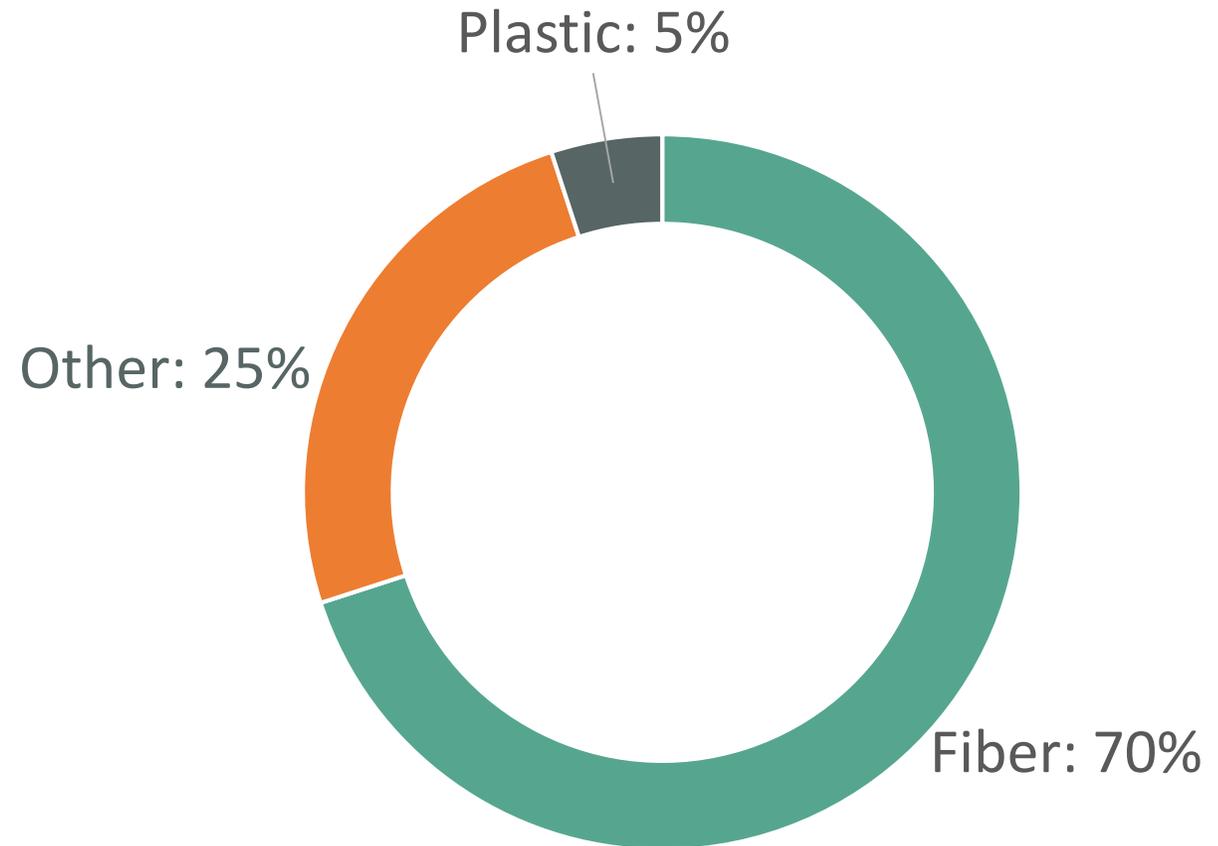


Plastic Market Update

Tonya Randell
February 28, 2019
WIRMC



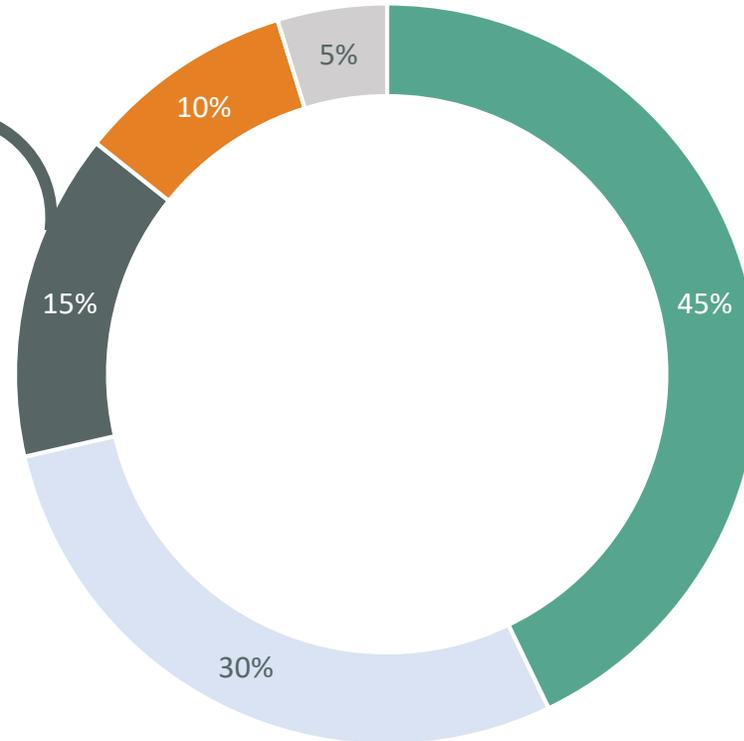
What's in the Curbside Mix?



Estimated Breakout of Curbside Collected Plastic

Within 3-7 Rigid & Small Rigid Segment:

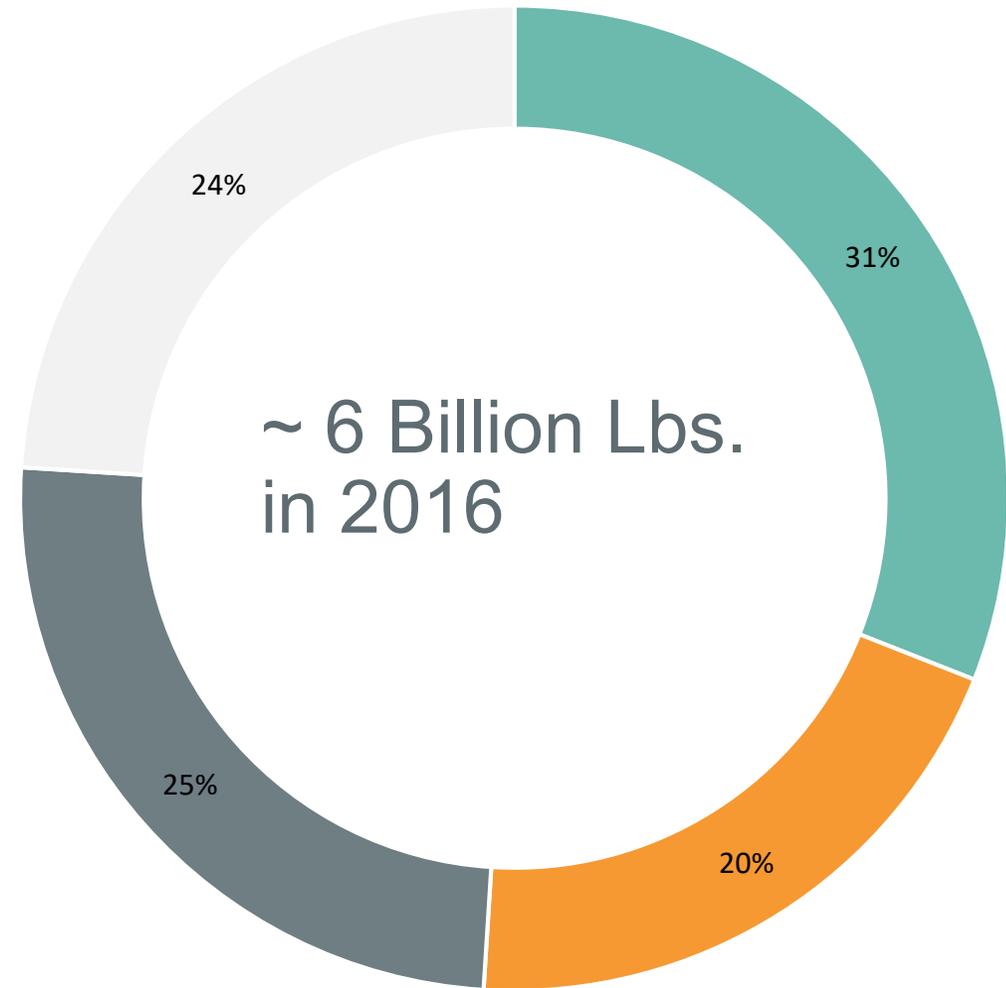
- 33% PP containers
- 17% Thermoform containers
- 14% Missed PET/HDPE bottles



