



Department of
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Draft New York State Solid Waste Management Plan – Status Update

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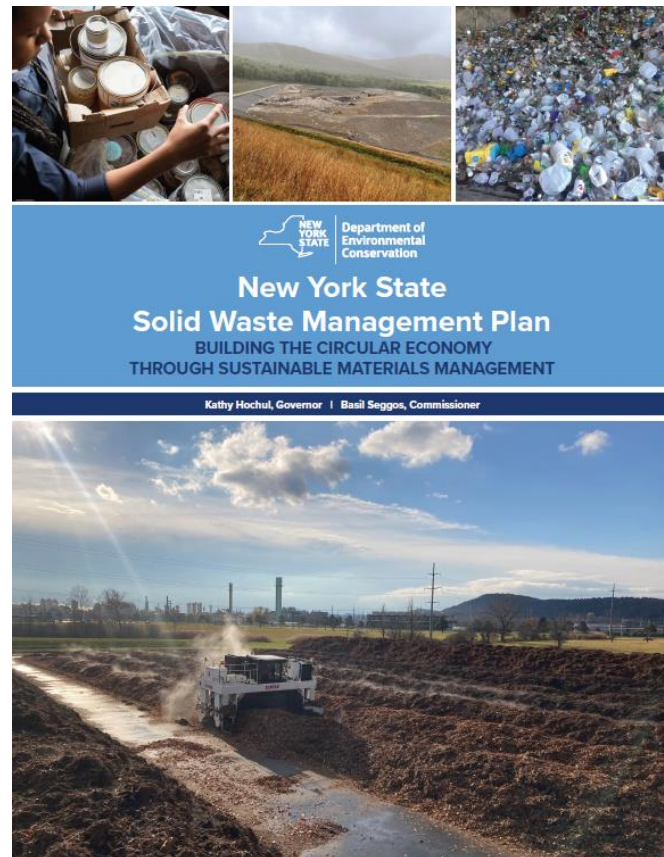
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**NYSASWM Fall Conference
September 25, 2023**

Overview of Draft State Solid Waste Management Plan (SSWMP)

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Appendices

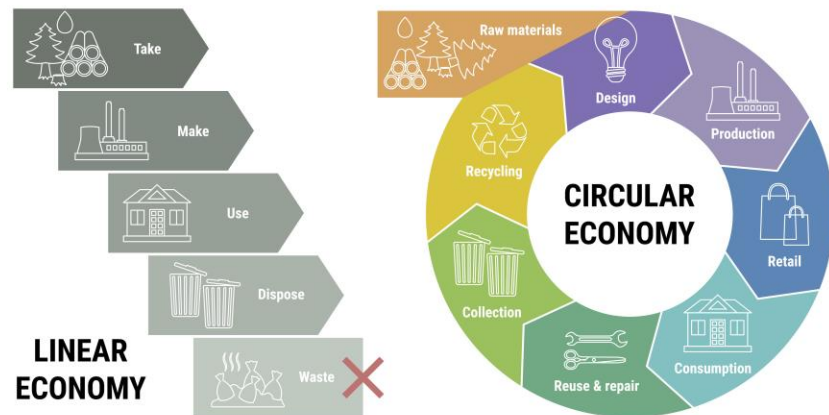
- A. State Plan History
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Circular Economy

Shift away from the linear
“take, make, toss” model

Circular economy

- Design out waste and pollution;
- Keep products and materials in use; and
- Regenerate natural systems.



Vision

- Landfilling is reduced by 85% by 2050
- The circular economy is realized
- Collaboration and innovation are commonplace
- “Waste” is a concept of the past
- Climate change mitigation is fully implemented
- Shared responsibility is a given
- Equitable, inclusive, and accessible waste reduction and reuse efforts are widespread
- Responsible and resilient markets thrive



Issues, Challenges and Opportunities

- Climate
- Throw-away culture
- Global markets
- Information sharing and technology
- Equity issues
- Ecosystem impacts
- Emerging contaminants sampling and research



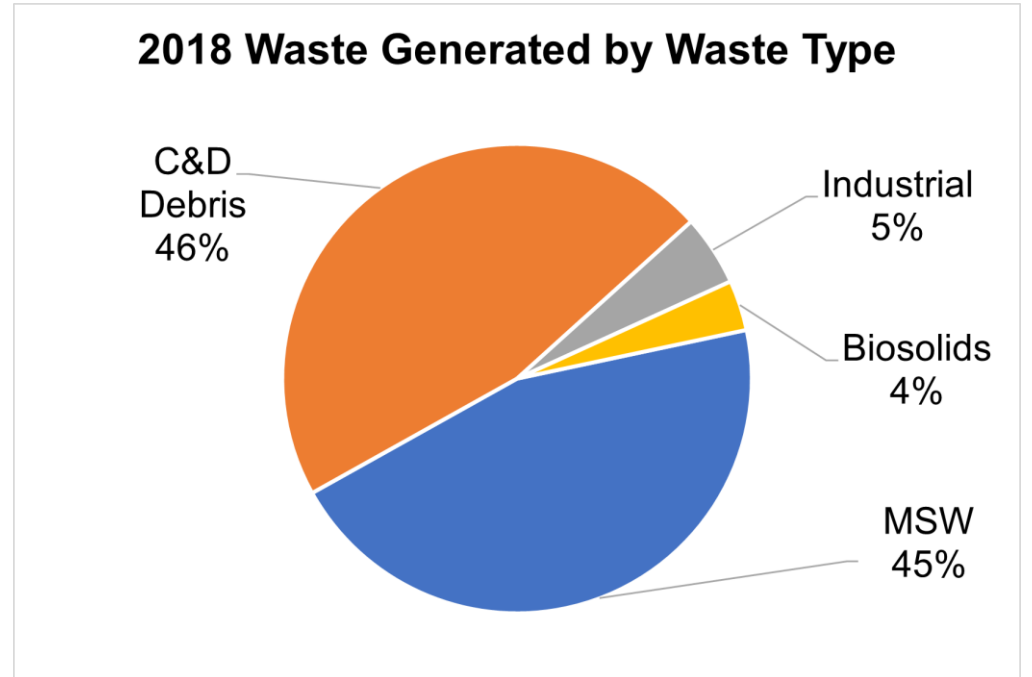
Background on Waste Management in New York State

