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About NRRA

Introduction

Partnering to make recycling strong through economic and environmentally sound solutions, NRRA is the oldest and largest cooperative-model recycling nonprofit in the US. We support small, rural communities in NH, VT, and MA with cooperative marketing, education, and technical assistance.

- Reagan Bissonnette, Executive Director





Our Impact

Fiscal Year 2022



\$2.98 Million

(\$2,982,771)

The dollar amount NRRA returned to members in 2022, thanks to recycling!



81.5 Million

Pounds of Material

Amount of solid waste NRRA helped our members **recycle and manage** in 2022.



207 Million

Pounds of CO²

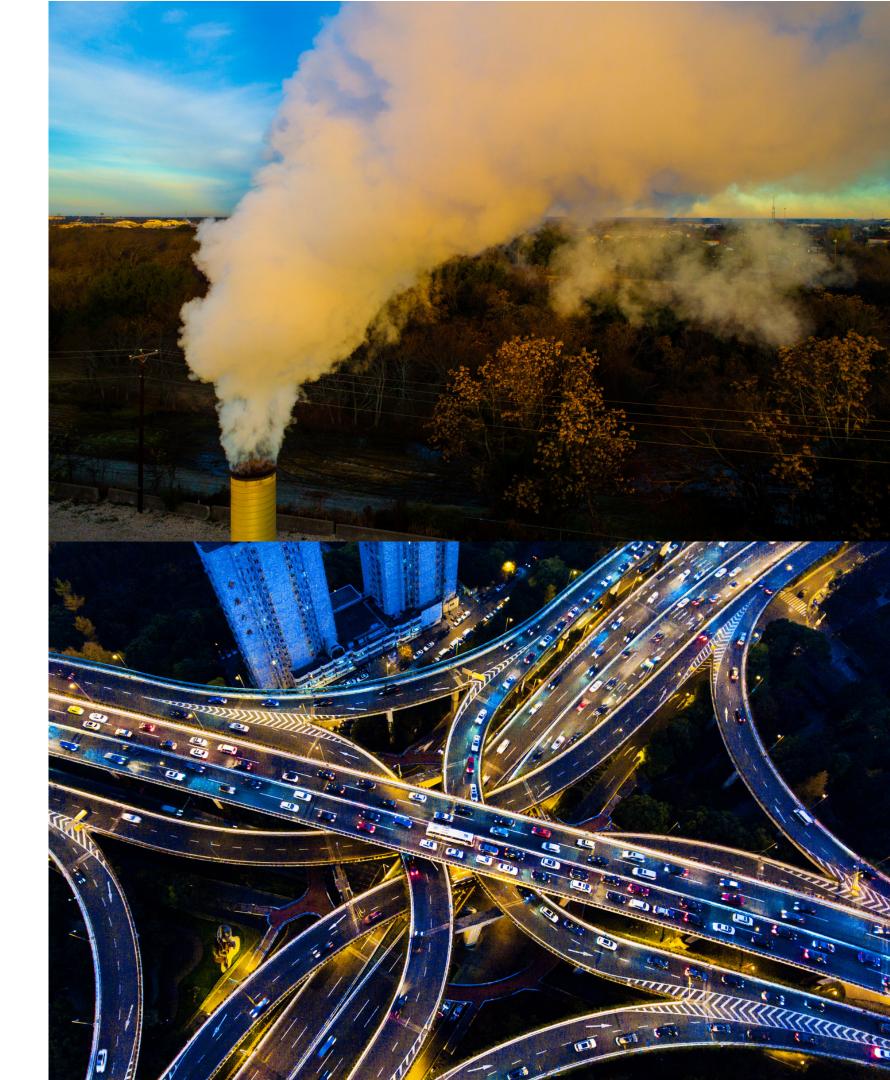
Amount of **avoided** carbon dioxide emissions averted thanks to NRRA's recycling efforts!



20,392

Passenger Cars

Removing that amount of CO² is like taking 20,392 passenger cars **OFF the road** for a full year!