■ PET Bottles ■ HDPE Bottles ■ 3-7 Rigid & Small Rigid Plastic ■ Bulky Plastic ■ Other

Annual Plastic Survey Data

- More Recycling collects data to see what plastics are being recycled in the US and Canada.
- **Data includes post-consumer and post-commercial plastics.**



Made possible by:



■ PET ■ HDPE ■ Non-Bottle Rigid ■ Film



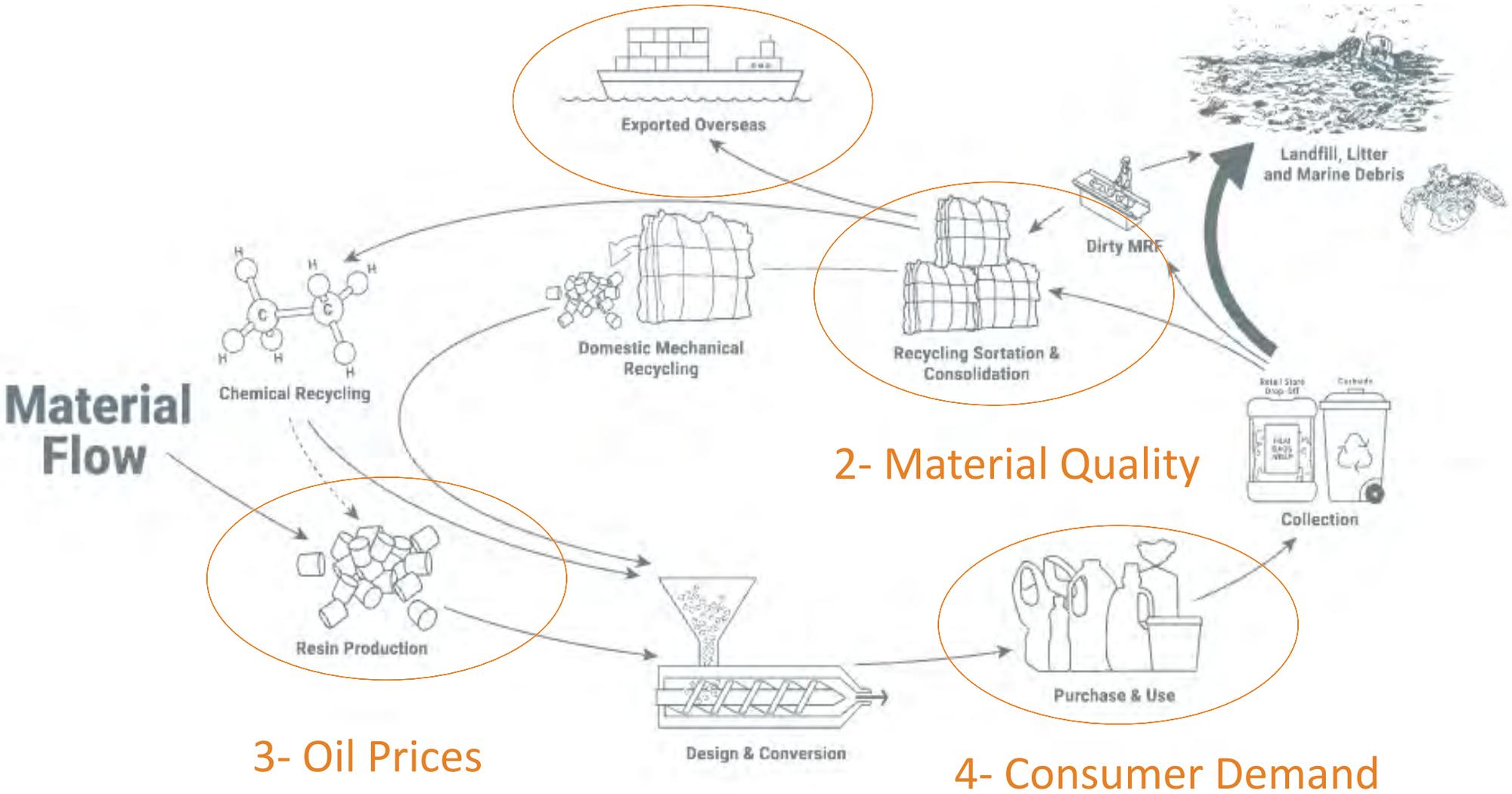
Current Market Conditions

- **Oil Prices Steady**
- **Export Markets Weak (non-existent?)**
- **Domestic Market Prices are Down**
- **Economy is Holding Steady**
- **Growing Brand Commitments/Long-term Sustainability Goals**

Equals: uncertainty in plastic recycling markets at the moment, but hopeful future outlook