2018 Waste Generated by Type in New York

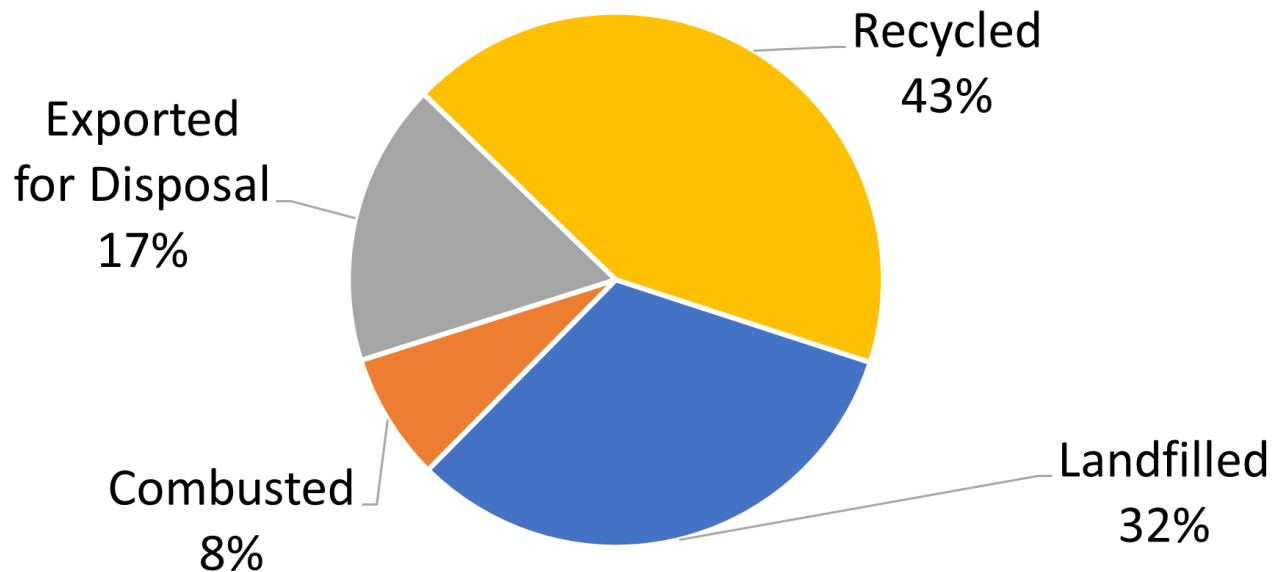
Total waste stream generation was 42.2 million tons in 2018.