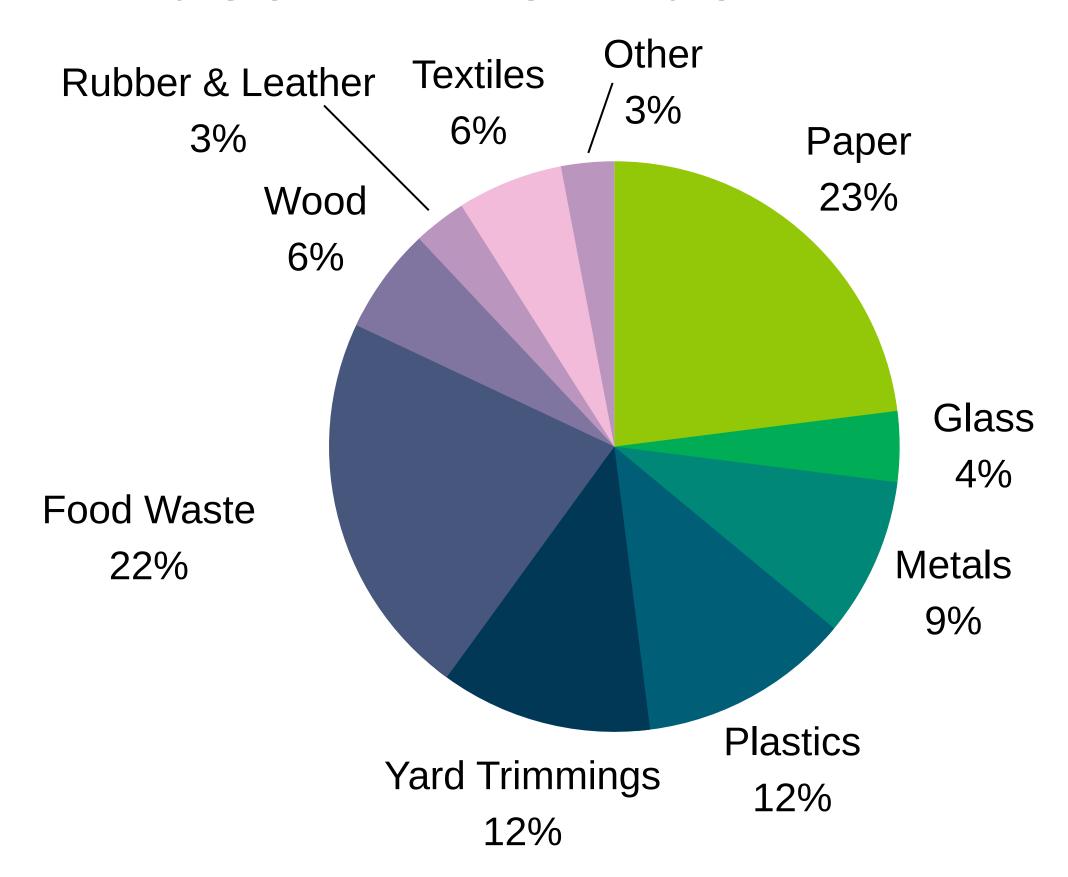


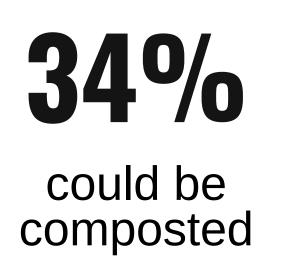


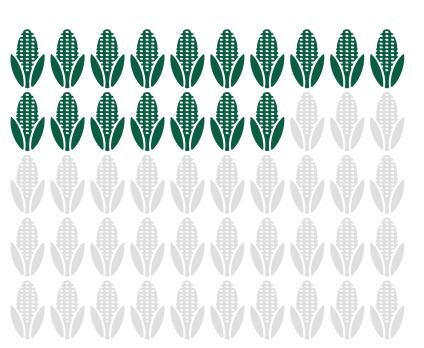




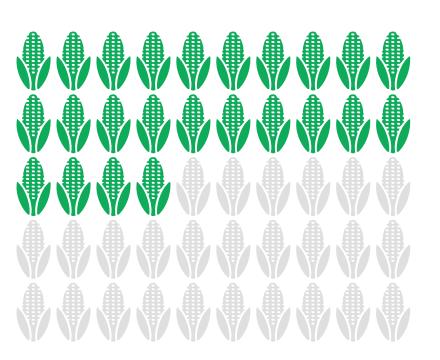
What's In The Trash?



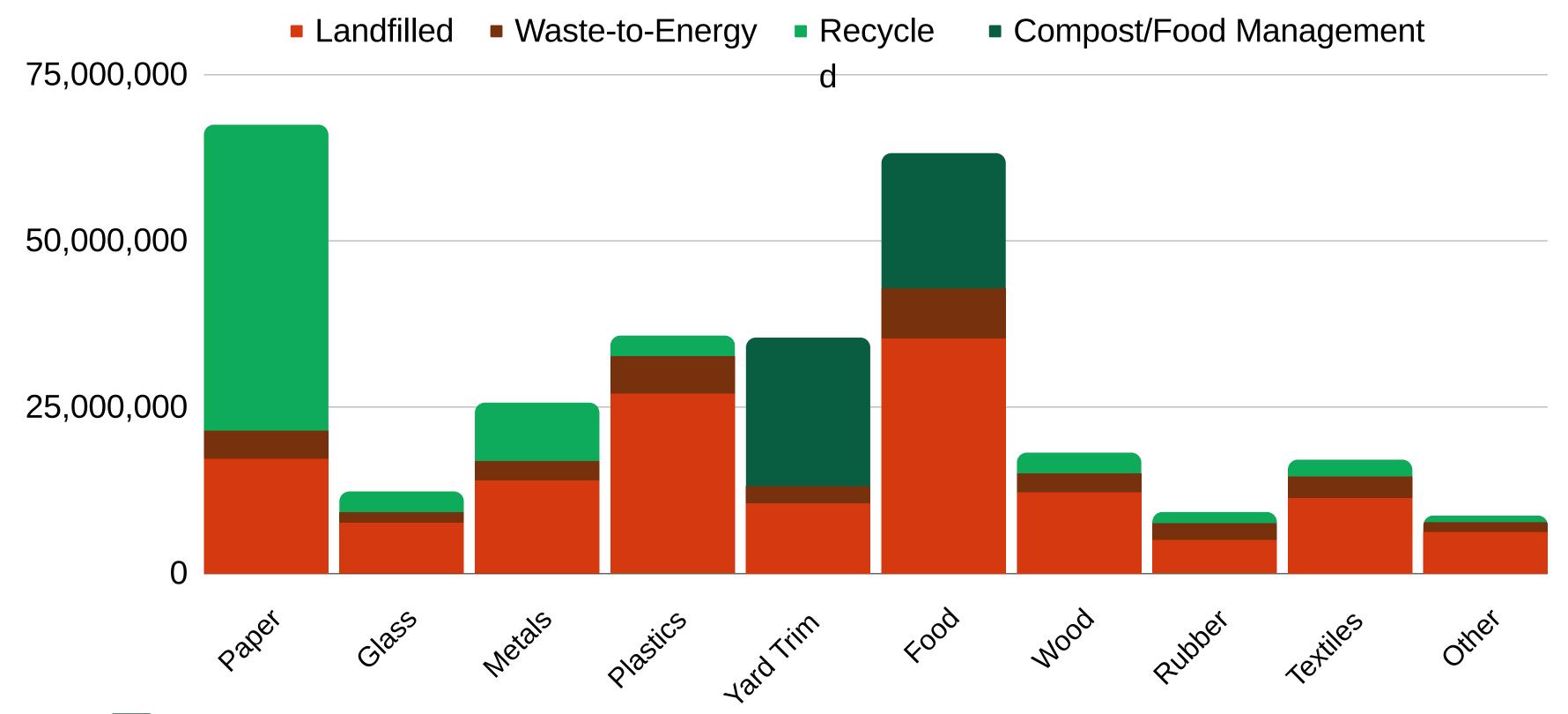




48% (theoretically) could be recycled

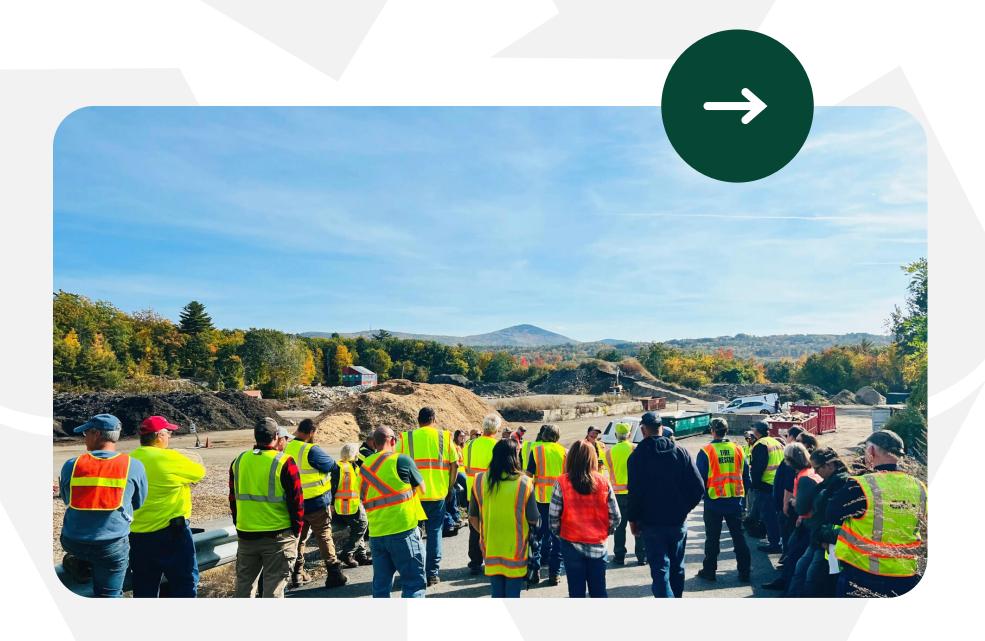


What Happens to your Trash?



