



Implementing Sustainable Recycling Programs with SWACO's Free Resources

CRLC – Supply Chain Evolution August 24, 2023



Introductions

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About SWACO

VISION

A community that is environmentally safe and resourceful.

SWACO MISSION

Manage the waste stream to enable community growth, prosperity, and environmental stewardship.

SWACO GUIDING PRINCIPLES

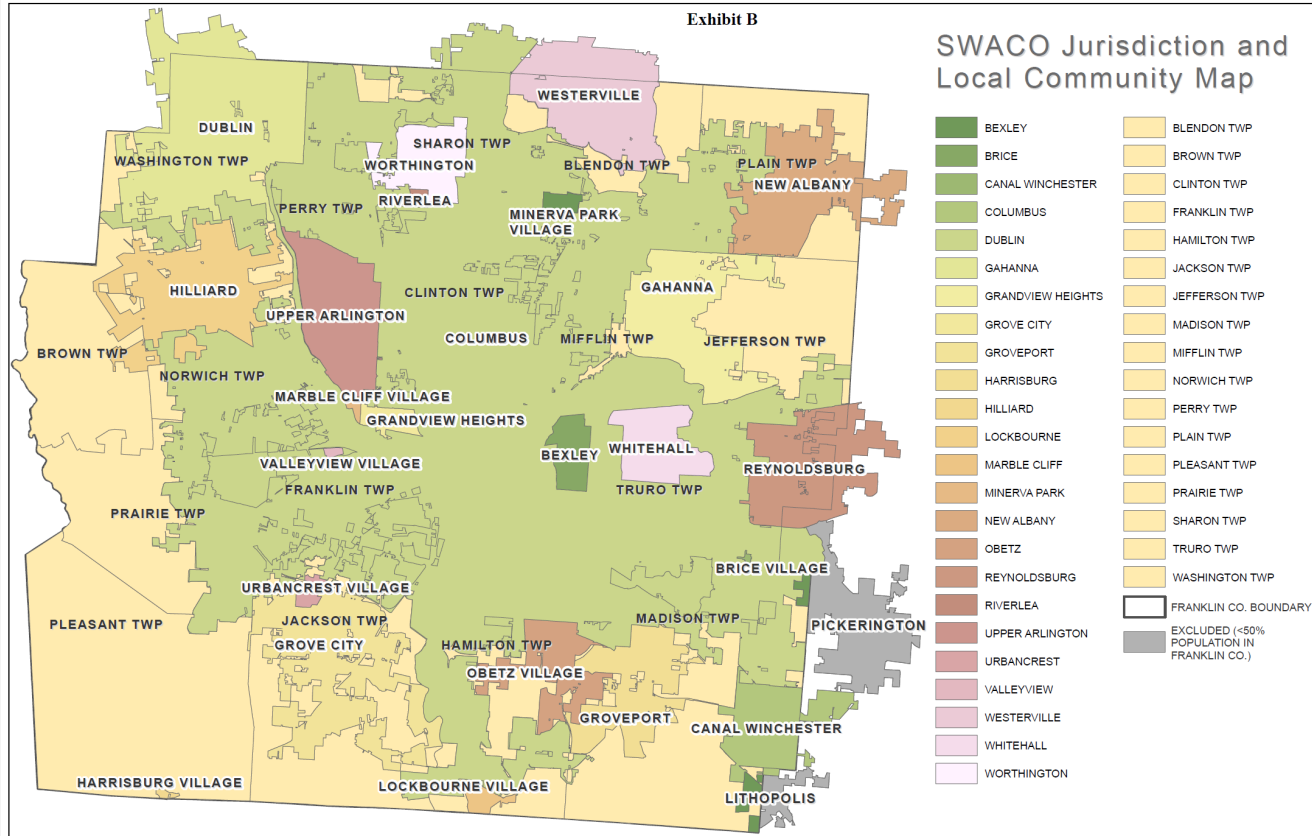
Collaborate with public and private partners.

Operate with transparency, efficiency, innovation, and fiscal responsibility.

