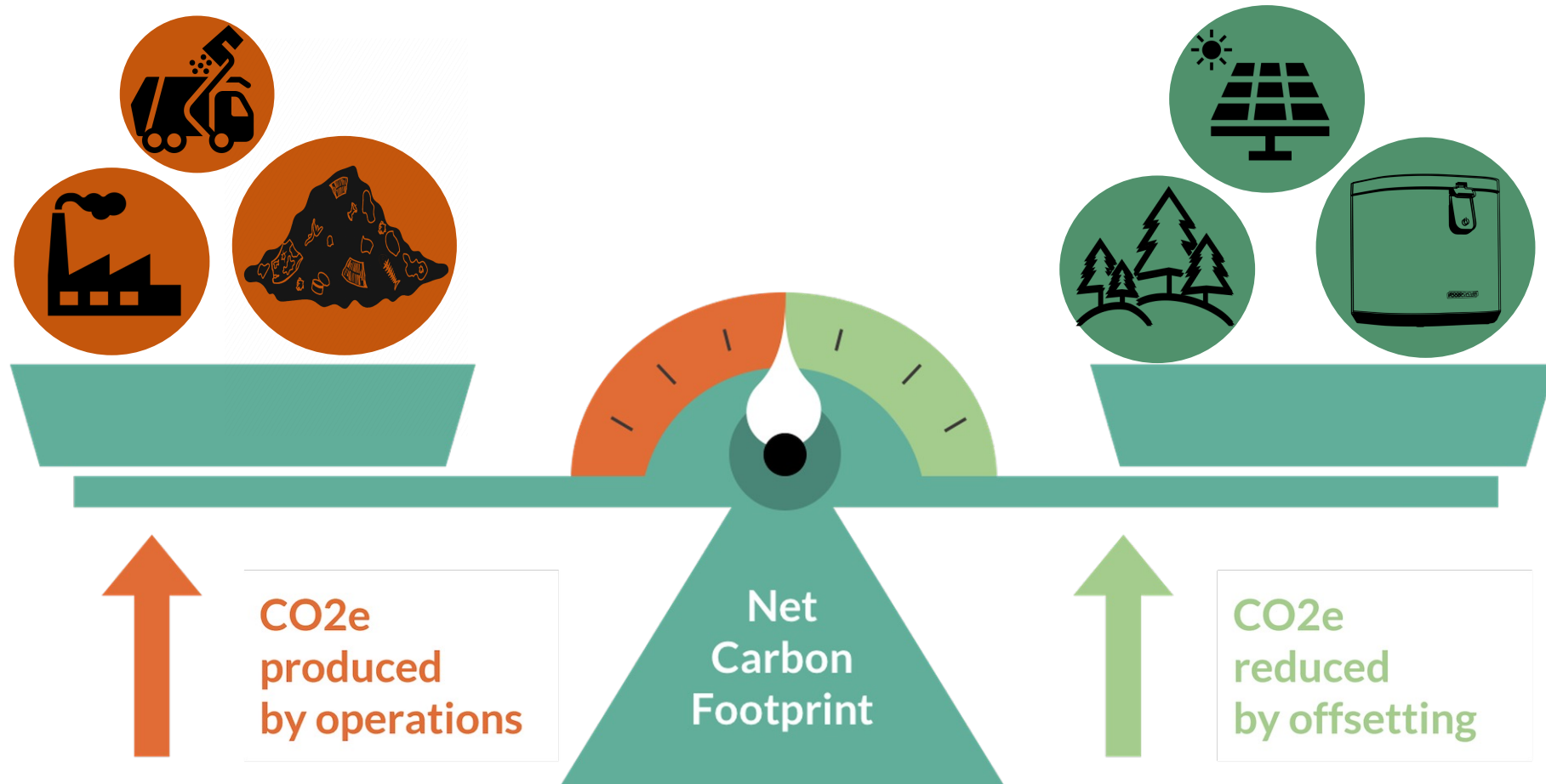
The FoodCycler by-product is a dry, sterile, odourless and nutrient-rich biomass with many beneficial uses and practical applications:

- 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)

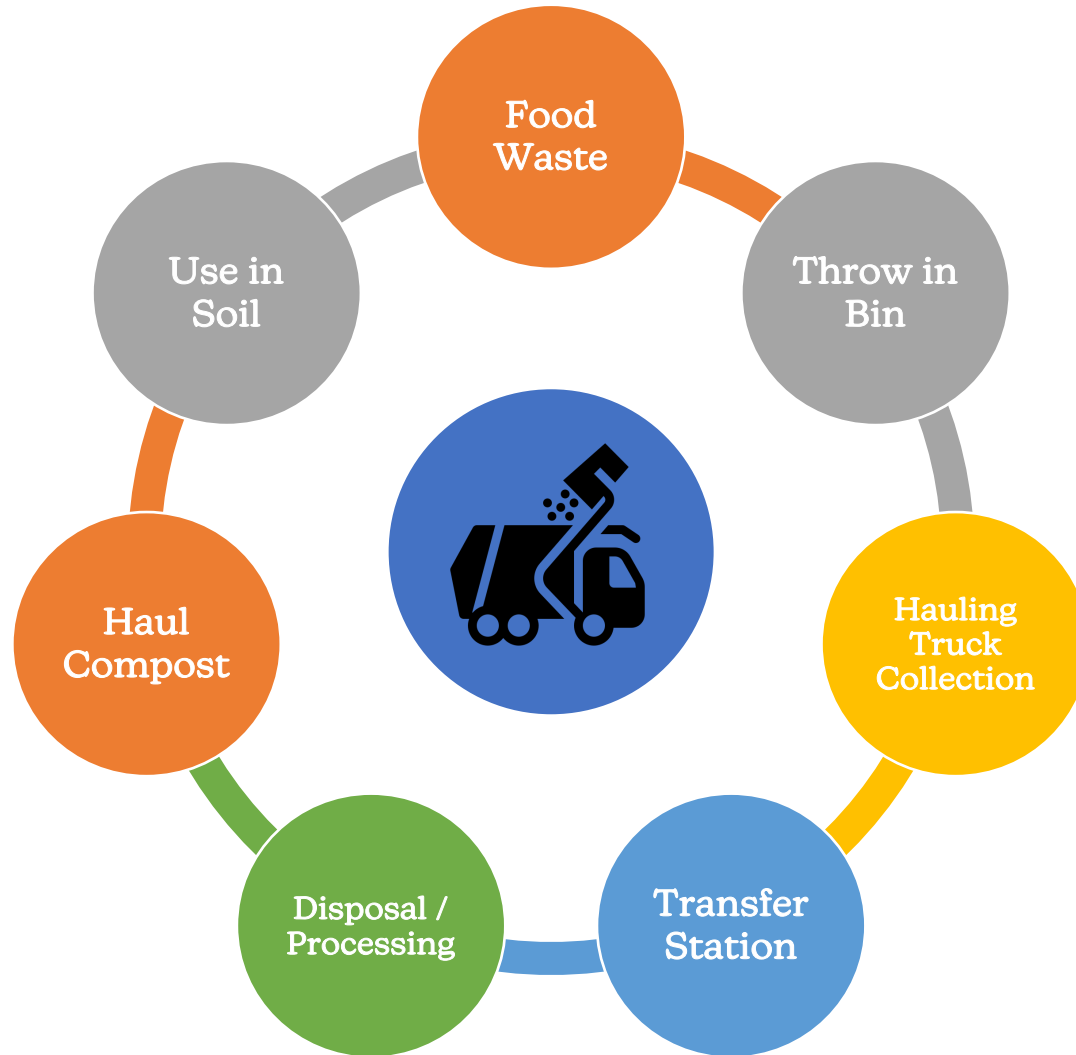


IMPACT: ENVIRONMENT

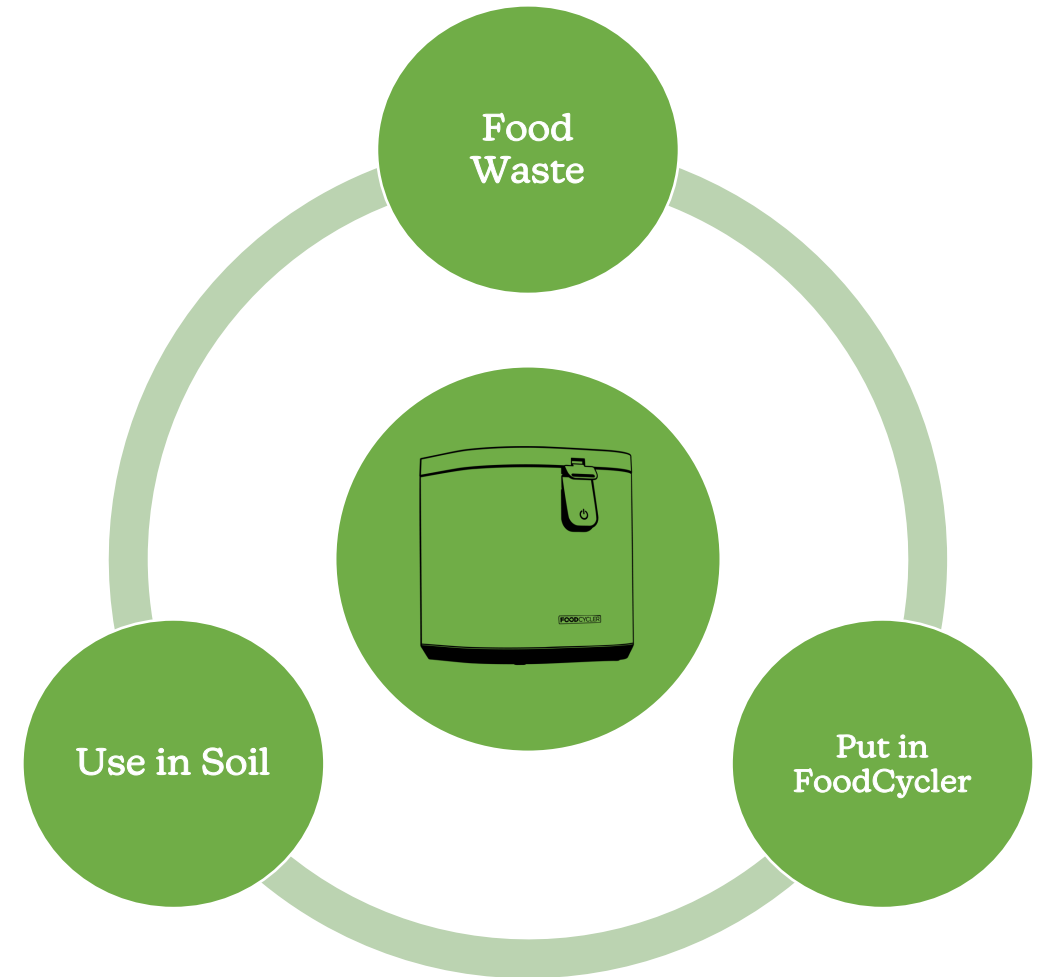
The Path to Net Zero



IMPACT: ECONOMIC



Traditional Waste Management



FoodCycler

IMPACT: PRESSURE

Regulatory + Social

THE TIME IS NOW

- Constituents want **solutions** to reduce their environmental impact
- Waste is perceived as a government problem and **regulations** are coming
- Food waste is “low-hanging fruit” to achieving higher **diversion** and addressing the environmental impact of waste



"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)

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

Pilot participant in South Glengarry

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

Pilot participant in Hornepayne

"It alleviates a lot of the concerns that people might have with backyard composting. The time commitment, the location, pests and animals..."

**Kylie Hissa, Strategic Initiatives Officer
(Kenora, ON)**

THE FOODCYCLER PILOTS

The results are in.