Recycling rate increased

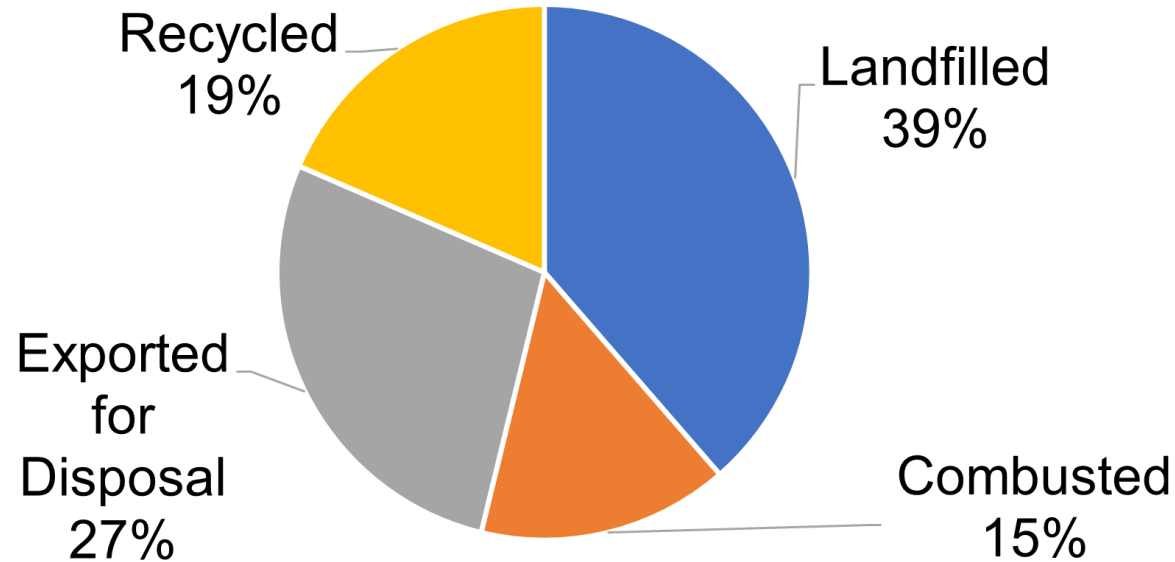
- 36% in 2008
- 43% in 2018



2018 Management of Total Waste Stream Generated in New York



2018 Management of MSW Generated in New York



MSW Recycling Rate

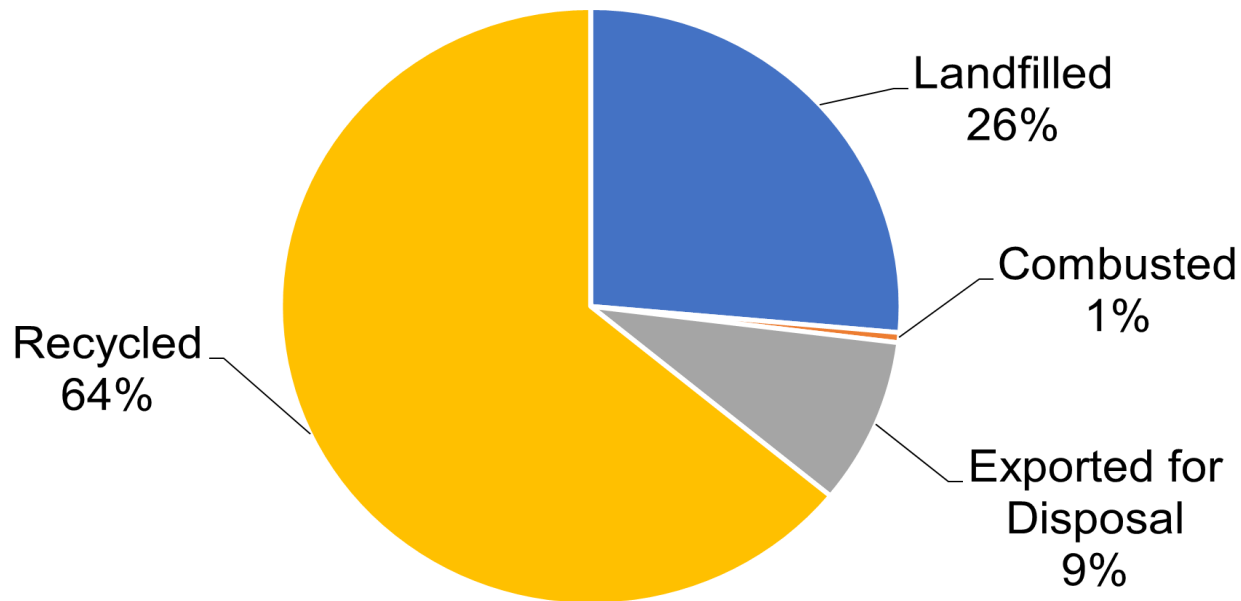
20% in 2008

19% in 2018



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2018 Management of C&D Debris Generated in New York



