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ZERO WASTE 2020: Ulster County Vision Statement and Action Plan

“Shift the way you see or perceive solid waste; Waste is materials and materials are a commodity”

1. Introduction

The 2020 Ulster County Solid Waste Management Plan will adopt policies and develop plans that move community members to eliminate waste. This vision statement and action plan provide County municipalities, businesses and residents a working document that can be used to guide decision making policies and programs toward achieving a zero-waste goal. In addition, it provides the community with an understanding of their role in moving toward zero waste.

Zero waste is defined as the conservation of all resources by means of responsible production, consumption, reuse, and recovery of products, packaging, and materials without burning and with no discharges to land, water, or air that threaten the environment or human health.¹ It is a systems approach to eliminating the impacts of products and packaging, resource use and reutilization through the implementation of modern materials management and greenhouse gas reduction programs. Impacts are designated as upstream impacts (e.g., pre-consumer, resource extraction and production of goods); and downstream impacts (e.g., post-consumer, end of life, waste management).

2. Ulster County Zero Waste Vision

Changing consumer behavior will lead to waste reduction, and discarded materials should be evaluated and recovered for their highest and best use with a goal of little to no materials sent to landfills, waste-to energy or biomass facility.

¹ <https://www.epa.gov/transforming-waste-tool/how-communities-have-defined-zero-waste#:~:text=Zero%20Waste%3A%20The%20conservation%20of,the%20environment%20or%20human%20health.>

To achieve this vision, Ulster County will work to:

1. Educate and engage businesses, organizations, public agencies and residents in zero waste
2. Adopt and implement supporting policies and Zero Waste Action Plans.
3. Support legislation and adopt policies that require minimized environmental impacts through improved product design.
4. Ensure that facilities and infrastructure are in place to properly manage all recovered materials.

3. Guiding Principles for Zero Waste

The 6 R's: Refuse, Reduce, Reuse, Repair; Repurpose, Recycle are part of Zero Waste and are explained below:

REFUSE (Consumer Modification) Definition: Consumer Modification means eliminating or reducing the quantity of waste which is produced in the first place, thus reducing the quantity of waste which must be managed. Prevention is the most desirable waste management option as it eliminates the need for handling, transporting, recycling or disposal of solid waste. It provides the highest level of environmental protection by optimizing the use of resources and by removing a potential source of pollution. Both the EPA Sustainable Materials Management and NYSDEC Beyond Waste endorse waste prevention through diversion and reuse. Although most waste prevention and minimization measures can be applied at all stages in the lifecycle of a product including: the production process, marketing, distribution, or utilization stages (using the entire product up), discarding the product at the end-of life stage, there should be an aggressive public campaign to alter consumption habits.

REFUSE (Consumerism Modification) – Prevention and Minimization Source: All generators of solid waste are included in this category and is the preferred method for sustainable materials management practices by both the EPA and NYSDEC. Prevention can take the form of reducing the quantities of materials used in a process or reducing the quantity of harmful materials which may be contained in a product. Prevention can also include the reuse/diversion of products.

REDUCE Definition – Waste reduction (or prevention) is the preferred approach to waste management because waste that never gets created doesn't have waste management

costs. An example of waste reduction is reducing unnecessary packaging from manufactured products and produce.²

Reducing waste through public education by addressing consumer practices (less packaging; buying in bulk and buying only what you need), using everything that is purchased (i.e. food, paint, cleaning products) and promoting swaps, exchanges and other methods to reduce material produced. This philosophy would apply to consumers, institutions and businesses.

REUSE Definition: Re-use means the use of a product on more than one occasion, either for the same purpose or for a different purpose, without the need for reprocessing. It is preferable that a product be re-used in the same state i.e., returnable pallets, using an empty glass jar for storing items and using second-hand clothes.

Re-use avoids discarding a material to a waste stream when its initial use has concluded. Reuse is preferable to recycling as the item is reused or repurposed without going through a detailed treatment process thus helping to save on energy and material usage. It is a method of sustainable materials management that can be used by all solid waste generators.

REPAIR Definition: Repair is to fix or mend something that is broken or has a defect. Repairing items will increase their useful life reducing the need to purchase and discard.

REPAIR – Promoting repair of items can stimulate new local business and increase the life of an item while reducing premature disposal. Consumers should focus on durable items that has access to “fix it” parts.

REPURPOSE Definition: To use something for a different purpose to the one for which it was originally intended.

Repurposing offers many opportunities to divert usable materials from the waste stream for use in crafts, clothing, home and garden items, etc. There is an economic benefit saving on raw materials and an environmental benefit in the reduction of usable materials being discarded.

RECYCLE Definition: Recycling involves the treatment or reprocessing of a discarded waste material to make it suitable for subsequent re-use either in a state similar to its original state or reduced to its raw materials and reconstituted. It benefits the environment by reducing the use of virgin materials. It includes recycling of organic wastes but excludes energy recovery.

Recycling is generated by both consumers and manufacturers. Many different materials can be recycled. Materials can either be recycled for use in products similar to their original use (i.e., paper recycling) or can be recycled into a product which is different than the original use (i.e.,

² <https://www.calrecycle.ca.gov/>

recycling plastic bottles into fleece jackets or using construction and demolition waste as road aggregate.

COMPOSTING is also considered recycling. Yard waste (brush and yard clippings) has been banned from New York State landfilling for years due to the production of methane gas resulting from decomposition. New York State recently passed legislation to ban food waste by the Year 2023 and Ulster County's ban on food waste in the waste stream will begin on July 1, 2020 for generators of two (2) tons a week or more.

4. Why is Zero Waste Important?

By current national estimates per capita waste generation has increased from 2.7 lbs./person/day in the early 1990s to 5.5 lbs./person/day in Ulster County. Today, this equals 2,000 pounds/year/person. With such vast quantities of waste being produced, it is of vital importance that it is managed in such a way that it harm is mitigated to both human health and to the environment. The waste coming from households, commercial activities, industry, agriculture, construction and demolition projects, and from the generation of energy can be quantified, characterized and consequently managed in such a way that near net zero waste can be achieved.

The zero-waste philosophy is to reduce as much of the solid waste stream as possible with a goal of eliminating the need to landfill or incinerate. Currently, 133,349 tons of waste is transferred to a landfill four and a half hours away, and 3,686 tons of biosolids are landfilled at a site five hours away, adding 13.4 million pounds of CO₂ emissions to Ulster County's footprint.³

Ulster County depends on disposal of MSW at a landfill many miles away that will be closing in the next decade. There are very few available alternate disposal facilities, and the Solid Waste Management Plan prioritizes managing materials within the County . Reducing the waste stream as much as possible will reduce the size of a disposal facility and its environmental and economic impact.

Ulster County Waste Stream Totals

| Material | Tons Generated | Total in Category | | With Zero Waste Plan | |
|----------|----------------|-------------------|--|----------------------|--|
| | | Disposal | | | |

³ 137,035 tons of waste at 32 tons per trailer load at 108 gallons of diesel per load at 29 pounds of CO₂ per gallon

| | | | | | |
|---|------------|-------------|--|--------|--|
| MSW | 109,212.42 | | | 11,000 | |
| C&D | 52,550.46 | 165,395.70 | | 1,000 | |
| Biosolids | 3,632.82 | | | 0 | |
| | | Recycling | | | |
| Single Stream | 7,656.15 | | | | |
| Mixed Paper | 2,432.32 | 26,366.38 | | | |
| Old corrugated cardboard | 13,297.29 | | | | |
| Kingston City Mix | 908.39 | | | | |
| Container Glass (all colors) | 908.39 | | | | |
| Dual Stream (commingled, glass, plastic, metal) | 1,189.45 | | | | |
| PETE Plastics (#1) | 278.90 | | | | |
| | | Scrap Metal | | | |
| Freon Appliances | 6.11 | | | | |
| Propane Tanks | .41 | 8,749.77 | | | |
| Bulk Metal (residential) | 1869.60 | | | | |
| Ferrous Metal (iron, steel) | 6,347.14 | | | | |
| Non-Ferrous Metal | 526.51 | | | | |
| | | Organics | | | |
| Food Scraps (composted) | 7,907.25 | | | | |
| Food Donations | 278.90 | 17,058.63 | | | |
| Fats, Oils, Grease | 624.30 | | | | |
| Brush, branches, trees | 2,653.28 | | | | |
| Wood Pallets | 855.87 | | | | |
| Clean Wood | 2,200.23 | | | | |
| Leaves and Grass | 1,367.57 | | | | |
| Animal Manure | 1,174.50 | | | | |
| | | | | | |
| Tires | 1,677.45 | 1,677.45 | | | |
| | | | | | |
| Clothing, Textiles | 1,091.42 | 1,091.42 | | | |
| | | Fill/Rubble | | | |
| Soil (clean) | 1,045.00 | | | | |
| Rock, Brick, Concrete | 25,069.49 | 26,114.49 | | | |
| | | Misc. Other | | | |
| Film Plastics | 105.42 | | | | |
| Electronics | 1419.58 | 3,666.34 | | | |
| Fluorescent Bulbs | 10.13 | | | | |
| Batteries | 229.77 | | | | |
| Antifreeze | 21.21 | | | | |
| Motor Oil | 572.07 | | | | |
| Soil (Contaminated) | 707.00 | | | | |
| Other (Hazardous) | 335.74 | | | | |

| | | | | | |
|-------------------------------------|--------|--|--|--|--|
| Other (Non-Hazardous) | 74.21 | | | | |
| Other (ReUse) | 32.54 | | | | |
| Other (Recycled Industrial Liquids) | 147.00 | | | | |
| Other MISC. Plastic or Metal | 11.67 | | | | |

It is widely acknowledged that our current way of life is unsustainable in many ways including the pace at which we are consuming our natural resources and the environmental impacts associated with the ongoing pollution of our water, air, and land. Zero waste programs and policies address these issues by educating the consumer on waste reduction through purchasing and diverting, identifying inefficiencies in the use of materials and striving to eliminate them. In doing so, zero waste programs lead us to a more sustainable future.

More specifically, as addressing the issue of climate change has become the focal point for sustainability among most of the governmental agencies in Ulster County, it is essential to recognize the significant way that achieving Zero Waste will reduce greenhouse gas (GHG) emissions. GHG emissions from materials consumption fall into two broad categories:

- (1) methane generated as organics decompose in a landfill,
- (2) emissions produced in the extraction of resources, the use of energy in the production of goods and services and transportation of goods; and
- (3) emissions produced in transporting waste to disposal or processing.

In the recent Drawdown program⁴, solid waste has been recognized as the third highest contributor to greenhouse emissions. A 2009 study by the U.S. EPA, Opportunities to Reduce Greenhouse Gas Emissions through Materials and Land Management Practices, highlights that 44% of all GHG emissions are related to the extraction of resources and the use of energy in the production of goods and services. Reusing those resources and production of goods, especially those that are not made locally, eliminates the need to extract additional resources and the resulting GHGs and also reduces GHG emissions from disposal in landfills. Reducing the volumes of solid waste that need to be landfilled has no negative impact.

To reach zero waste objectives, an iterative process of reducing the use of products that remain in the waste stream in the largest quantities or that add the most toxicity would effectively reduce the waste stream while moving towards zero waste.

⁴ <https://drawdown.org/>

DETAILED ZERO WASTE PLAN

ACTION PLAN:

- Aggressive zero waste plan to reduce MSW by 80-90% by 2030 based on
 - o improved/expand access to recycling markets by improving quality of material being received and encouraging business startup
 - o Expand consumer education on purchasing in bulk, without packaging, and/or exchange by training volunteers or increasing staff
 - o expanding repair cafes and nurturing repair type businesses and vocational training
 - o expanding reuse centers and encouraging shopping at second hand stores
 - o Pass legislation for regulating recycling content in geomaterials such as concrete, blacktop etc.
 - o Kick off a major 2021 education campaign with participation from businesses to reduce waste
 - o create a “feedstock” exchange for packaging material such as packaging pillows, peanuts, etc.
 - o legislation banning all plastic foam
 - o promoting the economics of waste diversion
- Create a Zero Waste Demonstration

This is a pilot program that will demonstrate a Zero Waste System to assist in determining costs, barriers to participation, and methods to handle specific waste streams, markets.

STEPS FOR SETTING UP A ZERO WASTE DEMONSTRATION:

- Select a demonstration community
 - Audit the demonstration community to establish a base line for the waste characterization
 - Develop a Zero Waste Plan for the selected community
 - Establish a demonstration time frame (beginning and ending dates)
 - Develop a budget
 - Determine funding
 - Prepare conclusions and recommendations
- Create a County "Resource Recovery Park" designed to handle every category in the Zero Waste Implementation Plan--and capable of radically diverting waste from landfill

disposal which will create green jobs.

- Increase The Green Business Challenge Goal from 100 Ulster County businesses, organizations, or municipalities to ALL Ulster County businesses, organizations or municipalities. (See Attachments for full Green Business Challenge Program)
Support and acquire funding for the County's Green Jobs Program in partnership with organizations like SUNY Ulster, Ulster BOCES, and local businesses to train residents with the skills to get jobs in alternative energy production

5. Solid Waste Stream

A. Municipal Solid Waste

Solid waste is comprised of several different material streams and includes MSW, construction and demolition debris (C&D), industrial waste and biosolids. Although all these waste streams are managed in the state, the focus of NYSDEC's 2010 Plan titled "Beyond Waste; A Sustainable Materials Management Strategy for New York State" and this LSWMP are the materials categorized as MSW, C&D, biosolids, and industrial waste, as discussed below and in subsequent sections.

