



MassDEP C&D Subcommittee

Via Zoom Webinar

May 8, 2025

10:00 AM – 12:00 PM

Agenda

- Welcome
- CY2024 C&D Facility Annual Report Data Analysis
- C&D Facility MPS Compliance Status Update, CY2024
- C&D Action Plan Mid-Course Assessment
- Discussion

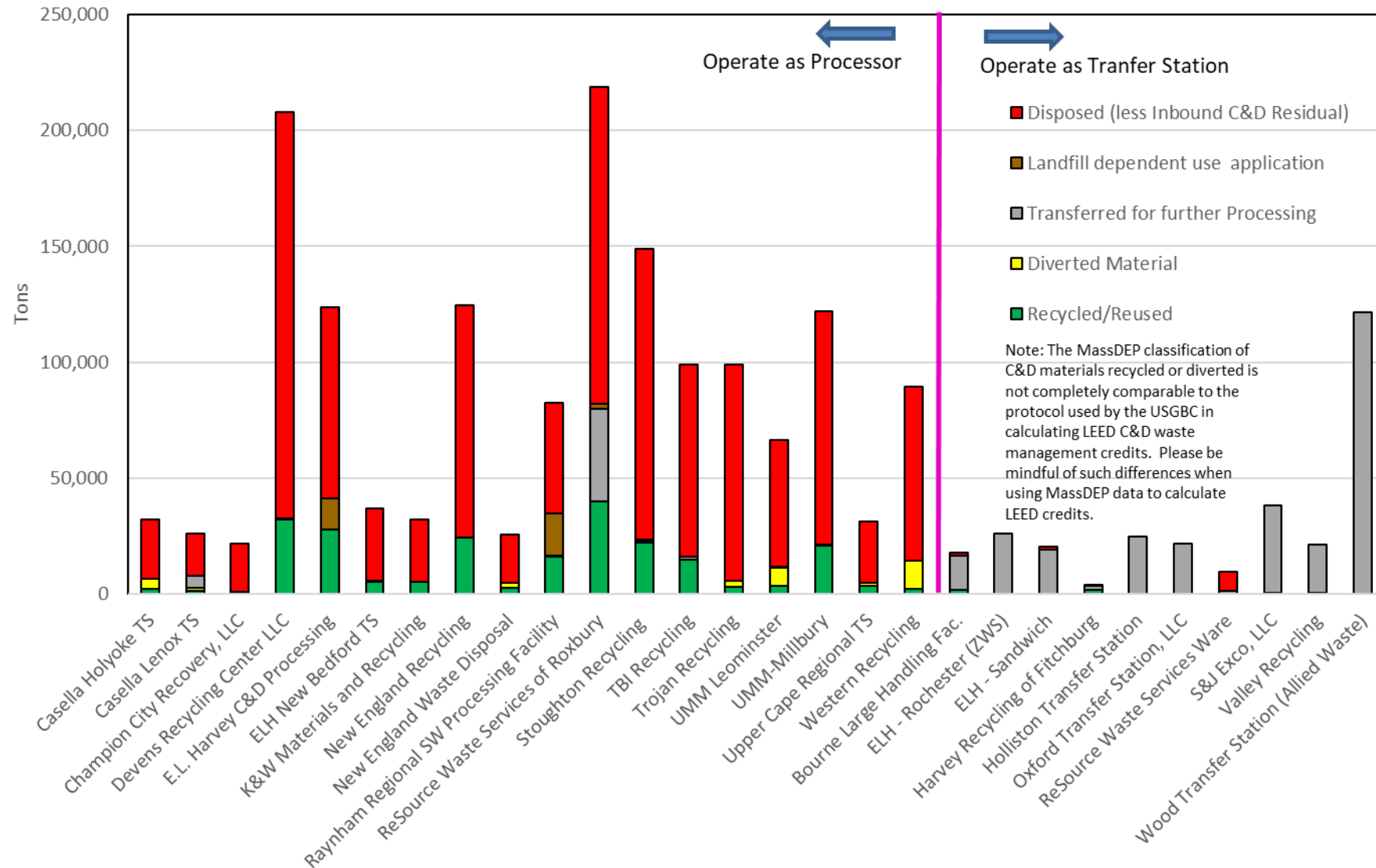
Welcome

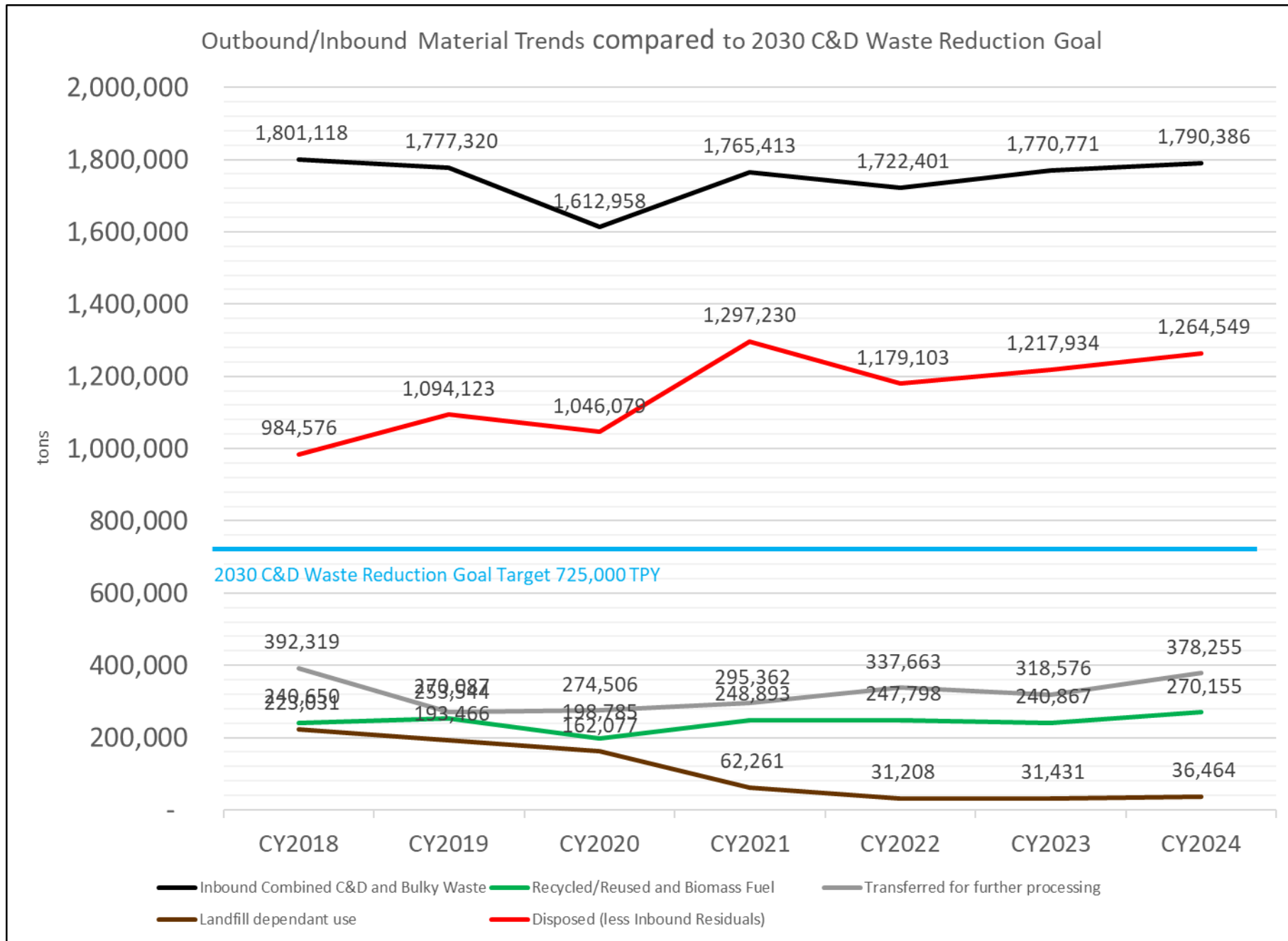
- 54 individuals registered for the Zoom call as of 5/08/2025
 - C&D Facilities/waste facilities/waste haulers: 18
 - Recyclers: 5
 - Property owners/Developers: 1
 - Construction/Demo Contractors: 4
 - Consultants/Architects/Designers: 2
 - Trade Associations: 3
 - Government Agencies: 13
 - NGOs/Academia: 8

