TOGETHER

Transforming Recycling For Good







Jill MartinDirector of Community Programs



Cassandra Ford
Community Program Coordinator



Each day we work together with communities and companies to help families in America recycle, and recycle well.





How?

Increase access to recycling
Increase capture of recyclables
Improve quality of recyclables





It's working.

We have already reached a quarter of the U.S. population with system-wide recycling solutions that are improving communities, the planet, and people's lives.



Our Funding Partners









































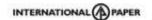






























































A few of the communities we've worked with...



DENVER, CO



EL PASO, TX



MASSACHEUSETTS



OHIO



ATLANA, GA



CHICAGO, IL



SANTA FE, NM



ATHENS, OH



ST PAUL, MN



OUTAGAMIE CO, WI





74MM
Households
Impacted





\$56mm Infrastructure

5.7:1
Leverage of Spend

233Mlbs
Recyclables
Diverted











MANUFACTURING
FEEDSTOCK that competes
with OTHER raw materials

Only when RECYCLED CONTENT REPLACES virgin content, will we enjoy the ECONOMIC and ENVIRONMENTAL benefits RECYCLING promises and delivers.

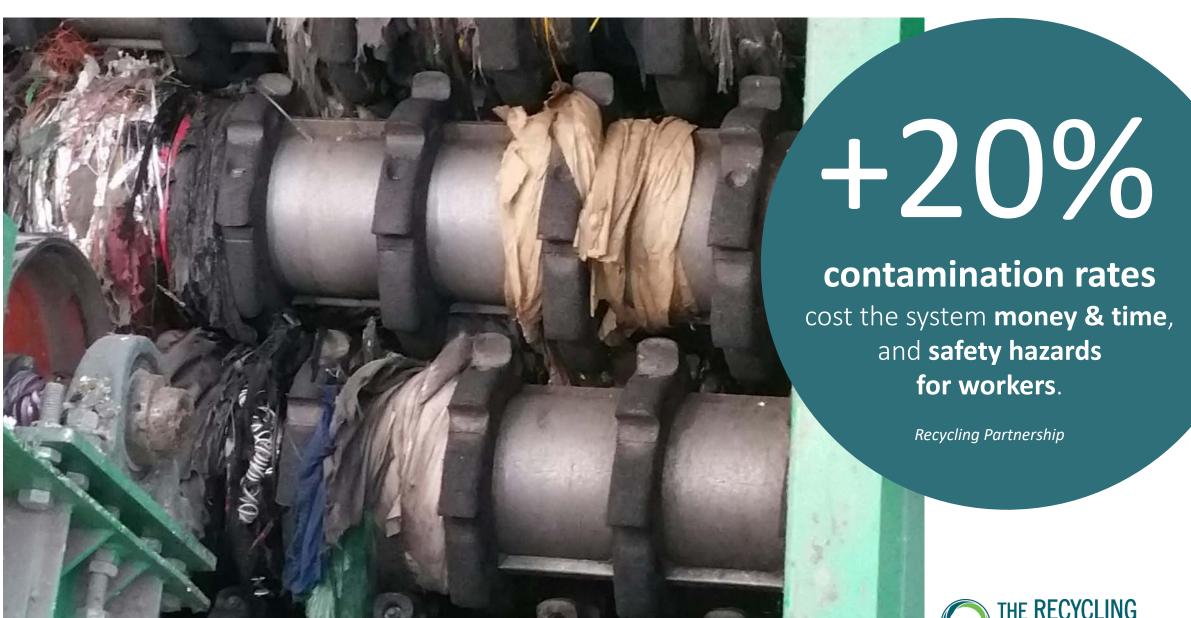




Healthy Recycling Needs a Systems Approach

















contamination

[kuh n-tam-uh-**ney**-shuh]

- 1. The wrong materials in the system.
- 2. The right materials prepared the wrong way.