C&D Recycling Rate

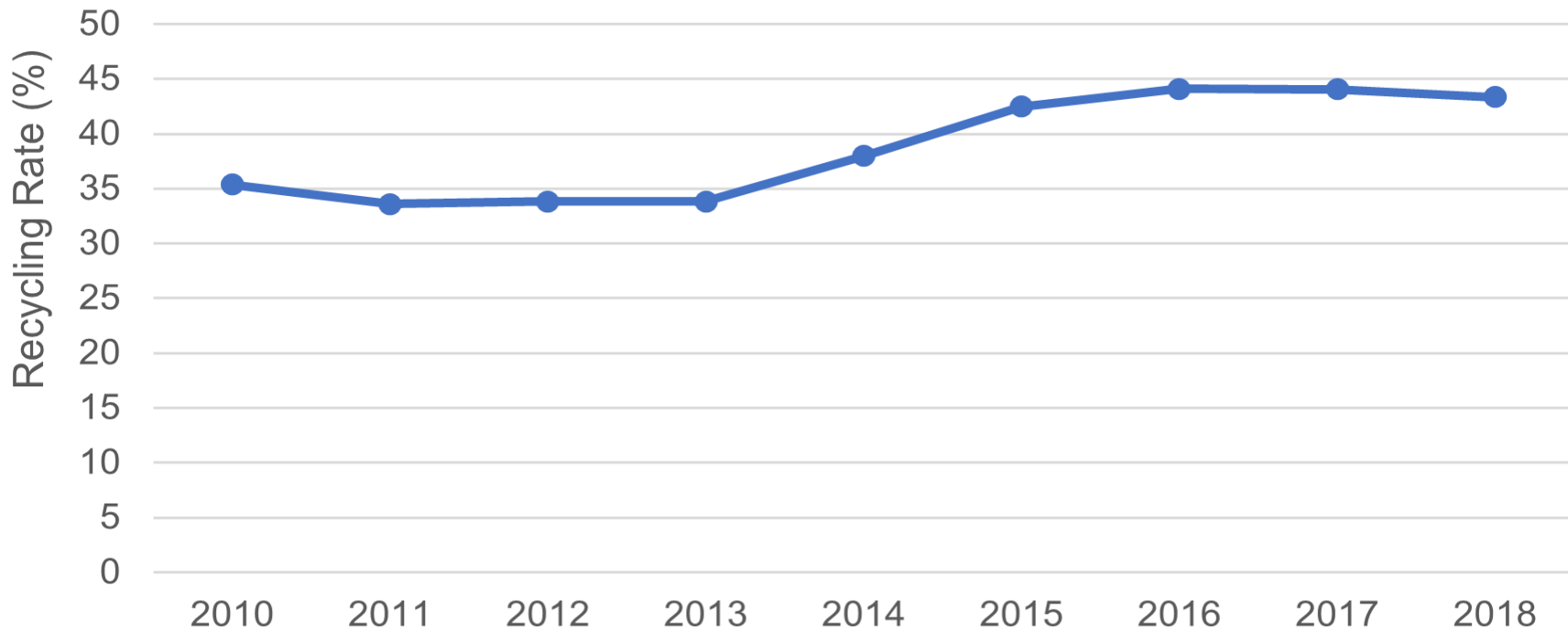
55% in 2008

64% in 2018

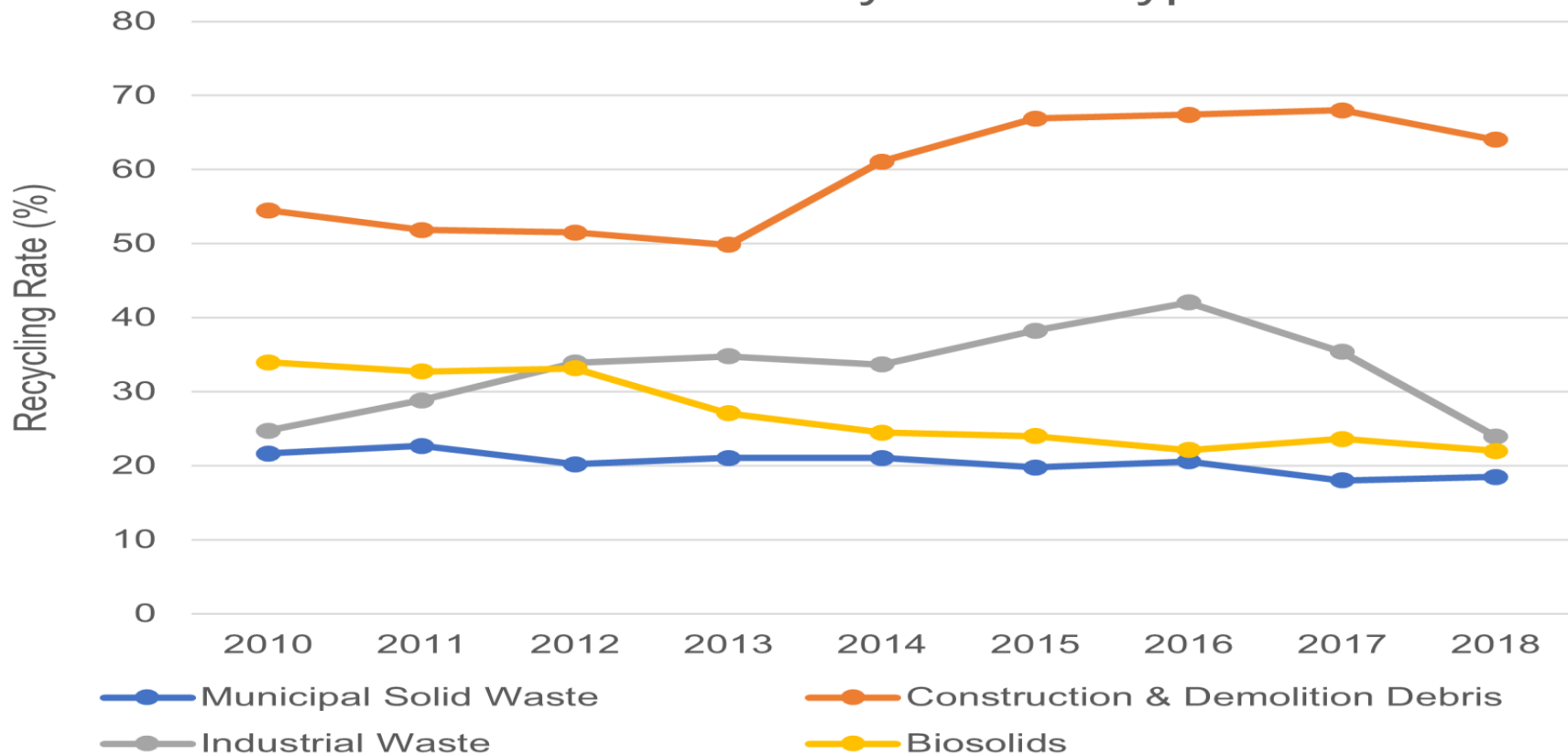


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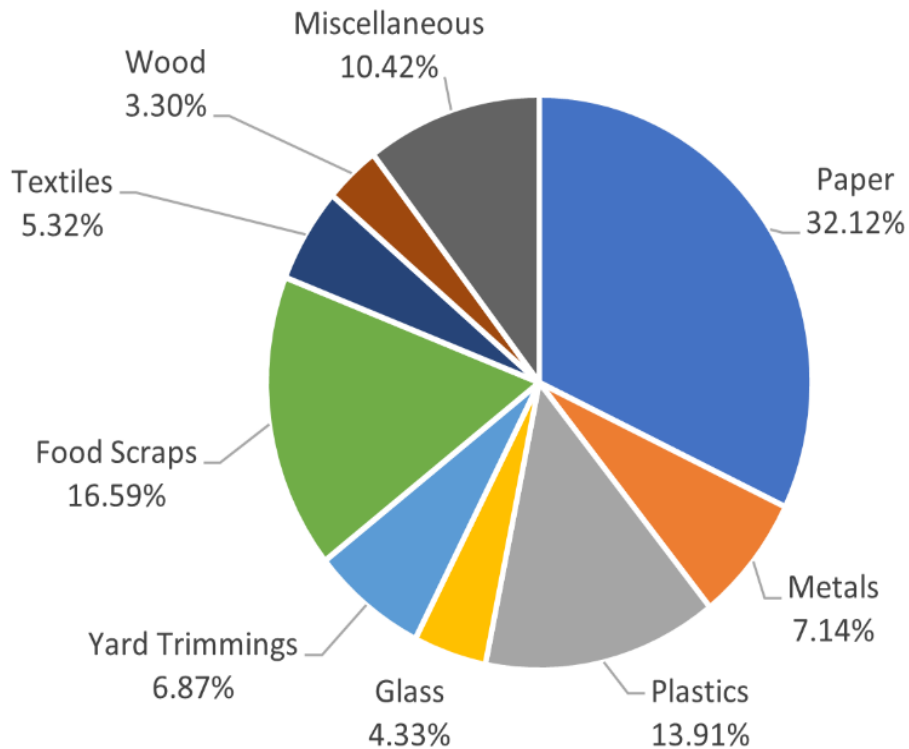