Plastic Scrap Market Drivers

1- International Policies

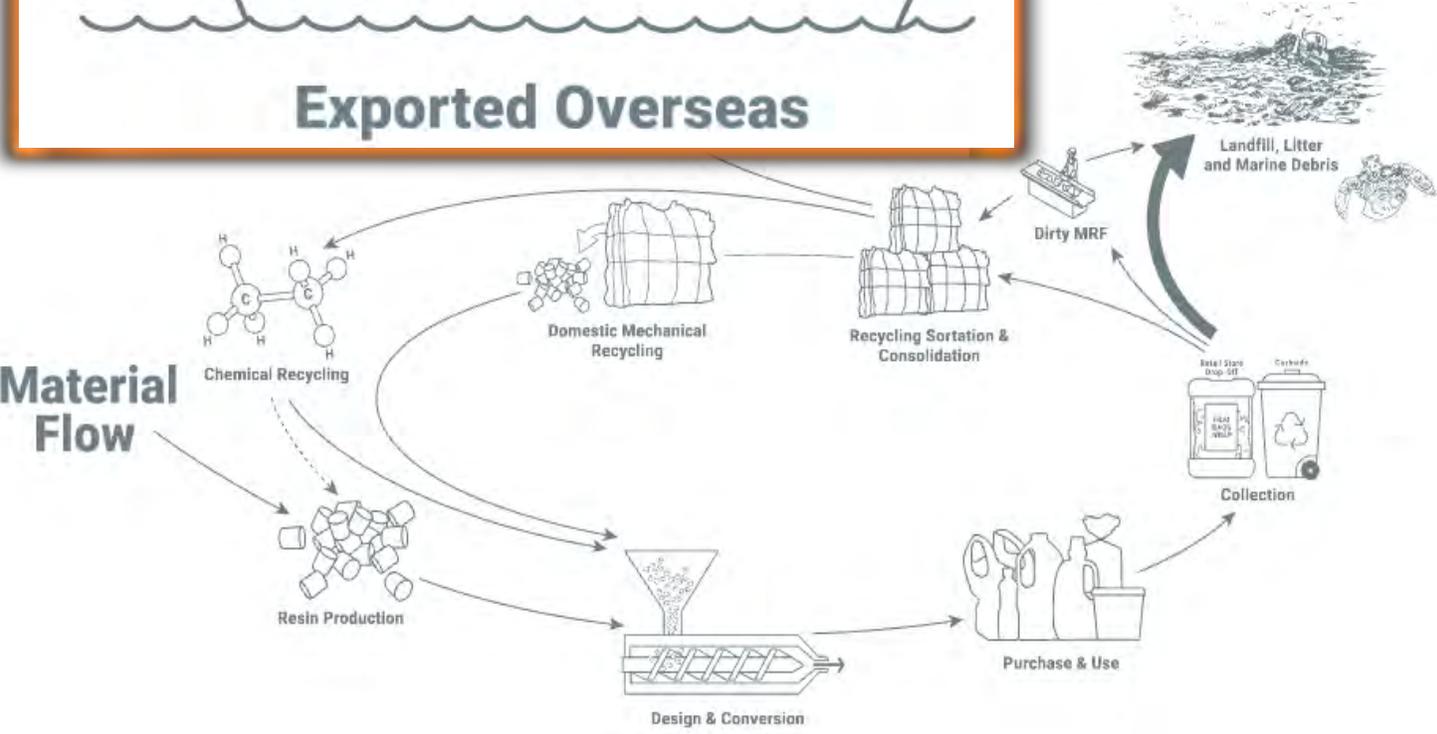


3- Oil Prices

4- Consumer Demand

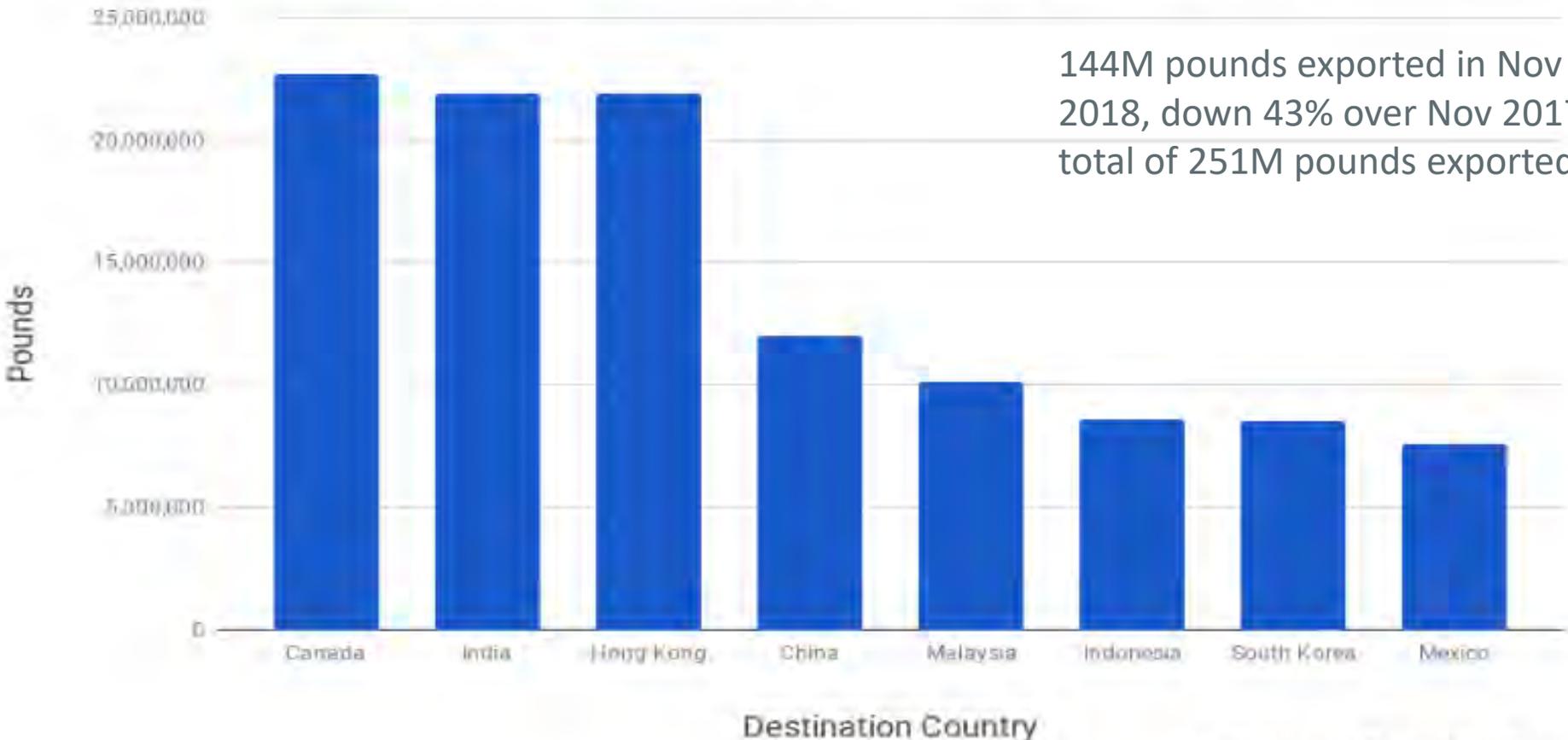
International Policies

Prior to 2018, scrap plastic recyclers depended heavily on foreign markets:
Canada- 22% exported
US- 28% exported
Europe- 50% exported



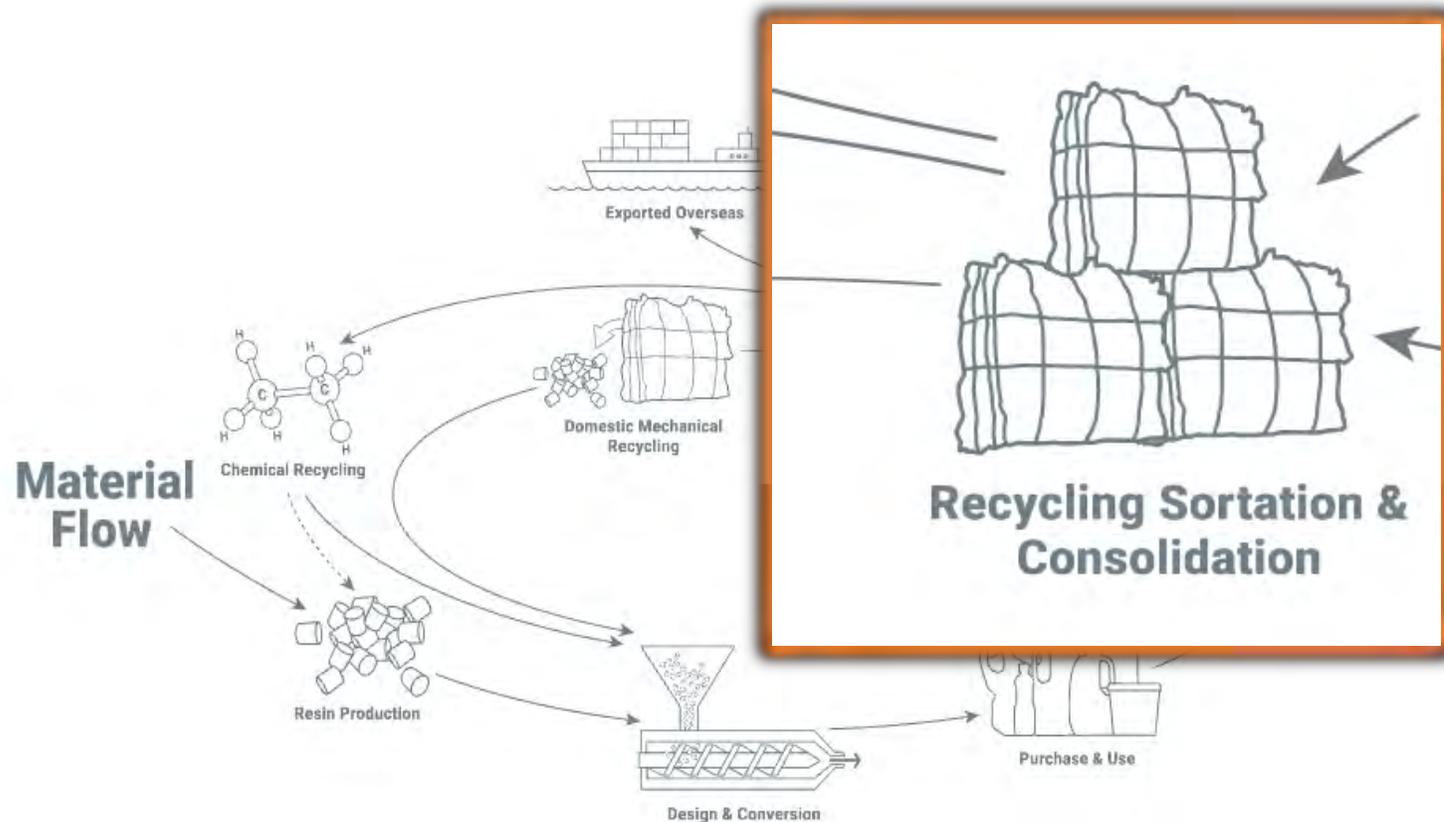
International Policies

U.S. recovered plastic exports, top destinations, November 2018



144M pounds exported in Nov 2018, down 43% over Nov 2017 total of 251M pounds exported.

International Policies



Now there is greater supply than domestic capacity to sort.