Common contaminants





PROGRAM STEPS



Feet On The Street Program

A systematic approach that provides curb side feedback in an effort to improve recycling quality and encourage behaviour change









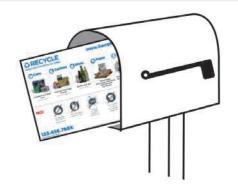
THREE COMMUNICATIONS TO DRIVE PARTICIPATION AND IMPROVE QUALITY

Curbside

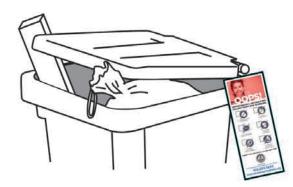
1 INFORM AND TRIGGER

2 PERSONALIZED FEEDBACK

3 ISSUE SPECIFIC COMMUNICATIONS







Curbside Feedback













Drop Off

INFORM – BASIC DO'S AND DON'TS



CLEAR SIGNAGE (Ideally reinforced by mailers, which promote site)

PERSONALIZED FEEDBACK



ONSITE STAFF

ISSUE SPECIFIC COMMUNICATIONS



MAILERS + MEDIA



Step 1-Set it up





Michigan

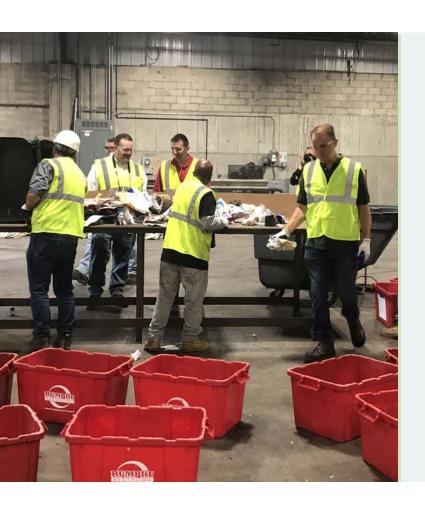
Goal: Clearly set roles and responsibilities with all stakeholders

- Agreement between Grantee and The Partnership
- Hold Onboarding workshops with grantees
- Stakeholder meetings clearly defining roles/responsibilities
- Establish project timeline and budget



Step 2-Sort it out





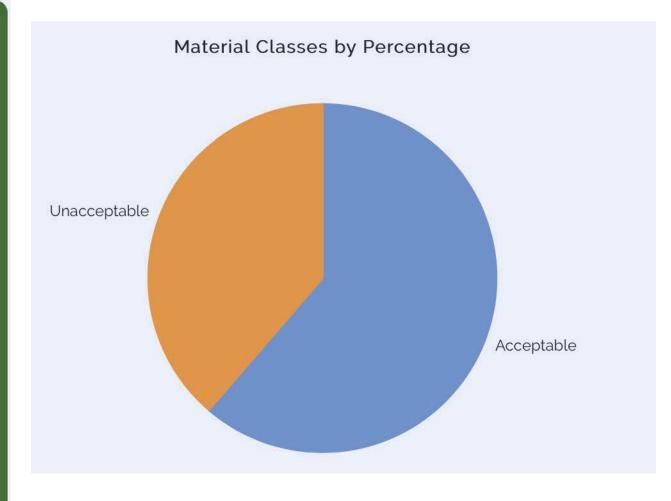
Michigan

Goal: Find out where we are starting from

- Visit MRF and community to determine if and how current inbound contamination is measured
- If not measured, set plan in place to conduct a sort
- The Partnership, MSW consultants, MRF, District and community all participate in the sort
- Sort into 23 categories, find the blended value