Recycling Rate for Total Waste Stream Generated in New York



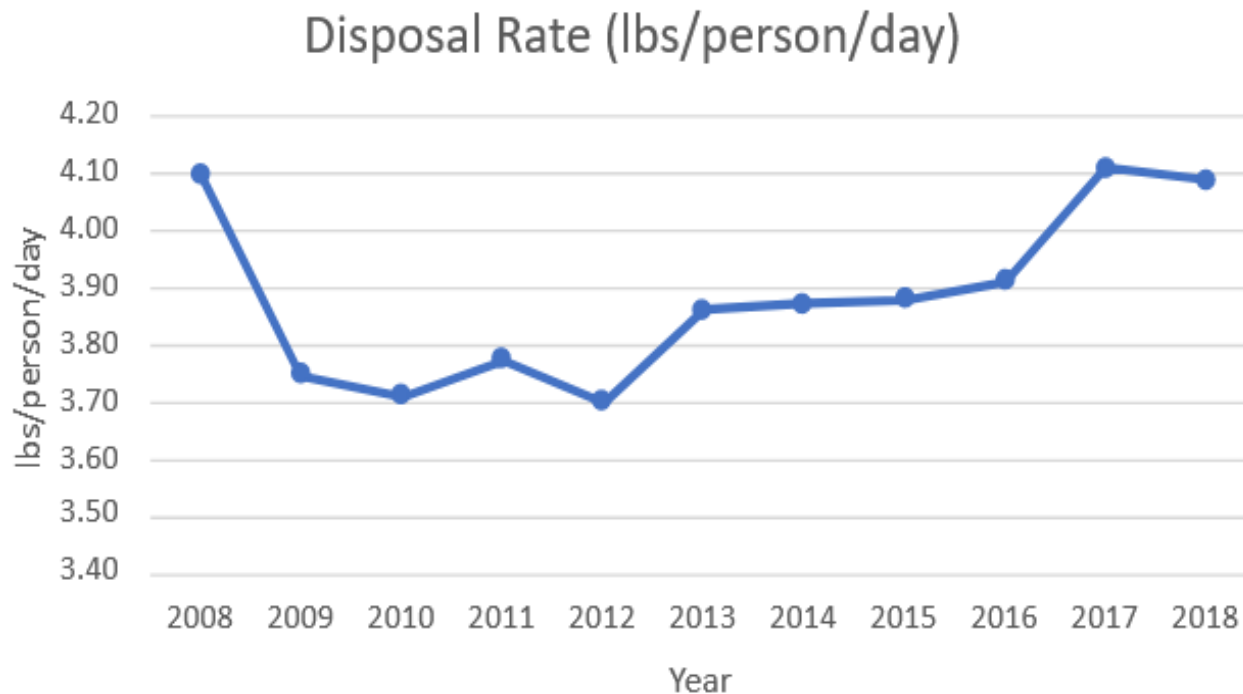
Recycling Rates for Waste Generated in New York by Waste Type



MSW Materials Composition (%)