Participation Rate **98%**

Completed* pilots in:

6,000+
Households

50+
Municipalities



THE FOODCYCLER PILOTS

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FOOD WASTE REDUCTION CHALLENGE

Impact Canada Finalists

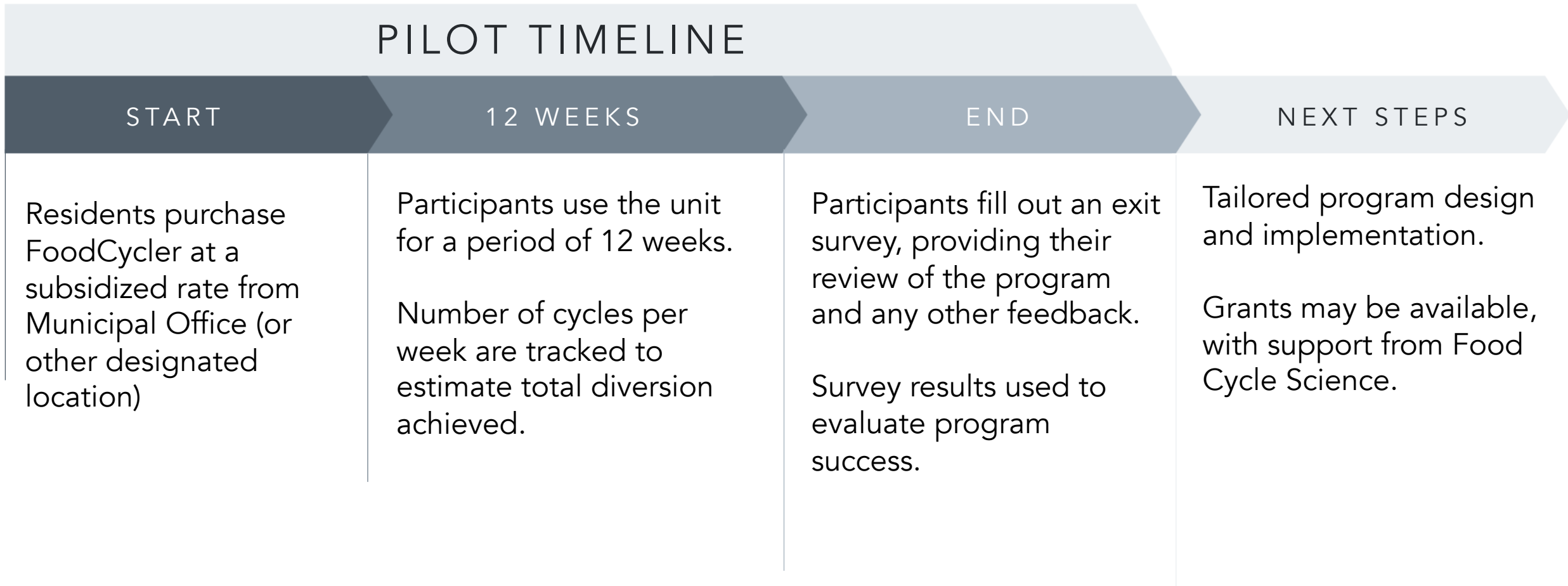
Federal Funding

- ✓ Semi-Finalists in Stage 1 received \$100,000
- ✓ Finalists in Stage 2 received \$400,000
- Finalists will compete in Stage 3 to win one of two Grand Prizes of up to \$1,500,000



PILOT PROGRAM

12 Weeks from Start to Finish



FUNDED PILOT PROGRAM OPTIONS

Municipal Subsidy Model



FOODCYCLER™
FC-30

\$500

-\$200

-\$50

\$100

\$150

RETAIL PRICE

MUNICIPAL
DISCOUNT

IMPACT CANADA
INVESTMENT

* 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
< 2,500 Residents	50 Households	\$5,000
2,500 – 10,000 Residents	100 Households	\$10,000
10,000 – 20,000 Residents	200 Households	\$20,000
> 20,000 Residents	250+ Households	\$25,000+

- Plus shipping costs and applicable taxes



Next Steps

- 🍃 We kindly ask that you receive our presentation as information
- 🍃 If interested in partnering, please refer to Staff for a recommendation to Council



MERCI! THANK YOU!

Kassia Régnier

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The Municipal Solutions Team

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