0 1			OLL D			11 - /1 11 1	
Code	Material Description	Mean	Std. Dev.	+/-	Tons	lbs/HH	Market
1	Corrugated Cardboard	24.96%	8.50%	3.74%	1,247.8	75.6	\$37,43
2	Mixed Recyclable Paper	24.39%	10.70%	4.71%	1,219.5	73.9	(\$3,049
3	Newspapers in Sleeves	0.00%	0.00%	0.00%	0.0	0.0	
4	Aseptic Containers and Gable Top Cartons	0.50%	0.26%	0.11%	24.9	1.5	
5	Non-Recyclable Fiber	0.00%	0.00%	0.00%	0.0	0.0	
6	#1 PET Bottles	2.92%	0.73%	0.32%	145.9	8.8	\$39,76
7	#2 HDPE Natural Bottles	1.39%	0.88%	0.39%	69.3	4.2	\$31,19
8	#2 HDPE Colored Bottles	1.26%	0.78%	0.34%	62.8	3.8	\$13,18
9	#3-#7 Plastic Bottles	2.47%	1.00%	0.44%	123.7	7.5	\$2,47
10	Plastic Film	1.29%	0.51%	0.23%	64.5	3.9	(\$2,167
11	Rigid Non-bottle Plastic	2.23%	2.01%	0.88%	111.7	6.8	(\$3,752
12	Glass Bottles and Jars	4.75%	2.49%	1.09%	237.3	14.4	(\$2,966
13	Broken Glass	0.00%	0.00%	0.00%	0.0	0.0	
14	Steel Cans	1.73%	0.69%	0.30%	86.3	5.2	\$10,78
15	Aluminum Cans	1.71%	0.85%	0.37%	85.6	5.2	\$95,92
16	Scrap Metal	0.96%	1.41%	0.62%	48.2	2.9	(\$1,618
17	Putrescible Organics	0.00%	0.00%	0.00%	0.0	0.0	
18	Textiles	0.00%	0.00%	0.00%	0.0	0.0	
19	Batteries	0.00%	0.00%	0.00%	0.0	0.0	
20	HHW	0.00%	0.00%	0.00%	0.0	0.0	
21	Opaque Bagged Materials	9.90%	7.56%	3.32%	495.2	30.0	(\$16,639
22	Tanglers	0.00%	0.00%	0.00%	0.0	0.0	
23	Other Non-Recyclable Materials	19.55%	11.36%	4.99%	977.3	59.2	(\$32,836
	TOTALS	100.00%	View Marke	t History	5,000.0	303.0	\$167,73



^{*} Does not take into account increased processing costs due to contamination



Step 3-Implement the program





Michigan

Goal: Educate and Change Behavior

- Pre-Campaign-Let the community know what is happening
- Conduct the Feet on the Street (FOTS) program or drop off audit
- Education campaign and Tagging program
- Don't forget to include the stakeholders along the way
- Measure and collect data



Training - Resources



Cart Tagging Training Video

https://tinyurl.com/TRPCartTagging



GRADE

ıgging	THE RECYC PARTNERS ACCEPTABLE MATERIA MGE: CITY: Please go through said its a	SHIP LS WORK		DATE	recyclingpartnership.org arshall@recyclingpartnership.org
	Please so through each item on the list used to get the local governments and answering the point governments and answering the point governments and building educational materials that are 'You will see non categories under the 1'. Not Despure, learn and set to a mu Dangerous: Item can shut down or dam; PAPER PRODUCT	on Not Access	ighout the comin of column. Here is ing, but does not them employee	Tunity.	also provides the framework to start ad: oblems if found in the stream. he value of material.
	occ		NOT DANGEROUS		DO NOT WANT ON UST BUT ACCEPT
	Pizza Boxes				,
	Newspaper				
	Magazines				
	Hard Cover Books				
	Paperback Books				
	Office Paper				
	Junk Mail				
	Cartons (gable top containers				
	like milk, orange Juice, etc)				
	Shredded Paper				
	Directions on how to Prepare				
	Round Can (fiber body, metal bottom)				
	Cold Cups (e.g. paper fountain drink com)				
	not Cups (e.g. coffee cup)				
	Take-out Containers				
	Paperboard Boxes				
	Kraft Bags				
	Tissue Paper				
	Ice Cream Control		J		
MATERIAL TRACKING FORM Hauler:	Dete:				1
E - 380729	11 - 11 - 11				
umber: Container	Number (if drop-off):	-			
	Material (if drop-off):				
	cans, cardboard, paper)	ality is bad.			
Less than 10% of material is contaminated.	of material is	er 20% material is staminated.			
or C? Recyclables in Bags Refus	e in Bags				
nant: Wood Waste Large bulky/h	eavy Items Hazardous Waste Tanj	glers T	extiles		
Other:aphed? Quality Inspection Signature:					
aphed? Quality Inspection Signature:					
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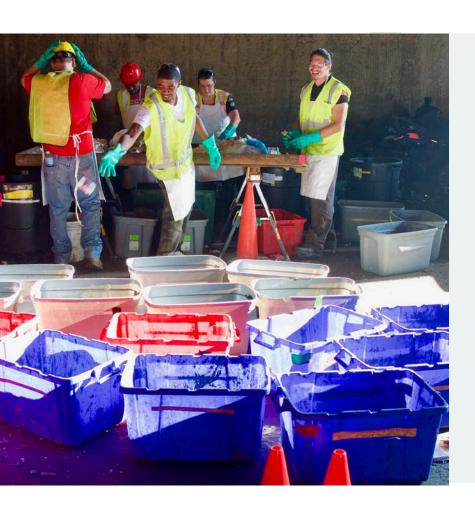
Resources to Overcome Contamination