The Ulster County Resource Recovery Agency's transfer stations do not accept Industrial Waste; however, Industrial Waste has been included within this Plan to quantify and address this material produced with the County.

5.1 Municipal Solid Waste (MSW)

MSW is comprised of materials generated by the residential, commercial, and institutional sectors that are either discarded or recycled. According to New York State Codes, Rules, and Regulations (NYCRR) Part 360, MSW is defined as residential waste, commercial waste, or institutional waste, or any component or combination thereof, excluding construction and demolition debris and biosolids unless they are commingled. NYCRR Part 360 describes recycling as the series of activities by which materials are collected, sorted, processed, and converted into raw materials or used in the production of new products, or, in the case of organic materials, use productively for soil improvement. NYSDEC estimates that 54 percent of the MSW generated statewide is residential and 46 percent is commercial/institutional. This ratio is important to the planning efforts since the materials generated by each are typically different. In general, the commercial/ institutional sector generates a higher percentage of food scraps and corrugated cardboard than the residential sector. In addition, the population density of a community (urban, suburban, or rural) can have an impact on the composition of the waste stream, particularly the organic content. The components of MSW are listed below along with

estimated generation and disposal percentages reported in the NYSDEC's Beyond Waste Plan (disposal represents non-recycled material).

5.2 Recyclables

Recyclables can be managed by either dual stream or single stream methods. Single stream recycling is the combination of all recyclable products (paper, cardboard, plastics, glass, and metal) into one container by the resident or commercial business, which is then picked up by a truck and dumped in one pile at a processing facility. Dual stream recycling is separation of the two main recyclable product streams (paper and cardboard as one and plastics, glass and metal as the other) by the resident or commercial business.

Recycling materials deposited in and shipped from the transfer stations are brought arrive at the UCRRA source separated by material and are recorded on each load to help quantify the tonnages being handled. This data is tracked year to year to help set tipping fees and to help understand recycling trends. Collected data is submitted to NYSDEC annually. The Agency implemented the ability to accept for transfer single stream materials in 2010. However, UCRRA's Materials Recovery Facility (MRF) was not set up for on-site processing of single stream loads, , single stream operations ceased in early 2019 after a substantial drop in available markets due to the high levels of contamination. As a result, only the dual stream recycling method is currently utilized by UCRRA. Haulers can bring dual stream loads of recyclables to the Ulster MRF which are then processed and transferred to vendors for recycling. Dual stream recyclables can be dropped off by residents at the local MRDCs. If the recyclables are dropped off at the local MRDC, they will be transported to the MRF in separate containers, dumped in their own respective piles, and then finally transferred to an end recycling facility for proper disposal.

The UCRRA website provides full details on how to properly recycle and what materials are accepted in the recycling stream. Private or public haulers must also pick up recyclable materials curbside, if residents do not bring the recyclables themselves to a MRDC per local Law No. 4 of 2010. These materials do not have to be transferred to the UCRRA MRF since the County's flow control legislation does not apply to recyclables. However, it is the responsibility of the generator to ensure the recyclable materials are brought to an appropriate recycling or recovery facility. The City of Kingston provides curbside pickup for MSW, recyclables, and yard waste for the residents that live within the service area, and both the Towns of Kingston, New Paltz and the Village of New Paltz contract with a single hauler for curbside pickup.

Regulated recyclable materials initially established under County local law shall, as defined in Section 4 of the County Source Separation Law, include the following: newspaper, color-separated glass bottles and jars, metal cans, plastics bottles and jugs, corrugated cardboard, office paper, and computer paper.

- Paper – (newspaper, corrugated cardboard, other recyclable paper, and other compostable paper) comprises approximately 33 percent of the MSW generated in NYS and approximately 28 percent of the MSW sent for disposal.
- Glass - (glass food and beverage containers) makes up approximately 4 percent of the materials generated and approximately 3 percent disposed of in NYS.
- Plastics – (plastic bottles, rigid containers, and film plastics) make up more than 13 percent of the MSW generated, and nearly 17 percent of the MSW disposed of in NYS.
- Metals – (steel and aluminum cans, aluminum foil, appliances, and municipally generated scrap metal) make up nearly 7 percent of the waste stream in NYS and approximately 6 percent of MSW disposed in NYS.
- Organics (food scraps) – (uneaten food and food preparation materials from residences, commercial establishments, and institutions) represent nearly 18 percent of the MSW generated every year in NYS.
- Yard Waste – (leaves, grass clippings and garden debris) makes up, on average, approximately 5 percent [urban – 3%, suburban – 10%, rural – 2%] of the MSW stream and combined with food scraps represent almost 30 percent of the materials discarded.
- Textiles – (clothing, towels, sheets, and draperies) make up approximately 5 percent of the materials stream.
- Wood – (generated by small scale or do-it-yourself projects) is nearly 3 percent of the MSW generated in NYS.
- Other – this category represents about 11 percent of the waste stream in NYS and includes residentially generated C&D materials, other durables, diapers, electronics, HHW and tires, among other items.

ACTION PLAN

- Waste reduction through consumer education on buying in bulk and reduced packaging, using reusable items instead of disposable and purchasing items in quantities that will be completely used
- Education campaign promoting proper recycling and all available local resources for materials diversion for both the residential and commercial sectors
- Pass local and/or state legislation requiring a certain content of recycling (i.e. crushed glass to asphalt or concrete)
- Pass local legislation to reduce packaging (focusing on materials that cannot be

diverted or recycled such as hinged plastics)

- Update County purchasing and green procurement policy
- Update County source separation and recycling law including enforcement
- Actively support the Green Jobs Program in partnership with organizations like SUNY Ulster, Ulster BOCES, and local businesses to train residents with the skills to get jobs in alternative energy production

5.3 MRF (Materials Recovery Facility for recyclable material)

The County's flow control legislation does not apply to recyclables. (See Local Law No. 10 of 2012). However, a program has been established within Ulster County for the mandatory source separation of regulated recyclable materials from the solid waste stream. The Ulster County Source Separation and Recycling Law of 1991⁵ requires the generator to ensure that recyclable materials are brought to an appropriate recycling or recovery facility and that each solid waste facility in Ulster County provides adequate containers for separated recycling. All persons shall separate regulated recyclable materials from solid waste before either setting out solid waste for collection pursuant to lawful procedure or disposing of it in an authorized solid waste management facility.

ACTION PLAN

- Update 2002 MRF with state-of-the-art separating and processing systems
- Improve and upgrade the MRF to process recyclables for market (i.e. glass crusher/washer to NYSDOT specifications for roadway use and/or additives to concrete or blacktopping, pelletizing plastic by color and type, etc.)

UCRRA WASTE STREAM TOTALS (Table from 2020 Solid Waste Management Plan)

| Material | Total (tons) | Percent of waste stream |
|-----------|--------------|-------------------------|
| MSW | 101,379 | 66.45% |
| C&D | 31,970 | 20.96% |
| Biosolids | 3,686 | 2.42% |

⁵ <https://ulstercountyny.gov/sites/default/files/documents/ILL%20No.%2012%20of%202007.pdf>

| | | |
|--------------------------|---------|---------|
| Single Stream* | 6,423 | 4.21% |
| Old corrugated cardboard | 1,553 | 1.02% |
| Food Waste | 3,537 | 2.32% |
| Mixed News | 1,051 | 0.69% |
| Wood chips | 1,169 | 0.77% |
| Commingled | 526 | .34% |
| Brush | 459 | .30% |
| E-Waste | 304 | .20% |
| Glass | 496 | .33% |
| Total | 152,553 | 100.00% |

* No longer being accepted by the UCRRA as of March 2019

5.4 Scrap Metal

Scrap metal has long been separated from the waste stream through a financial incentive to take it to scrap yards. Generally, all types of metal are accepted, and, depending on market value, the user will receive compensation by weight for what was delivered. Since, 2012, the market value of scrap has plummeted offering only pennies a pound for light tin with requirements of dropping a minimum of 100-200 pounds before being compensating. There are several options to separate scrap metal for recycling:

TABLE 2

FERROUS

Light Iron (Tin)

Light Iron can include materials such as thin sheet metal, metal shelving, metal cabinets, water heaters, pots and other thin, magnetic, metal products.

Steel

There are many forms of steel. From HMS (Heavy Melting Steel) to Cast Iron (such as furnaces or old heaters) wrought Iron and I-beams. Material cut to appropriate lengths is considered 'prepared', while longer lengths are unprepared.

NON-FERROUS

Aluminum

Siding, gutters, sheet, signs, and rims are a few examples.

Brass

Fittings, valves, hinges and other assorted fixtures.

Copper

All manner of copper pipe and tubing, gutters and flashing.

Stainless Steel

Sinks, shelving and racks.

Wire

All forms of copper wire, including extension cords, appliance cords and computer cable.

OTHER COMMODITIES

Appliances

Small appliances,

Electric Tools

Powered tools such as drills, saws, grinders, sanders; any tool with an electric motor.

Junk Cars / Trucks

Cars and trucks for scrap. Complete cars should have all parts intact (including motors, tires, batteries,

Gas Powered Equipment

Lawn Mowers, Snow blowers, landscaping equipment, weed whackers, etc.

Oil Tanks / Drums

Oil tanks and drums prepared by cutting the tanks and free of oil or fuel.

Metals can be brought to either municipal transfer stations through mixed loads or solely bulk metal, or to a local NYSDEC registered scrap metal drop off location.

Table 3

| NAME | LOCATION | TOWN | CONTACT |
|------------------|---------------------|--------------|----------------|
| City of Kingston | 69 Albert St | Kingston | 845-331-5787 |
| Denning | 1444 Denning Road | Claryville | (845) 985-2543 |
| Esopus | 70 West Shore | Esopus | (845) 384-6835 |
| Gardiner | 131 Steve's Lane | Gardiner | (845) 255-9675 |
| Hardenburgh | 192 Alder Creek Rd | Hardenburgh | (845) 439-3681 |
| Hurley | 1043 Dug Hill Road | Hurley | (845) 338-5412 |
| Lloyd | 106 Lily Lake Road | Highland | (845) 220-8123 |
| Marlborough | 20 Baileys Gap Rd | Milton | (845) 795-2314 |
| Marbletown | 135 Canal Road | High Falls | (845) 687-9198 |
| New Paltz | 3 Clearwater Rd | New Paltz | (845) 255-8456 |
| Olive | 580 Beaverkill Road | Oliverbridge | (845) 657-8177 |
| Plattekill | 41 Venuto Road | Modena | (845) 883-6064 |
| Rochester | 100 Airport Road | Accord | (845) 626-5273 |

| | | | |
|----------------------------|--------------------|------------|---|
| Rosendale | Whiteport Road | Rosendale | (845) 338-0113 |
| Saugerties | 1765 Route 212 | Saugerties | (845) 679-0514 |
| Shandaken | 7209 Route 28 | Shandaken | (845) 688-5004 |
| Shawangunk | 267 River Road | Wallkill | (845) 895-2894 |
| Ulster | 900 Miron Lane | Kingston | (845) 336-0311 |
| Wawarsing | 209 Landfill Road | Wawarsing | (845) 647-3410 |
| West Kingston Recycling | 642 Abeel Street | Kingston | (845) 331-3312 |
| A. Messina Recycling | 19 Orchard Drive | Gardiner | (845) 883-6543 |
| Canos Recycling | 1083 Kings Highway | Saugerties | (845) 331-7600 |
| Doug Tyler & Son | 66 Tyler Lane | Cottkill | (845) 849-5909 |

ACTION PLAN

- Encourage consumer purchasing in metal containers to save valuable raw materials due to its energy efficient recycling costs and durability. The amount of energy that is saved using recycled metals compared to raw metals is:

- 92% for aluminum
- 90% for copper
- 56% for steel

- Promote use of metal/aluminum reusable containers for beverages and food

- Should be included in residential and commercial recycling booklet

5.5 Tires

Car tires, as well as light and medium truck tires, are accepted at the Transfer Stations. Vehicular tires are occasionally brought into the facility through mixed loads. The tires are taken out of the waste stream and sent for disposal at NYSDEC registered recycling facilities.

Because tires are highly durable and non-biodegradable, they can consume valued space in landfills. In 1990, after tires were banned from landfilling, it was estimated that over 1 billion scrap tires were in stockpiles in the United States. As of 2015, only 67 million tires remain in

stockpiles. From 1994 to 2010, the European Union increased the number of tires recycled from 25% of annual discards to nearly 95%, with roughly half of the end-of-life tires used for energy, mostly in cement manufacturing.

Tire recycling, or rubber recycling, is the process of [recycling](#) waste [tires](#) that are no longer suitable for use on vehicles due to wear or irreparable damage. These tires are a challenging source of waste, due to the large volume produced, the durability of the tires, and the components in the tire that are ecologically problematic.⁶ Waste tires pose a fire hazard, cause ecological damage to sensitive estuary habitats, and harbor vectors that carry disease..

The downstream impacts of these waste streams are particularly pronounced within the Hudson Estuary and Wallkill River. Each type of waste presents unique challenges and hazards to the environment and the communities affected. A 2009 study funded by CalRecycle studied the extent and locations of waste tires, solid waste, and sedimentation. A 2014 U.S. EPA study found embedded chemical pollutants in both plastics and sediments. The 2009 survey revealed extensive amounts of sediment containing an estimated 3,500 tons embedded trash including waste tires and beverage containers. The conditions that produced these results have been only fractionally remediated to date due to lack of funding.