CY2024 C&D Facility Annual Report Data Analysis

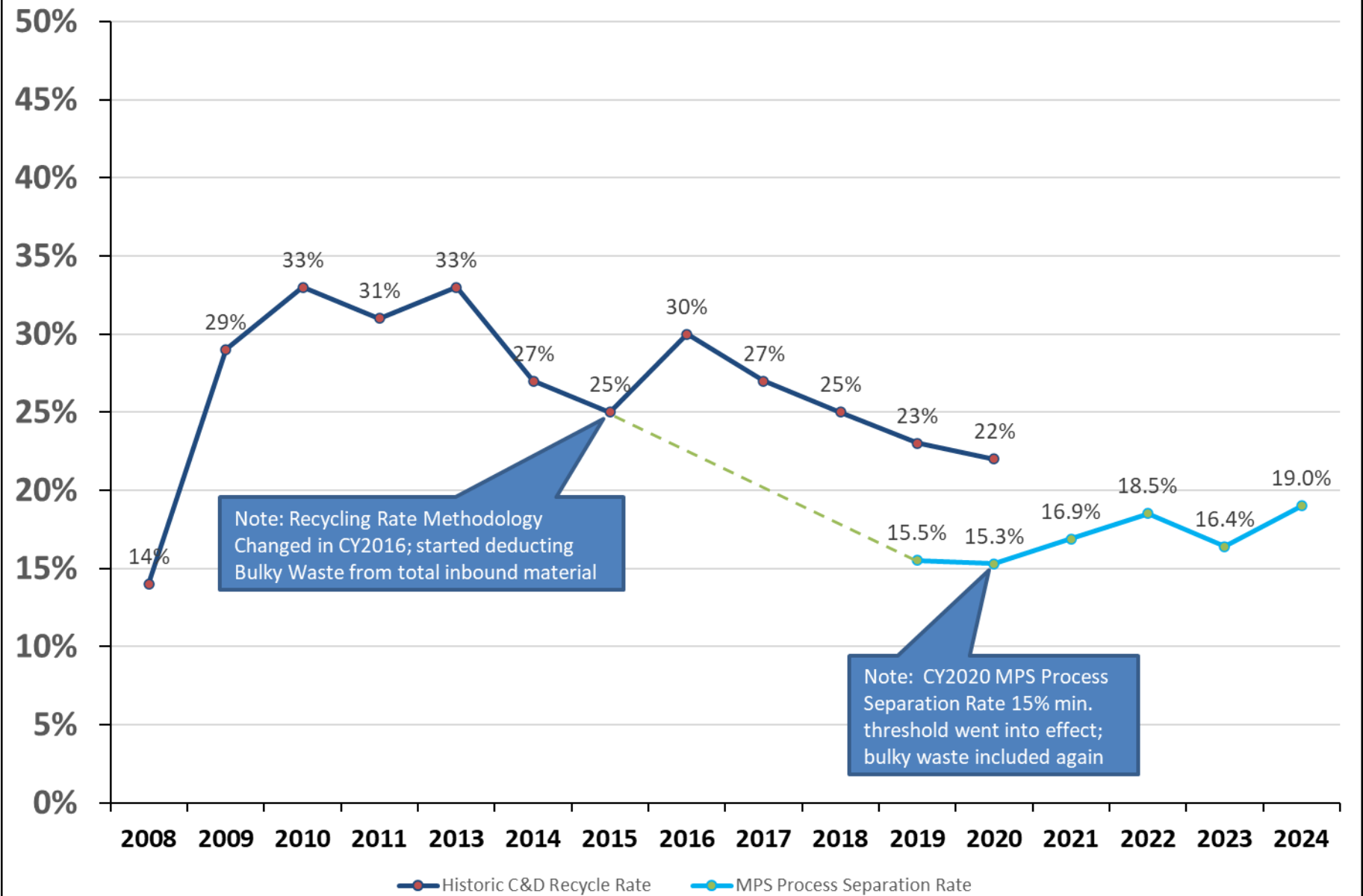
- Massachusetts Large C&D Handling Facilities - Disposition of C&D Materials Handled by Facility in 2024*

