



NERC

Should Munis Get Back in the MRF Game?

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What is a MRF?

Materials Recycling Facility



Should a Municipality Get Back In the Game?



Program Objectives

Ownership Structure

Commercial Recycling Rates

Outreach & Education

Regional Opportunities

Politics

Bans and Mandates

Existing Processing Facilities

Competition

Market Timing

Population

Existing vs. Greenfield

Cost of Business

Revenue Share

Integration of Services

Disposal Fees

Residential Recycling Rates

Tons Processed

Length of Contracts

Policy Drivers

Materials Collected

Local Market

Operational Structure

Community Support

Commodity Values

Overall Responsibilities

Tip Fees

Many Variables...



All Services Have a Cost



The Players: Perspectives & Objectives



Site

Buildings

Equipment

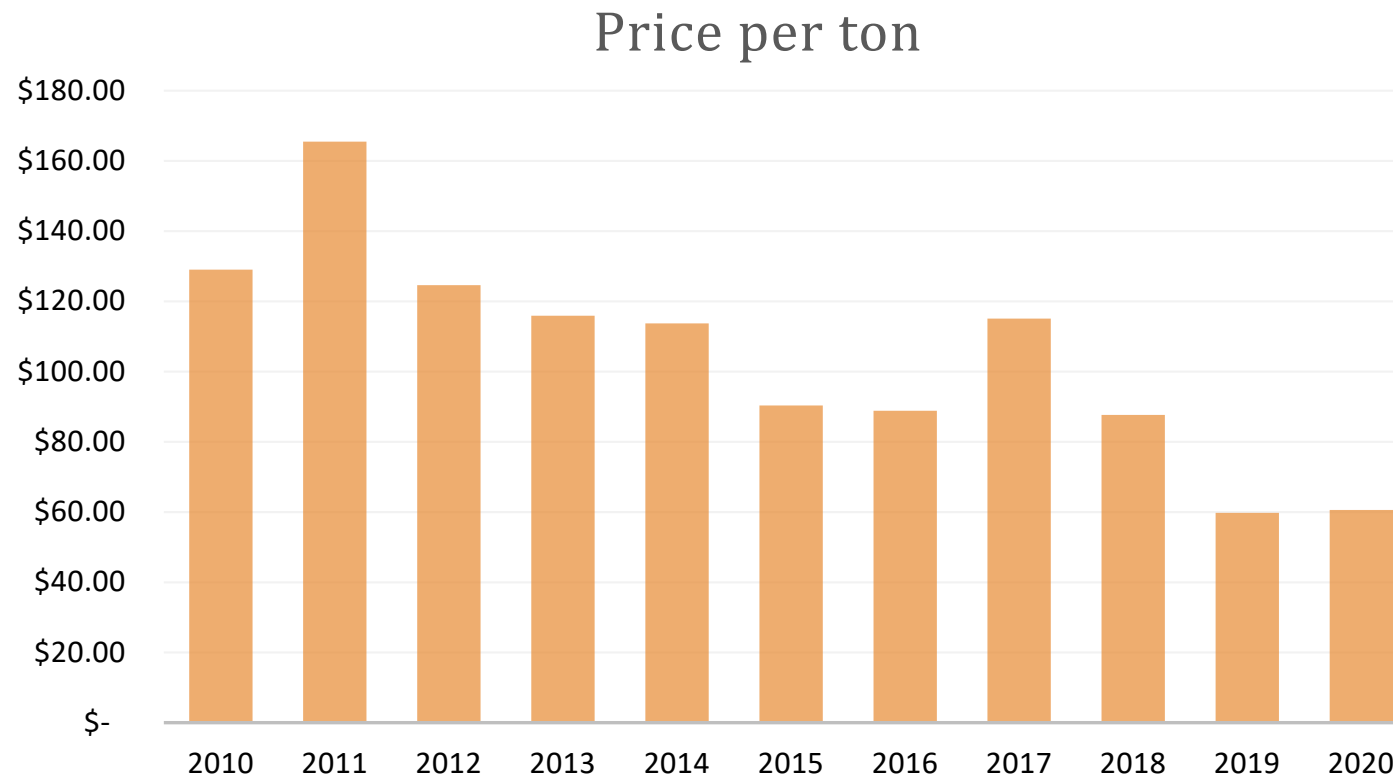
Operations

Marketing

The Ownership & Operational Structure

The Combination of Public and Private Partnerships

Average Market Value (AMV) Trend 2010-2020



Note: Prices are based on a composition conducted in September 2020 for a major metropolitan county in the Southeast US using the first published monthly average index prices for the Southeast US from recyclingmarkets.net.

A Tale of Two Cities

AMV of Single Recyclables (2020)

	Composition (% weight)	Average Index Price (\$/ton)	AMV Calculation (\$/ton)
Mixed Paper PS#54	18.1%	\$27.50	\$4.98
SRP PS#56	3.9%	\$47.50	\$1.85
Cardboard PS#11	18.6%	\$67.50	\$12.56
Aluminum Cans (Baled)	1.6%	\$980.00	\$15.68