• https://recyclingpartnership.org/for-communities



Step 4-Sort it all out again





Michigan

Goal: Find out if and what impacts the program had

- Conduct a post-sort
- Analyze data participation and set out
- Education campaign and Tagging program
- Don't forget to include the stakeholders along the way



Step 5-Tell the Story



Press Event

Akron

Akron launching new recycling program to crack down on contamination

Posted: 9:33 PM, Jun 01, 2019 Updated: 9:33 PM, Jun 01, 2019





AKRON, Ohio — Do you know how to recycle properly? Well if not and you live in Akron, you'll soon be getting a lesson on how to do it the right way.





Ready to run? Click

the News 5K!



As a reminder, the "feet on the street" initiative to reduce contamination in Akron's recycling stream officially begins today!

There will be specially-trained personnel conducting curbside cart observations. Residents who have contaminants in their recycling carts will receive informational "Oops" tags on their carts with direct feedback designed to improve recycling cart contents. Recycling carts found to contain contaminants will not be emptied. Instead, residents will be given the opportunity to correct the mistake and return the cart to the curb the following week. Customers who continue to contaminate the recycling stream by placing prohibited items or garbage in their recycling cart will no longer be permitted to participate in the program.

For more information, check out the full release: https://www.akronohio.gov/.../news/44b6f1ba851b007c/index.html