*Quantities are "as reported" to MassDEP in CY2024 C&D Annual Facility Reports

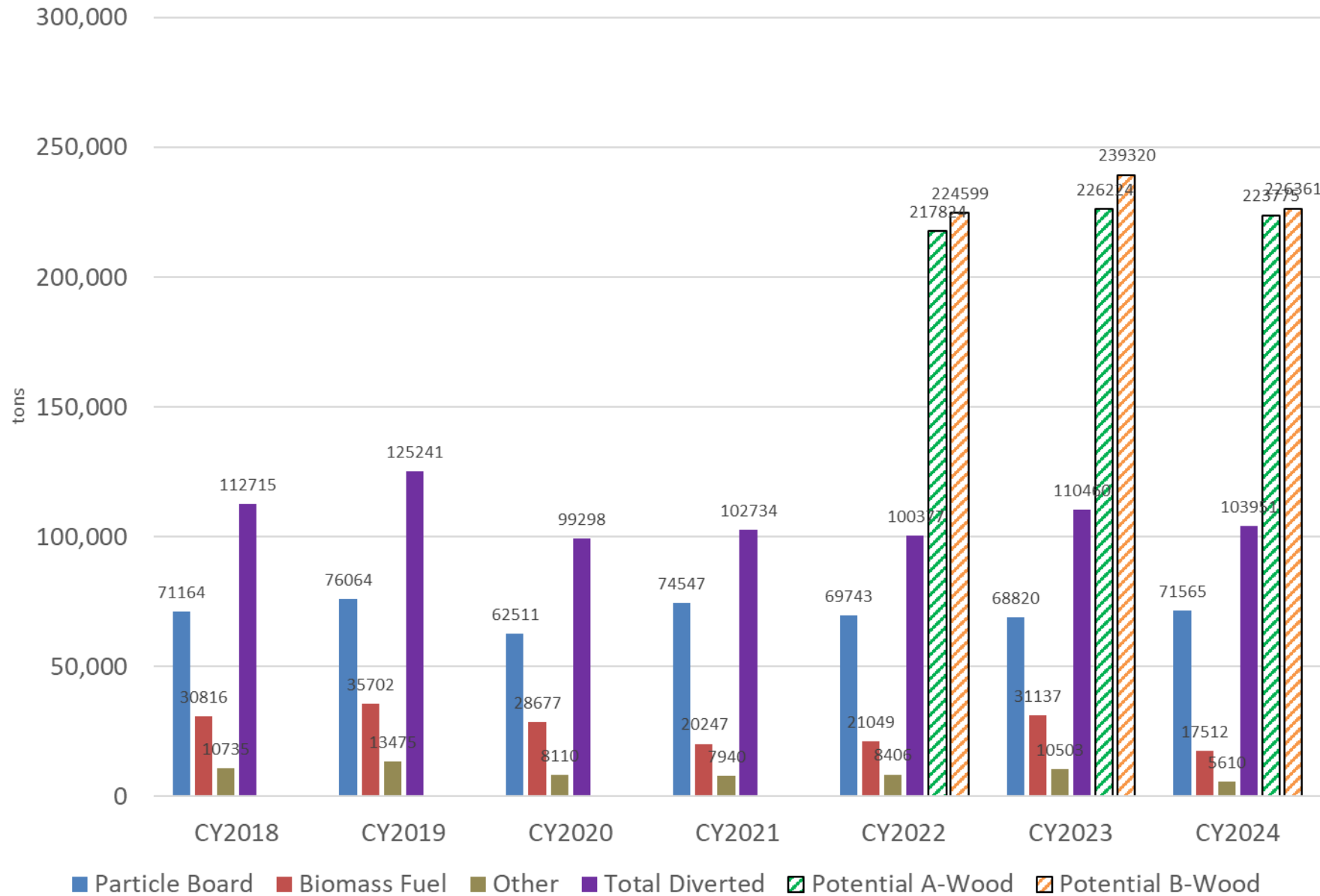




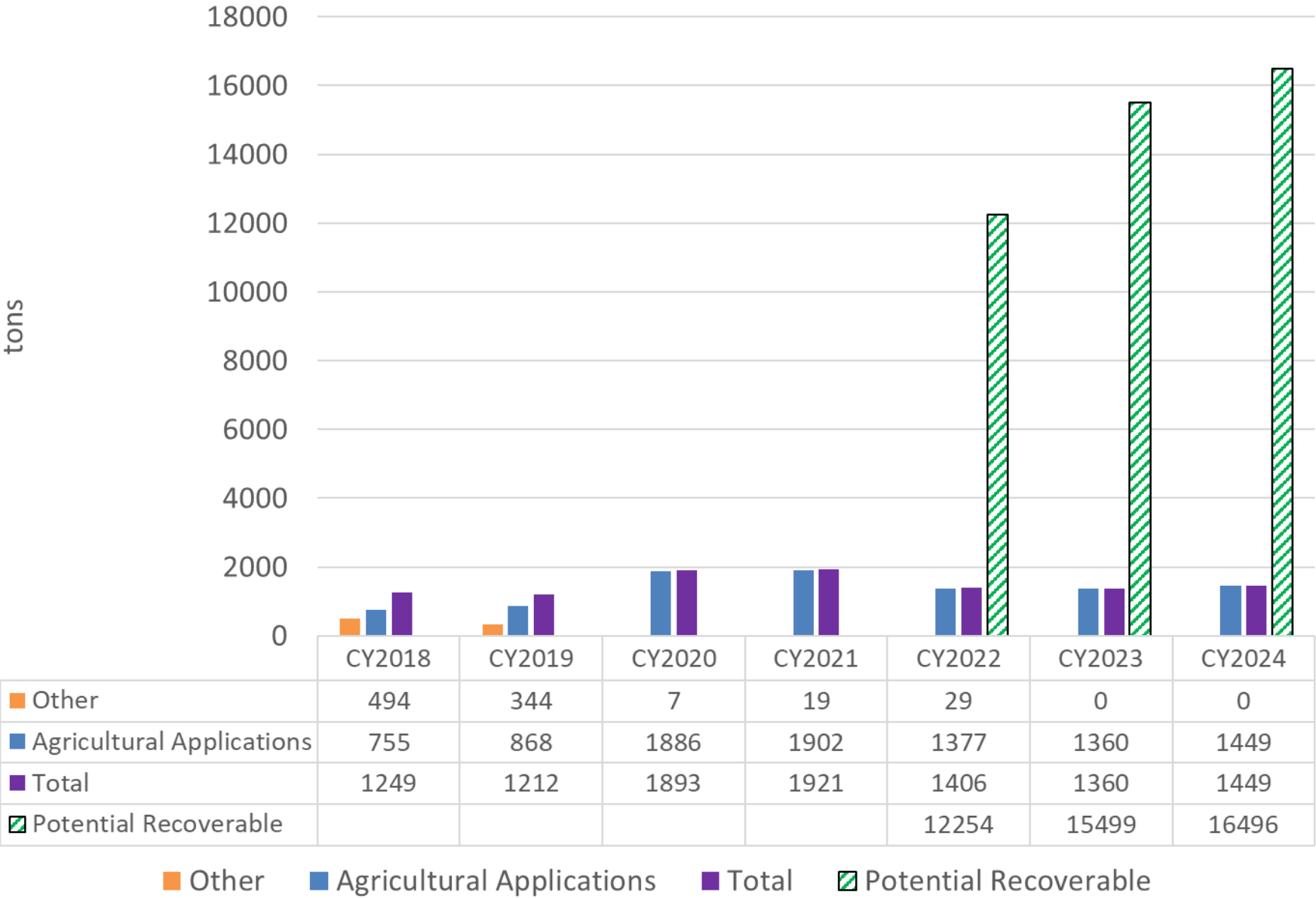
C&D Industry Recycling Rate/Process Separation Rate Trend Chart



Wood Products Trend Chart 2018-2024



Clean Gypsum Wallboard Recycling Trend Chart 2018-2024



Other materials separated in CY2024

In addition to ABC, Metal, Wood and Clean Gypsum Wallboard, C&D Handling Facilities also separated the following materials of note:

- Mattresses (newly added WB material in Nov-2022)
 - 1000 tons from 20 C&D Handling Facilities, went to following outlets:
 - 457t Green Mattress, Brockton
 - 176t Hands Up, New Bedford
 - 121t All Junk, Lawrence
 - 119t Casella-Willimantic, CT
 - 108t Superior Waste, Worcester
 - 19t UTEC, Lawrence
- Asphalt Roofing Shingles (Not a WB material)
 - 6502 tons from 7 C&D Handling Facilities, went to following outlets:
 - 2704t Rooftop Recycl., Boxborough
 - 2550t Carney Env., Raynham
 - 931t BRS, Bridgewater
 - 317t Patriot Recycling, Johnston, RI

C&D Facility MPS Compliance Status Update, Based on CY2024 Annual Reports

MPS Compliance Status of C&D Processors