A strong waste tire rubber commodity market is a national concern since the goal is to keep this material out of landfills and the environment. Building a strong commodity market for reuse can create a demand for waste tires, thereby minimizing illegal dumping and use as tire derived fuels.

Tire-derived fuel (TDF) is composed of shredded scrap tires. Tires may be mixed with coal or other fuels, such as wood or chemical wastes, to be burned in concrete kilns, power plants, or paper mills. An EPA test program concluded that, with the exception of zinc emissions, potential emissions from TDF are not expected to be very much different from other conventional fossil fuels, as long as combustion occurs in a well-designed, well-operated and well-maintained combustion device. (NOTE: Ulster County historically has been opposed to any type of incineration/WTE)

Tires are a difficult component of the waste stream to “recycle”. Over 242 million scrap tires are generated each year in the United States. In addition, about 2 billion waste tires have accumulated in stockpiles or uncontrolled tire dumps across the country. Millions more are scattered in ravines, deserts, woods, and empty lots. Scrap tires provide breeding sites for mosquitoes which can spread diseases and large tire piles often constitute fire hazards. Most tire and solid waste professionals agree that a tire problem exists. Whole tires are banned from most landfills and the potential for tire dump fires increase the longer the tires remain on the ground. Fires in tire dumps have burned for months, creating acrid smoke and leaving behind a hazardous oily residue. A few tire fire locations have become Superfund sites.

⁶ Wikipedia

Tires should be utilized to minimize environmental impact and maximize conservation of natural resources. This means reuse or retreading first, followed by reuse of the rubber to make rubber products or paving, and then combustion and disposal. At present, the preferred uses do not accommodate all the tires, and disposal must be utilized to a large degree. Over the past 20 years the average tipping fees for disposing of tires have continually increased.⁷

There are several permitted tire recycling companies that service collection sites in the Hudson Valley/Catskill area that handle and/or process tires.

1. Unity Tire in Saugerties, NY offers recycled rubber (both pre- and post- consumer waste), at their in-house recycling facility and patented manufacturing process produces finished products that play an important role in promoting a cleaner and healthier world by re-using this waste material that once went into landfills.



2. Casings on Maple Avenue in Catskill offer used passenger or truck tires for export and recapping, and process for use as a tire derived fuel.
3. Don Stevens Tire Southington Connecticut also offers used passenger or truck tires for sale and processes unusable tires.

There are goals that can be set to reduce tire disposal (1700 tons collected annual by EPA standards; 1167 tons as reported by UCRRA 2019 actuals).

ACTION PLAN

- Encourage use of public transportation to reduce wear and tear on tires and support Ulster County's Climate Smart goals (UCAT)
- Encourage the use of non-motorized transportation on Ulster County's expanding pedestrian/bike paths (UCAT)

⁷ <https://archive.epa.gov/epawaste/conserve/materials/tires/web/pdf/tires.pdf>

- Encourage municipal building departments to consider use of tires for “Earthship” type structures, retaining walls and outdoor landscaping (Municipalities)



-
- Bring in manufacturers who use tires as a “raw” material to make new products such as mats, playground material or car accessories or who resell as usable tires or recaps

5.6 Textiles

A **textile** is a flexible material consisting of a network of natural or artificial fibers (yarn or thread). Yarn is produced by spinning raw fibers of wool, flax, cotton, hemp, or other materials to produce long strands. **Textiles** are formed by weaving, knitting, crocheting, knotting, tatting, felting, or braiding.⁸ Textiles in MSW Include used and discarded clothing from residents.

In 2014, over 16 million **tons** of **textile** waste was generated, according to the Environmental Protection Agency. Nearly 100 percent of **textiles** and clothing are recyclable. It is estimated that 95% of all used clothing, footwear and other cloth household products such as sheets, towels, curtains, and pillowcases can be recycled.

Even if items are torn... stained... are missing buttons... have broken zippers, etc., they can still be recycled. As long as the items are dry and oil/grease and odor-free (not stained with solvents such as gasoline) they can be recycled.

Recyclable textiles include:

⁸ <https://en.wikipedia.org/wiki/Textile>

Clothing: Shirts, pants, jackets, suits, hats, belts, ties, gloves, scarves, socks (even single ones) undergarments, handbags and backpacks.

Footwear: Shoes, sandals, sneakers, cleats, boots, flip-flops, and slippers

Household textiles: Curtains, drapes, sheets, blankets, comforters, towels, table linens, throw rugs, pillows, stuffed dolls and animals.⁹

There are collection boxes at local County transfer stations and MRDCs as well as non-profit agency sponsored clothing drop boxes located throughout the County for public use. In 2015, the Ulster County Controllers office did an audit of donations boxes as part of an investigation into claims by companies that they were not-for-profit or donating all proceeds. Although that didn't impact recycling or sales of donated textiles, the audit did lead to new signage that disclosed the status of the organization, where proceeds were going and the destination of the material.

According the EPA, only about 15% of textiles are recycled/reused. Textile manufacturers are among the top contributors to CO2 emissions. To reduce emissions caused by this waste stream, end users can initiate several diversion methods.

ACTION PLAN

- Textile/Clothing Swap-exchange wearable clothing and accessories for a “new wardrobe”
- Create a two-bin system for textiles (ready to wear, fiber for recycling)
- Clothing/Coat Drive-to donate wearable clothing and accessories to local shelters
- Participate in Repair Cafés and/or other venues to learn how to repair ripped/worn clothing and accessories rather than discarding them
- Create a pilot composting program for cotton containing textiles
- Create or participate in a cotton textile reuse program i.e. insulation
- Reuse/repurpose fabrics to create other items such as braided rugs, reusable bags, wall hangings, clothing, etc.

5.7 Organics: FOOD

Food waste is a matter intrinsically linked with the growing challenges of food security, resource and environmental sustainability, and climate change. According to the U.S. Environmental Protection Agency, food scraps and yard waste together currently make up about 30 percent of what we throw away. The proposed composting law requires regulated entities to prioritize their diversion practices based on a clearly delineated hierarchy. A

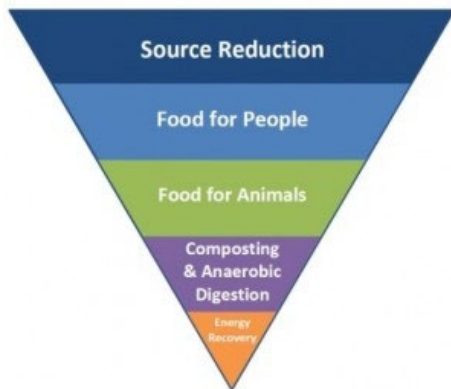
⁹ <https://www.dec.ny.gov/chemical/100141.html>

significant amount of waste in our landfills should have been composted leaving critical landfill space open for material that cannot be recycled or composted. Benefits of composting include creation of nutrient rich soil for agriculture and landscaping uses, increased tilth and the ability of soil to retain water and to store greenhouse gases, and reduced erosion. The Ulster County Legislature believes that banning disposal of food by large food waste generators aligns with Ulster County's sustainability initiatives and vision, and passed Local Law 1 of 2020 to require such generators to divert food waste from the MSW stream. Such diversion of food waste from disposal to programs for the purpose of providing nourishment to the food insecure, programs to supplement local farms with animal feed, composting to improve soil quality, and/or conversion to energy is key to a sustainable Ulster County and further reduction of its carbon footprint.

The following hierarchy represents Ulster County's policy for prioritizing the reduction, reuse and recycling of food scraps. The hierarchy shall be used in the County's education and outreach programs, and all food scraps generators are encouraged to manage food scraps accordingly.

1. The first tier of the hierarchy is source reduction (modifying consumerism), reducing the volume of surplus food generated. Food scraps generators may follow federal, state or county guidelines or use other methods to reduce spoilage, monitor waste and make other adjustments to reduce food waste and save money.
2. The second tier is recovery, feeding wholesome food to hungry people. Facilities with excess edible food should distribute excess foods for the purpose of providing nourishment to the food insecure through the local network of pantries and soup kitchens and other food-reuse programs following New York State Sanitary Code Part 14 and Ulster County Sanitary Code Article II. Donations of food are covered under the Bill Emerson Good Samaritan Act of 1996.
3. Third is repurposing, feeding animals. Federal, state and municipal governments and entities regulate the use of food scraps in animal feed by setting requirements which govern the type of animals that may be fed food scraps and the kind of food scraps that may be fed to animals. When done responsibly and in conformity with applicable regulations, feeding food scraps to animals has many economic and environmental benefits.
4. Fourth is recycling, processing any leftover food such as by composting or anaerobic digestion to create a nutrient-rich soil amendment. The material that is left over from anaerobic digestion must be either composted or land applied. For the purpose of this

law, pulverizers and other sink disposal systems are not acceptable alternatives for composting.¹⁰



Food scraps generated in Ulster County¹¹ 42,705 tons annually.

a) Food Recovery (Viable food still fit for human consumption)

There has been a strong movement in the mid-Hudson Valley to sustain food pantries by increasing donations and reducing the cost and volume of food being landfilled or composted. A local not for profit “The Food Insecurity Collaborative” was formed with three organizations (Family of Woodstock, Rondout Valley Growers Association and Ulstercorp) with the intent of coordinating volunteers with farms that would glean/donate fresh produce to be delivered to a food hub for distribution to local food pantries. In 2019, more than 68,000 pounds of produce for distribution to thirty-two pantries.¹²

The Town of New Paltz is one of five distribution hubs where more than six (6) pantries come out weekly to pick up fresh and processed produce. In 2017, New Paltz initiated a Food Recovery Program to remove food fit for human consumption from the waste stream program which began with donations from four local businesses including Sodexo SUNY New Paltz¹³ and a summer camp before building a refrigerated shed to store produce until pantries could pick up. The concept expands storage space for the pantries so they don’t have spoilage and end up throwing out food. Fresh produce comes in ten months a year from a local volunteer

¹⁰ <https://ulstercountyny.gov/sites/default/files/Proposed%20Local%20Law%20No.%205%20of%202019%20-%20Composting%20By%20Large%20Generators.pdf>

¹¹ <https://ulstercountyny.gov/sites/default/files/Proposed%20Local%20Law%20No.%205%20of%202019%20-%20Composting%20By%20Large%20Generators.pdf>

¹² <https://hvfarmhub.org/gleaning-and-giving/>

¹³ <https://sites.newpaltz.edu/news/2018/12/new-paltz-food-recovery-program-wins-state-award-for-recycling-leadership/>

organization that does gleaning and food processing in a certified kitchen. They work with the Food Insecurity Collaborative and Hudson Valley Farm Hub.¹⁴

Annually over fifteen tons of food is distributed to sixteen food pantries from the New Paltz Hub alone. Much of the food collected is from the Ulstercorp gleaning program and a local big box store.



ACTION PLAN

- Educate the public about smart purchasing and reducing food waste such as “Eat Me First” boxes and “Smart Shopping”
- Expand local food recovery hubs to increase storage and reduce travel time
- Incentivize participating businesses by recognizing green business practices

b) Food Recovery (Food fit for animal feed)

¹⁴ <https://hvfarmhub.org/>

Feeding Animals is the third tier of EPA's Food Recovery Hierarchy. Farmers have been doing this for centuries. With proper and safe handling, anyone can donate food scraps to animals. Food scraps for animals can save farmers and companies money. It is often cheaper to feed animals food scraps rather than having them hauled to a landfill. There are many opportunities to feed animals, help the environment and reduce costs.¹⁵

There are several farms in Ulster County including Briar Creek and Litts Farms that pickup leftover food from processing facilities, local restaurants and big box stores to supplement or replace animal feed. A local snack franchise stated that “this green business stuff really pays off” (meaning after marketing their cardboard and donating outdated snacks as animal feed, there was an instant operating savings) after being connected with a local farm who said “chickens and pigs love snack chips!”. In one year, a farm diverted nearly seventy tons of food to feed his animals saving \$900 ton in commercial feed purchases.

ACTION PLAN

- Create and maintain a list of local farms willing to accept clean source separated food waste from local restaurants and retail businesses
- Partner with Cornell Cooperative Extension to educate local livestock farmers about supplementing feed with diverted/donated food from local businesses
- Incentivize a food recovery program by recognizing green business practices of those who participate

Diversion of Food Waste from the solid waste stream:

Out of the annual 42,705 tonnage, 25% 10,000 tons is recoverable to supplement food pantries, 11,000 tons is suitable to supplement animal feed and the rest can be composted at a registered facility that does source separated food waste. Backyard composting of fruit and vegetable scraps can be done by the homeowner or generator on their property. Vegetables and fruits will break down as quickly as commercial composting of meats and dairy but they don't need to achieve the high temperatures to kill off pathogens. As a Climate Smart Community Ulster County Shall Calculate Green House Gases (GHG) utilizing the EPA WARM Model to assess positive/negative effects on Climate Change.

c) Composting

Composting is the aerobic, thermophilic decomposition of organic waste to produce a stable, humus-like material. Compost is a valuable amendment that restores soil by building health and structure to improve water retention and plant vitality.

ACTION PLAN

¹⁵ <https://www.epa.gov/sustainable-management-food/reduce-wasted-food-feeding-animals>

- Audit of food waste to create baseline and quantify with a goal of 50% diversion
- Create a demonstration site/program to create a model program and design for other expanded programs
-
- Pass local laws/policies to improve composting and access to facilities
(Large generators will be required to divert food scraps down to ½ ton per week by January 1, 2024)
- Implement community based and commercial education about composting on site
- Educate public about sustainability by providing information and encouraging individuals to cooperate in protecting environmental quality and reducing carbon emissions through education and creation of clear guidelines/locations for food donations and composting.
- Incentivize haulers to offer residents and businesses a three-bin blue, red & green carts for more extensively, eliminating recyclables and organics from the municipal solid waste system.