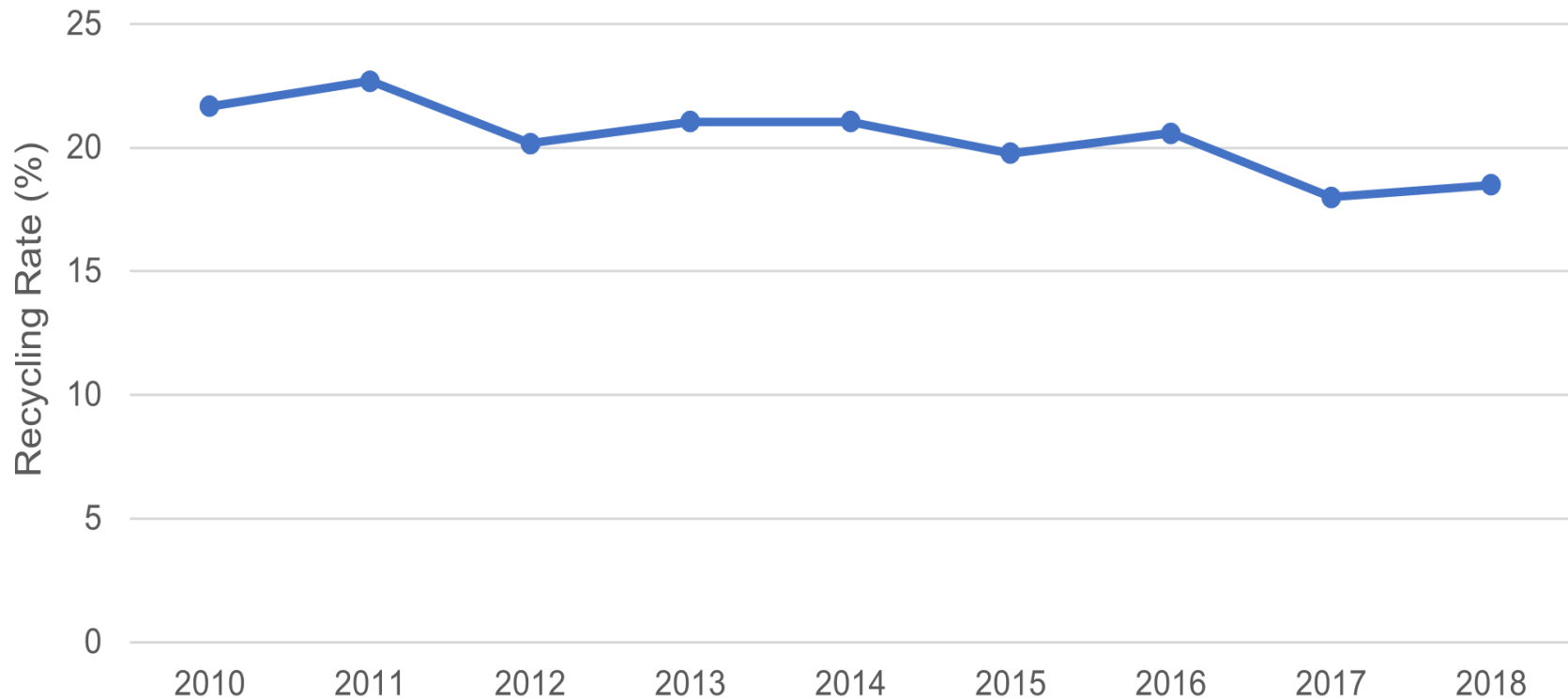
Year	Disposal Rate (lbs/person/day)
2008	4.10
2009	3.75
2010	3.71
2011	3.77
2012	3.70
2013	3.86
2014	3.87
2015	3.88
2016	3.91
2017	4.11
2018	4.09



The state remained essentially at the same disposal rate of pounds of MSW per person per day in 2018 (4.09) as in 2008 (4.10).



Recycling Rate for MSW Generated in New York



Regional Waste Management Variability

DEC Region	Population	MSW Disposal Rate (lbs./person/day)	Recycling Rate (%)*			Waste Composition (%)*			
			MSW	CDD	Total Waste	MSW	CDD	IND	BIO
1	2,832,331	4.50	20%	60%	43%	41%	58%	-	1%
2	8,390,081	3.54	19%	66%	43%	46%	52%	1%	1%
3	2,322,431	4.06	22%	61%	38%	57%	40%	1%	2%
4	925,618	4.02	28%	66%	40%	51%	38%	9%	2%
5	581,970	3.75	21%	4%	22%	54%	20%	15%	11%
6	537,866	3.24	20%	1%	12%	51%	34%	12%	3%
7	1,165,354	3.35	22%	25%	21%	51%	38%	6%	4%
8	1,326,787	3.61	19%	38%	26%	46%	42%	6%	6%
9	1,420,330	4.31	20%	65%	32%	49%	32%	14%	5%