Solid Waste in NH

New Hampshire's Infrastructure





Landfills

- 3 public landfills
- 3 private (limited service area) landfills



Waste-to-Energy Incinerator

Wheelabrator Concord is a waste-toenergy facility.



Materials Recovery Facility

A "MRF" mechanically separates single-stream or zero-sort recyclables



Anaerobic Digester

An "AD" breaks down food waste into fertilizer and biogas composted mostly of methane. Biogas can be burned for energy or processed into natural gas and fuel.



How much waste disposed of in New Hampshire comes from out of state?

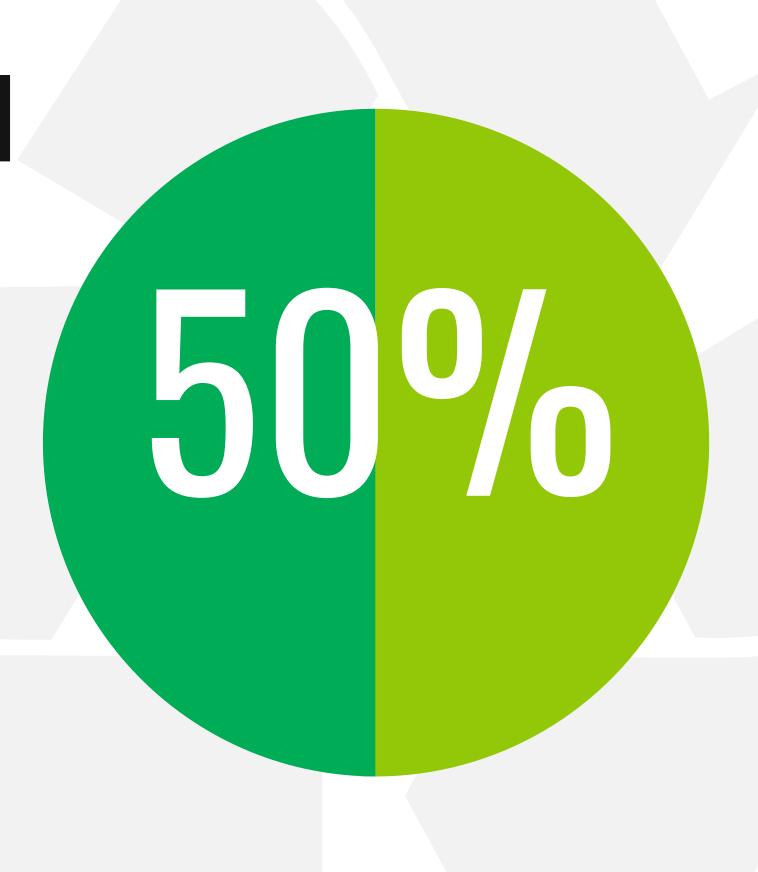


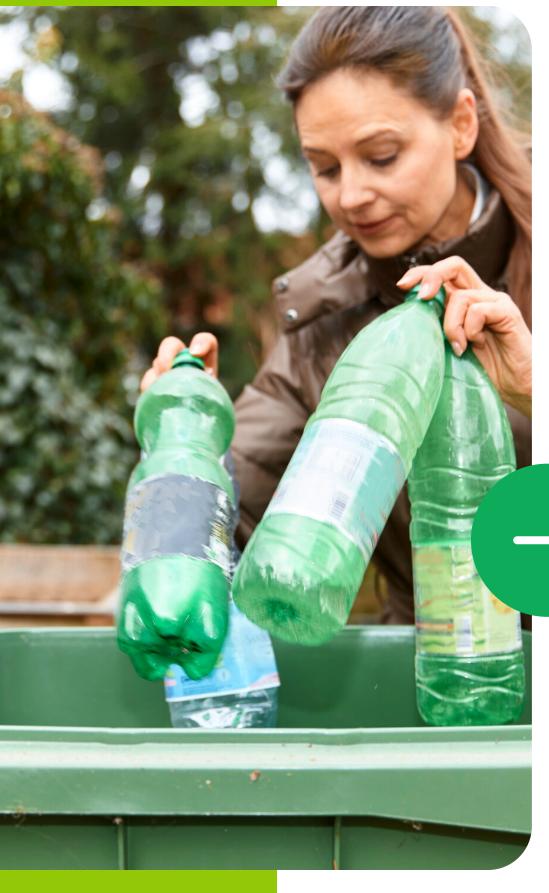




How much waste disposed of in New Hampshire comes from out of state?

















What Recycling Program does your community have?



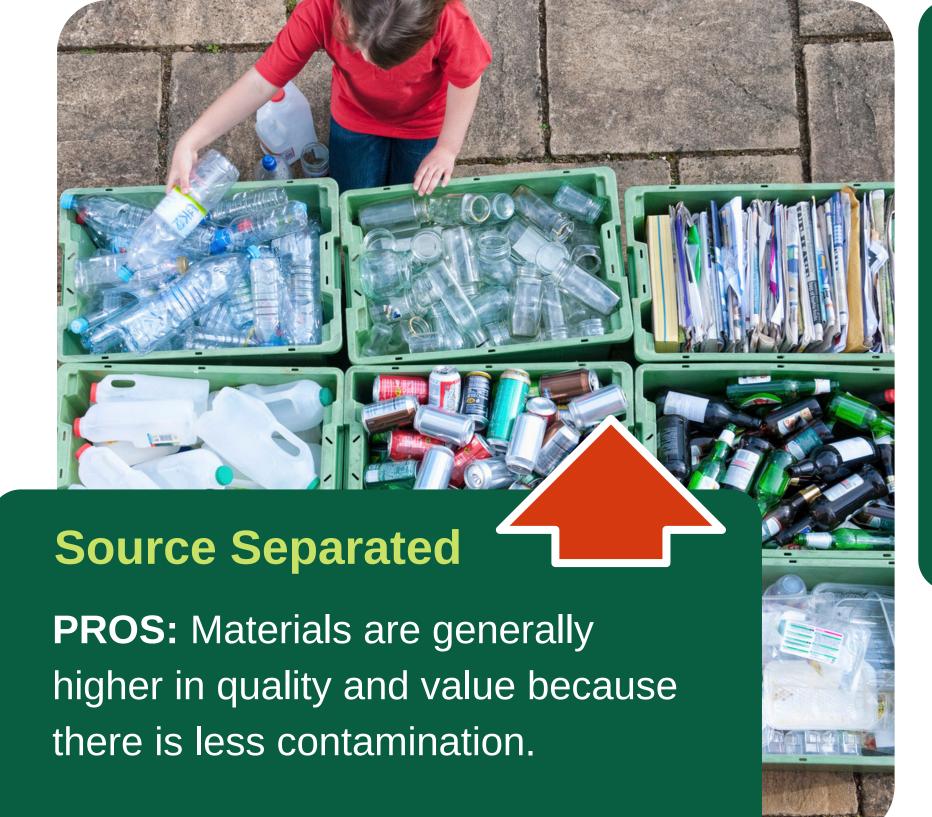
All recyclables go into one bin and are separated after collection.