5.8 Organics: Yard Waste, Clean Wood

Yard Waste

Yard waste is grass, grass clippings, bushes, shrubs, and clippings from bushes and shrubs that comes from residential, commercial/retail, institutional, or industrial sources as part of maintaining yards or other private or public lands.

In Ulster County, yard waste is prohibited from being mixed with MSW and C&D per UCRRA's NYSDEC transfer station permit.

- ACTION PLAN Maintain list of locations to drop off yard waste

Clean Wood

Clean lumber means wood or wood products that have been cut or shaped and include wet, air-dried, and kiln-dried wood products. Clean lumber does not include wood products that have

been painted, pigment-stained, or pressure-treated by compounds such as chromate copper arsenate, pentachlorophenol, and creosote.

Action Plan

- Education and workshops for generators to source separate clean, unadulterated lumber from other material for grinding and/or reuse

5.9 (a) Waste Oil

Waste oil is defined as any petroleum-based or synthetic oil that, through contamination, has become unsuitable for its original purpose due to the presence of impurities or loss of original properties.¹⁶ Approximately 104,000 gallons of oil is generated annually in Ulster County.

Waste oil can be disposed of in different ways, including sending the used oil off-site (some facilities are permitted to handle the used oil such as your local garages and local waste disposal facilities), burning used oil as a fuel (some used oil is not regulated by burner standards, but others that are off-specification used oil can only be burned in either industrial furnaces, certain boilers, and permitted hazardous waste incinerators), and marketing the used oil (claims are made that the used oil is to be burned for energy recovery, it is then shipped to a used oil burner who burns the used oil in an approved industrial furnace or boiler).

Storage and handling of waste oil

For on-site burning of used oil, the oil must be stored in tanks or containers, above or underground. The containers must be in good condition with no leaks, the tanks/containers must be labeled with the words “used oil”, and there must be a spill prevention plan (or a control and countermeasures plan).

Storage Containers must have a valid NYSDEC Bulk Storage permit and have sufficient spill containment to prevent leaks/catastrophic failure of the tanks from contaminating surrounding soil.

Used Oil Management

The State's used oil regulations are located in Subpart [6 NYCRR 374-2: Standards for the Management of Used Oil](#) and are based largely upon the RCRA-based federal used oil regulations in [40 CFR 279](#). Federally based management standards are provided in subpart 374-2 for used oil generators, transporters and transfer facilities, processors and re-refiners,

¹⁶ https://en.wikipedia.org/wiki/Waste_oil

and for facilities that burn used oil for energy recovery. This Subpart also provides standards for marketing used oil as a fuel, standards for used oil disposal, and the ECL-based requirements concerning acceptance of DIY used oil by service establishments and retailers. [Section 374-2.10](#), in conjunction with [Part 360](#) , provides permitting requirements for used oil transfer facilities, processors and re-refiners, and registration requirements for used oil collection centers.¹⁷

Waste oil furnaces and boilers

Waste oil furnace is a type of furnace used for heating purposes and is fueled by used oil that is free of hazardous contaminants, as described by the EPA. Waste-oil-fueled boilers can be used for various industrial purposes as well as heating. To implement a waste oil reuse program for furnaces and boiler, the oil coming in must be monitored to ensure there is no debris or contaminants such as water and gasoline. Generally, waste oil burning units are in larger automotive service stations where they can ensure quality.

ACTION PLAN

- Educate the public on proper disposal of waste oil including locations
- Promote alternative means for waste oil reuse including workshops and vocational training
- Research and promote alternatives for waste oil (i.e. refined for reuse)

5.10 (b) Vegetable oil

Used cooking oil ("UCO") is generally a by-product of running a restaurant or other food service and is governed by multiple agencies depending on location including health department, sewer districts, state environmental agencies, etc.

Vegetable oils, or **vegetable fats**, are oils extracted from seeds, or less often, from other parts of fruits. Like animal fats, vegetable fats are *mixtures* of triglycerides. Soybean oil, rapeseed oil, and cocoa butter are examples of fats from seeds. In common usage, vegetable *oil* may refer exclusively to vegetable fats which are liquid at room temperature.

Opportunities for businesses and consumers to recycle used cooking oil ("yellow grease") has increased. Used cooking oil can be refined into different types of biofuels used for power generation and heating. A significant benefit is that biofuels derived from recycled cooking oil typically burn clean, have a low carbon content and do not produce carbon monoxide. This helps communities to reduce their carbon footprints. The recycling of cooking oil also provides

¹⁷ <https://www.dec.ny.gov/chemical/8786.html>

a form of revenue for restaurants, which are sometimes compensated by cooking oil recyclers for their used deep fryer oil. Cooking oil recycling also results in less used oil being disposed of in drains, which can clog sewage lines due to the build-up of fats and has to be collected there as "brown grease" by grease traps.

Vegetable oil refining is a process to transform vegetable oil into fuel by hydrocracking or hydrogenation. These methods can be used for production of gasoline, diesel, and propane. The diesel fuel that is produced has various names including green diesel or renewable diesel.¹⁸

In the past, waste oils were collected by pig farmers as part of food waste for pig swill bins. The grease was skimmed off the swill tanks and sold for further processing, while the remaining swill was processed into pig food.

An average of 35 gallons of oil is used daily in a restaurant.

ACTION PLAN

- Promote local businesses that use or make biofuel from used vegetable oil through local business organizations (i.e. Ulster County Chambers, business alliance, Ulster County Green Business, etc.)
- Create list of local farms that may reuse oil in farm equipment or use as a feed for livestock

3.11 Refrigerants

Refrigerant is a compound typically found in either a fluid or gaseous state. It readily absorbs heat from the environment and can provide refrigeration or air conditioning when combined with other components such as compressors and evaporators. The R22 refrigerant is being phased out in favor of R410A refrigerant.

Most refrigerants are known for having a negative effect on the environment since they contribute to global warming and ozone layer depletion.

Four hundred metric tons of cooling water is used per ton of refrigerant produced. Substantial emissions reductions could be achieved through the adoption of practices to (1) avoid leaks from refrigerants and (2) destroy refrigerants at end of life, both after the adoption of alternatives to HFC refrigerants.

The most common refrigerants used are:

¹⁸ https://en.wikipedia.org/wiki/Vegetable_oil

-Chlorofluorocarbons (CFCs), including R12. This is known to contribute to the greenhouse gas effect. Production of new stocks ceased in 1994.

-Hydrochlorofluorocarbons (HCFCs), including R22. They are slightly less damaging to the ozone than R12, but the EPA has still mandated a phase out as a result of the Clean Air Act of 2010. R22 will phase out completely by 2020.

-Hydrofluorocarbons (HFCs), including R410A and R134. With no chlorine in the molecular structure, this is safer for the environment and is now being used in place of R22. Air conditioners that run on R410A are more efficient, offer better air quality, increase comfort and improve reliability.

Refrigerants are NO. 1 on the DRAWDOWN¹⁹ hierarchy for climate change and are regulated. The Drawdown mission is to “Drawdown”— the point in the future when levels of greenhouse gases in the atmosphere stop climbing and start to steadily decline, thereby stopping catastrophic climate change — as quickly, safely, and equitably as possible.

Refrigerants, specifically CFCs and HCFCs, were once causes of substantial depletion of the stratospheric ozone layer, which screens the earth from ultraviolet radiation. Thanks to the 1987 Montreal Protocol, they have been phased out. HFCs, the primary replacement, spare the ozone layer, but have 1,000 to 9,000 times greater capacity to warm the atmosphere than carbon dioxide.

Because 90 percent of refrigerant emissions happen at end of a product’s life, effective disposal of those currently in circulation is essential. After being carefully removed and stored, refrigerants can be purified for reuse or transformed into other chemicals that do not cause warming.²⁰

Generated in Ulster County 1,279 pounds annually.

ACTION PLAN

- Encourage purchase of propane, ammonia or HFC containing cooling units
- Support local and state legislation to enhance and/or enforce refrigerant handling and maintenance of refrigerant containing equipment
- Provide public outreach and education on proper disposal
- Pass local policies/requirements for proper recycling and handling of refrigerants and refrigerant containing items
- TABLE 4 Disposal Locations

¹⁹ <https://drawdown.org/>

²⁰ <https://drawdown.org/solutions/refrigerant-management>

5.12 Paint

Paint is any pigmented liquid, liquefiable, or solid mastic composition that, after application to a substrate in a thin layer, converts to a solid film. It is most commonly used to protect, color, or provide texture to objects. Paint can be made or purchased in many colors—and in many different types, such as watercolor or synthetic. Paint is typically stored, sold, and applied as a liquid, but most types dry into a solid. Most paints are either oil-based or water-based and each have distinct characteristics.

It is illegal in most municipalities to discard oil-based paint down household drains or sewers. Ulster County solid waste transfer stations are not permitted to take liquid waste with the exception of NYSDEC permits for bulk oil.

Americans purchase over 120 million gallons of paint every year. For Ulster County that is 3,780 **generate** more than 64 million **gallons** of leftover house-**paint** each **year**, enough to fill 100 Olympic-sized swimming pools. On site storage of unused paint in basements, sheds and garages poses a substantial risk of contamination in the case of flooding.

The New York State Legislature has approved legislation creating a "Post-consumer Paint Collection Program." This legislation directs NYSDEC to develop a plan for paint manufacturers and sellers to form and cover the costs of a statewide, not-for-profit Paint Stewardship Program. The plan would seek to minimize the involvement of local governments in the management of post-consumer paint by reducing its generation and establishing agreements to collect, transport, reuse, recycle, and/or burn for energy recovery at appropriately licensed collection sites and facilities using environmentally sound management practices. The measure further specifies that the plan include annual program audits and reports, education and outreach to consumers, and details on how post-consumer paint would be collected, treated, stored, transported, and disposed. A commencement date for this program has not yet been established. The current expectation is that this program, if possible, will be in place on, or before, January 1, 2021.

The first step to paint recycling is proper storage. A can of paint (once opened) should be kept tightly covered so the paint doesn't dry up. The lid can also be wrapped in plastic to provide an additional seal. Store it in a cool, dry place between uses.

Water-based paint is the most commonly accepted product at a household hazardous waste events nationwide, even though the EPA doesn't consider it to be hazardous waste. In Ulster County, water-based paint is not accepted at an HHW event and the consumer is advised to dry it out with a clay-based cat litter.

ACTION PLAN

- Encourage consumers to reuse all or make new water-based paint by mixing together to create new colors used for projects like graffiti removal.
- Encourage locally operated paint swaps for use by school drama clubs, community theaters and the public
- Consumer Education on purchasing and reuse



VILLAGE OF NEW PALTZ PAINT SWAP PROGRAM

DONATIONS: Please drop off your unwanted paint at the Paint Swap Station set-up on the second floor of Village Hall (directly up the stairs/just outside the large meeting room) any **SECOND SATURDAY 9-11 AM**. A volunteer **MUST BE PRESENT** for drop-off (but you can pick-up paint anytime). All latex, acrylic & water-based products are accepted; **NO OIL-BASED PRODUCTS**. Please see below for a complete list of acceptable materials.

A waiver must be signed when picking up **AND/OR** dropping off paints.

5.13 Electronics

The NYS Electronic Equipment Recycling and Reuse Act went into effect on April 1, 2011. The law is intended to ensure that every New Yorker will have the opportunity to recycle their electronic waste in an environmentally responsible manner. The law requires manufacturers to provide free and convenient recycling of electronic waste to most consumers in the state, including, resident, schools and governments and many businesses, non-profits.

Electronics waste became a nationally recognized environmental health issue in the 90's when the mishandling of obsolete electronic waste, much of which was exported by the United States, was made public. There was an international outcry to protect workers and children who were dismantling e-waste and discovered to have health issues. Seven out of every ten

children in Guiyu, China (the “e-waste capital of the world”) were found to be suffering from some sort of exposure related illness. E-waste contains lead, mercury, cadmium, polyvinyl chlorides, and chromium; many with known toxicological effects that range from brain damage to kidney disease to mutations causing cancers. Lead, even in low levels of exposure, can cause problems such as brain and kidney damage, as well as slowed cognitive development and reduced growth in children. An old computer monitor can contain up to seven pounds of lead. Mercury can greatly impact fetuses, infants, and children by impairing neurological development, including cognitive thinking, attention span, and motor skills. The short-term effects of cadmium exposure include lung irritation, but the chronic impacts include kidney disease and lung cancer. Polyvinyl chlorides cause short-term effects such as dizziness, drowsiness, and headaches, but over the long term can lead to liver damage and cancer. 9.4 million tons of e-waste is disposed nationally; 4,950 tons in Ulster County.

ACTION PLAN

- Encourage repair and maintenance of electronic equipment rather than replacement;
- Promote the conditions of the NYS Electronic Equipment Recycling and Reuse Act to all eligible entities;
- Educate entities not covered under the NYS Electronic Equipment Recycling and Reuse Act of their responsibilities for e-waste disposal
- Supplement retail drop-off locations with safe and responsible electronic recycling opportunities at transfer stations and other locations;
- Foster local downstream electronic businesses that repair and/or dismantle e-waste and keep material local rather than being shipped internationally;
- Compile and keep current lists of local electronics repair shops and e-waste drop-off locations;

5.14 (a) Household Hazardous Wastes (HHW)

Household hazardous wastes are waste materials that would be regulated as hazardous waste if they were generated outside of a household. Waste materials that are ignitable, toxic, corrosive, or reactive are commonly labelled as hazardous.