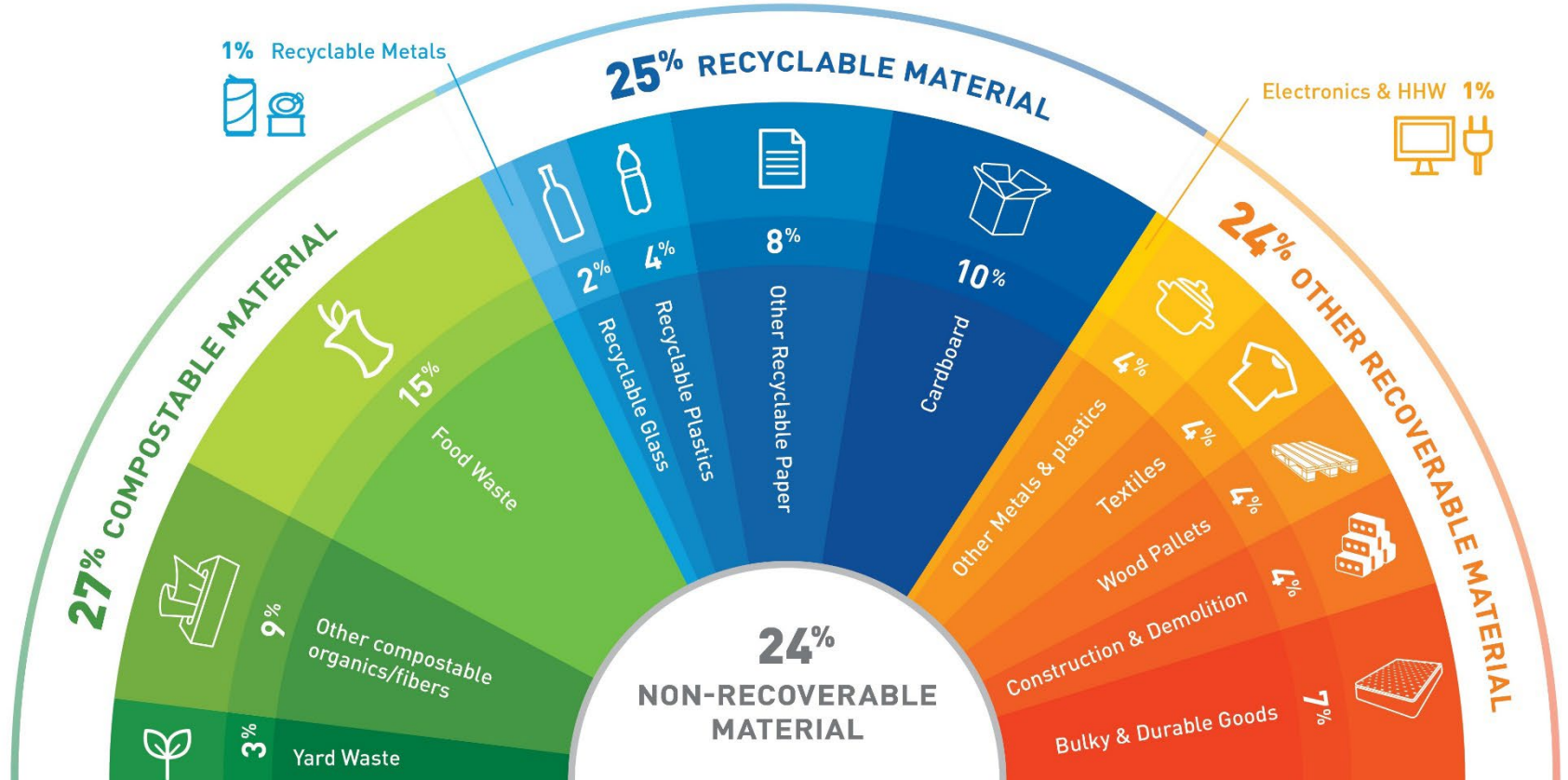
Leverage waste stream for economic benefit. Contribute to a safe and healthy community.

Engage the community through education and outreach.

SWACO's Jurisdiction



76% Potentially Recyclable or Compostable





Direct Impacts of Central Ohio's Recycling Industry

 **372**
businesses


\$1.3 billion
in annual
revenue

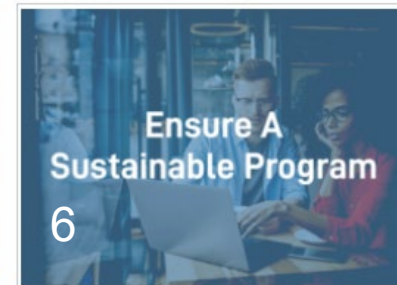
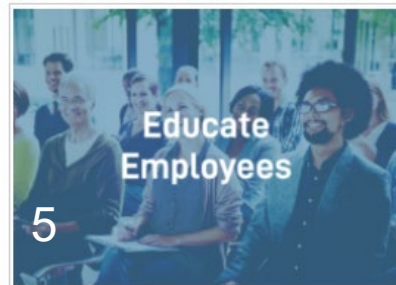
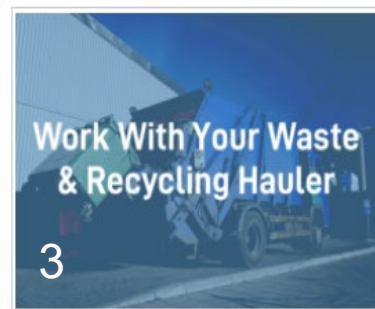
5,000
employees



\$234 
million in payroll



SWACO Business Recycling Toolkit



Develop a Recycling Plan

TEMPLATE RECYCLING PLAN



TEMPLATE RECYCLING PLAN

RECYCLING PLAN: <INSERT BUSINESS NAME HERE>

This document is intended to be a living document that is updated over time as processes, points of contact, or materials accepted change within our recycling program. Within this plan you should be able to find all of the basic information about our recycling program, including who you should contact if you have additional questions.