Paper & cardboard and recyclables containers (plastic, metal, glass) are put in separate bins prior to collection.

Source Separated (multi-stream)

Recyclables are separated by material prior to collection OR at the drop off center (transfer station).



CONS: Requires more effort by the

items at their curb or take them to a

residents to either leave sorted

drop-off site.

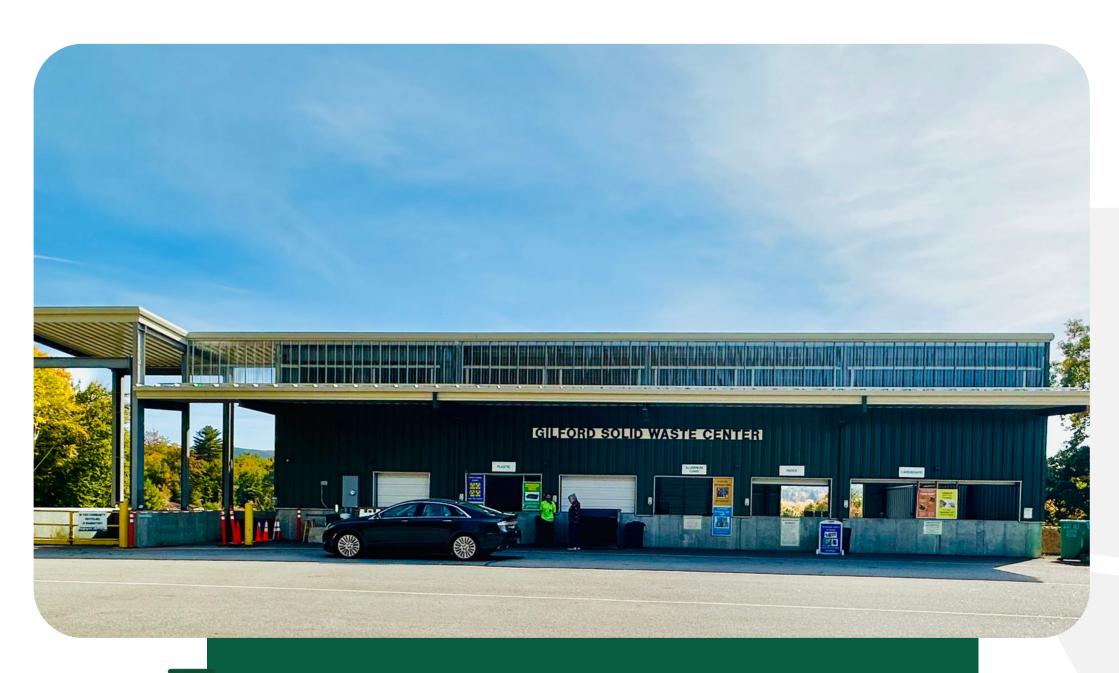
Single or Dual Stream

PROS: Recycling is more convenient because all recyclables go into one or two containers.

CONS: The quality of the material can be degraded due to contamination, resulting in materials being sent to landfills.