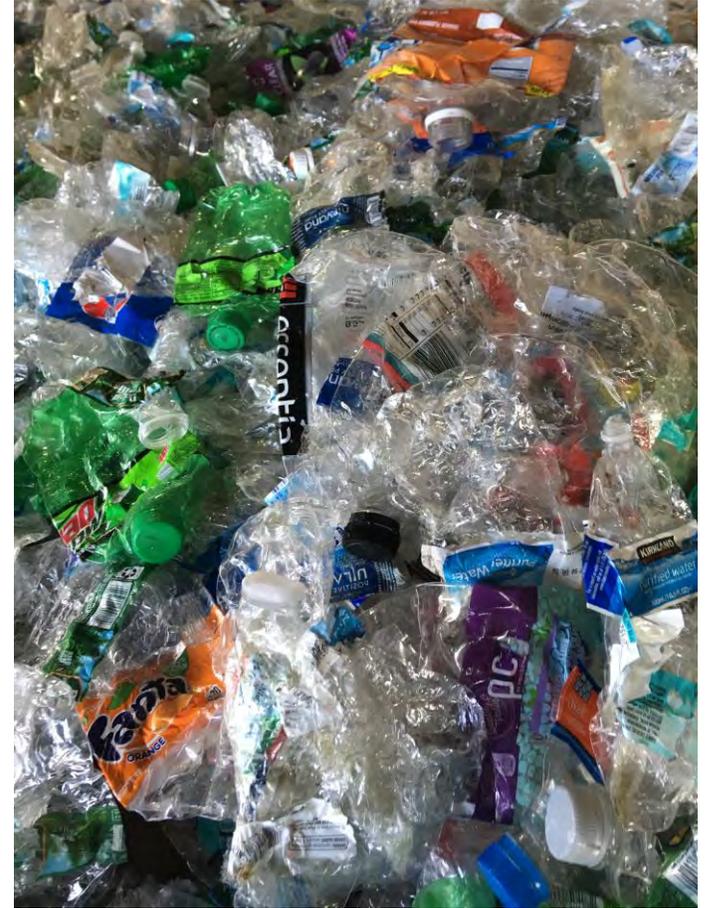
Easy exports stymied infrastructure investment to sort mixed plastic bales.

Material Quality



Domestic market standards are higher, and collection programs are faced with greater processing costs.

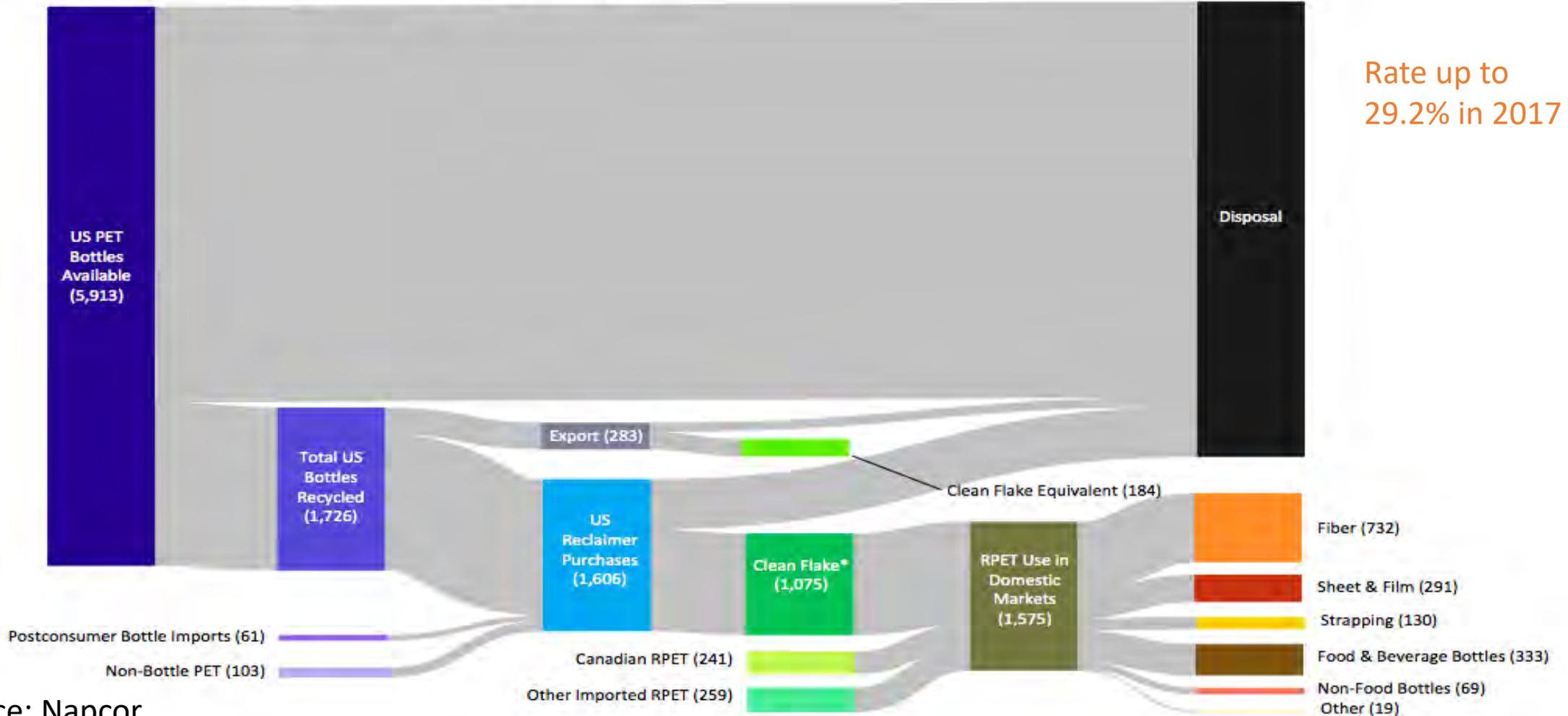
Material Quality



PET Container Recycling Rate = Room to Grow

FIGURE 1: PET Material Flows in the US (MMlbs)

Rate up to
29.2% in 2017



Source: Napcor

Material Quality

Good education supports the entire system.

Enforcement for chronic bad recyclers may be required.

Programs like WRAP, Plastic Terms & Recycling Partnership toolkits provide free resources.



PLASTICS

ACCEPT
All Plastic Bottles & Containers:

- Soda, Water & Other Drink Bottles
- Food & Household Bottles, Jars and Jugs
- Dairy Containers & Lids
- Produce, Bakery & Deli Containers

DO NOT ACCEPT

- No Plastic Bags, Wrap or Film
- No Motor Oil Bottles
- No Styrofoam

PAPER

ACCEPT

- Newspapers & Inserts
- Cardboard & Paperboard (cereal & cracker boxes)
- Junk Mail & Office Paper
- Milk, Juice & Soup Cartons
- Phonebooks, Magazines & Catalogs

DO NOT ACCEPT

- No Paper Contaminated by Food or Grease
- No Tissue
- No Gift Wrap

METAL & GLASS

ACCEPT

- Aluminum Bottles & Cans
- Steel, Tin & Bi-metal Cans
- Empty Aerosol Cans
- Food & Beverage Glass Bottles and Jars

DO NOT ACCEPT

- No Aluminum Pans or Foil
- No Empty Paint Cans
- No Window Glass, Ceramics or China

GUIDELINES:

Empty and rinse all bottles and containers. Remove and discard all screw caps.

GUIDELINES:

Place shredded paper in paper bag, secure & label. Cut boxes to 2 ft x 2 ft or smaller.

GUIDELINES:

Empty and rinse all bottles and containers. Remove and discard all plastic caps.

Items listed in red are NEW!

Posters, Tip Cards, Bill Inserts, and Flyers Available

PlasticFilmRecycling.org/customize

Plastic Recycling Cheat Sheet
Please Recycle: Bottles & Containers, Tubs & Lids, Buckets, Toys

Plastic Recycling Guide
Please Recycle: Bottles & Containers, Bulky Items, Buckets, Toys, Flower Pots, Foam Food Service & Other Containers

SPECIAL INSTRUCTIONS
Please clean all food or other residue from bottles & containers - Include lids with containers

NOT ACCEPTED
No Hazardous Products Containers - No Products that Contain Bio- or Oil - Degradable Additives - No Frozen Food Bags - No Cases - No Pallets

Recycle these items:
Recycle bags at local stores
Recycle batteries at convenience centers.