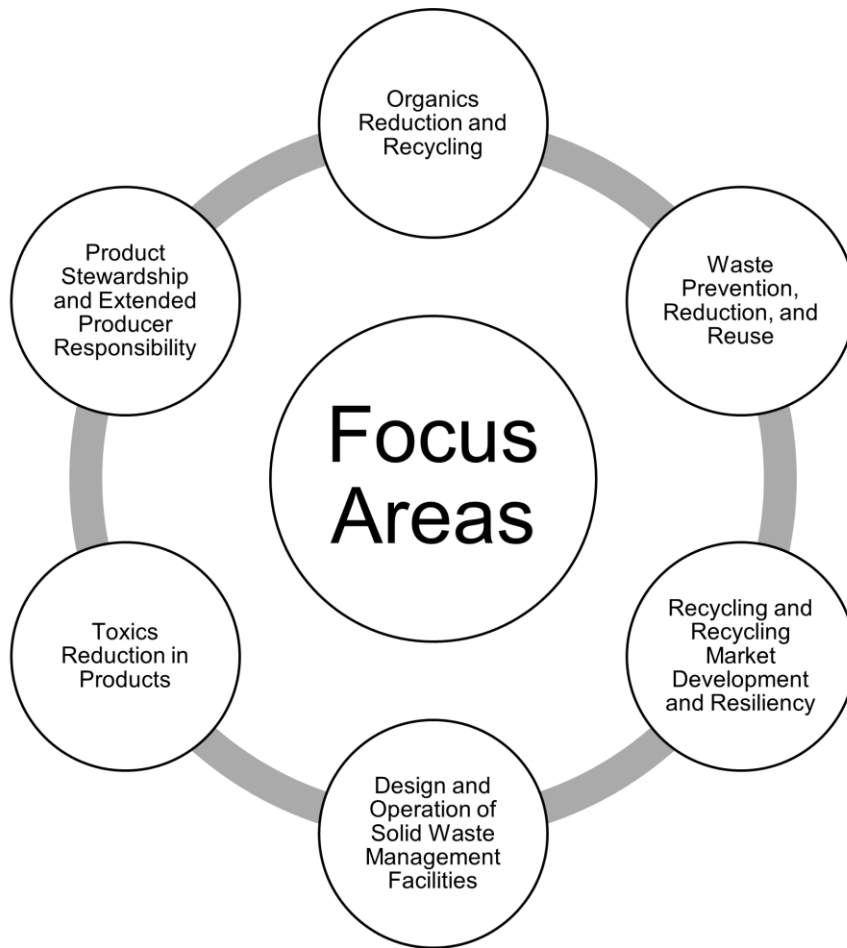


Disposal Capacity



- 25 MSW landfills
- Combined capacity ranges from 16-25 years
- 19 years capacity if full permitted capacity used by each landfill

Future of Materials Management in NYS



Action Items

- 178 action items spread across 31 goals
- 34 action items require legislative action
- Action items are aligned with the recommendations in the CLCPA Final Scoping Plan



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New York State Solid Waste Management Plan BUILDING THE CIRCULAR ECONOMY THROUGH SUSTAINABLE MATERIALS MANAGEMENT

Kathy Hochul, Governor | Basil Seggos, Commissioner



Focus Area: Waste Prevention, Reduction, and Reuse

Increase prevention, reduction, reuse, and repair opportunities for New York State residents (Right to Repair, K-12 curriculum and sharing tables, and outreach and education on reuse and refill)

Support prevention, reduction, and reuse in the commercial and industrial sectors through education, engagement, and policy

- Support refill and reuse solutions
- Advance circularity in furniture
- Enhance secondary markets for useable products such as textile, furniture, etc.
- Support initiatives that ban or prevent unsold retail goods from going to disposal
- 'Rethink Waste' campaign



Focus Area: Waste Prevention, Reduction, and Reuse (cont'd)

Foster community resiliency by developing programs and supporting proposals and initiatives that prevent and reduce waste and promote reuse.

- Support legislative proposals restricting and reducing single-use products
- Support legislative proposals enhancing the implementation of the New York State Bag Waste Reduction Law
- Advance community-level reuse and repair programs
- Continue to assist with technical assistance to local communities on prevention, reduction, and reuse



Focus Area: Recycling and Recycling Market Development and Resiliency

- **Support proposals, such as EPR for paper and packaging**, that motivate producers to reduce the amount of material entering households
- **Increase research collaborations** to improve residential recycling education and promote improved recycling strategies for all sectors
- **Partner with K-12 Schools, colleges, and universities** to educate, engage, and empower students
- **Reduce waste disposal through innovative policy approaches** including disincentive surcharge, minimum recycled content, building deconstruction
- **Support pathways for increased textile and furniture circularity**
- **Support efforts to build capacity for processing secondary materials commodities collected for recycling**
- **Encourage the development and expansion of recycling markets by demonstrating the state's ability to "lead by example"**



Focus Area: Product Stewardship and Extended Producer Responsibility

- **Support broad packaging and paper product legislation** to include all types of packaging and all paper products by all generators
- **Work to improve the state's existing products stewardship and EPR programs** (e-waste, rechargeable batteries, mercury thermostat, postconsumer paint, pharmaceuticals, carpet)
- **Promote the development and passage of EPR framework legislation and EPR legislation for priority products**



Focus Area: Organics Reduction and Recycling

- **Support expansion of the Food Donation & Food Scraps Recycling law**
- **Support and grow the organics recycling industry** (guidance, trainings, financial assistance)
- **Empower residents to compost** at home or through community programs
- **Expand markets** for use of compost, digestate and other end products
- **Engage the farming and agriculture community** (composting on-site, compost use, land application, animal feed, etc.)



Focus Area: Toxics Reduction in Products

Leverage partnerships to expand knowledge of harmful chemicals in products to promote their reduction

- Work with partners to better understand the presence of toxic chemicals such as PFAS and identify preferable alternatives

Support legislation, policy, and initiatives that reduce the presence of toxic materials and contaminants in products

- Support initiatives that ban or restrict materials and chemicals that are a growing concern for people and the environment



Focus Area: Design and Operation of Solid Waste Management Facilities and Related Activities

- Keep regulations up to date and incorporate climate impact criteria
- Encourage reuse of C&D debris, including excavated material
- Provide technical assistance to facilities to improve operations
- Minimize GHG emissions from facilities (methane monitoring technologies & leak reductions)
- Continue Inactive Landfill Investigation program and support efforts to solidify wastes that contain PFAS compounds prior to disposal
- Support requirements for municipalities to develop and implement local solid waste management plans