To manage HHW in the County, the Agency runs two (2) to four (4) HHW collection events every year. This provides an outlet for Ulster County residents to dispose of environmentally

unfriendly materials in a safe manner at no additional cost. The HHW events are not open to other counties, businesses, farms, non-profit organizations, schools, or other institutions.

Materials collected at these events include but are not limited to lawn and garden chemicals, pool chemicals, waste fuels, aerosols, pharmaceutical waste, and lead- and oil-based paints. Approximately 1,000 residents participate in the program each year. In 2018, the Agency collected over 110,000 lbs. of material during the HHW events.

Approximately 55 tons of HHW is collected annually.

ACTION PLAN

- Educate consumers on purchasing only what they need and not to over purchase
- Maintain education program on safer alternatives for cleaning, gardening, etc.
- Encourage swapping of unused material such as paint, stains, oils, etc.
- Consider legislative action on bans/limits to certain types of HHW

5.14 (b) Pharmaceuticals

A pharmaceutical is substance used in the diagnosis, treatment, or prevention of disease and for restoring, correcting, or modifying organic functions.²² Heavily regulated by the FDA, prior to 2008, the acceptable method of disposal to ensure discarded pharmaceuticals were not improperly used or sold, was to flush them down the toilet. In August 2008, the NYSDEC launched an initiative to help households reduce the growing presence of pharmaceuticals in water bodies. The "Don't Flush Your Drugs" campaign is designed to eliminate flushing of pharmaceuticals in household settings by raising public awareness about this issue and providing information about how to properly dispose of household pharmaceuticals.

As part of the HHW collection events, UCRRA added on pharmaceutical collection which required a chain of possession using Sheriff Deputies and delivery of all drugs collected to the Dutchess County Waste-to-Energy facility for incineration. By 2015, the Ulster County Sheriff offices provided four locations where medications can be dropped off available seven days per week, twenty-four hours per day by appointment or as long as a deputy was present. Ulster County now has twenty-three locations to drop of medication:

TABLE 1

²² <https://www.britannica.com/technology/pharmaceutical>

| Name | Location | Contact | Type of Medication |
|---|---|-----------------------------|--|
| | | | YES: prescriptions and over the counter medications, vitamins, pet medications, ointments and lotions, and liquid medicines in plastic bottles |
| | | | NO: needles, thermometers, blood, infectious or hazardous waste, inhalers, hydrogen peroxide or any medication in glass containers |
| Saugerties Police Department | 4 High Street Saugerties, NY 12477 | 845.246.9909 | |
| Ellenville Police Department | 2 Elting Court Ellenville, NY 12428 | 845.647.4422 | |
| Rosendale Police Department | 520 Lefever Falls Road Rosendale, NY 12472 | 845.658.9000 | |
| SUNY New Paltz | 1 Hawk Drive, Service Building #100 New Paltz, NY 12561 | 845.257.2222 | |
| New Paltz Police Department | 83 South Putt Corners Road New Paltz, NY 12561 | 845.255.1323 | |
| Kingston Police Department | 1 Garraghan Drive Kingston, NY 12401 | 845.331.1671 | |
| Woodstock Police Department | 76 Tinker Street Woodstock, NY 12498 | 845.679.2422 | |
| Town of Lloyd Police Department | 25 Milton Ave. Highland, NY 12528 | 845.691.6102 | |
| Town of Ulster Police Department | 1 Town Hall Drive Lake Katrine, NY 12449 | | |
| Marlborough Police Department | 21 Milton Turnpike Milton, NY 12547 | 845.795.2181 | |
| Plattekill Police Department | 1124 Milton Turnpike Clintondale, New York 12515 | 845.883.6373 | |
| Olive Police Department | 50 Bostock Road Shokan, NY 12481 | 845.657.2849 | |
| Shandaken Police Department | 58 Route 214 Phoenicia, NY 12464 | 845.688.9748 | |
| Ulster County Law Enforcement Center | 380 Boulevard Kingston, NY 12401 | 845.338.3640 | |
| Wawarsing Sub-Station | 155 Airport Road Napanoch, NY 12458 | 845.647.2677 or 895.3011 | |
| Esopus Sub-Station | 384 Broadway Port Ewen, NY 12466 | 845.338.3640 | |
| SUNY Ulster Sub-Station | 491 Cottekill Road Stone Ridge, NY 12484 | 845.338.6131 | |
| Shandaken Sub-Station | Route 28 Allaben, NY 12480 | 845.688.2233 | |
| Wallkill Sub-Station | Route 208, Ellenville | (845) 895-3011 | |
| NYS Troopers | Route 299, Highland, 12528 | (845) 691-2922 | |

| | | |
|--------------|--------------------------------|----------------|
| NYS Troopers | Route 209, Accord, NY 12404 | (845) 626-2800 |
| NYS Troopers | Route 209, Hurley, NY 12443 | (845) 338-1702 |

Furthermore, Pursuant to Chapter 120 Laws of 2018, the New York State Drug Take Back Act (DTB) mandates that manufacturers establish, fund, and manage a New York State approved drug take back program(s) for the safe collection and disposal of unused covered drugs. Pharmacies of ten or more establishments within NYS and non-resident pharmacies that provide covered drugs to NYS residents by mail must implement such programs by providing consumers with a pre- approved method(s) of collection and disposal, free of charge to the consumer and pharmacy.²³

ACTION PLAN

- Aggressive public campaign on proper disposal and locations of medical drop off boxes
- Enforce NYS law Chapter 120 of 2018 to ensure pharmacies are in compliance
- Coordinate with local substance abuse programs and professionals to educate the public on proper use and disposal of pharmaceuticals and SHARPS

3.15 Universal Waste

The Universal Waste Rule (UWR), [6 NYCRR Part 374-3](#), is an alternate way of managing certain common types of hazardous wastes (otherwise they would be subject to all applicable requirements of Parts 370 through 374 and 376). Handlers may choose to manage eligible wastes under the UWR, or under ordinary hazardous waste regulations. In New York State, hazardous wastes of the following types may be managed as Universal Waste (UW):

1. **Batteries** such as lead/acid, lead, nickel-cadmium, silver, lithium or mercury (Information on the [Rechargeable Battery Recycling Act](#)).
2. **Certain pesticides** that would otherwise be a hazardous waste.

²³

https://health.ny.gov/professionals/narcotic/drug_take_back.htm#:~:text=Pursuant%20to%20Chapter%20120%20Laws,disposal%20of%20unused%20covered%20drugs.

3. **Thermostats and other mercury-containing equipment (MCE)** ([Additional information on thermostat management](#)). MCE is included as Universal Waste by [Commissioner's Policy 39](#), approved in 2006.

4. **Lamps** ([Additional information on hazardous waste lamp management](#)).

Small Quantity Handlers of Universal Waste (less than 5,000 kg or 11,000 lbs. of total universal wastes, including hazardous batteries, certain hazardous pesticides, hazardous thermostats, or hazardous lamps, calculated collectively, on site at any time): Requirements include packaging in a way to minimize breakage; immediately cleaning up any leaks or spills; and properly labeling containers.

Large Quantity Handlers of Universal Waste (5,000 kg or 11,000 lbs. or more of total universal wastes on site at any time): Requirements include EPA notification; packaging in a way to minimize breakage; immediately cleaning up any leaks or spills; properly labeling containers; and complying with record keeping and reporting requirements.

Universal Waste Transporters: Requirements include meeting applicable DOT standards; complying with record keeping and reporting requirements; and complying with applicable requirements of 6 NYCRR Part 364 if transporting more than 500 lbs. of total universal waste in any shipment. Common carriers can transport up to 500 lbs. of universal waste in any shipment.

Destination Facilities: Comply with all applicable requirements of 6 NYCRR Parts 370 through 374-3 and 376, including notification of hazardous waste activity and obtaining a Part 373 (hazardous waste) permit, if applicable.²⁴

Batteries

The [NYS Rechargeable Battery Recycling Act \(PDF\)](#) (Article 27, Title 18 of the Environmental Conservation Law) was signed into law on December 10, 2010. The law requires manufacturers of covered rechargeable batteries to collect and recycle the batteries statewide in a manufacturer-funded program at no cost to consumers. Most rechargeable batteries contain toxic metals that can be released into the environment when improperly disposed. Consumers across the state will now be able to safely return to retail stores rechargeable batteries, from a

²⁴ <https://www.dec.ny.gov/chemical/8787.html>

large number of electronic products, for recycling or proper management at the end of their useful life.

Which types of rechargeable batteries are covered by the law?

- Nickel-cadmium
- Sealed lead
- Lithium ion
- Nickel metal hydride
- Any other such dry cell battery capable of being recharged
- Battery packs containing any of the above-mentioned batteries²⁵

“Other Pesticides”

[40 CFR § 273.9](#) defines a pesticide as any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest, or intended for use as a plant regulator, defoliant, or desiccant, with the exception of any that is (a) a new animal drug under FFDCA section 201(w), or (b) an animal drug that has been determined by regulation of the Secretary of Health and Human Services not to be a new animal drug, or (c) an animal feed under FFDCA section 201(x) that bears or contains any substances described by either (a) or (b).

The universal waste regulations can be used to manage pesticides that have been recalled if they are either stocks of a suspended and canceled pesticide that are part of a voluntary or mandatory recall under FIFRA Section 19(b) (including, but not limited to those owned by the registrant responsible for conducting the recall). Universal waste can also be used to manage stocks of other unused pesticide products that are collected and managed as part of a waste pesticide collection program.

- A recalled pesticide becomes a waste on the first date upon which both of the following conditions apply: (i) the generator of the recalled pesticide agrees to participate in the recall; and (ii) the person conducting the recall decides to discard the recalled materials (e.g., burn the pesticide for energy recovery).
- Note that the universal waste requirements apply only in the situation of a recall, suspension, or cancellation described above or when collected as part of a waste pesticide collection program. Hazardous waste pesticides that do not fit into these categories must be managed under the requirements in parts 260 through 272 or in compliance with 40 CFR 262.70 (link), which addresses pesticides disposed on a farmer’s own farm in a manner consistent with the disposal instructions on the label when the container is triple rinsed.

²⁵ <https://www.dec.ny.gov/chemical/72065.html>

- The universal waste requirements do not apply to pesticides that are not wastes or are not hazardous wastes²⁶

Thermometers/Thermostats

On December 18, 2013 the [Mercury Thermostat Collection Act of 2013 \(PDF\)](#) was signed into law. This legislation adds a new Title 29 to Environmental Conservation Law (ECL) Article 27, "Mercury Thermostat Collection Act" and provides for the mandatory collection and environmentally sound management of mercury thermostats. **It is illegal to throw mercury thermostats in the trash, as New York State has had a disposal ban in place since 2005.**

The Act requires thermostat manufacturers, individually or collectively with other manufacturers, to establish and maintain a program for the collection, transportation, recycling, and proper management of out-of-service mercury thermostats at no cost to the consumer or other persons participating in the program. Manufacturers were required to:

CFL and Fluorescent Bulbs

Many waste fluorescent lamps are hazardous wastes due to their mercury content. Other examples of lamps that, when spent, are commonly classified as hazardous waste include: high-intensity discharge (HID), neon, mercury vapor, high pressure sodium, and metal halide lamps. Low-mercury or green end cap lamps that pass the TCLP are not as regulated hazardous wastes but still contain mercury and are subject to the Mercury-Added Consumer Products Law, described above.

Generators of hazardous waste lamps may choose between handling their lamps under the traditional regulatory scheme or as universal wastes. To facilitate compliance with New York State's Mercury Added Consumer Products Law, low mercury lamps may also be handled under the universal waste rule. However, once lamps are declared to be universal wastes, they must continue to be handled as universal wastes. A handler of hazardous waste lamps who fails to comply with the New York state universal waste rule may be considered to be in violation of hazardous waste laws and regulations. Under New York state's Universal Waste Rule, 6 NYCRR Part 364 Waste Transporter requirements are still applicable, requiring a waste transporter permit for transporters carrying more than 500 pounds of universal wastes.

Universal Waste Rule - To streamline environmental regulations for wastes generated by numerous sources in relatively small quantities, USEPA issued the Universal Waste Rule in 1995. This rule is designed to reduce the amount of hazardous waste in the municipal solid waste stream, to encourage the recycling and proper disposal of some common hazardous wastes and

²⁶ <https://www.epa.gov/hw/universal-waste#:~:text=The%20universal%20waste%20regulations%20can,registrant%20responsible%20for%20conducting%20the>

to reduce the regulatory burden on generators. For hazardous waste lamps, this rule has been available for use in New York state since January 6, 2000.