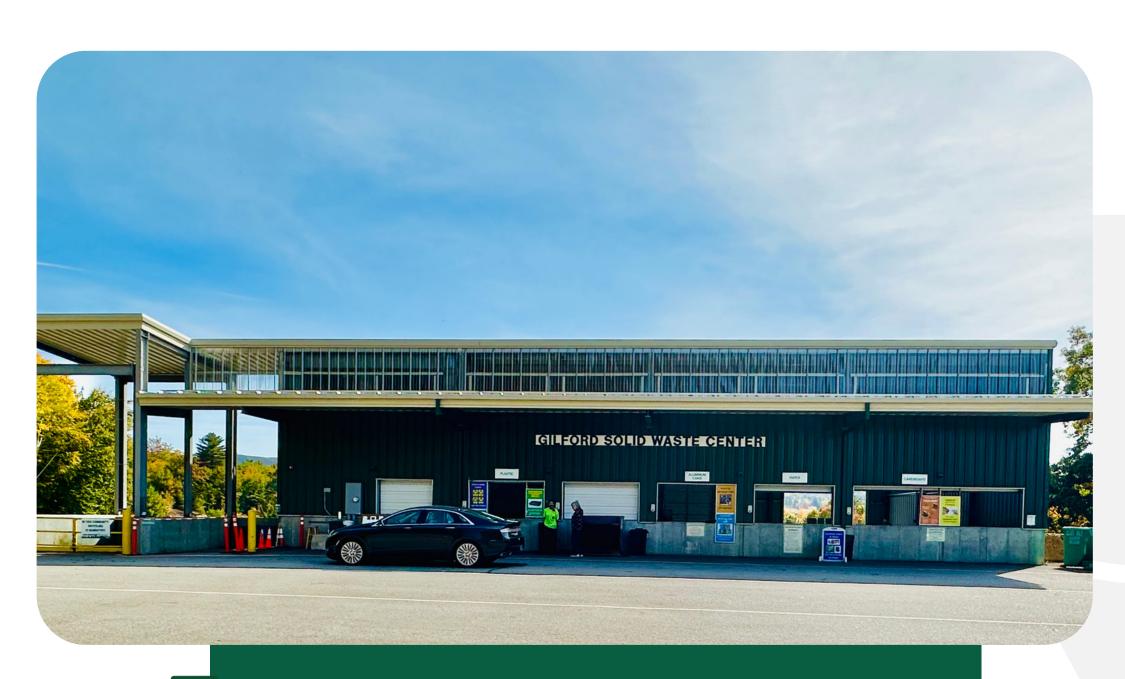
NRRA NORTHEAST RESOURCE RECOVERY ASSOCIATION

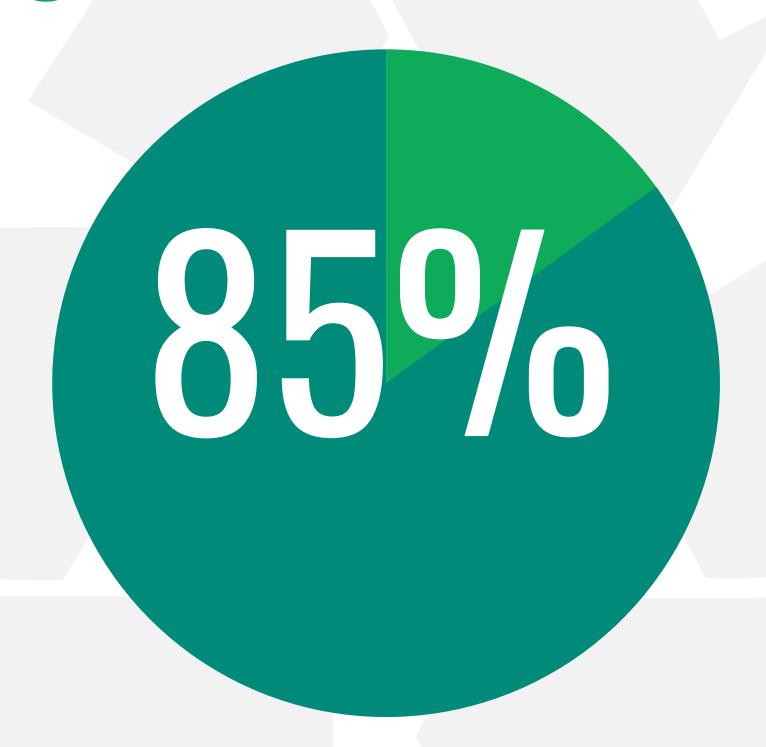
What percentage of communities in NH have their own municipal recycling facility?





What percentage of communities in NH have their own municipal recycling facility?







Recycling Processing

Materials Processed in New Hampshire



Electronics

Processed in Dover, NH

Electronics are sorted, dismantled, and mechanically separated. Valuable materials such as gold, copper, glass, and aluminum are then recovered to be reused.



Cardboard

Processed in Claremont, NH

Cardboard is made into large sheets of kraft paper for brown paper grocery bags, lawn bags, and packing material.



Certification

All operators who work at permitted solid waste facilities in New Hampshire must be certified by NHDES through the Solid Waste Facility Operator Training and Certification Program.

What it Takes to Become a Solid Waste Operator

In New Hampshire



Ongoing Training

All operators must renew their certification annually, which includes at least 2.5 hours of continuing professional development within the previous 12 months.

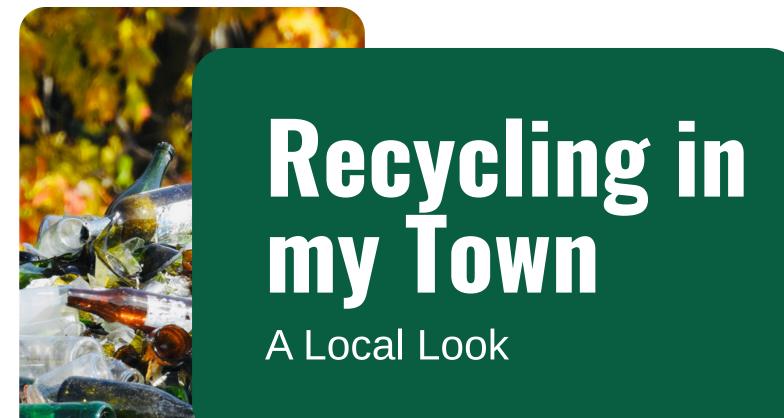


Permitted Facility

With few exceptions, solid waste management facilities must obtain a permit to construct, operate, and permanently close.



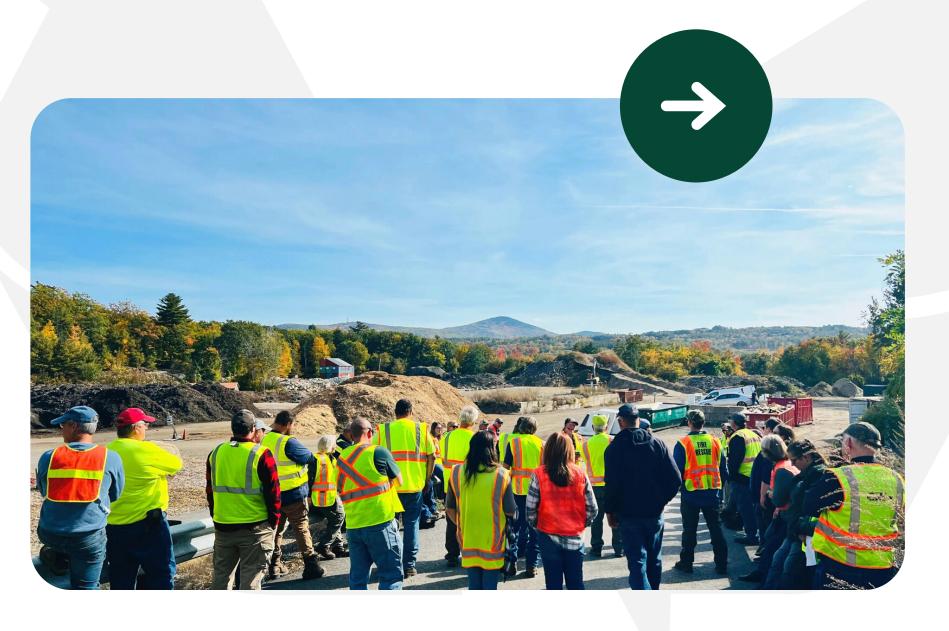








Which of the following town departments generate revenue?