Facility	Parent Company	City/Town	Criterion #1:	Criterion #2:	Overall MPS Compliance
			Separate all 4 C&D WB mat'ls (Y/N)	≥15% PSR min. threshold	(Y/N)
Casella-Holyoke TS	Casella	Holyoke	Y	17.5%	Y
Champion City Recovery	Win-Waste Innovations	Brockton	Y	16.1%	Y
Devens Recycling	Republic	Ayer	Y	16.1%	Y
E.L. Harvey C&D Processing	Waste Connections	Westborough	Y	23.4%	Y
K&W Materials & Recycling		West Springfield	Y	16.2%	Y
New England Recycling	Win-Waste Innovations	Taunton	Y	20.2%	Y
New England Waste Disposal	Win-Waste Innovations	Taunton	Y	18.7%	Y
Raynham Reg. SW Proc. Fac.	Waste Management	Raynham	Y	19.8%	Y
RWS-Roxbury	ReSource Waste Services	Boston	Y	25.8%	Y
Stoughton Recycling	Win-Waste Innovations	Stoughton	Y	16.2%	Y
TBI	Star Waste	North Andover	Y	15.8%	Y
UMM-Leominster	Win-Waste Innovations	Leominster	Y	18.9%	Y
UMM-Millbury	Win-Waste Innovations	Millbury	Y	18.2%	Y
Upper Cape Reg. TS	Cavossa	Sandwich	Y	16.4%	Y
Western Recycling	USA Recycling	Wilbraham	Y	24.5%	Y
Casella-Lenox TS	Casella	Lenox	Y	13.2%	N
ELH-New Bedford TS	Waste Connections	New Bedford	No Gypsum	14.7%	N
Trojan Recycling	Waste Connections	Brockton	Y	5.7%	N