Fluorescent lighting contains mercury, so it should NOT be disposed with the household trash. Residentially-generated tube and compact fluorescent bulbs (CFLs) are accepted at UCRRA household hazardous waste events and facilities registered or permitted to accept universal waste. (See TABLE 3)

Generated 67 tons of universal waste annually (2.48 pounds of mercury)

ACTION PLAN

- Educate consumers on non-hazardous alternatives to universal waste including safer alternatives for pest control and non-mercury containing bulbs
- Create list with companies and locations of local facilities registered to accept universal waste (i.e. CFLs and fluorescent bulbs
- Create an incentivization program with local businesses to offer collection/recycling/rebates for proper handling of universal waste including drop off boxes
-

Table 4

| NAME | LOCATION | TOWN | MATERIAL |
|-------------------|----------|---|--|
| American Lamp | Route 9W | Milton | E-waste, lamps, batteries |
| Call2Recycle | website | https://www.call2recycle.org/ | Batteries, cell phones |
| Waste Management | Website | https://www.wm.com/healthcare/what-we-do/universal-waste.jsp | lamps, battery, mercury devices |
| NLR Recycling | website | http://www.nlr-green.com/what-we-recycle/ | Lamps, mercury devices, batteries, E-waste |
| Republic Services | website | https://www.republicservices.com/shop/categories | Lamps, batteries, E-waste |
| Safety Kleen | Website | https://www.safety-kleen.com/services | All universal waste |

3.16 Extended Producer Responsibility (EPR)

Product Stewardship is an environmental management strategy that means whoever designs, produces, sells, or uses a product takes responsibility for minimizing the product's environmental impact throughout all stages of the products' life cycle, including end of life management.

The principals of EPR require producers to design, manage, and finance programs for end-of-life management of their products and packaging as a condition of sale to combat planned obsolescence. These programs may or may not use existing collection and processing infrastructure. Programs should cover all products in a given category, including those from companies no longer in business and from companies that cannot be identified.

ACTION PLAN

- Mandate a manufacturer take back collection programs for materials that are hazardous, strictly regulated or not accepted as recyclable i.e. household hazardous and universal waste, automotive items (oil, antifreeze, tires, batteries) and packaging
- Encourage local manufacturers to donate residual or overstock material to local businesses who can reuse or resell it

3.17 Ulster County Green Business Challenge

The Ulster County Green Business Challenge is designed to encourage businesses, organizations and municipalities to reduce greenhouse gas emissions, mitigate climate change and reap considerable savings. This program also supports local green building contractors, renewable energy providers and other businesses that implement sustainability practices.

The “Kick Off” challenge was held on June 27, 2018 with a goal of 100 Ulster County businesses, organizations, or municipalities completing an energy retrofit, install solar or other renewable energy, or implement another action that would both save money and significantly reduce carbon emissions. Currently the program includes the following benefits:

FINANCING. All projects are eligible for financing from a variety of sources. Ulster County is a member of the Energy Improvement Corporation (EIC), which offers low cost, long-term, easily accessible Energize NY Property Assessed Clean Energy (PACE) financing to fund clean energy projects in commercially owned buildings. Local banks and credit unions also offer financing for energy improvements and other climate solutions, as do the Ulster County Revolving Loan and the New York State Energy Research & Development Authority (NYSERDA).

ACKNOWLEDGEMENT. Participating businesses, organizations and municipalities will be acknowledged for becoming a Green Business Leader with a Certificate of Appreciation and/or a Pride of Ulster County Award, listed on the County's GBC website -- and more -- for their contribution to this important, if ambitious, challenge!

Action Plan

1) Energy Audit: Undertaking an energy audit will help GBC participants to prioritize the most effective actions, however the audit must be followed by one or more of the following actions:

2) Energy Retrofit: Undertake an energy retrofit, which can include: Air-sealing and insulation; Installing ground-source (geothermal) or air-source heat pump for heating and cooling; switching to LED lighting: interior, exterior or municipal street lighting

3) Install a solar array or other renewable energy system to generate your own power: Wind or small, low impact hydroelectric would also qualify.

4) Purchase 100% renewable energy from a LOCAL source of renewable energy, such as a Community Solar Project or hydroelectric facility.

5) Purchase an electric vehicle or install one or more electric vehicle charging stations. Switching to EV fleets is a great way to improve transportation, especially if combined with renewable energy generation

6) Restaurants and other food waste generators implement food waste reuse with Food Bank of the Hudson Valley and/or food/recovery/composting via local haulers who will take it to the UCRRA or other composting facilities.

7) Significantly reducing single use plastic and host of other actions that reduce energy use and greenhouse gas emissions, or otherwise addresses climate change.

Additional Actions8) Prioritize businesses that use reused feedstocks for their products and/or inject reuse into consumer habits.

9) Ulster County, through Economic Development and the IDA, incentivize and/or prioritize business parks that embrace reduction and reuse as part of their mission.

10) Engage and coordinate implementation of the zero waste plan with commercial waste haulers including but not limited to training certification, pledges, and education for the public

11) Engage and coordinate implementation of the zero waste plan with local schools including but not limited to training certification, pledges, access to low cost/free materials and education for the students/teachers

12) Foster a network of second hand/thrift stores reuse infrastructure that accept used materials diverted from the waste stream similar to the ReStore and New Paltz ReUse Center for resale or as a resource center for free material to eligible organizations i.e. schools, shelters, etc.

3.18 Repair

Repairing or repurposing items is higher on the NYSDEC Beyond Waste hierarchy than recycling. In Repair Cafes, older more reliable (and fixable) items can be repaired by skilled volunteers while owners watch and learn.

Still usable items that are in disrepair may be diverted from the waste stream by training craftworkers through existing programs such as BOCES or trade organizations and/or creating a means to teach people how to do simple repairs such as sewing or changing the switch on a lamp. Or, simply by encouraging people to access information through social media/channels for easy DIY instructions. It is also conceivable that new “green” jobs can be created by fostering dismantling companies who can salvage materials from discarded items in lieu of purchasing new raw material to market to manufacturers or by manufacturers themselves. (See 3.16)

The first Repair Café was started in 2009 in Amsterdam by [Martine Postma](#). While Europe has the most Repair Cafes, more and more are being created in the U.S. and worldwide. Repair Cafés are free meeting places and they’re all about repairing things (together). In the place where a Repair Café is located, you’ll find tools and materials to make needed repairs , on clothes, furniture, electrical appliances, bicycles, crockery, appliances, toys, etc. You’ll also find expert volunteers, with repair skills in all kinds of fields.

Visitors bring their broken items from home. Together with the specialists they start making their repairs in the Repair Café. It’s a socially beneficial process, where visitors can lend a hand with someone else’s repair job, or get inspired at the reading table – by leafing through books on repairs and DIY.

Repairing items can divert 9,900 tons annually from the MSW stream.

ACTION PLAN

- Advocate for consumers purchasing quality products with a longer life expectancy and access to replacement parts for repairs

- Expand Repair Café network to repair broken items while teaching people how to do their own repairs
- Encourage entrepreneurs to hold repair workshops such as computers, lawn equipment, etc
- Foster training programs with trade unions and other professionals to train consumers on how to repair and/or open business opportunities

B. Construction and Demolition Debris

C&D material is defined by NYSDEC as uncontaminated solid waste resulting from the construction, remodeling, repair and demolition of utilities, structures and roads; and uncontaminated solid waste resulting from land clearing. Such waste includes, but is not limited to bricks, concrete and other masonry materials, soil, rock, wood (including painted, treated and coated wood and wood products), land clearing debris, wall coverings, plaster, drywall, plumbing fixtures, non-asbestos insulation, roofing shingles and other roof coverings, asphaltic pavement, glass, plastics that are not sealed in a manner that conceals other wastes, empty buckets ten gallons or less in size and having no more than one inch of residue remaining on the bottom, electrical wiring and components containing no hazardous liquids, and pipe and metals that are incidental to any of the above. C&D materials often contain bulky, heavy materials such as the following:

- Concrete/Asphalt/Rock/Brick (CARB) – CARB comprises approximately 35 percent of the C&D material stream.
- Soil/Gravel - soil and gravel make up approximately 27 percent of the C&D material stream.
- Wood – wood makes up approximately 15 percent of the C&D material stream.
- Other Materials – the remaining components consist of roofing, drywall, metal, plastic, corrugated/paper and “other.” In New York State, solid waste that is not considered to be C&D debris (even if it is associated with construction, remodeling, repair and demolition of utilities, structures and roads and land clearing) includes, but is not limited to: asbestos waste, garbage, corrugated container board, electrical fixtures containing hazardous liquids such as fluorescent light ballasts or transformers, fluorescent lights, carpeting, furniture, appliances, tires, drums, containers greater than ten gallons in size, any containers having more than one inch of residue remaining on the bottom, and fuel tanks. Additionally, solid waste that would otherwise be considered C&D debris that has been processed to make individual waste components unrecognizable, other than at a NYSDEC approved C&D processing facility, are no longer

classified as C&D debris. Biosolids consists primarily of septage, manure, and other agricultural waste.

MSW generated within Ulster County must be delivered to a facility designated by the Agency as a result of flow control that was implemented in 2012. (**Flow control is a** legal provision that allows the UCRRA exclusive authority to dispose of the MSW stream. Even though UCRRA transfer stations have the ability to process C&D waste, this material, as well as recyclables, are not covered under the 2012 law.

Since flow control is not implemented for C&D, private haulers can also bring C&D waste to be processed at other facilities:

Construction and Demolition Processing Facilities:

| Name | Location | Material |
|------------------|-----------------|----------|
| LaMela's | Marlborough | C&D |
| Taylor Recycling | Orange County | C&D |
| Recycling Depot | Dutchess County | C&D |

As defined above, C&D materials often contain bulky, heavy materials that include:

- Concrete and bricks,
- Wood from buildings,
- Asphalt from roads,
- Roofing shingles and other roof coverings,
- Plaster and gypsum wall covering material,
- Metals,
- Glass,
- Plastics,
- Salvaged building components such as doors, windows, and plumbing fixtures,
- Earth and rock from clearing sites.

Reducing and/or recycling C&D materials conserves landfill space and reduces the environmental impacts associated with producing the materials. It can also reduce building project expenses with the reduction of purchase and disposal costs. Based on numbers

provided for 2018, the following table provides a summary of the combined materials collected (in tons) at the Ulster and New Paltz transfer stations.

Action Plan

- Create a C&D recovery program similar to Taylor Recycling and/or Rockland County's program to recovery drywall, lumber, nails and other metals and rubble (concrete/asphalt) with a goal of reducing it by 80- 90%
- Require metal rebar, nails, beams etc. is removed for scrap recycling

C. Biosolids

Biosolids are the accumulated semi-solids or solids resulting from treatment of wastewater in sewage treatment plants. Biosolids do not include grit or screenings, or ash generated from the incineration of biosolids. **Biosolids** are a beneficial resource, containing essential plant nutrients and organic matter and are recycled as a fertilizer and soil amendment. In the past, it was common for farmers to use animal manure to improve their soil fertility. In the 1920s, the farming community moved from animal manure to using local wastewater treatment plants. Currently in Ulster County, biosolids are collected at the Ulster County Resource Recovery Agency transfer station in New Paltz only and sent for disposal at the Chemung County Landfill in Elmira, New York.

The Clean Water Act (CWA) of 1972 (the Law or Statute), as amended, has been the primary Federal Law in the U.S. governing water pollution and has been central to our country's endeavors to treat sewage.

Section 405 sets the framework for sewage sludge (biosolids) regulations and in 1993 brought the management of residuals from the wastewater treatment processes under the National Pollutant Discharge Elimination System permit program.

40 CFR Part 503, *Standards for the Use or Disposal of Sewage Sludge*, establishes standards, which consist of general requirements, pollutant limits, management practices, and operational standards, for the final use or disposal of sewage sludge generated during the treatment of domestic sewage in a treatment works. Standards are included for sewage sludge applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator. Also included are pathogen and alternative vector attraction reduction requirements for sewage sludge applied to the land or placed on a surface disposal site.

ACTION PLAN

- Create a NYSDEC pPermitted or participate in a regional facility to compost biosolids to create a usable, salable product
- Permit and/or participate in a countywide or regional facility to compost biosolids to create a usable, salable product (i.e. City of Kingston pelletizer)
- Pass legislation and educate area farms about allowing spreading of manures/treated sludges for agricultural use

Attachments

Ulster County Flow Control Law

Ulster County Food Scrap Law

Ulster County Source Separation and Recycling Law

Ulster County Zero Waste Policy

Ulster County Climate Smart Pledge

Ulster County Paint Stewardship (redundant? In SWMP)

Zero Waste Pilot Initiative

Ulster County Green Business Challenge

<https://ulstercountyny.gov/sites/default/files/documents/environment/Building%20Ulster%20County%20Together%20GBC%20Launch%20flyer.6.11.18.pdf>

Attachments

ZERO WASTE PILOT INITIATIVE

Interested municipalities should be encouraged to submit a Letter of Interest to participate in a zero waste pilot program that will include a waste audit, education, active involvement of a zero waste program coordinator and detailed beneficial cost analysis.

- Waste Audit would involve a review of quantities of waste generated, snap shot of waste characteristics, how waste is being collected and expenses/cost of waste handling to establish a program baseline.
- Upon completion of the Waste Audit a selection of participants equaling (1%) of population will be solicited to voluntarily participate in a zero waste pilot. The representation of participants shall include but not be limited to government, industrial, residential and businesses. Volunteers will be trained, monitored and educated on proper way to reduce waste with a minimum goal of 50% from the starting baseline number.
- After a six month period (more or less time is possible if enough data has been collected and benchmarks reached) a review of the zero waste pilot success will be completed determine what bench marks were hit and any changes/hurdles that need to be addressed before a broad/expanded program roll out based on the effectiveness of the pilot is opened to the entire municipality.
- Modifications to the zero waste pilot will be made and will be available for other towns to tailor to their needs.