What Material is Accepted:

Recycling is based on a commodity-based market. As a result, some materials may not be recyclable in certain regions. Here at <insert business name> we currently recycle the following materials.

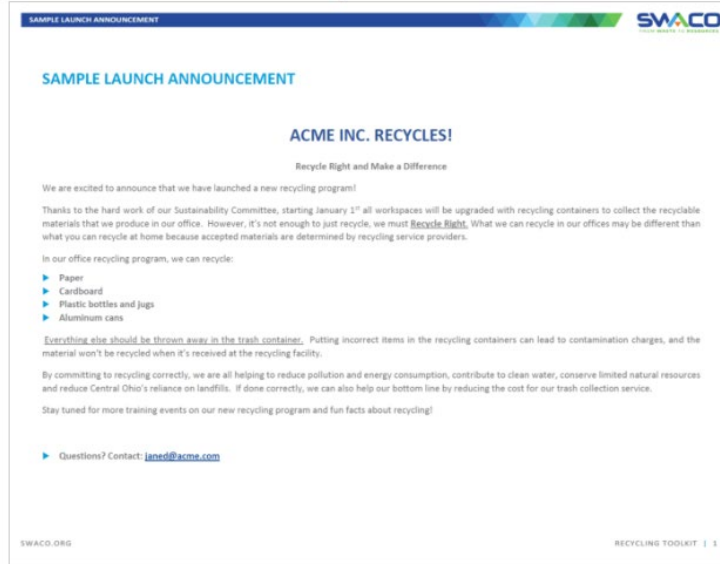
- ▶ Paper
- ▶ Cardboard
- ▶ Aluminum Cans
- ▶ Plastic Bottles
- ▶ Glass



Our fillable word document makes writing your recycling plan easy.

Educational Tools for Business

Click to Download a Sample Launch Announcement



Recycled aluminum cans are back on supermarket shelves in as little as **90 days**. Your actions matter!

Recycle metal cans and cups.

Learn more about recycling at recycleright.org



Our PowerPoint slide deck makes sharing recycling education easy.



Business Recycling Champion Program



The newest resource for businesses



Business Recycling Champions Program is a Three Tier Incentive Program

Container Incentive

50% up to \$1000.00 for purchasing **indoor** recycling containers through one of our vendor partners. This is not a reimbursement program.

Service Start-Up Support Incentive

By signing up for recycling service using a hauler from the participating hauler list, businesses can be eligible for one-time credits that are paid directly to the hauler and applied to the account as a service start-up support credit from SWACO. The service start-up support funding helps businesses with the cost of recycling.

Signage Incentive

50% up to \$500.00 for purchasing signage for indoors or outdoors to direct or educate users on the placement of recyclable materials or the type of materials accepted in the recycling bin. This is not a reimbursement program.





Business Recycling Champions Program -

Container Incentive

We can help your business purchase indoor containers to improve recycling collection. This might look like large 33-gallon BRUTE containers or desk side containers or community collection points. Our funding is a 50% match up to \$1,000.





Participating Haulers include Rumpke and Waste Management

Service Start-Up Support Incentive

By signing up for recycling service with a participating hauler, businesses can be eligible for credits that are paid directly to the hauler and applied to the account as a service start-up support credit from SWACO. The service start-up support funding helps businesses with the cost of recycling.





SWACO'S FREE TECHNICAL ASSISTANCE





EXAMPLES of TECHINICAL ASSISTANCE

- ✓ We can help you write Recycling Plans
- ✓ Conduct Waste Audits
- ✓ Solve for Hard to Recycle Materials
- ✓ Achieve Sustainability Directives
- ✓ Problem solve waste diversion challenges



MARKET DEVELOPMENT GRANTS FROM THE OHIO EPA





Ohio EPA's Market Development Grant

- ✓ Application opens 10/1/23 and closes 12/1/23 for the grant cycle that starts April 1st , 2024
- ✓ If awarded, Grantees have 24 months to complete the project, but can be closed out any time, once completed.
- ✓ A government sponsor is needed to apply



