MassDEP Updates Solid Waste Advisory Committee John Fischer June 2021



Capacity Issues

- MassDEP aware of tight solid waste management capacity
 - Increased post-COVID waste generation
 - High seasonal generation
 - Disruptions in truck and rail transfer operations
 - Drivers and trucks
- Limited short-term options
 - Encourage continued communication with MassDEP

Solid Waste Master Plan

- Expect to release Final 2030 Plan soon
- Will schedule SWAC briefing once we know the release date
- Watch for a Save the Date email

Waste Ban Regulations

- Also close on final waste ban regulations
- Can't speak to details of final regulations until final regulations submitted
- However, effective date will be pushed back
- Expect to allow one year from promulgation to effective date
- Once finalized will shift focus to implementation & outreach
- Will have Organics Subcommittee meeting and discussions on textiles and mattresses

Grant Updates

- SMRP "Round 2"
 - In May, awarded \$1.3 million to 34 municipalities, regional groups and non-profits
- Recycling Dividends Program/Small Scale
 - Released application in May
 - Applications due July 14th
- Recycling Business Development Grants
 - Next round of awards in process
 - Will make announcement once contracts finalized
 - Expect to issue next application Fall 2021

Questions

• John.fischer@mass.gov



Solid Waste Advisory Committee

Virtual Meeting – June 24, 2021

Reduce & Reuse (R&R) Working Group Update Erin Victor, MassDEP

Recap of R&R Workgroup Progress



Barriers and Strategies to Reduce & Reuse

MassDEP held 10 meetings of the Reduce & Reuse (R&R) Working Group between March 2020 and January 2021. More than 320 individuals participated in these meetings and the collective input from these discussions were summarized:

Summary of Barriers:

<u>https://www.mass.gov/doc/summary-of-barriers-from-2020-working-group-meetings/download</u>

Summary of Strategies:

<u>https://www.mass.gov/doc/summary-of-strategies-from-2020-working-group-meetings/download</u>

Criteria	Scale
Impact If this initiative is successfully implemented, how impactful will it be towards achieving our waste prevention and reuse goals?	High- Medium- Low
Feasibility What is the probability that the initiative will be successfully implemented and adopted given institutional and cultural barriers?	High- Medium- Low
Stakeholder Support What is the level of stakeholder Support for this initiative?	High- Medium- Low

MassDEP Reduce & Reuse Action Plan

Background

In the 2030 Solid Waste Master Plan, the Massachusetts Department of Environmental Protection (MassDEP) established the Commonwealth's policy framework for reducing and managing the solid waste generated by Massachusetts residents and businesses over the next decade (2020-2030). Setting aggressive waste reduction goals (Figure 1) to guide Massachusetts towards a zero-waste future, MassDEP analyzed waste characterization data to help set priorities for reaching these waste reduction goals most effectively and efficiently.



Figure 1 Massachusetts Waste Reduction Goals established in the 2030 Solid Waste Master Plan

Draft Reduce & Reuse Action Plan

https://www.mass.gov /doc/draft-reducereuse-action-planapril-2021/download



EDUCATION/BEHAVIOR CHANGE



TOOLS, RESOURCE, & TECHNICAL ASSISTANCE



GRANTS/FINANCIAL INCENTIVES:

R&R Action Plan Organization



JOB TRAINING/ WORKFORCE DEVELOPMENT



NETWORKING



LEGISLATION



PROCUREMENT



Timeframe	Definition	Icon	St
Short Term	1-2 years		Co
Medium Term	3-5 years		In
Long Term	6-7 years		N

Status	lcon
Completed	
Ongoing	8
In Progress	
Not Started	\bigotimes

Figure 3. Timeframe and Status icons used throughout the Reduce & Reuse Action Plan

Education/Behavior Change

A common theme discussed in the MassDEP Reduce & Reuse Working Group is the lack of knowledge, attitudes, or behaviors that would support a greater cultural adoption of waste prevention, reuse, repair and sharing practices in Massachusetts. The following actions are intended to address this barrier by bolstering awareness and knowledge throughout the state of the benefits of reuse and facilitating easier access to finding local reuse opportunities.