PROPOSED

STATE OF NEW YORK

7718

IN SENATE

February 11, 2020

Introduced by Sen. KAMINSKY -- read twice and ordered printed, and
when
printed to be committed to the Committee on Environmental
Conservation

AN ACT to amend the environmental conservation law, in relation
to
establishing the extended producer responsibility act

The People of the State of New York, represented in Senate and
Assem-
bly, do enact as follows:

1 Section 1. Legislative intent. The legislature finds the weight
of
2 waste generated in New York is a threat to the environment. The
legisla-
3 ture further finds and declares that it is in the public interest of
the
4 state of New York for covered material and product producers to
under-
5 take the responsibility for the development and implementation of
strat-
6 egies to promote recycling, reuse and recovery of covered material
and
7 products through investments in the end-of-product-life management
of
8 products.

9 § 2. Article 27 of the environmental conservation law is amended
by
10 adding a new title 30 to read as follows:

11 TITLE 30
12 EXTENDED PRODUCER RESPONSIBILITY ACT
13 Section 27-3001. Definitions.
14 27-3003. Producer responsibilities.
15 27-3005. Funding mechanism.
16 27-3007. Producer responsibility plan.
17 27-3009. Producer responsibility plan approval.
18 27-3011. Collection and convenience.
19 27-3013. Outreach and education.
20 27-3015. Reporting requirements and audits.
21 27-3017. Antitrust protections.
22 27-3019. Penalties.
23 27-3021. State preemption.
24 27-3023. Authority to promulgate rules and regulations.
25 27-3025. Severability.
26 § 27-3001. Definitions.

EXPLANATION--Matter in italics (underscored) is new; matter in
brackets

[-] is old law to be omitted.

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2

1 1. "Activity-based costs" shall mean a method of distributing the
 cost
 2 of a process among its component streams according to the share of
 the
 3 total cost assumed as a result of the processing of that stream.
 4 2. "Covered materials and products" shall mean any part of a
 package
 5 or container, regardless of recyclability or compostability,
 that
 6 includes material that is used for the containment, protection,
 handl-
 7 ing, delivery, and presentation of goods that are sold, offered
 for
 8 sale, or distributed to consumers in the state, including through
 an
 9 internet transaction. Covered materials and products include, but
 are
 10 not limited to, the following classes of materials:
 11 (a) Containers and packaging: this class includes all flexible
 or
 12 rigid material, including but not limited to paper, carton,
 plastic,
 13 glass, or metal, and any combination of such materials that:
 14 (i) is used to contain, protect, wrap or present products at any
 stage
 15 in the movement of the product from the responsible party to the
 uliti-
 16 mate user or consumer, including tertiary packaging used for
 transporta-
 17 tion or distribution directly to a consumer;
 18 (ii) is intended for a single or short-term use and designed
 to
 19 contain, protect or wrap products, including secondary
 packaging
 20 intended for the consumer market; or
 21 (iii) does not include packaging used for the long-term protection
 or
 22 storage of a product or with a life of not less than five years.
 23 (b) Paper products: this class includes:
 24 (i) paper and other cellulosic fibers, whether or not they are used
 as
 25 a medium for text or images, except books and materials in the
 newspa-
 26 pers class of materials;
 27 (ii) containers or packaging used to deliver printed matter
 directly
 28 to the ultimate consumer or recipient;
 29 (iii) paper of any description, including but not limited to:
 30 (1) flyers;
 31 (2) brochures;
 32 (3) booklets;
 33 (4) catalogs;
 34 (5) telephone directories;
 35 (6) newspapers;
 36 (7) magazines;
 37 (8) paper fiber; and

38 (9) paper used for writing or any other purpose.
 39 (c) Plastics: this class includes any plastic as determined by
the
 40 department including, but not limited to:
 41 (i) rigid plastics:
 42 (1) polyethylene terephthalate (PET);
 43 (2) polyethylene (PE);
 44 (3) polyvinyl chloride (PVC);
 45 (4) polypropylene (PP);
 46 (5) polystyrene (PS);
 47 (6) poly coated fiber;
 48 (7) multi-layered plastics;
 49 (8) other (BPA, Compostable Plastics, Polycarbonate and LEXAN);
 50 (ii) flexible plastics:
 51 (1) polyethylene (PE);
 52 (2) polyvinyl chloride (PVC);
 53 (3) polypropylene (PP);
 54 (4) poly coated fiber;
 55 (5) multi-layered plastics;
 56 (6) other (BPA, Compostable Plastics, Polycarbonate and LEXAN).
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1 (d) For the purpose of this title, the products covered
designation
 2 does not include the following:
 3 (i) paper products that could become unsafe or unsanitary to
recycle
 4 by virtue of their anticipated use;
 5 (ii) literary, text, and reference bound books; and
 6 (iii) beverage containers as defined in section 27-1003 of this
arti-
 7 cle.
 8 3. "Curbside recycling" means a recycling program that serves
single
 9 and multi-family residential units, schools, state or local agencies,
or
 10 institutions that is operated by a municipality pursuant to a
contract
 11 with the municipality, private entity, or other public agency or
through
 12 approved local solid waste management plans.
 13 4. "Post-consumer recycled content" means the content of a
product
 14 made of recycled materials derived from post-consumer recycled
materials
 15 or feedstock.
 16 5. "Producer" means: (a) the person who manufactures the covered
mate-
 17 rial or product under such person's own name or brand and who sells
or
 18 offers for sale the covered material or product in the state; or
 19 (b) the person who imports the covered material or product as
the
 20 owner or licensee of a trademark or brand under which the covered
mate-
 21 rial or product is sold or distributed in the state; or

22 (c) the person or company that offers for sale, sells, or
23 distributes
24 the covered material or product in the state.
25 A producer shall not include a municipality or a local
26 government
27 planning unit.
28 6. "Producer responsibility organization" means a not-for-
29 profit
30 organization designated by a group of producers to act as an agent
31 on
32 behalf of each producer to develop and implement a producer
33 responsibil-
34 ity plan.
35 7. "Readily-recyclable" means packaging that can be sorted by
36 entities
37 processing recyclables from New York and for which, during the
38 previous
39 two calendar years, there was a consistent market, meaning
40 recyclers
41 were willing to pay for fully sorted material at the door of
42 their
43 facilities in quantities equal to or in excess of material supply.
44 This
45 does not include material types that recyclers accept in low
46 quantities
47 or sort out of material during additional processing steps; if
48 material
49 recyclers do not desire a full bale of a specific material type,
50 that
51 material type is not readily recyclable.
52 8. "Recycling" means to separate, dismantle or process the
53 materials,
54 components or commodities contained in covered products for the
55 purpose
56 of preparing the materials, components or commodities for use or
57 reuse
58 in new products or components. "Recycling" does not include
59 energy
60 recovery or energy generation by means of combustion, or
61 landfill
62 disposal of discarded covered products or discarded product
63 component
64 materials.
65 9. "Recycling rate" means the percentage of discarded covered
66 products
67 that is managed through recycling or reuse, as defined by this
68 title,
69 and is computed by dividing the amount of discarded covered
70 products
71 collected and recycled or reused by the total amount of
72 discarded
73 covered products collected over a program year.
74 10. "Reuse" means donating or selling a discarded covered product
75 back
76 into the market for its original intended use, when the
77 discarded

53 covered product retains its original performance characteristics and
can
54 be used for its original purpose.
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1 11. "Retailer" means a person who sells or offers for sale a
product
2 to a consumer, including sales made through an internet transaction
to
3 be delivered to a consumer in the state.
4 § 27-3003. Producer responsibilities.

5 1. Within three years after the effective date of this title,
no
6 producer shall sell, offer for sale, or distribute covered materials
or
7 products for use in New York unless the producer, or a producer
respon-
8 sibility organization acting as their designated agent, has a
producer
9 responsibility plan approved by the department. Producers may
satisfy
10 participation obligations individually or jointly with other
producers
11 or through a producer responsibility organization.

12 2. Within one year after the department approves a producer
responsi-
13 bility plan, producers shall be required to meet the minimum post-
con-
14 sumer recycled material content rate and minimum recycling rate
for a
15 covered material or product as approved by the department in the
produc-
16 er responsibility plan.

17 3. A producer shall be exempt from the requirements of this title
if
18 the producer:
19 (a) Generates less than one million dollars in annual revenues;
20 (b) Generates less than one ton of covered materials or
products

21 supplied to New York state residents per year; or
22 (c) Operates as a single point of retail sale and is not supplied
or
23 operated as part of a franchise.

24 4. Retailers that are not producers are exempt from the
requirements
25 of this title.

26 5. Producers may comply individually or may form a producer
responsi-
27 bility organization and discharge their responsibilities to such
organ-
28 ization.

29 § 27-3005. Funding mechanism.

30 1. A producer responsibility organization shall establish
program
31 participation charges for producers through the producer
responsibility

32 plan pursuant to section 27-3007 of this title which shall be
33 sufficient
34 to cover all program costs.
35 2. A producer responsibility organization shall structure
36 program
37 charges to provide producers with financial incentives, to reward
38 waste
39 reduction and recycling compatibility innovations and practices, and
40 to
41 discourage designs or practices that increase costs of managing
42 the
43 products. The producer responsibility organization may adjust charges
44 to
45 be paid by participating producers based on factors that affect
46 system
47 costs. At a minimum, charges shall be variable based on:
48 (a) Costs to provide curbside collection or other level of
49 consumer
50 service that is, at minimum, as convenient as curbside collection or
51 as
52 convenient as the previous waste collection schema in the
53 particular
54 jurisdiction;
55 (b) Costs to process a producer's covered materials or products
56 for
57 sale to secondary material markets;
58 (c) Whether the covered material or product would typically be
59 recycl-
60 able except that as a consequence of the product's design, the
61 product
62 has the effect of disrupting recycling processes or the product
63 includes
64 labels, inks, and adhesives containing heavy metals or other
65 hazardous
66 waste as defined by the department in regulations that would
67 contaminate
68 the recycling process;
69 (d) Whether the covered materials or product are nonfood
70 contact
71 containers and other nonfood contact packaging that is
72 specifically
73 designed to be reusable or refillable and has high reuse or refill
74 rate.

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1 3. The charges shall be adjusted based upon the percentage of
2 post-
3 consumer recycled material content and such percentage of post-
4 consumer
5 recycled content shall be verified either by the producer
6 responsibility
7 organization or by an independent party designated by the department
8 to
9 ensure that such percentage exceeds the minimum requirements in
10 the
11 covered material, as long as the recycled content does not disrupt
12 the

7 potential for future recycling.
8 4. A producer responsibility organization shall be responsible
for
9 calculating and dispersing activity-based costs for municipal
services
10 utilized by a producer responsibility organization if the
municipality
11 elects to be compensated by the producer responsibility organization
in
12 the recovery, recycling, and processing of covered materials,
whether
13 such services are provided directly by the municipality or through
a
14 contracted service provider. The activity-based cost mechanism shall
be
15 based on the cost of residential curbside collection, on-site
processing
16 cost for each readily-recyclable material, cost of non-readily
recyclable
17 material types, transportation cost of recycling for each
material
18 type, and any other cost factors as determined by the department.
To
19 facilitate the producer responsibility organization's determination
of
20 the cost of recycling, participating municipalities shall report
data
21 related to their costs and the value of materials to the
producer
22 responsibility organization. Cost calculations shall take into
consideration
23 revenue generated from recyclable materials.
24 5. The department shall make such rules and regulations which may
be
25 necessary for a producer responsibility organization to develop
and
26 manage a funding mechanism and activity-based costs.
27 § 27-3007. Producer responsibility plan.
28 1. Producers, or a producer responsibility organization acting
as
29 their designated agent, shall develop and submit a producer
responsibility
30 plan to the department no later than one year after the
effective
31 date of this title. Such plan shall be for five years and shall
be
32 reviewed and updated every five years following the approval of
the
33 original plan. The department shall have the discretion to require
the
34 plan to be reviewed or revised prior to the five year period if
the
35 department has cause to believe the minimum post-consumer recycled
material
36 content rates, minimum recycling rates, or other factors of
the

37 plan are not being met or followed by the producer, or producer
respon-
38 sibility organization, or if there has been a change in
circumstances
39 that warrants revision of the plan. The submitted plan shall
include,
40 but not be limited to:
41 (a) contact information of the producer responsibility
organization
42 and the producer or producers covered under the plan;
43 (b) a description of how comments of stakeholders were considered
in
44 the development of the plan;
45 (c) the covered materials for which the producer or producer
responsi-
46 bility organization is responsible for;
47 (d) a funding mechanism that allocates the costs to the producers
to
48 meet the requirements of this title and is sufficient to cover the
cost
49 of registering, operating and updating the plan, and
maintaining a
50 financial reserve sufficient to operate the program in a
fiscally
51 prudent and responsible manner;
52 (e) a description of the process for municipalities to recoup
reason-
53 able costs from the producer responsibility organization for the
activi-
54 ty-based costs, including, as applicable, any administrative,
sorting,
55 collection, transportation, or processing costs, if the producer
respon-
56 sibility organization uses existing services through a municipality;

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1 (f) a proposed minimum post-consumer recycled material content
rate
2 requirement and minimum recycling rate for materials. The minimum
recy-
3 cling rate shall be varied for each recycled material and shall
include
4 paper products, glass, metal, and plastic;
5 (g) a description of a public education program pursuant to
section
6 27-3013 of this title;
7 (h) how the producers, or the producer responsibility
organization,
8 will work with existing waste haulers, material recovery
facilities,
9 recyclers, and municipalities to operate or expand current
collection
10 programs to address material collection methods;
11 (i) a description of how a municipality will participate, on a
volun-
12 tary basis, with collection and how existing municipal waste
collection