Based on CY2024 C&D Facility Annual Report Data

MPS Compliance Status of C&D Transfer Stations

Facility	Parent Company	City/Town	Overall MPS Compliance
MPS requirement: transfer all C&D mat'ls to MPS compliant facility for further processing (after first separating clean gypsum WB)			Y/N
Bourne Large Handling Fac.	Town of Bourne	Bourne	Y
Harvey Recycling - Fitchburg	Waste Connections	Fitchburg	Y
Holliston TS	Reworld Transfer Systems (Covanta)	Holliston	Y
Oxford TS	Casella	Oxford	Y
S&J Exco TS		Dennis	Y
Wood TS/Allied Waste	Republic	Peabody	Y
ELH-Rochester (ZWS)	Waste Connections	Rochester	N (No gypsum)
ELH-Sandwich	Waste Connections	Sandwich	N (No gypsum)
RWS-Ware	ReSource Waste Services	Ware	N (No gypsum)
Valley Recycling		Northampton	N (No gypsum)

Based on CY2024 C&D Facility Annual Report Data

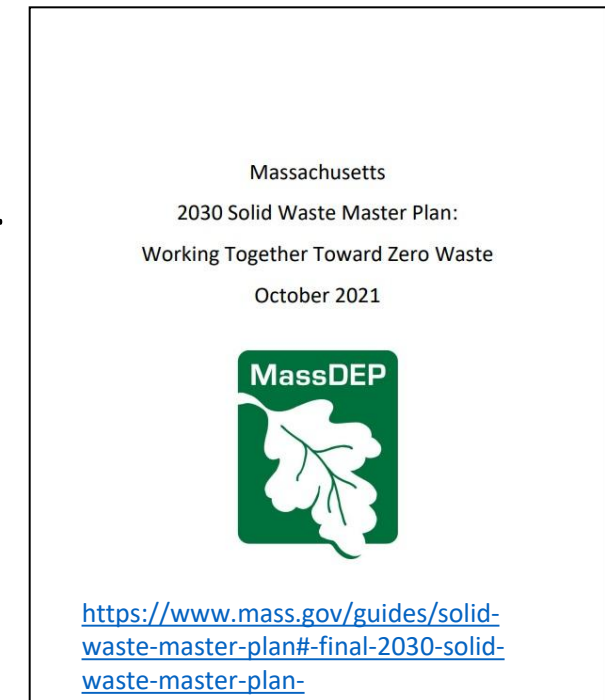
Enforcement for Failure to meet MPS

- MassDEP may exercise options under Enforcement Response Guidelines
 - Follow progressive discipline model to encourage improvement: NONs -> HLE
 - Require facility-specific Return-to-Compliance Plans as formal commitment to corrective actions
- During 2024
 - MassDEP issued 5 NONs, and initiated 1 HLE
 - 3 facilities continue to submit quarterly MPS progress reports
 - 1 facility continues to submit monthly MPS progress reports
- Continue to pursue enforcement of MPS/WBCP requirements

C&D Action Plan Mid-Course Assessment


Reason and Timeline for Mid-Course Assessment

- 2030 Solid Waste Master Plan (SWMP)
 - Establishes the Commonwealth's policy framework for reducing and managing solid waste that is generated, reused, recycled, or disposed by Massachusetts residents and businesses.
 - Proposes a broad vision and strategies for managing waste over the next decade and beyond
 - MassDEP committed to mid-course assessment by 2025
 - Evaluate and modify Action Plans contained within the SWMP
- C&D Action Plan:
 - Establishes tactical objectives to achieve the C&D waste reduction goals.
- Spring/Summer 2025:
 - Evaluate scope and progress of current C&D action plan
 - Solicit input and prepare draft updates
 - Conduct follow-up workgroup meetings as necessary
- Fall 2025:
 - Finalize updated C&D Action Plan