Economic Development

Police

Fire Station

Human Services

Recreation

Town Clerk/Tax Collector

Sewer

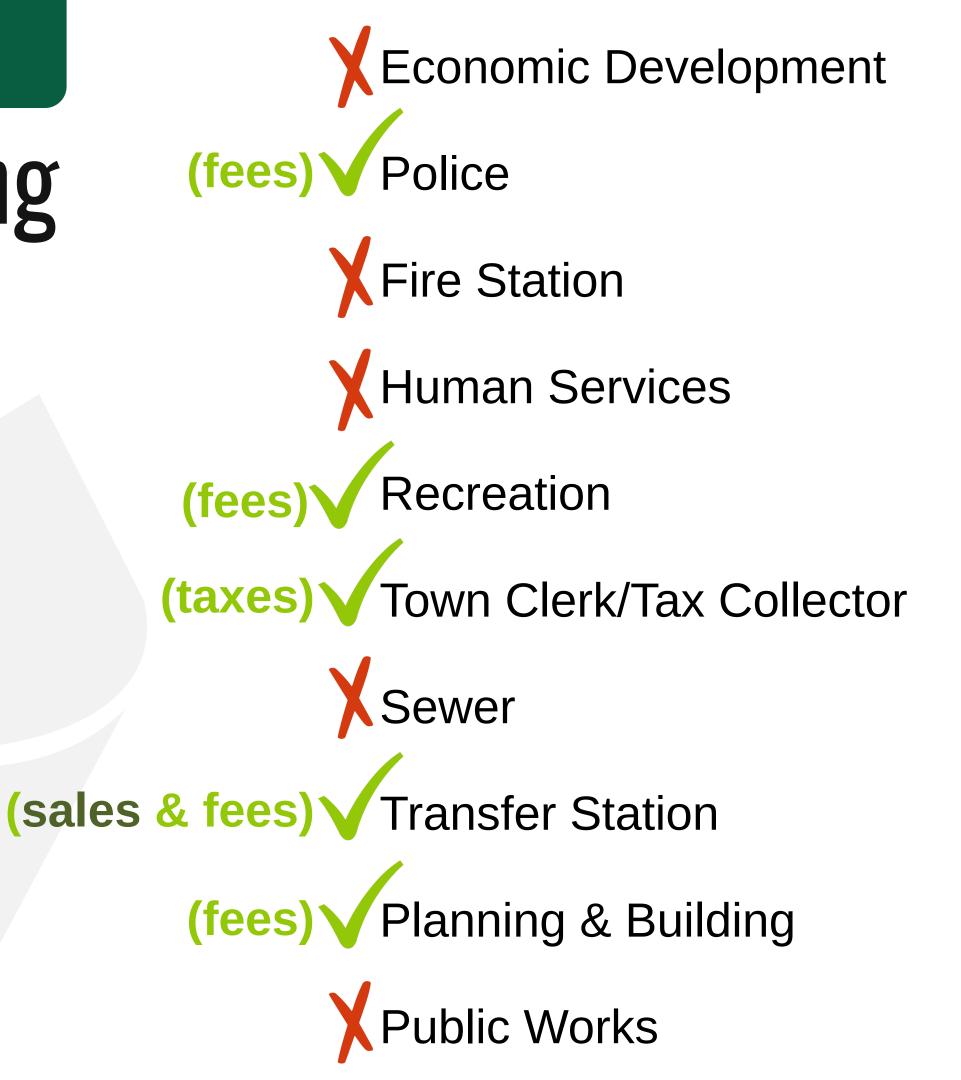
Transfer Station

Planning & Building

Public Works

Which of the following town departments generate revenue?





Like money? Try recycling!



REVENUE

Earned by **selling high quality recyclable material**to responsible vendors.

DISPOSAL COSTS

Decrease as material is diverted from the solid waste stream and is recycled instead.



Recycling Example

Aluminum Cans



Saves MONEY

It's cheaper to recycle aluminum versus extracting new aluminum through mining and processing ore.



Saves ENERGY

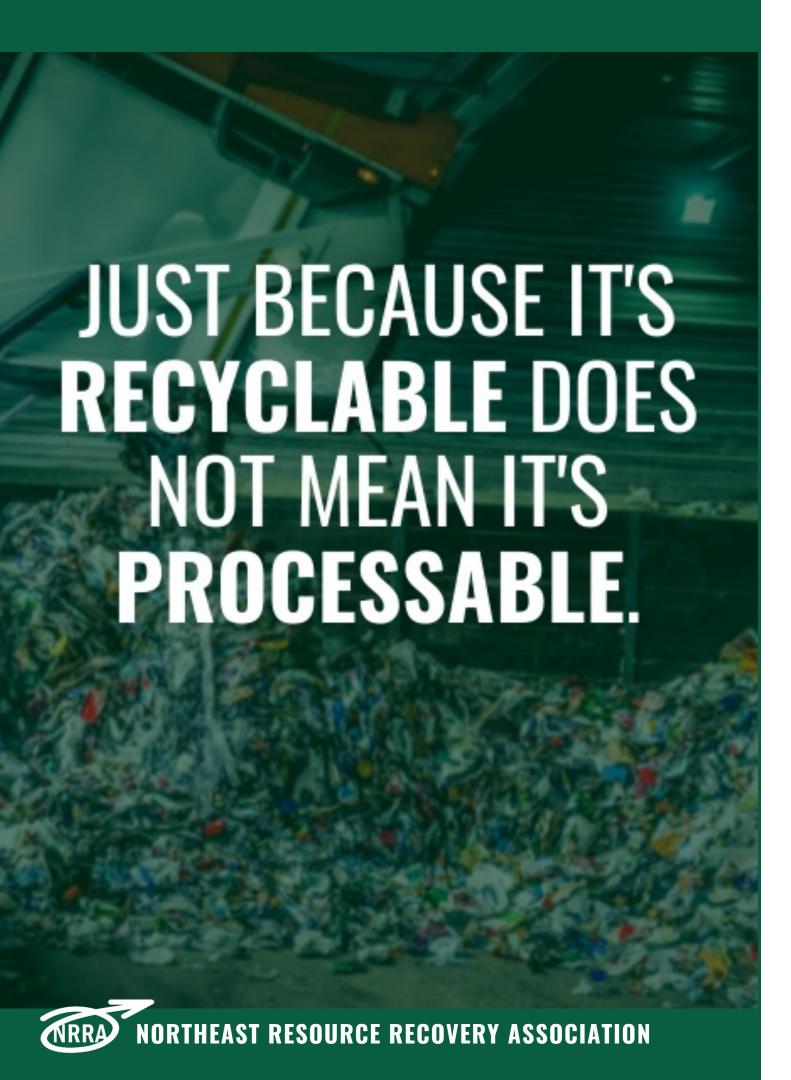
Recycling aluminum saves more than 90% of the energy needed to create new aluminum.





Saves Natural RESOURCES

Nearly 75% of all aluminum produced is still in use today!



Why doesn't my town recycle EVERYTHING?

You need 3 things to decide:



Economy of Scale: How much of an item do you have to recycle?



Transportation & Processing: Where is the location of the processing facility in relation to the community?



Markets & Materials: Are you offering high quality materials (clean, dry, and uncontaminated?) Is the market good?