Town of Rosswood
PO Box 358
Sonoma, CA 94576
Tonya Randell
919 360 4045
www.morerecycling.com

MORE RECYCLING

RECYCLE PLASTIC BAGS & WRAPS
(empty, clean & dry)
at store drop-offs
PlasticFilmRecycling.org/Drop-Off

NOT in Curbside Recycling

NO Candy Wrappers • Frozen Food Bags • Labels • Foam • Food Containers

MORE RECYCLING

RECYCLE empty, clean & dry plastic bags & wraps at store drop-offs

NOT in Curbside Recycling

NO Candy Wrappers • Frozen Food Bags • Labels • Foam • Food Containers

Also look for any packaging with this **How2Recycle** label

Recycle if Clean & Dry
Store Drop-off
PLASTIC WRAP

how2recycle.info

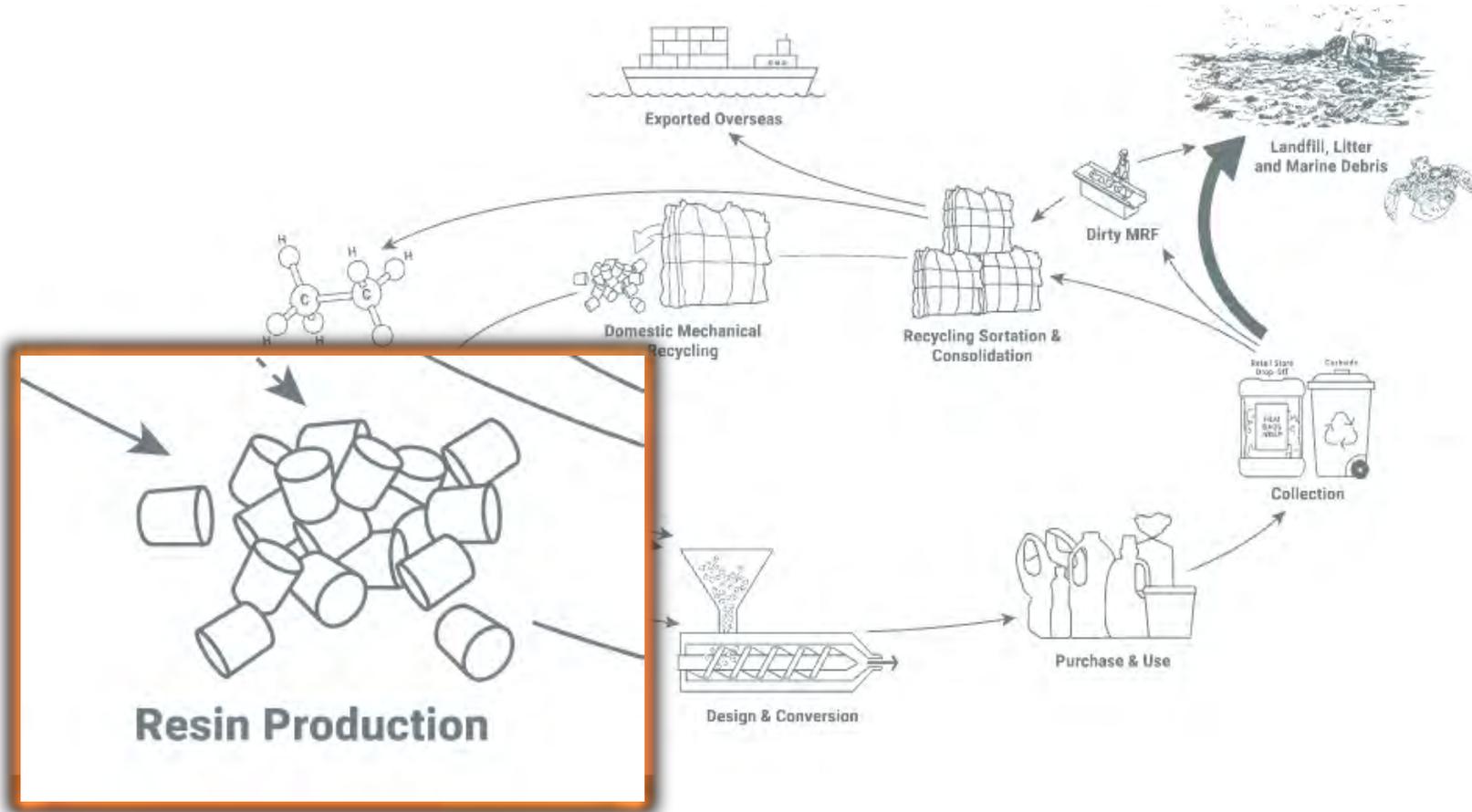
MORE RECYCLING

This is your program Name
Town Of Rosswood
PO Box 358
Sonoma, CA 94576
Tonya Randell

PlasticFilm Recycling
PlasticFilmRecycling.org/Drop-Off

RecycleYourPlastics.org/termsandtools

Oil Prices

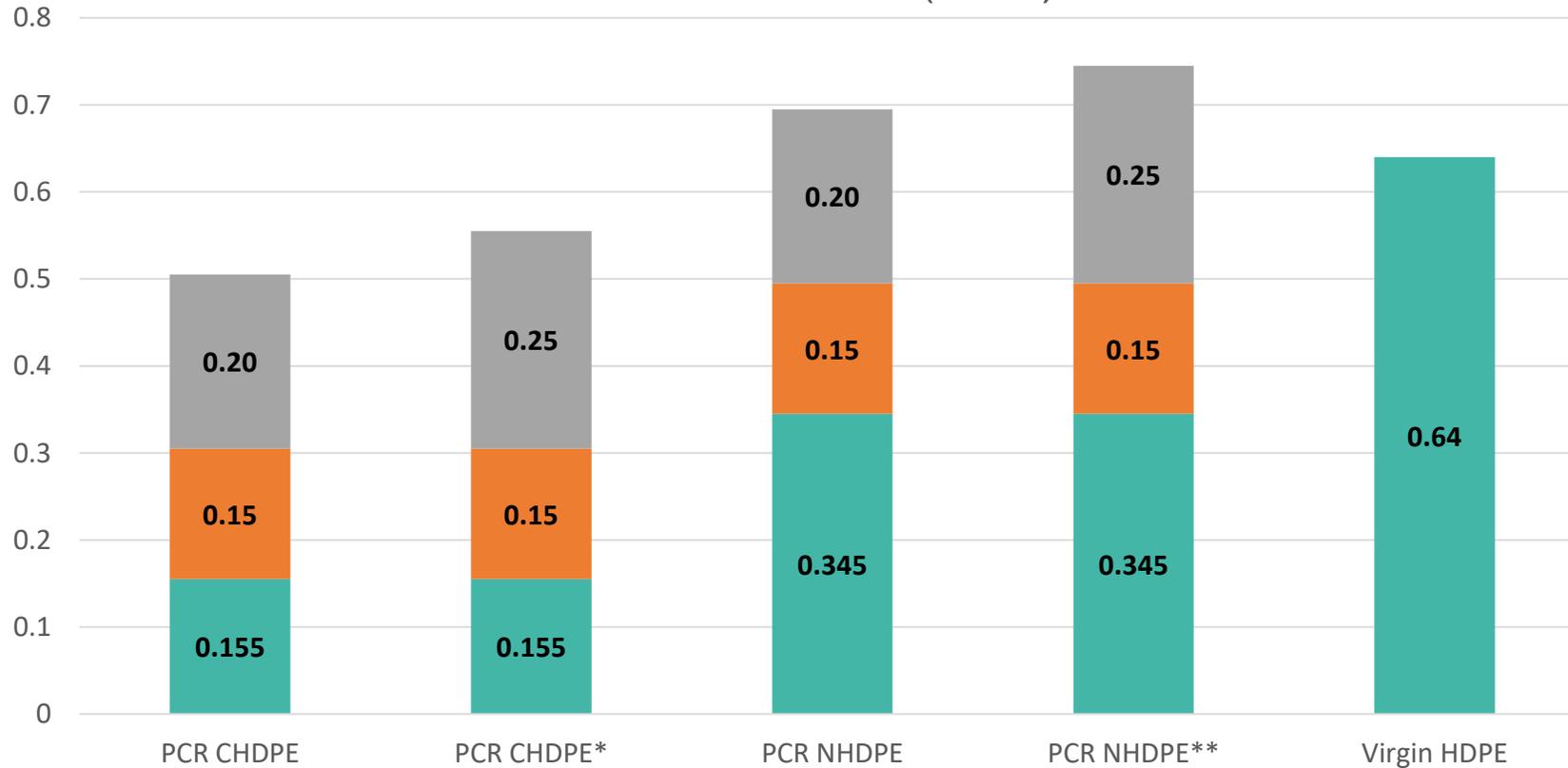


Not enough supply of PCR at the right price and quality levels to compete with virgin resin.

Growing supply of virgin resin has discouraged some infrastructure investments needed to sort and process scrap plastic to the quality needed by end users.