Steel Cans (Baled)	1.5%	\$35.00	\$0.53
PET	5.2%	\$140.00	\$7.28
Natural HDPE	1.3%	\$1,330.00	\$17.29
Colored HDPE	1.7%	\$375.00	\$6.38
Plastics #3-7	1.8%	-\$30.00	(\$0.54)
Bulky Rigid Plastics	1.3%	\$40.00	\$0.52
Mixed Glass	15.8%	-\$35.00	(\$5.53)
Contamination	29.2%	\$0.00	\$0.00
	100.0%		\$60.99

	Composition (% weight)	Average Index Price (\$/ton)	AMV Calculation (\$/ton)
Mixed Paper PS#54	15.5%	\$27.50	\$4.26
SRP PS#56	6.6%	\$47.50	\$3.14
Cardboard PS#11	30.6%	\$67.50	\$20.66
Aluminum Cans (Baled)	2.5%	\$980.00	\$24.50
Steel Cans (Baled)	1.2%	\$35.00	\$0.42
PET	4.2%	\$140.00	\$5.88
Natural HDPE	0.9%	\$1,330.00	\$11.97
Colored HDPE	1.2%	\$375.00	\$4.50
Plastics #3-7	1.8%	-\$30.00	(\$0.54)
Bulky Rigid Plastics	0.5%	\$40.00	\$0.20
Mixed Glass	16.0%	-\$35.00	(\$5.60)
Contamination	19.0%	\$0.00	\$0.00
	100.0%		\$69.38

Note: Composition for both communities was based upon statistically valid Composition Studies conducted in 2020.
Average index price based upon the first published monthly average index prices for the Southeast US from recyclingmarkets.net.



Partnerships & Collaboration

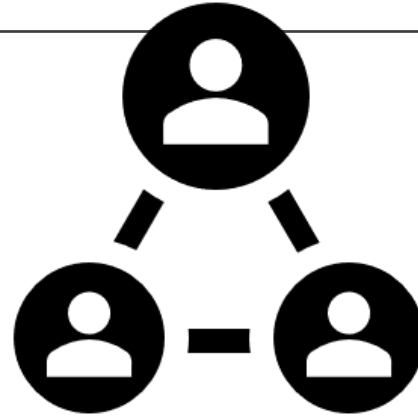
Public MRF Feasibility Studies...

- Cape May, NJ
- Denver, CO
- Durham, NC
- Boston Mtn & Benton Solid Waste Districts, AR
- Miami-Dade County, FL

Public MRF Programs

- Charleston County, SC
- Emerald Coast Utility Authority, FL
- Mecklenburg County, NC
- Solid Waste Authority Palm Beach, FL
- Springfield, MA

The Disconnect



- Processing Costs
- Commodity Values
- Contamination



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