RESULTS



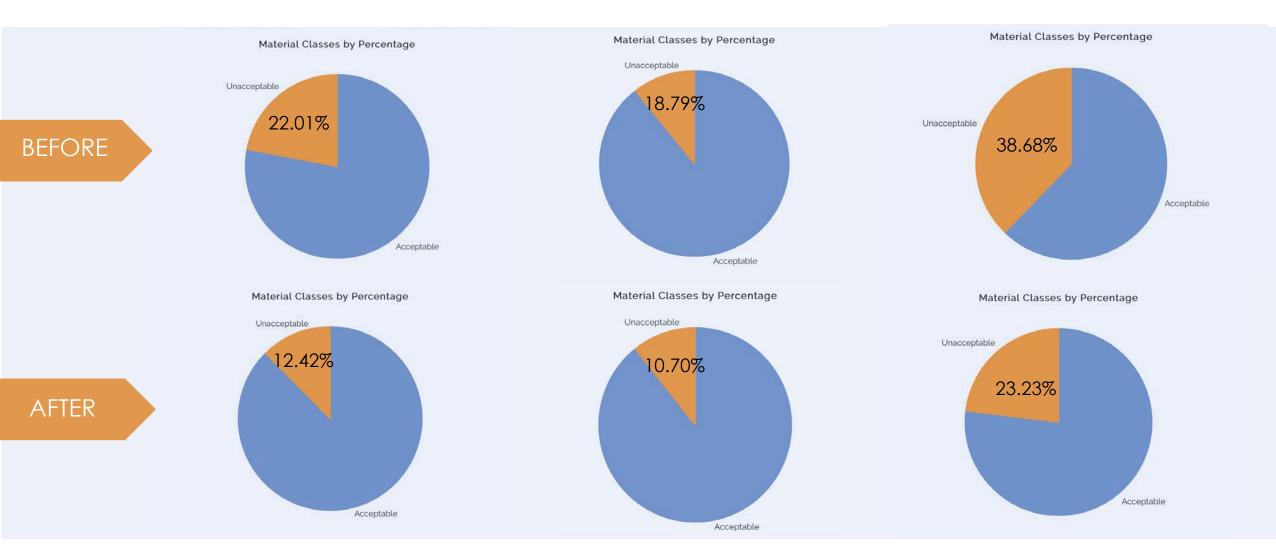
Ohio

Fairfield 11,594 Households

44% reduction

Centerville 1,492 households Akron 33,000 Households

43% reduction



40% reduction

Before and After Impacts on Blended Value

Prices are based on Index, does not reflect MRF pricing

Code	Material Description	Mean	Std. Dev.	+/-	Tons	lbs/HH	Market*
1	Corrugated Cardboard	24.98%	8.19%	3.48%	2,123.1	128.7	\$63,692
2	Mixed Recyclable Paper	25.10%	10.67%	4.53%	2,133.1	129.3	(\$5,333)
3	Newspapers in Sleeves	0.00%	0.00%	0.00%	0.0	0.0	
4	Aseptic Containers and Gable Top Cartons	0.53%	0.28%	0.12%	45.0	2.7	
5	Non-Recyclable Fiber	0.00%	0.00%	0.00%	0.0	0.0	
6	#1 PET Bottles	2.94%	0.71%	0.30%	250.2	15.2	\$55,038
7	#2 HDPE Natural Bottles	1.36%	0.85%	0.36%	115.7	7.0	\$64,801
8	#2 HDPE Colored Bottles	1.27%	0.76%	0.32%	107.9	6.5	\$22,667
9	#3-#7 Plastic Bottles	2.62%	1.11%	0.47%	222.3	13.5	\$4,446
10	Plastic Film	1.28%	0.50%	0.21%	108.6	6.6	(\$5,099)
11	Rigid Non-bottle Plastic	2.42%	2.06%	0.88%	205.5	12.5	(\$9,648)
12	Glass Bottles and Jars	4.97%	2.56%	1.09%	422.8	25.6	(\$5,286)
13	Broken Glass	0.00%	0.00%	0.00%	0.0	0.0	-
14	Steel Cans	1.75%	0.67%	0.29%	148.9	9.0	\$18,611
15	Aluminum Cans	1.72%	0.82%	0.35%	145.9	8.8	\$160,504
16	Scrap Metal	1.09%	1.45%	0.61%	92.5	5.6	(\$4,340)
17	Putrescible Organics	0.00%	0.00%	0.00%	0.0	0.0	
18	Textiles	0.00%	0.00%	0.00%	0.0	0.0	
19	Batteries	0.00%	0.00%	0.00%	0.0	0.0	
20	HHW	0.00%	0.00%	0.00%	0.0	0.0	
21	Opaque Bagged Materials	9.29%	765%	3.25%	790.0	47.9	(\$37,083)
22	Tanglers	0.00%	0.00%	0.00%	0.0	0.0	
23	Other Non-Recyclable Materials	18.69%	11.44%	4.86%	1,588.4	96.3	(\$74,559)
	TOTALS:	100.00%	View Marke	t History	8,500.0	515.2	\$248 413
7.0	able materials market index provided by Rec Disposal index used for market valued Id Tonnage/Households		on: \$46.94	Cur	rent value	oer ton: \$	i29.23/t