A Note on Contamination

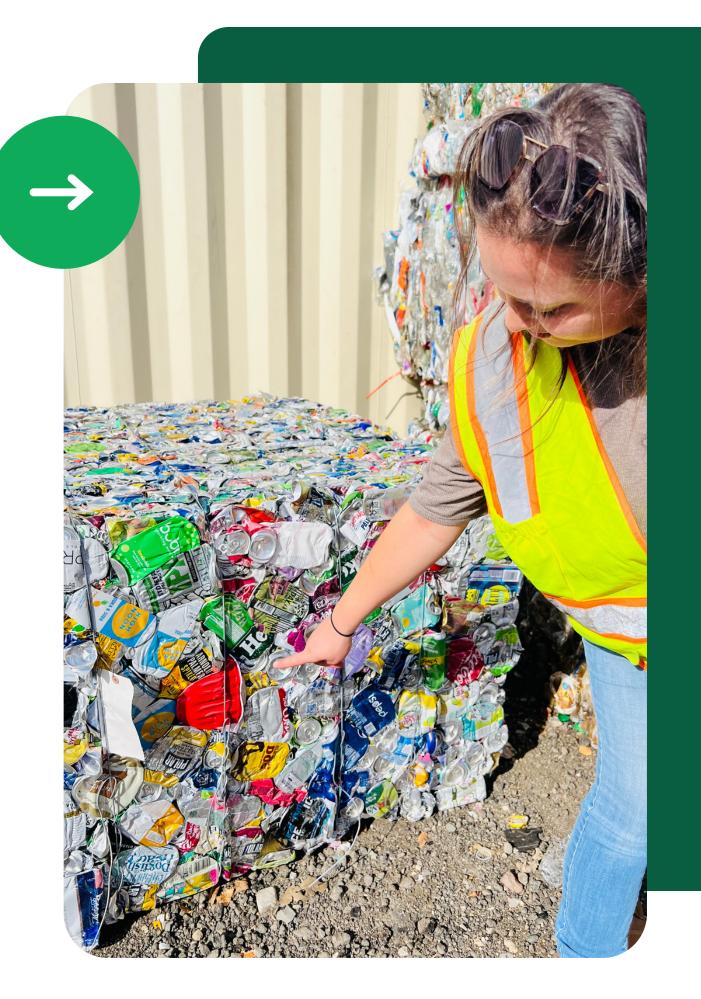
Recycling is a manufacturing process - machinery is used to create new items on a large scale. When can then better understand why contamination is such a problem. Just as you wouldn't want contamination in other manufacturing, contamination in recycling is also problematic.

Percent of Contamination Found:

Source Separated Recyclables

5%

Single and Dual Stream Recyclables 30%















When does recycling happen?

Hint: Probably not when you think!

When does recycling happen?

Hint: Probably not when you think!

Recycling doesn't happen when items are tossed in the recycling bin or dropped off at the transfer station. Recycling happens when materials are turned back into products that people use.



R E C Y C L I N G B A S I C S

Time to CLOSE the recycling loop

IF YOU ARE NOT BUYING RECYCLED, THEN YOU AREN'T FULLY RECYCLING.



(Before you buy, look for the words, "post-consumer recycled content")

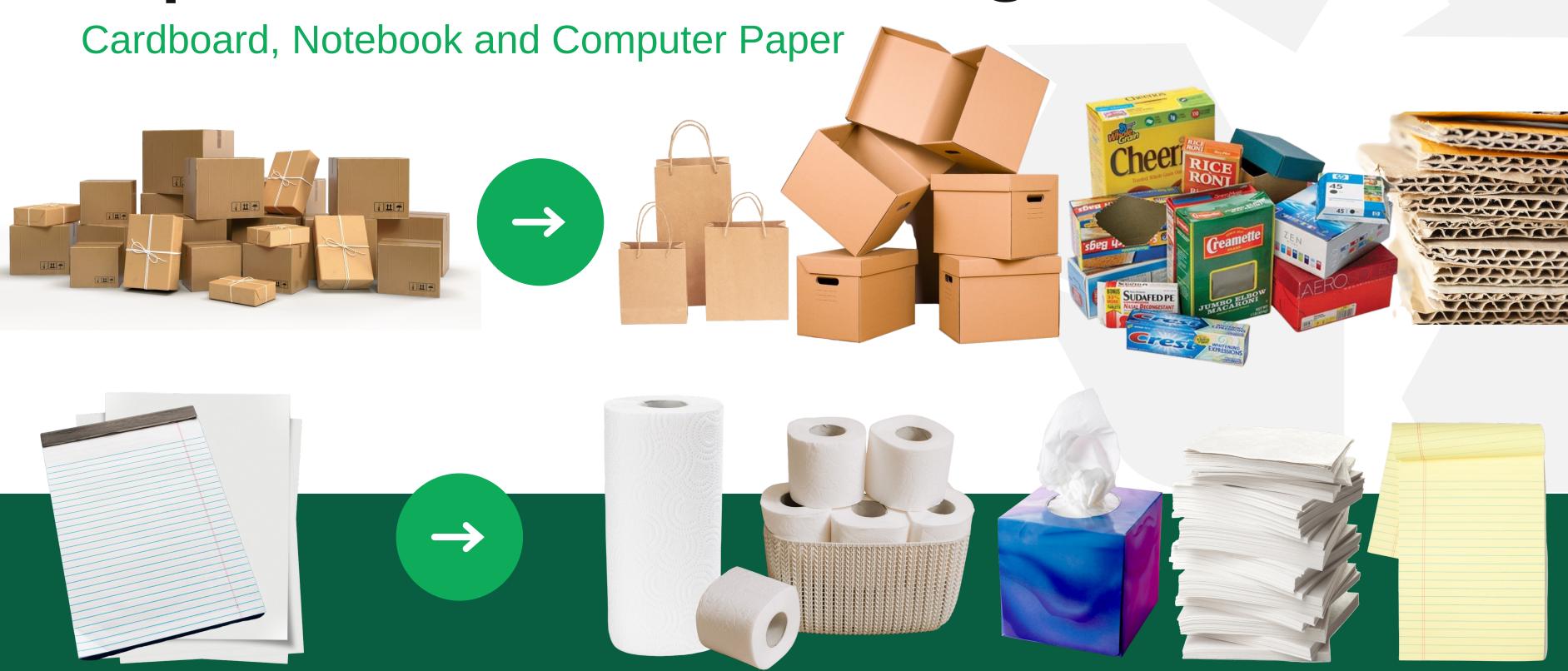
Mixed Paper Recycling

Magazines, Paperboard, Mixed Paper, and Junk Mail





Paper & Cardboard Recycling



Tin & Aluminum Can Recycling





Glass & Plastic Recycling













PLASTICS RECYCLING A QUICK GUIDE TO PROBERS







YES, RECYCLE! Items include soda and water bottles, milk and juice jugs, shampoo and cleaning bottles.





NO, TOSS IT. Items include plastic wrap and food trays, cooking oil containers, vending cups, vinyl and styrofoam products.





MAYBE, ASK? Items include yogurt containers, shopping, and dry cleaning bags



Plastic Recycling

Not all plastics can be recycled



What About Chasing Arrows?

This symbol with a number in the middle tells you what type of resin the item is made out of.

This means it can give you a **CLUE** as to whether or not it's recyclable.

Plastics Fast Facts



I HEARD **STYROFOAM** IS RECYCLABLE, WHY CAN'T I PUT IT WITH MY PLASTIC RECYCLING?