PCR vs Virgin

Pellet Price & Cost Associated to Process Post-Consumer Resin (PCR)



* Color Sorted

** Food Grade

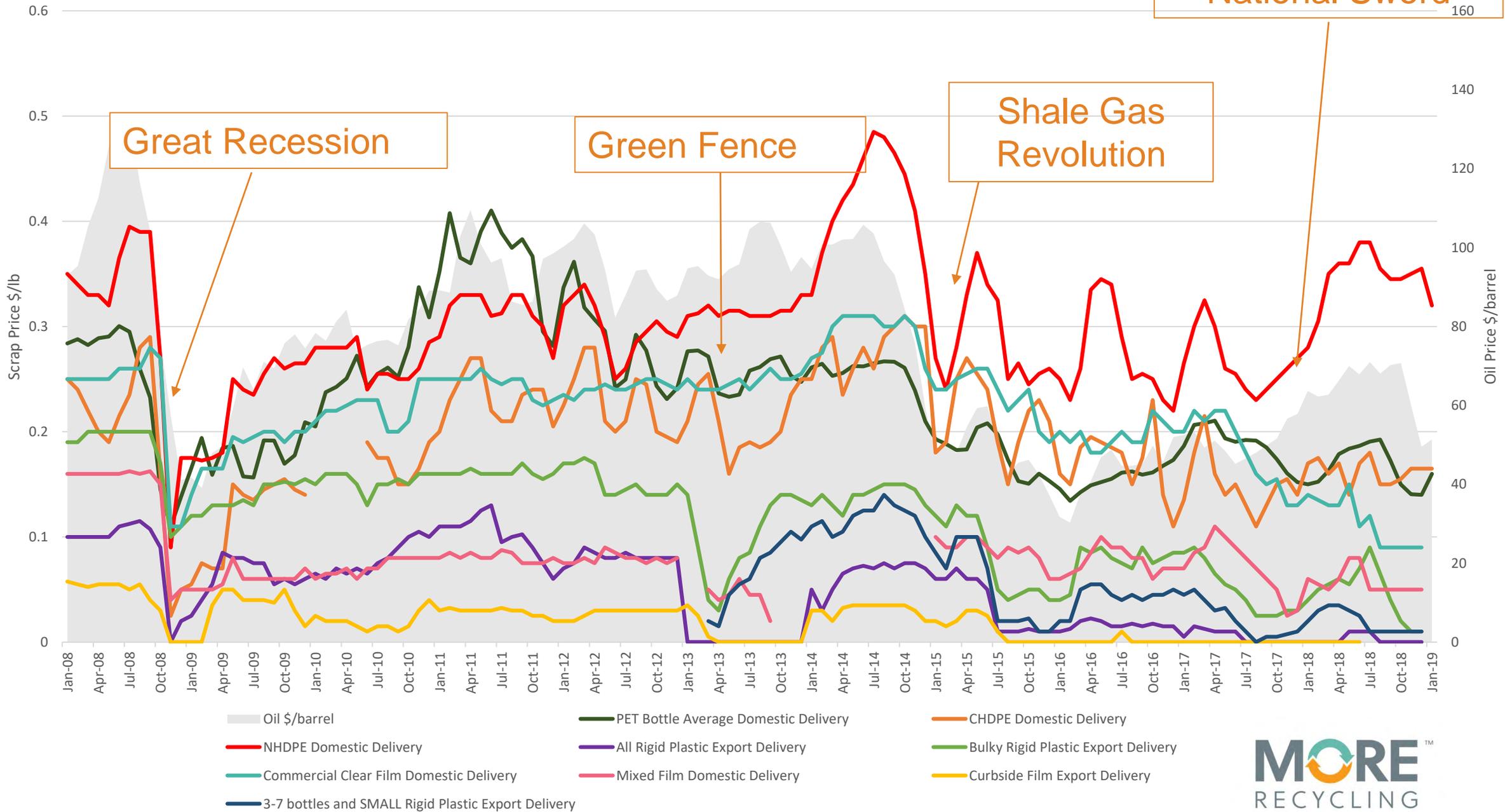
■ Cost to Source Bales or Virgin Pellet

■ Handling & Transport

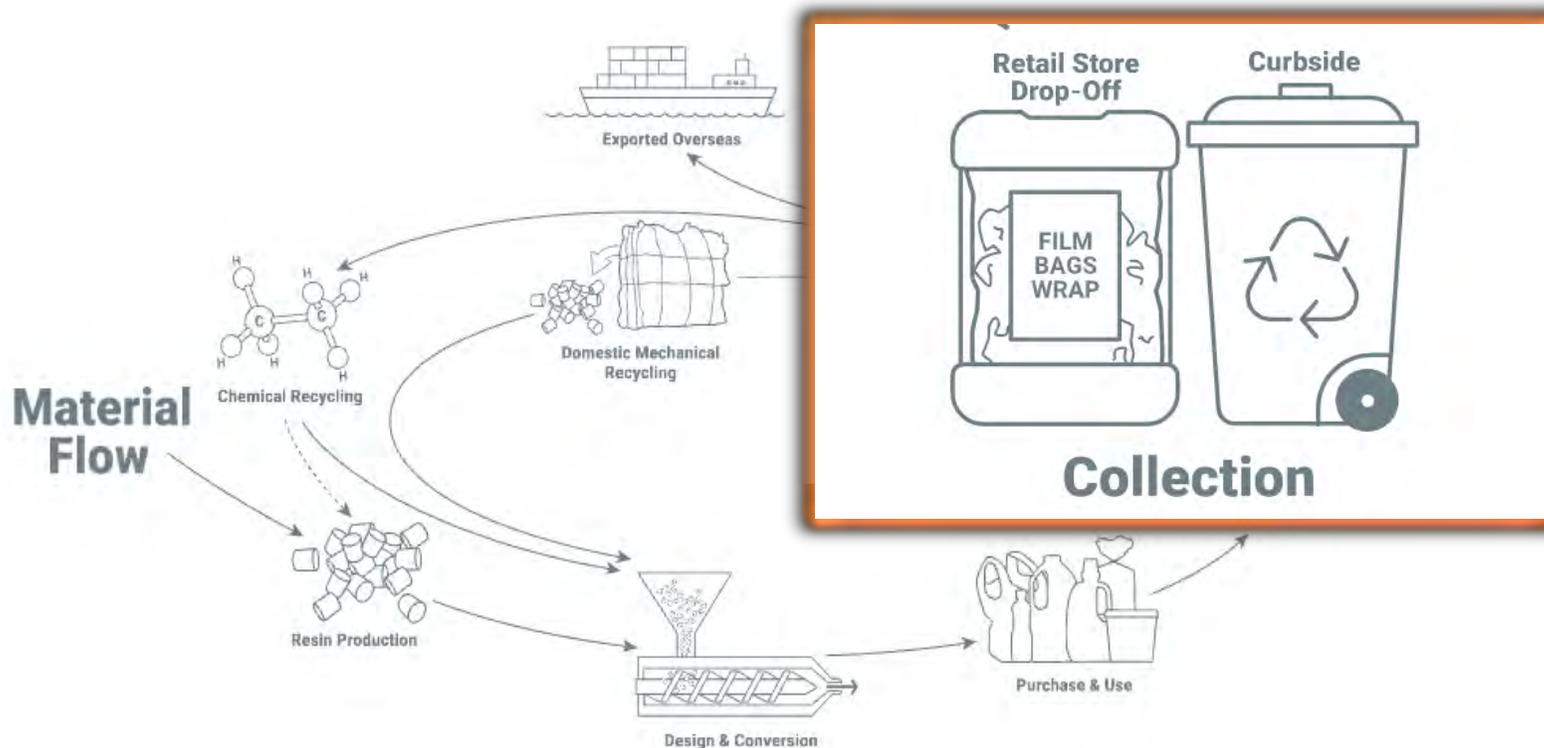
■ Processing & Yield Loss

Historical Scrap Plastic and Crude Oil Prices

National Sword 160



Consumer Demand



Without growth in demand for PCR, we will continue to see loss of recycling access for non-bottle materials.

>130 million pounds of postconsumer containers and other rigids are being landfilled, just in CA.

Loss of Recycling Access

HOME REFERENCE GUIDE

RECYCLE CART

Continue putting these items loose in your cart.

PLASTICS - NEW



NEW Hefty® EnergyBag™ PROGRAM

ONLY specific plastics go in the orange bag. No paper, metal or cardboard.