Code	Material Description	Mean	Std. Dev.	+/-	Tons	lbs/HH	Market*
1	Corrugated Cardboard	23.78%	7.30%	4.24%	2,021.1	122.5	\$60,634
2	Mixed Recyclable Paper	36.26%	8.84%	5.14%	3,081.8	186.8	(\$7,704)
3	Newspapers in Sleeves	0.00%	0.00%	0.00%	0.0	0.0	1.57/4
4	Aseptic Containers and Gable Top Cartons	0.57%	0.21%	0.12%	48.2	2.9	
5	Non-Recyclable Fiber	0.00%	0.00%	0.00%	0.0	0.0	1 <u>44</u> 5
6	#1 PET Bottles	4.67%	0.66%	0.38%	396.9	24.1	\$87,311
7	#2 HDPE Natural Bottles	1.61%	0.45%	0.26%	137.2	8.3	\$76,811
8	#2 HDPE Colored Bottles	1.41%	0.55%	0.32%	119.7	7.3	\$25,140
9	#3-#7 Plastic Bottles	3.71%	1.22%	0.71%	315.5	19.1	\$6,309
10	Plastic Film	0.69%	0.34%	0.20%	59.0	3.6	(\$2,769)
11	Rigid Non-bottle Plastic	2.26%	0.95%	0.55%	192.4	11.7	(\$9,033)
12	Glass Bottles and Jars	6.41%	2.36%	1.37%	545.0	33.0	(\$6,812)
13	Broken Glass	0.00%	0.00%	0.00%	0.0	0.0	
14	Steel Cans	2.27%	0.95%	0.56%	192.8	11.7	\$24,099
15	Aluminum Cans	2.67%	0.81%	0.47%	226.8	13.7	\$249,515
16	Scrap Metal	0.20%	0.37%	0.22%	17.2	1.0	(\$809)
17	Putrescible Organics	0.00%	0.00%	0.00%	0.0	0.0	
18	Textiles	0.00%	0.00%	0.00%	0.0	0.0	
19	Batteries	0.00%	0.00%	0.00%	0.0	0.0	
20	HHW	0.00%	0.00%	0.00%	0.0	0.0	
2	Opaque Bagged Materials	0.08%	0.15%	0.09%	6.7	0.4	(\$315)
22	Tanglers	0.00%	0.00%	0.00%	0.0	0.0	
23	Other Non-Recyclable Materials	13.41%	7.14%	4.15%	1,139.7	69.1	(\$53,498)
	TOTALS:	100.00%	View Marke	et History	8,500.0	515.2	\$448,880
Recycla	able materials market index provided by Rec <i>Disposal index used for market va</i>			Cui	rent value	e per to.v: S	52.81/
		l tons collec					

Conceptual Program ROI - Akron (tonnage 8500)

	Before	After	Change
Contamination Rate	38.68%	23.23%	-40%
Blended Value/ton*	\$29.23	\$52.81	+\$23.58
Annual Blended Value	\$248,413	\$448,880	+\$200,467
Cost of Tagging program			-\$86,000
Net Increase			\$114,467

- Does not reflect cost of processing or collection
- Does not reflect savings for labor, reduced downtime or maintenance due to contamination
 - Based on 10/6/19 RecyclingMarkets.net index pricing



Learned from State of Massachusetts

Rejection Works

45%

tagging decrease in Dartmouth



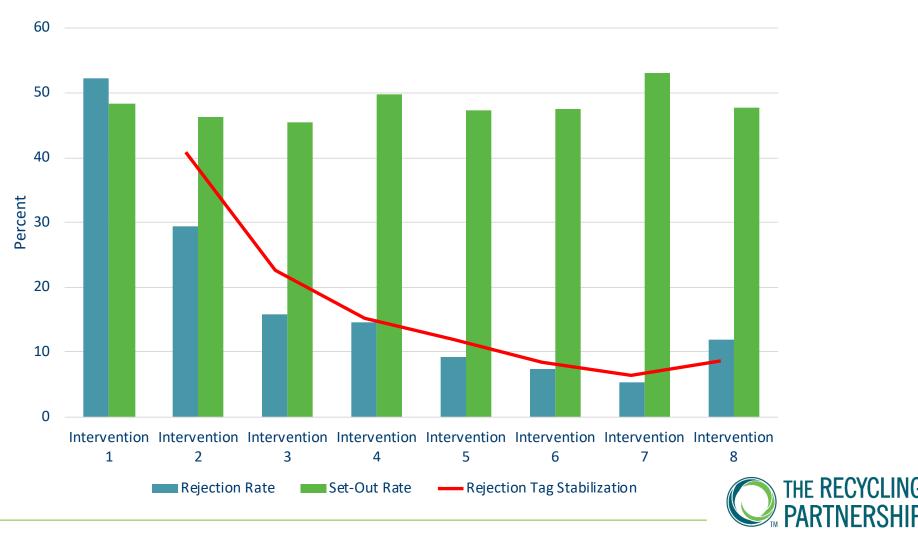
22%

tagging decrease in New Bedford



Learned from State of Massachusetts

Rejection and Set-out Rates for Lowell, MA Pilot



EGLE RECYCLING QUALITY IMPROVEMENT GRANT



Grant Highlights

Who's eligible to apply?

- Drop off and Curbside Recycling Programs
- Rural and Urban communities
- Individual Municipalities and Regional Authorities

How much money is available?