Project Categories for the Market Development Grant

Recycling Equipment	\$200,000	Equipment for collecting and processing of recyclable material (for example, cardboard, glass, plastic, organics, etc.). Equipment for bagging units, balers, containers, conveyors, grinding units, in-vessel composting units, optical sorters, plastic excursion systems, printing and production materials, pulping units, screening equipment, signage, trucks, drying units.
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Ohio EPA Market Development Grant





Ohio Materials Marketplace (Now Rheaply)

Materials Marketplace is now on Rheaply — click to learn more and get started ×



[ABOUT](#) [BENEFITS](#) [MATERIALS IN THE MARKETPLACE](#) [UPDATES](#) [LOGIN](#) [JOIN](#)

Join the Circular Economy

THE OHIO MATERIALS MARKETPLACE IS A FREE ONLINE PLATFORM ALLOWING BUSINESSES AND ORGANIZATIONS TO CONNECT AND FIND REUSE AND RECYCLING SOLUTIONS FOR WASTE AND BY-PRODUCT MATERIALS

Thank You!

STAY CONNECTED:



SWACO.org



@SWACOGreen



@SWACO_Green





ALL AMERICAN

MOVING, STORAGE AND DELIVERY









All American covers most of Ohio, eastern KY and Western WV

TWO TYPES OF DELIVERY CLIENTS...

- We handle inventory, scheduling and routing
- Client handles the above & we simply bump the dock every morning to physically deliver their product



Our Environmental Impact Report

All American has had a robust recycling program since 2009. We have only started collecting the data below since October 2022.



59.85 tons

~ Annual Recycled Material



51.8 metric tons

~ Efforts of CO2 conserved

Cardboard Recycling



Cardboard, together with paper, makes up about 41% of our solid waste stream

In the US, more than 80 BILLION corrugated boxes are used per year.

All American recycles cardboard 2 different ways...

- Our Delivery division bales all of the packaging waste
- Our Moving division buys back used moving boxes and re-sells them for about half price. We will even buy back competitor cartons.

EPS- Expanded Polystyrene

EPE- Expanded Polyethylene



EPS Example



EPE Example

Our Densifier





EPE Blocks after being densified

Densified Product

Benefits of Styrofoam Recycling

- 90:1 compaction
- Frees up the dumpster space and it's a recyclable material- less hauls for trash to the landfill as it isn't full of Styrofoam
- Our business partners want transportation and logistics company that have the same supply chain sustainability initiatives to help them meet their corporate driven directives and increase their ESG scores

Film Plastics

- We bale all the film plastics that come through our facility, and sort colored vs clear for a slightly higher return.
- Most of the recycled plastic is a byproduct from our delivery business, but we also use shrinkwrap in our moving business to protect upholstered items that we relocate. All of that material is recycled as well.



Film Plastic Example

Densifier Equipment

HEAT MELT DENSIFIERS

Avangard Innovative provides a complete line of heat melt foam densifiers to help customers in the collection management of scrap foam material. Our machines process foam by densifying it into block form which becomes a marketable recycling product. We offer several makes and models in varying sizes and production capacities.

FD-10

DENSIFIES
Polystyrene (EPS)

FEATURES

Processes up to 50 Lbs./Hour of Loose EPS Foam
Reduces Foam Volume by Approximately 90 to 1

OPTIONS

Exhaust Vent Kit
Photo Eye
Molds



Technical Specifications

Power kW	3.4 kW
Voltage (V)	110V/220V single-phase
Weight (lbs./kg)	750 lbs. (340 kg)
Max. EPS Capacity	50 lbs./hour (23 kg/hour)
Feed Opening (W x H)	22" x 12" (550 x 279 mm)
Footprint (D x W x H)	47" x 51" x 61" (1203 x 1293 x 1539 mm)

avaicg.com

HEAT MELT DENSIFIERS

Avangard Innovative provides a complete line of heat melt foam densifiers to help customers in the collection management of scrap foam material. Our machines process foam by densifying it into block form which becomes a marketable recycling product. We offer several makes and models in varying sizes and production capacities.

FD-12

DENSIFIES
Polystyrene (EPS)
Polyethylene (EPE)
Polypropylene (EPP)

FEATURES

Processes up to 150 Lbs./Hour of Loose EPS
Foam Reduces Foam Volume by Approximately 90 to 1

OPTIONS

Exhaust Vent Kit
Photo Eye
Molds



Technical Specifications

Power kW	10 kW
Voltage (V)	230V/460V three-phase
Weight (lbs./kg)	838 lbs. (380 kg)
Max. EPS Capacity	150 lbs./hour (68 kg/hour)
Feed Opening (W x H)	22" x 12" (550 x 279 mm)
Footprint (D x W x H)	47" x 51" x 61" (1203 x 1293 x 1539 mm)

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Questions?