13 infrastructure will be used;
 14 (j) a description of how the producer, or producer
responsibility
 15 organization, plans to meet the convenience requirements set forth
in
 16 this title;
 17 (k) a description of how the producer, or producer
responsibility
 18 organization, will meet or exceed the minimum recycling rate for a
prod-
 19 uct;
 20 (l) a description of the process for end-of-life management,
including
 21 recycling and disposal, using environmentally sound management
prac-
 22 tices;
 23 (m) a description of how a producer responsibility organization
will
 24 work with producers to reduce packaging through product design
and
 25 program innovations;
 26 (n) a process to address concerns and questions from customers
and
 27 consumers; and
 28 (o) any other information as specified by the department through
regu-
 29 lations.
 30 2. The department shall promulgate a registration fee schedule
to
 31 cover administrative costs, including a schedule for re-evaluating
the
 32 fee structure on an annual basis.
 33 § 27-3009. Producer responsibility plan approval.
 34 1. No later than ninety days after the submission of the
producer
 35 responsibility plan, the department shall make a determination
to
 36 approve the plan as submitted; approve the plan with conditions; or
deny
 37 the plan. The department shall consider the following in whether
to
 38 approve a plan:
 39 (a) the plan adequately addresses all elements described in
section
 40 27-3007 of this title with sufficient detail to demonstrate that
the
 41 objective of the plan will be met;
 42 (b) the producer has undertaken satisfactory consultation with
stake-
 43 holders and has provided an opportunity for stakeholder input in
the
 44 implementation and operation of the plan prior to submission of
the
 45 plan;
 46 (c) the plan adequately provides for: (i) the producer collecting
and

47 funding the costs of collecting and processing products covered by
the
48 plan or reimbursing a municipality; (ii) the funding mechanism to
cover
49 the entire cost of the program; (iii) convenient and free
consumer
50 access to collection facilities or collection services; and (iv)
an
51 evaluation system for the fee structure, which shall be evaluated on
an
52 annual basis by the producer responsibility organization and re-
submit-
53 ted to the department annually;
54 (d) the plan takes into consideration a post-consumer content rate
and
55 recycling rate that will create or enhance markets for recycled
materi-
56 als and there is a plan to adjust the minimum rates on an annual
basis.

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1 Such rates shall take into consideration current state and
federal
2 rates;
3 (e) the plan creates a convenient system for consumers to recycle
that
4 is, at minimum, as convenient as curbside collection or as convenient
as
5 the previous waste collection schema in the particular jurisdiction.
6 2. No later than six months after the date the plan is approved,
the
7 producer, or producer responsibility organization, shall implement
the
8 approved plan. The department may rescind the approval of an
approved
9 plan at any time.
10 § 27-3011. Collection and convenience.
11 A producer or producer responsibility organization shall provide
for
12 widespread, convenient, and equitable access to collection
opportunities
13 for the covered products identified under the producer or
producer
14 responsibility organization's plan. A producer responsibility
organiza-
15 tion shall ensure services continue for all single and multi-
family
16 residential units that a municipality serves as of the effective date
of
17 this article, either directly or through a contract to provide
services,
18 and that such services are continued through the plan. A
producer
19 responsibility organization may rely on a range of means to
collect
20 various categories of covered materials or products including, but
not

21 limited to, curbside collection, depot drop-off, and retailer take-
back
 22 so long as covered materials and products collection options
include
 23 curbside or multi-family recycling collection services provided
by
 24 municipal programs, municipal contracted programs, solid
waste
 25 collection companies, or other approved entities as identified by
the
 26 department if:
 27 1. The category of covered materials and products is suitable
for
 28 residential curbside recycling collection and can be effectively
sorted
 29 by the facilities receiving the curbside collected material;
 30 2. The category of paper is suitable for residential curbside
recycl-
 31 ing collection and can be effectively sorted by the facilities
receiving
 32 the curbside collected material;
 33 3. The provider of the residential curbside recycling service
agrees
 34 to include the category of covered materials and products as an
accepted
 35 material;
 36 4. The covered materials and products category is not handled
through
 37 a deposit and return scheme or buy back system that relies on
a
 38 collection system other than curbside or multi-family collection; and
 39 5. The provider of the residential curbside recycling service
agrees
 40 to the producer responsibility organization activity-based
costs
 41 arrangement.
 42 § 27-3013. Outreach and education.
 43 1. The producer, or producer responsibility organization,
shall
 44 provide effective outreach, education, and communications to
consumers
 45 throughout New York state regarding:
 46 (a) proper end-of-life management of covered products and
beverage
 47 containers;
 48 (b) the location and availability of curbside and drop-off
collection
 49 opportunities;
 50 (c) how to prevent litter of covered products and beverage
containers;
 51 and
 52 (d) recycling and composting instructions that are: consistent
state-
 53 wide, except as necessary to take into account differences among
local
 54 laws and processing capabilities; easy to understand; and easily
acces-

1 2. The outreach and education required pursuant to subdivision one
of
2 this section shall:
3 (a) be designed to achieve the management goals of covered
products
4 under this title, including the prevention of contamination of
covered
5 products;
6 (b) be coordinated across programs to avoid confusion for
consumers;
7 (c) include, at a minimum: consulting on education, outreach,
and
8 communications with local governments and other stakeholders;
coordinat-
9 ing with and assisting local municipal programs, municipal
contracted
10 programs, solid waste collection companies, and other entities
providing
11 services; and developing and providing outreach and education to
the
12 diverse ethnic populations in the state; and
13 (d) a plan to work with participating producers to label
covered
14 products with information to assist consumers in responsibly
managing
15 and recycling covered products.
16 3. The department shall determine the effectiveness of outreach
and
17 education efforts under this section to determine whether changes
are
18 necessary to improve those outreach and education efforts and
develop
19 information that may be used to improve outreach and education
efforts
20 under this section.
21 4. The producer responsibility organization shall undertake
outreach,
22 education, and communications that assist in attaining or exceeding
the
23 minimum post-consumer content and recovery rates.
24 § 27-3015. Reporting requirements and audits.
25 1. On or before one year after a producer or producer
responsibility
26 organization's first plan is approved, and annually thereafter,
each
27 producer, or producer responsibility organization acting as their
desig-
28 nated agent, shall submit a report to the commissioner that details
the
29 program for the prior year's program. The report shall be posted on
the
30 department's website and on the website of the producer, or
producer

31 responsibility organization acting as their designated agent. Such
annu-
 32 al report shall include:
 33 (a) a detailed description of the methods used to collect,
transport
 34 and process covered materials and products including
detailing
 35 collection methods made available to consumers and an evaluation of
the
 36 program's collection convenience;
 37 (b) the overall weight of covered materials and products collected
in
 38 the state;
 39 (c) the weight and type of covered materials and products collected
in
 40 the state by the method of disposition;
 41 (d) the total cost of implementing the program, as determined by
an
 42 independent financial audit, as performed by an independent auditor;
 43 (e) information regarding the independently audited financial
state-
 44 ments detailing all deposits received and refunds paid by the
producers
 45 covered by the approved plan, and revenues and expenditures for any
fees
 46 associated with the approved plan that may be charged separately
and
 47 identified on the consumer receipt of sale;
 48 (f) a copy of the independent audit;
 49 (g) a detailed description of whether the program compensates
municipi-
 50 palities, solid waste collection, sorting, and reprocessing
companies,
 51 and other approved entities for their recycling efforts and
other
 52 related services provided by the above entities;
 53 (h) samples of all educational materials provided to consumers
or
 54 other entities; and

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1 (i) a detailed list of efforts undertaken and an evaluation of
the
 2 methods used to disseminate such materials including recommendations,
if
 3 any, for how the educational component of the program can be
improved.
 4 2. The department shall not require public reporting of any
confiden-
 5 tial information that the department finds to be protected
proprietary
 6 information. For purposes of this title, protected proprietary
informa-
 7 tion shall mean information that, if made public, would divulge
compet-
 8 itive business information, methods or processes entitled to
protection

9 as trade secrets of such producer or producer responsibility
organiza-
10 tion or information that would reasonably hinder the producer or
produc-
11 er responsibility organization's competitive advantage in the
market-
12 place.
13 § 27-3017. Antitrust protections.
14 A producer responsibility organization, including officers,
members,
15 employees and agents thereof, shall be immune from liability for
conduct
16 under state laws relating to antitrust, restraint of trade, unfair
trade
17 practices, and other regulation of trade or commerce only to the
extent
18 necessary to plan and implement compliance with this section.
19 § 27-3019. Penalties.
20 1. Except as otherwise provided in this section, any person or
entity
21 that violates any provision of or fails to perform any duty
imposed
22 pursuant to this title or any rule or regulation promulgated
pursuant
23 thereto, or any term or condition of any registration or permit
issued
24 pursuant thereto, or any final determination or order of the
commission-
25 er made pursuant to this article or article seventy-one of this
chapter
26 shall be liable for a civil penalty not to exceed five hundred
dollars
27 for each violation and an additional penalty of not more than
five
28 hundred dollars for each day during which such violation continues.
29 2. (a) Any producer or producer responsibility organization
who
30 violates any provision of or fails to perform any duty imposed
pursuant
31 to this title or any rule or regulation promulgated pursuant thereto,
or
32 any term or condition of any registration or permit issued
pursuant
33 thereto, or any final determination or order of the commissioner
made
34 pursuant to this article or article seventy-one of this chapter shall
be
35 liable for a civil penalty not to exceed five thousand dollars for
each
36 violation and an additional penalty of not more than one thousand
five
37 hundred dollars for each day during which such violation continues.
For
38 a second violation committed within twelve months of a prior
violation,
39 the producer or producer responsibility organization shall be liable
for

40 a civil penalty not to exceed ten thousand dollars and an
additional
41 penalty of not more than three thousand dollars for each day
during
42 which such violation continues. For a third or subsequent
violation
43 committed within twelve months of any prior violation, the producer
or
44 producer responsibility organization shall be liable for a civil
penalty
45 not to exceed twenty thousand dollars and an additional penalty of
six
46 thousand dollars for each day during which such violation continues.
47 (b) All producers participating in a producer responsibility
organiza-
48 tion shall be jointly and severally liable for any penalties
assessed
49 against the producer responsibility organization pursuant to this
title
50 and article seventy-one of this chapter.
51 3. Civil penalties under this section shall be assessed by the
depart-
52 ment after an opportunity to be heard pursuant to the provisions
of
53 section 71-1709 of this chapter, or by the court in any action
or
54 proceeding pursuant to section 71-2727 of this chapter, and in
addition
55 thereto, such person or entity may by similar process be enjoined
from
56 continuing such violation and any permit, registration or other
approval

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1 issued by the department may be revoked or suspended or a
pending
2 renewal denied.
3 4. The department and the attorney general are hereby authorized
to
4 enforce the provisions of this title and all monies collected shall
be
5 deposited to the credit of the environmental protection fund
established
6 pursuant to section ninety-two-s of the state finance law.
7 § 27-3021. State preemption.
8 Jurisdiction in all matters pertaining to activity-based costs
and
9 funding mechanisms of producer responsibility organizations relating
to
10 the recovery of covered materials by this title, vested exclusively
in
11 the state. Any provision of any local law or ordinance, or any rule
or
12 regulation promulgated thereto, governing covered materials and
products
13 recycling shall, upon the effective date of this title, be
preempted;

14 provided however, that nothing in this section shall preclude a
15 person
16 from coordinating, for recycling or reuse, the collection of
17 covered
18 materials and products.
19 § 27-3023. Authority to promulgate rules and regulations.
20 The commissioner shall have the power to promulgate rules and
21 regu-
22 lations necessary and appropriate for the administration of this
23 title.
24 § 27-3025. Severability.
25 The provisions of this title shall be severable and if any
26 phrase,
27 clause, sentence or provision of this title or the applicability
28 thereof
29 to any person or circumstance shall be held invalid, the remainder
30 of
31 this title and the application thereof shall not be affected thereby.
32 § 3. This act shall take effect on the one hundred eightieth day
after
it shall have become a law.

PROPOSED

STATE OF NEW YORK

7904

IN SENATE

March 2, 2020

Introduced by Sen. THOMAS -- read twice and ordered printed, and
when printed to be committed to the Committee on Environmental
Conservation

AN ACT to amend the environmental conservation law, in relation
to declaring the goal of the state of New York to source reduce,
reuse,
solid recycle, or compost no less than eighty-five percent of the
waste generated by the year 2030

The People of the State of New York, represented in Senate and
Assem- bly, do enact as follows:

1 Section 1. The environmental conservation law is amended by adding
a
2 new section 27-0102 to read as follows:
3 § 27-0102. Declaration of policy.
4 The legislature hereby declares that it shall be a goal of the
state
5 of New York to source reduce, reuse, recycle, or compost no less
than
6 eighty-five percent of the solid waste generated by the year two
thou-

7 sand thirty, and annually thereafter.
8 § 2. Subdivision 1 of section 3-0301 of the environmental
conservation
9 law is amended by adding a new paragraph oo to read as follows:
10 oo. Advise and cooperate with planning units, as defined in
section
11 27-0107 of this chapter, to achieve the goal of section 27-0102 of
this
12 chapter.
13 § 3. No later than January 1, 2023, the department of
environmental
14 conservation shall submit a report to the governor and the
legislature
15 outlining strategies to achieve the state's goal pursuant to
section
16 27-0102 of the environmental conservation law.
17 § 4. This act shall take effect immediately.

Links to:

Solid Waste [Management](#) §304-34 ecode
[UC Green Business Challenge](#)
[1991 Solid Waste Plan](#)
[2020 UCRRA Solid Waste Management Plan](#)
[UC Sustainability Initiatives](#)