KITCHEN

- ALL PLASTIC BAGS
 - Bread bags
 - Chip/snack bags
- PLASTIC DAIRY TUBS/LIDS
 - Yogurt/butter/sour cream
- PLASTIC POUCHES
 - Squeezeable
- PLASTIC SINGLE SERVE PRODUCTS
 - Yogurt/pudding
- PLASTIC DINNERWARE
 - Cups/plates/bowls
- PLASTIC PRODUCTS
 - Egg cartons
 - Cups/plates/bowls
 - Meat trays



TRASH CART

These **must** go in your trash cart with other trash items.

WATER BOTTLES



ALL plastic water bottles

HINGED LID (CLAMSHELL) CONTAINERS



ALL plastic to-go, fruit/vegetable hinged containers

ALL WAX-COATED



To-go cups, frozen dinners, dairy, juice cartons

METAL



Aluminum and steel cans, foil

CARDBOARD



Flattened boxes

BATHROOM

- TOOTHPASTE TUBES
- EMPTY DEODORANT STICKS
- PLASTIC TUBES
 - Lotion/creams



WHAT DO I DO WITH THE ORANGE BAG?

FILL BAG WITH EMPTY, CLEAN AND DRY ITEMS → TIE THE BAG SECURELY → PLACE IN YOUR RECYCLING CART



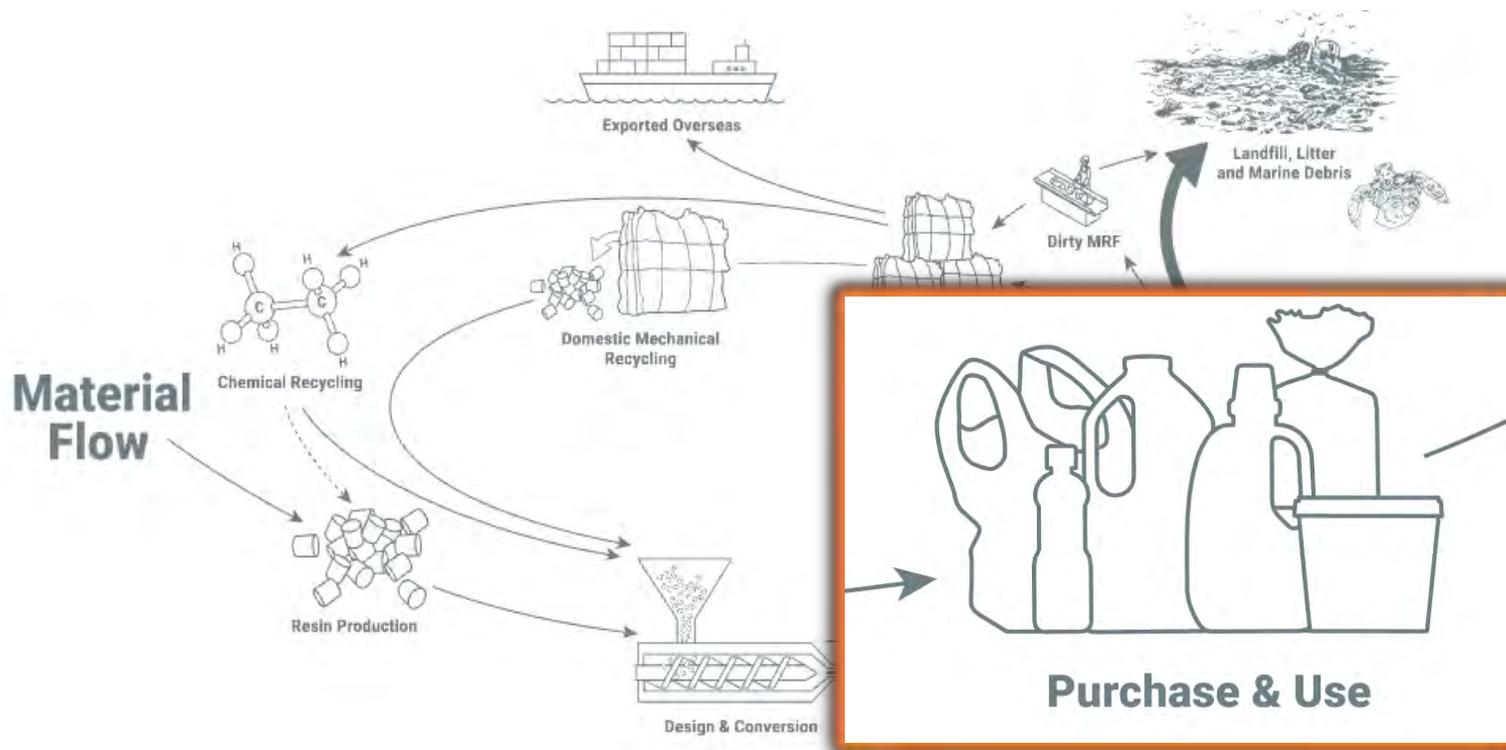


QUESTIONS? CALL - 208-608-7460
EMAIL - CURBIT@CITYOFBOISE.ORG
WEBSITE - CURBITBOISE.ORG

Plastic water bottles and clamshell containers are now trash

In addition, plastic water bottles and plastic hinged-lid (clamshell) containers must now go into the trash cart. The local sorting facility doesn't have the equipment to process these items properly. Water bottles and clamshell containers flatten in the sorting process and end up in the paper stream lowering the quality of recycled paper and making it harder to sell.

Consumer Demand



More companies will use PCR when more consumers ask for it.

Consider the purchases you make both at home and work, and not just for plastics.

Buy Recycled Products Directory

RecycleMorePlastic.org



Personal Use



Business Use

Find products made from post-consumer plastic resin

New Products Added Regularly

BUY RECYCLED PERFORMANCE METER



1. Percentage made from PCR
2. Primary Type of PCR Used
3. Product Made with Multiple Materials
4. Recycled Content Certification

The **Buy Recycled Performance Meter** gives you a snapshot of a products Buy Recycled performance. With a quick glance you know what percentage of the product or the products packaging is made from recycled content, what type of plastic resin was used and whether the product has received third party Recycled Content Certification from organizations like **UL**, **SCS**, **ICC**, **GreenCircle**, and **C2C**.

Personal Care Home Care Building/Construction Household Goods Apparel More

Have/know a product you think should be in this directory? [Share it >](#) [Go to Business Use Products >](#)



Personal Care
Hair Conditioner Tube
Brand - Aveda
AVEDA



Personal Care
Liquid Soap Bottle
Company - Dr. Bronner's
[Visit Website](#) [Share](#)



Hand Soap Bottle
Brand - Mrs. Meyers
Company - SC Johnson
SC Johnson
[Visit Website](#) [Share](#)



Home Care
Shout Stain Remover Bottle
Brand - Shout
Company - SC Johnson
SC Johnson
[Visit Website](#) [Share](#)

More products coming soon.

Are you a consumer that knows of a product we should list?

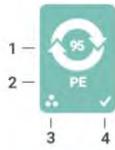
[Share a product](#)

Are you a company that wants to feature a product?

[Submit a product](#)

Businesses are Consumers, too

BUY RECYCLED PERFORMANCE METER



1. Percentage made from PCR
2. Primary Type of PCR Used
3. Product Made with Multiple Materials
4. Recycled Content Certification

The **Buy Recycled Performance Meter** gives you a snapshot of a products Buy Recycled performance. With a quick glance you know what percentage of the product or the products packaging is made from recycled content, what type of plastic resin was used and whether the product has received third party Recycled Content Certification from organizations like **UL**, **SCS**, **ICC**, **GreenCircle**, and **C2C**.

Facilities Maintenance
Lawn & Garden
Building/Construction
Furniture

Have/know a product you think should be in this directory? [Share it >](#)



UltraPost Carry Out Bags
Brand - UltraPost



Company - Novolex

[Visit Website](#) [Share](#)



Facilities Maintenance
Leading Edge Can Liners
Brand - Heritage Bag



Company - Novolex

[Visit Website](#) [Share](#)



Lawn & Garden
Black Nursery Containers
Company - Nursery Supplies Inc.



[Visit Website](#) [Share](#)



Plastic Cornerposts
Brand - Banaboard
Company - JR Plastics Corporation



[Visit Website](#) [Share](#)



Consumers

Know a product that should be in this directory?

Connect with Recycled Plastics Buyers and Suppliers

reclaimers



Advanced Search >

Search Results

Does your company process recovered plastics?
It's free to create and maintain your company's listing.