C&D Action Plan

- Establishes 4 main objectives
 1. Improve Jobsite Waste Management
 2. Enhance Collection & Processing
 3. Develop End Markets
 4. Promote State Inter-agency Cooperation to Advance “Leading by Example”



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

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2030 Construction and Demolition (C&D) Materials Management Action Plan

Updated: March 2023

Background

Beginning in the early 2000s, MassDEP launched the Construction and Demolition (C&D) Subcommittee to work with C&D material management industry stakeholders to develop waste bans for C&D materials to promote greater reuse and recycling of such materials. Working in close collaboration with that stakeholder group to ensure the availability of viable markets, MassDEP promulgated its initial C&D material waste bans on ABC, wood and metal in 2006. That was followed by adding clean gypsum wallboard as a waste ban material in 2010.

In the first few years after implementation of the C&D waste bans, the C&D facility annual report data showed an improvement in the recovery rate of banned materials. Initially, the recovery rates as compared to the tonnage of inbound mixed C&D waste improved rapidly from 14% in 2008 to over 30% in 2010. The statewide average recovery rate plateaued between 2010 and 2013 to around 25% and 30%. Since then, the recovery rate steadily declined as wood markets contracted, and C&D waste volume increased as a function of increased C&D activity over the same time period.

From 2016-2019, MassDEP again worked with the C&D Subcommittee to improve the operational efficiency of the 30 large C&D Handling Facilities to increase recovery rates, send more separated material to reuse and recycling end markets, and reduce the volume of residuals sent for disposal. During CY2019, the process separation rate at C&D processors ranged from less than 1% to about 46%. Better performance correlated, for the most part, with facilities that had invested in mechanical processing equipment and that incurred the added operating expense of fully staffed picking lines.

To address the historic limitations and variability of the C&D handling facility performance, MassDEP launched the C&D Minimum Performance Standard (MPS) in 2020. The MPS established measurable performance criteria that all Large C&D Handling Facilities now need to meet. The intent of the MPS is to level the playing field and ensure that all C&D waste loads are being sent to an MPS-compliant C&D facility for processing, and thus successfully removing and recovering banned materials from all C&D materials as required by the waste ban regulations.

This information is available in alternate format. Please contact Melissa Esenye at 617-426-1282.
TTY: MassRelay Service 1-800-439-2370
MassDEP Website: www.mass.gov/dep
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Objective 1: Improve Jobsite Waste Management

- Promote waste re-use, reduction and separation at the job site
 1. Technical assistance through RecyclingWorks
 2. Promote jobsite source separation, diversion and deconstruction
 3. Encourage conformance to Green Building Standards



Source: Michael Orbank – Structure Tone, CLF-Boston/NE

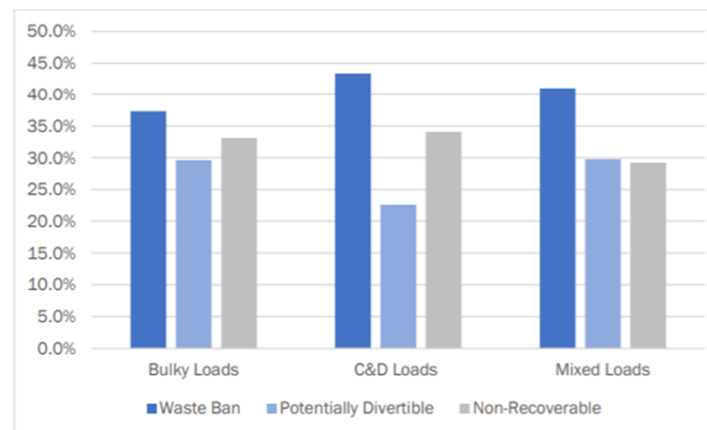
Objective 2: Enhance Collection & Processing

- Improve C&D Facility Performance
 1. Establish Minimum Performance Standards (MPS) for C&D Processors
 2. Provide financial investment to improve process efficiency and effectiveness (e.g. RLF, RBDG)
 3. Improve implementation of C&D waste bans: Clarify definitions and standards; improve enforcement of existing WB;s evaluate adding new WB materials

Incremental Increases in PSR Minimum Threshold (announced in July 2024)

- Schedule of incremental increases in PSR minimum threshold:
 - 2020 = 15% (effective 1/01/2020)
 - 2025 = 20% (effective 1/01/2025)
 - 2027 = 23% (effective 1/01/2027)
 - 2030 = 25% (effective 1/01/2030)