- Funding available for 10-20 grantees to conduct a recycling quality improvement program
- Grant Budget \$3.00/HH
- Maximum \$150,000 per grant application

What does the grant pay for?

- Staff for tagging carts or auditing drop-off locations (temporary staff)
- Printing tags
- Printing and mailing direct mail pieces
- Social media
- Community signage
- Drop-off site anti-contamination security solutions (i.e. fencing, cameras, etc.)
- One-year subscription to an online recycling digital communication platform
- Other innovative contamination reduction strategies



Grant Highlights

What are the key grant selection criteria for funding?

- Ability and readiness of applicant to conduct all of the required elements of the grant program
- Community has support from MRF and hauler
- Number of households in proposed project area
- Willingness to reject contaminated carts at the curb or inspect materials being delivered to drop off locations
- Leverage of additional resources, including local, state, or other non-profit funding





Roles/Responsibilities

EGLE

- Funder
- Partner
- Advisor/resource
- Share results

The Recycling Partnership

- Contractor/Consultant
- Evaluation Team
- Facilitator/Coach/Trainer
- Share results

Grantee

- Submit grant
- Conduct initial program/project
- Sustain program
- Gather data
- Report out results



Roles/Responsibilities

Hauler

- Sponsor/support grant recipient
- Potential funder
- Driver meetings, engagement and buy-in
- Record data
- Provide address list
- Coordinate routing

Processor/MRF

- Sponsor/support grant recipient
- Potential funder
- Conduct audit sorts and capture data



Funding

Reimbursement

- Grantee submits invoice(s) and all required documentation.
- TRP issues payment within thirty (30) days of invoice.
- Total grant distributions will not exceed
 90 percent of reimbursable costs until grantee submits final project report
- Funds not expended by end of grant contract term will be forfeited.
- Any funds expended prior to start of grant period will not be reimbursed.

Funding Responsibilities

- Quality Improvement Program (up to \$3/HH) – Grantee thru grant
- Optional components of the program – Grantee thru additional funds beyond grant (e.g. >50,000 Households)
- MRF Audit Training TRP
- Grantee Onboarding (MRC workshop) TRP



Measurement

Performance Metrics Needed for Application

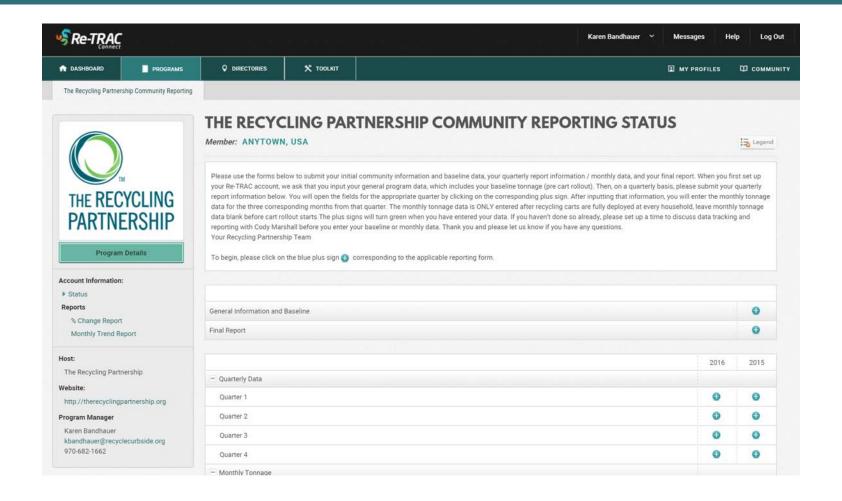
Number of Households (HH) served

Performance Metrics Desired for Reporting

- Tons collected
- Pounds per HH served
- Set Out Rate
- Participation Rate
- In-bound Contamination Rate
- Residual Rate



Reporting





Application

Application

- Review complete application instructions available in the RFP
- Gain letters of support from MRF and hauler(s)
- Fill out the Municipal Measurement Program (if individual municipality) online at www.municipalmeasurement.com.



EGLE Grant Timeline



January 6	RFP Release
February 28	Application Due Date
April	Award Grantees
May	Onboarding Workshop
June/TBD	Project Kickoff







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