Get Listed

REFINE YOUR RESULTS

Buyer or Supplier

- Buyer
- Supplier

Resin to search

- ABS
- Acrylic
- HDPE
- HIPS
- L(L)DPE
- Mixed
- Nylon
- Other
- PC
- PE
- PE/PP (olefin)
- PET
- Polyurethane
- + More Options

Sources to search

- 1-7 ALL Rigid Plastics
- 1-7 Bottles and SMALL RI...

x Reclaimer

Displaying 98 results. Page 1 of 4 Next >

Avangard Innovative, LP

11906 Brittmoore Park Dr
Houston, TX 77041

CONTACT

281-582-0700 x222
jstephens@avaicg.com

MEMBER OF



Blue Ridge Plastics

11511 Hwy. 770 East
Eden, NC 27288-1243

CONTACT

Dee Pyrtle
336-280-8850
dpyrtle@blueridgeplastics.com

MEMBER OF



Champion Polymer Recycling

2600 Corporate Dr
Winchester, KY 40391

CONTACT

Pakon Mak Nunthirapakorn
(859) 745-3782
pnunthirapakorn@infiltratorsystems.net

MEMBER OF



Clean Tech Inc

CONTACT
Tom Busard

New Tools!

Recycling Support Activity Info Exchange

Information Compiled:

- History & Key Elements of Recycling Market Development
- Examples of Public & Private Programs & Tools (in map view with search filters)
- Effective Roles & Strategies — Looking Forward

Recycling Support Activity Info. Exchange

The Info. Exchange will provide a roadmap to help stakeholders implement appropriate and effective recycling market development programs and projects.



Promotion



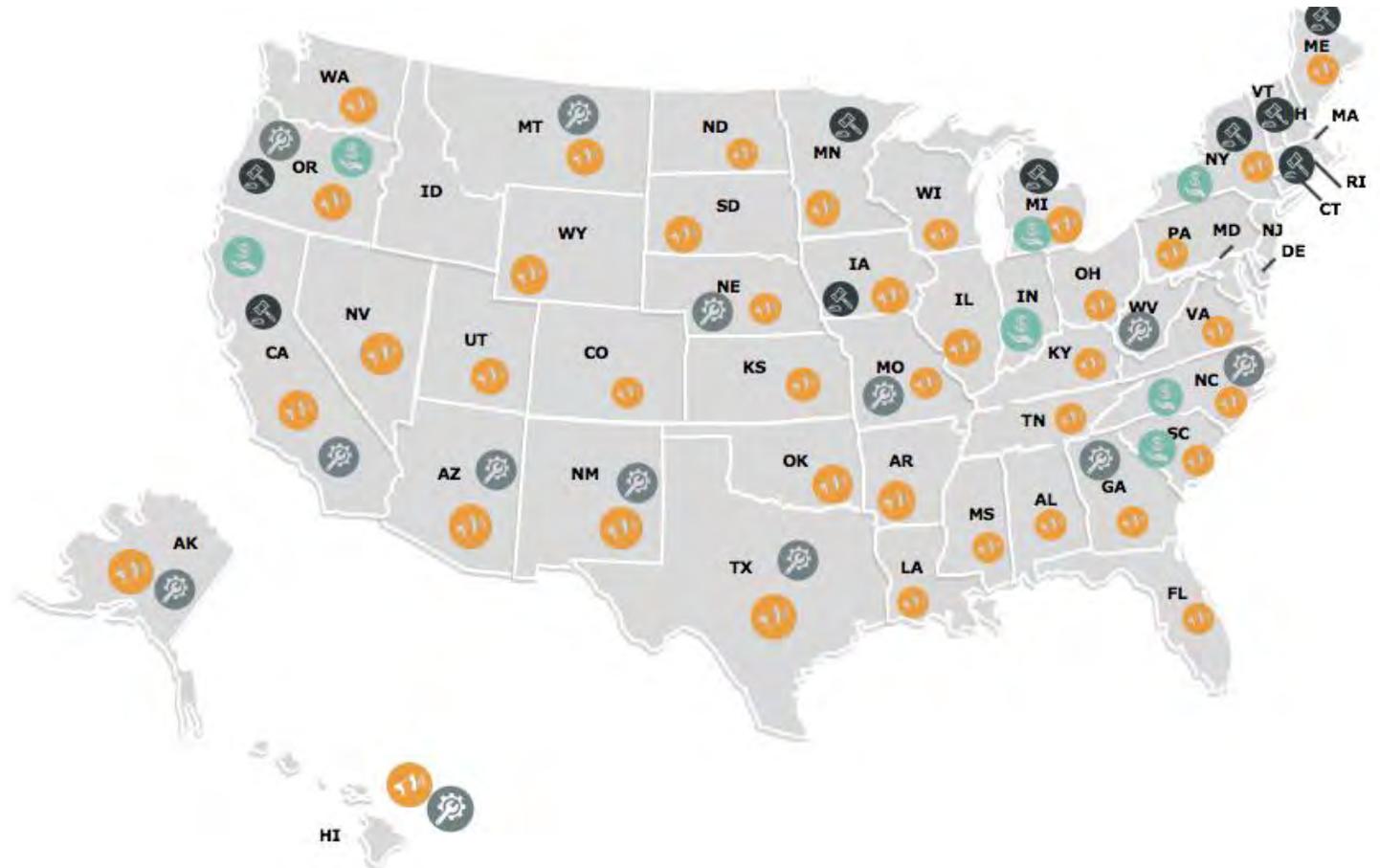
Technical Support



Financial Support



Regulation



New Tools! Impact Tracker

Creating Transparency, Recognizing Leaders, & Illustrating Impact



Dashboard Portal To:

- Buy Recycled Directory (Access to products for consumers and organizations)
- Directory of PCR Suppliers
- Markets for Baled Plastic
- Interactive Case Study Tool (Can be modified for materials beyond film)
- PCR Impact Tracker (CO2 Savings Equivalent)



New Tools!

Generation Tracker Tool

Tool Name

Save your searches and help build the database. [Learn more >](#)

SHOW ME MATERIAL: COUNTRY: STATE: COUNTY:

Geographic Allocation - United States

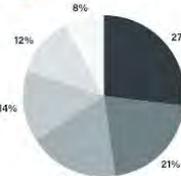


[View Larger Map](#)

LEGEND

- 4,000,000 - 5,000,000 lbs./Month
- 3,000,000 - 3,999,999 lbs./Month
- 2,000,000 - 2,999,999 lbs./Month
- 1,000,000 - 1,999,999 lbs./Month
- 500,000 - 999,999 lbs./Month
- 0 - 499,999 lbs./Month

PERCENTAGE



Tap on metric to get further breakdown

Business Type

lbs. of film/month generated # of Businesses

Select the "+" to open industries in that sector

Sort by: Name >

SECTOR	LBS/MONTH	MAP
+ Agriculture, Forestry, Fishing and Hun...	355,907	<input checked="" type="checkbox"/>
+ Mining	28,963	<input checked="" type="checkbox"/>
+ Utilities	35,008	<input checked="" type="checkbox"/>
+ Construction	1,333,261	<input checked="" type="checkbox"/>
+ Manufacturing	598,761	<input checked="" type="checkbox"/>
+ Wholesale Trade	675,048	<input checked="" type="checkbox"/>
+ Retail Trade	1,632,315	<input checked="" type="checkbox"/>
+ Transportation and Warehousing	503,777	<input checked="" type="checkbox"/>
+ Information	311,785	<input checked="" type="checkbox"/>
+ Finance and Insurance	682,404	<input checked="" type="checkbox"/>
+ Real Estate Rental and Leasing	741,608	<input checked="" type="checkbox"/>
+ Professional, Scientific, and Technical ...	2,040,346	<input checked="" type="checkbox"/>
+ Management of Companies and Enter...	59,195	<input checked="" type="checkbox"/>
+ Administrative and Support and Waste...	1,987,426	<input checked="" type="checkbox"/>
+ Educational Services	355,907	<input checked="" type="checkbox"/>
+ Health Care and Social Assistance	28,963	<input checked="" type="checkbox"/>
+ Arts, Entertainment, and Recreation	35,008	<input checked="" type="checkbox"/>
+ Accommodation and Food Services	1,333,261	<input checked="" type="checkbox"/>
+ Other Services (except Public Admin)	598,761	<input checked="" type="checkbox"/>
+ Public Administration	682,404	<input checked="" type="checkbox"/>

[View All Industries](#)

Selected Total: 8,682,404

Working with Cascadia and other partner orgs (RILA, NACS) to gather more audit data from commercial generators



Questions?

Tonya Randell
Tonya@MoreRecycling.com

MORE™
RECYCLING