Figure 4-7 Comparison of Composition by Waste Type



Simplified PSR Sensitivity Analysis (for illustration only)

- Assume all quantities remain constant in PSR calculation except for quantity recycled/diverted
- Estimated amount of Recycled/Diverted material increases as a function of PSR increase
- Increase in Recycled/Diverted material quantities results in a commensurate decrease in material Disposed.
- Comparing estimated amount disposed against the 725k tons 2030 C&D waste reduction goal suggests that **C&D processing alone will not achieve goal.**
- **Need to pursue an “all-of-the-above” approach:** C&D processing, jobsite source separation, deconstruction, design for reuse/recycling, etc.

Industry-wide PSR	Recycled/Diverted Materials (tons)	Estimated Material Disposed (tons)	Comments
19.0%	283,513	1,264,513	Actually Achieved in CY2024
20.0%	300,000	1,248,026	Became Effective 1/01/2025
23%	345,000	1,203,026	Becomes Effective 1/01/2027
25%	375,000	1,173,026	Becomes Effective 1/01/2030
30%	450,000	1,098,026	Historically highest level achieved
40%	600,000	948,026	Requires new & expanded markets
50%	750,000	798,026	Requires new & expanded markets

Objective 3. Develop End Markets

1. Expand existing wood markets
2. Explore siting in-state energy generation facility that uses C&D biomass
3. Develop common C&D materials product specifications (improve reliability for end-markets)
4. Identify outlets for C&D Fines



Objective 4: Promote State Inter-agency Cooperation to Advance “Leading by Example”

- Optimize Regulatory/Policy Incentives
 1. Develop generic BUD for coated concrete
 2. Explore management standards for extended producer responsibility (take-back) programs (e.g. gypsum wallboard, carpet, etc.); promote optimal end-of-life re-use and product stewardship
 3. Promote interagency cooperation “leading by example”



Discussion

Announcements

Reduce, Reuse, Repair Micro-Grant

Applications due May 15 by 5:00 p.m. ET

For short-term reuse and repair projects.

Awards from \$3,000 – \$10,000.

For-profit, non-profit, and government entities eligible to apply.

Review [Grant Guidelines](#) before applying.

C&D-related project ideas from the guidelines:

- Pilot a deconstruction project involving one or more buildings.
- Promote recovery and resale of used building materials.

More information & link to apply:

<https://www.mass.gov/how-to/massdep-reduce-reuse-repair-micro-grant>

Waste Reduction Innovation Grant

To support new technology that expands recycling and reuse infrastructure in Massachusetts


Please refer to the webpage for additional details and how to apply.


<https://www.mass.gov/how-to/waste-reduction-innovation-grant>


Key Information	Category 1: Start-up/Pilot Projects	Category 2: Innovative Capital Investments
Award Amount	\$50,000 to \$100,000	\$500,000 to \$2 million
Required minimum match by applicant	25% of the requested amount	50% of the requested amount
Eligible materials	Any material diverted from solid waste disposal	Materials diverted from solid waste disposal, limited to: (a) Textiles, (b) Container glass, (c) C&D materials including but not limited to wood, gypsum wallboard, and asphalt shingles (but not mixed C&D processing), (d) Bulky items like furniture, carpet, and residential plastics, (e) Lithium batteries from household
Eligible grant funded costs	(a) Equipment or other capital costs, (b) Staff or consultant time directly relevant to the proposed project, (c) Use of internally generated materials already onsite (d) Feasibility study or design work (e) Marketing cost	Equipment or other capital costs
Project duration	18 months maximum from contract signing	36 months maximum from contract signing


Recycling & Reuse Business Development Grant


Next Round Summer 2025


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Apply for a Recycling & Reuse Business Development Grant

This program provides grants to Massachusetts businesses and non-profit organizations to expand recycling, reuse, and composting infrastructure in Massachusetts.

<https://www.mass.gov/how-to/apply-for-a-recycling-reuse-business-development-grant>

For More Information:

Point of Contact:

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Asbestos/C&D Program Coordinator

MassDEP – Bureau of Air & Waste

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Boston, MA 02114

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617-571-0824 (work cell)

- C&D Action Plan: <https://www.mass.gov/doc/cd-action-plan/download>
- C&D Materials Management webpage: <https://www.mass.gov/lists/managing-construction-demolition-cd-wastes>
- C&D Subcommittee Webpage: <https://www.mass.gov/info-details/massdep-construction-demolition-subcommittee>