Waste Projections and Goals 2023-2050

New York State Waste Projections 2023 - 2050									
		2018	2023	2025	2027	2030	2032	2040	2050
MSW	Tons Generated	17,889,980	17,889,980	17,889,980	17,889,980	17,889,980	17,889,980	17,889,980	17,889,980
	Tons Diverted	3,399,096	3,935,796	4,651,395	5,724,794	7,155,992	9,123,890	11,628,487	15,206,483
	Recycling Rate (%)	19%	22%	26%	32%	40%	51%	65%	85%
CDD	Tons Generated	18,360,987	18,360,987	18,360,987	18,360,987	18,360,987	18,360,987	18,360,987	18,360,987
	Tons Diverted	11,751,032	12,301,861	13,219,911	13,770,740	14,321,570	14,688,790	15,056,009	15,606,839
	Recycling Rate (%)	64%	67%	72%	75%	78%	80%	82%	85%
Industrial	Tons Generated	1,932,296	1,932,296	1,932,296	1,932,296	1,932,296	1,932,296	1,932,296	1,932,296
	Tons Diverted	560,366	618,335	695,627	869,533	1,062,763	1,255,992	1,449,222	1,642,452
	Recycling Rate (%)	29%	32%	36%	45%	55%	65%	75%	85%
Biosolids	Tons Generated	1,372,854	1,372,854	1,372,854	1,372,854	1,372,854	1,372,854	1,372,854	1,372,854
	Tons Diverted	302,028	425,585	453,042	480,499	507,956	535,413	617,784	782,527
	Recycling Rate (%)	22%	31%	33%	35%	37%	39%	45%	57%
Bulk/Heavy Metals	Tons Generated	2,692,161	2,692,161	2,692,161	2,692,161	2,692,161	2,692,161	2,692,161	2,692,161
	Tons Diverted	2,369,102	2,369,102	2,396,023	2,422,945	2,422,945	2,476,788	2,503,710	2,557,553
	Recycling Rate (%)	88%	88%	89%	90%	90%	92%	93%	95%
Total Waste Stream	Tons Generated	42,248,278	42,248,278	42,248,278	42,248,278	42,248,278	42,248,278	42,248,278	42,248,278
	Tons Diverted	18,381,623	19,650,678	21,415,997	23,268,511	25,471,226	28,080,873	31,255,212	35,795,853
	Recycling Rate (%)	44%	47%	51%	55%	60%	66%	74%	85%



MSW					NYS Population	
	Tons Generated	Tons Diverted	Recycling Rate (%)	Per capita Waste Disposal (lbs/person/day)		
2018	17,889,980	3,399,096	19%	4.09	2018	19,530,351
2023	17,889,980	3,900,016	22%	3.91	2023	19,628,003
2025	17,889,980	4,561,945	26%	3.71	2025	19,667,259
2027	17,889,980	5,760,574	32%	3.37	2027	19,706,593
2030	17,889,980	7,191,772	40%	2.97	2030	19,765,713
2032	17,889,980	9,159,670	51%	2.42	2032	19,805,244
2040	17,889,980	11,664,267	65%	1.71	2040	19,963,686
2050	17,889,980	15,224,373	85%	0.72	2050	20,163,323



Overview of Public Comment Period

- **Public comment period**
 - Opened: March 15, 2023
 - Closed: June 29, 2023
- **Extended Twice, 45 additional days for review** (total of 105 days provided for review)
- **Informational webinar hosted April 11** - DEC reviewed key elements of the Plan and answered questions from attendees.
- **Over 1,000 comments received**



Public Comment Topic Areas

- Call to close all combustors
- Call to give greater emphasis to waste reduction and reuse
- Concern that goals of plan are too aggressive and will not be achieved, will be costly to local municipalities
- Call for more specifics on how the aggressive diversion goals will be achieved
- Call for a cost analysis associated with the recommendations in the plan

Public Comment Topic Areas

- Concerns of the impact of waste on the Finger Lakes Region from the disposal of waste imported from outside the region
- Call for local self-sufficiency as a goal of the Plan
- Disposal Disincentive Surcharge
 - Call to clarify impact on local governments that own landfills
 - Call to provide more specifics on how the fee will reduce disposal and how the funds will be used
- Concerns regarding the recycling of biosolids

Public Comment Topic Areas

- Concerns with chemical recycling
- Call to include additional prohibitions on consumer products regarding pollutant content and wastefulness
- Concern that not enough actions to address current and future burdens on disadvantaged communities
- Call for greater support of the expansion of the bottle bill and greater recognition of the harm from the use of plastics.

What's To Come

- Final Plan published 2023
 - Clarified text where needed
 - Updated existing actions items and added new action items
- Assessment of Public Comment published with final plan

Transformative Legislative Action Needed

- **Developing EPR for paper and packaging**, and framework legislation that allows the addition of other products
- **Expand and amend the existing Food Donation & Food Scraps Recycling Law** (include smaller businesses and institutions, eliminate the mileage limit to an organics recycling facility)
- **Require a per ton disposal disincentive surcharge** on all waste disposed in NYS and all waste generated in NYS being sent for disposal out-of-state to provide financial support for reduction, reuse and recycling projects



Thank You

For more information on the New York State Solid Waste Management Plan:

<https://www.dec.ny.gov/chemical/41831.html>

Stay in the loop – [sign up for the DECDelivers Solid Waste and Recycling Newsletter](#)