Made of 95% air, 5% polystyrene, styrofoam is Hard to process, Expensive to store and ship, and a common Single-Stream Contaminant.

WHY CAN'T I RECYCLE PLASTIC BAGS OR FILM AT MY TRANSFER STATION?



Plastic bags and film require a different type of processing. At a typical recycling plant, this type of plastic can tangle and jam the processing equipment.











NRRA NORTHEAST RESOURCE RECOVERY ASSOCIATION

Next Steps

Actions you can start taking TODAY



SIGN UP

For Full of Scrap

NRRA's bi-weekly newsletter on recycling and waste reduction news in the Northeast



BUY RECYCLED

At Home and at Work

Look for the phrase, "post consumer recycled material."



DIVERT

Food Waste OUT

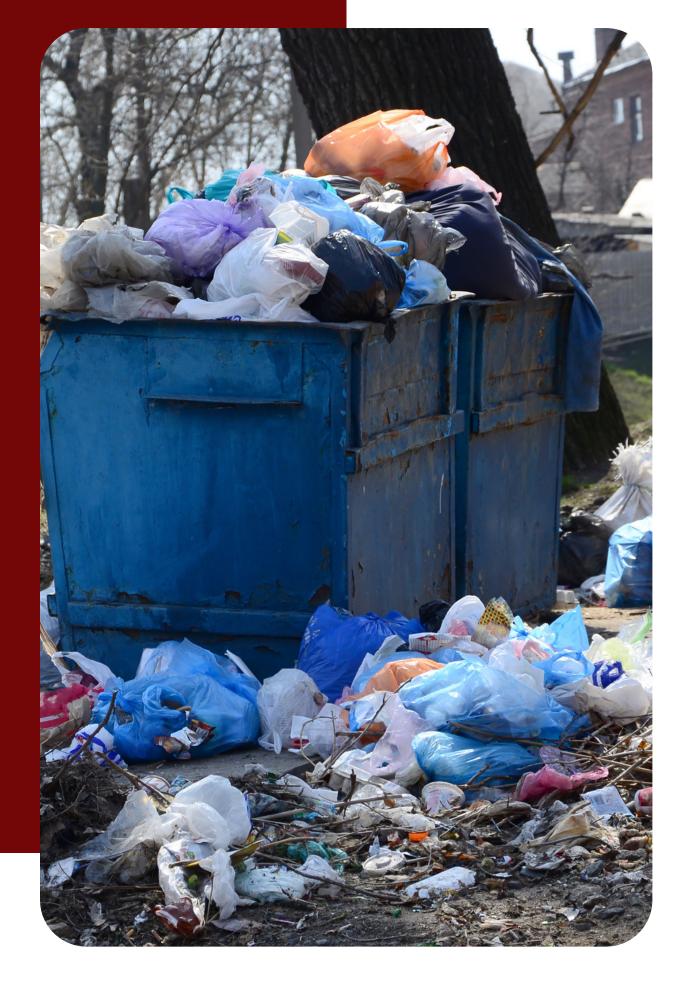
Find an alternative - compost at home, with a commercial composter, or farm.



UNITE

Join a Committee

Join or start a municipal waste reduction committee, working in **PARTNERSHIP** with your town.



Challenges Unique to NH



Solid Waste Disposal is **Expensive**

New England has the **highest cost for trash disposal** in the entire country.



Out-of-State Solid Waste coming in.

Nearly 50% of the waste disposed in NH comes from out of state - mostly from MA.



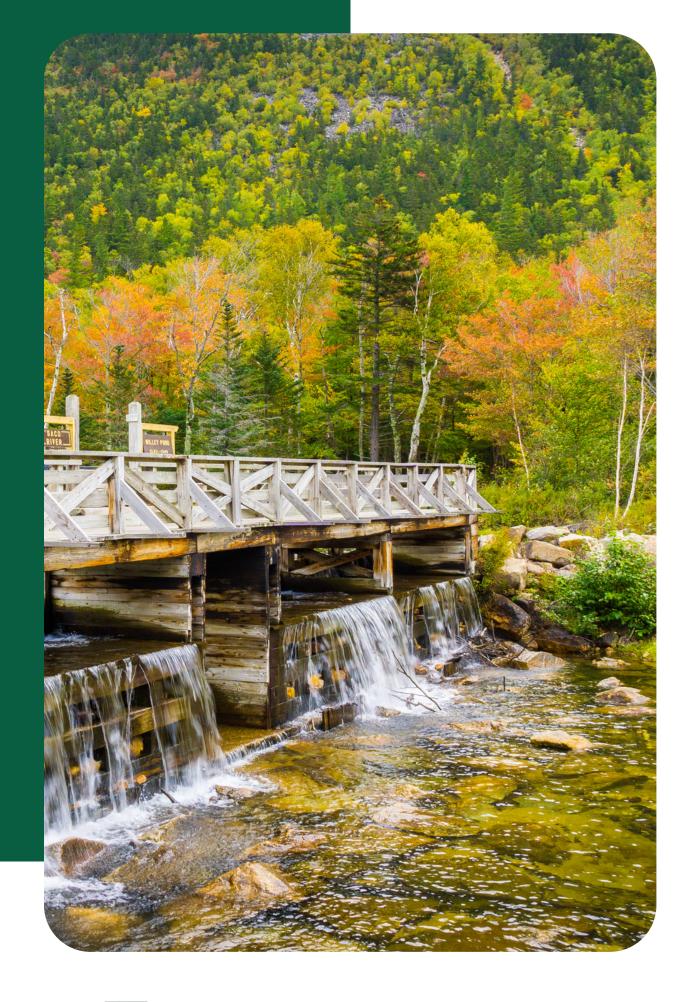
Lack of State Support

We lack the grants, technical assistance, and state-level policies that support recycling and solid waste management.



Lack of **Infrastructure**

We lack infrastructure such as a MRF or anaerobic digester for solid waste diversion.



Possible Solutions

Options that have worked in other states



Bottle Bill

Deposit-refund system incentivizes bottle recycling through a minimum refundable deposit (requires legislative action)



Extended Producer Responsibility (EPR)

An environmental policy approach that shifts the responsibility for the full lifecycle of a product upstream toward the producer and away from municipalities.



Waste Bans

Enacted on the state level (such as the NH Yard Waste Ban), waste bans restrict the type of items that can be disposed of within the state.

Recycling Takeaways





Connect With Us

Contact Information



NRRArecycles.org

**This material is based upon work supported under a grant by the Rural Utilities Service, United States Department of Agriculture. Any opinions, findings, and conclusions or recommendations expressed in this material are solely the responsibility of the authors and do not necessarily represent the official views of the Rural Utilities Service. Rural Community Assistance Partnership, Inc., is an equal opportunity provider and employer.



THANKS & QUESTIONS?

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