Action	Timeframe	Status	Notes
Develop a state-wide education campaign around best practices for reducing waste, increasing reuse and repair, and extending product lifespans		-	While focused primarily on recycling, the <u>Recycle Smart MA</u> initiative occassionally addresses waste reduction, reuse, and repair topics through social media channels and the monthly newsletter. MassDEP will explore how to build off this pre-existing initative to increase state-wide education around waste prevention and reuse.
Develop an online reuse directory to better connect residents with reuse/repair/share resources across the state	>>	⊗	This directory will expand upon the pre- existing <u>Beyond the Bin</u> search directory and Recycling Work's <u>Find-A-Recycler</u> tool to include local retailers who provide repair, share, rental services.
Create or promote an online calculator to quantify the environmental, social, and economic benefits of reuse		⊗	In Winter 2021, MassDEP partnered with a graduate student project team at Tuft's University Urban and Environmental Policy and Planning (UEP) program on an economic analysis of the reuse sector which will be used to inform development of the online calculator

	Action	Timeframe	Status	Notes
& Technical Assistance it organizations, K-12 schools, Co greater support for starting or su DEP <u>Green Team, Recycling Work</u> tment resources, the following a l assistance that would support i	Expand project planning and materials management guidelines for optimizing reuse in deconstruction and new construction/renovation of buildings including K-12 school construction, commercial construction, and residential/home construction projects		<u>∞</u>	MassDEP has developed guidance around <u>K-12 school furniture reuse</u> and as well as <u>best management practices</u> for business and institutional furniture and equipment through the Recycling Works program. Recycling Works further provides resources and technical assistance for <u>commercial construction projects</u> separating materials for reuse.
	Promote local repair and reuse events, library of things, tool lending libraries, and swap shops		00	MassDEP started incentivizing local repair and reuse events, library of things/tool lending libraries, and swap shops through SMRP <u>Recycling Dividends</u> <u>Program Funds</u> in 2019 and provides resources for municipalities interested in starting these reuse programs on the MassDEP <u>Municipal Reuse & Repair</u> <u>Programs</u> webpage.
	Provide guidance, technical assistance, and start-up funding to assist restaurants, colleges, and universities switching from single use to reusable food ware systems			In December 2020, Recycling Works MA developed a guide for <u>Reducing Waste</u> <u>From Restaurant Takeout and Delivery</u> <u>Meals</u> As of April 2021, MassDEP has also provided grant funding through the <u>Reduce, Reuse, Repair Micro-Grant</u> to support a business starting up a reusable cup program, elimination of individual plastic-wrapped baked goods in a K-12 school, and a local brewery switching to reusable stainless steel cups for use in their outdoor patio. MassDEP will share lessons learned from these projects with other businesses and institutions to encourage more widespread adoption of these practices.
	Identify and share model ordinances and bylaws focused on waste prevention and reuse, including: • food service ware ordinances that reduce the use of single use		⊗	MassDEP will gather information on ordinances from other parts of the country and share those that have the best fit for Massachusetts municipalities.

packaging

🖌 Tools, Resources

Reuse non-profit and for-profi have expressed the need for g programs. Through the MassD Coordinators and other depart resources, tools, and technical

 historic preservation ordinances stipulating deconstruction and reuse mandates in building projects model procurement policies focused on buying durable, repairable, and refurbished/remanufactured goods 		
Provide guidance for municipalities, non-profits, businesses, multifamily residences, and park and recreation facilities to address illegal dumping outside of donation bins and at donation centers	•	Continue to support the MassDEP Strike Force Anti-Dumping Surveillance initiative. Guidance may include identifying and sharing model ordinances/bylaws to regulate placement and management of textile drop-off/donation bins to decrease the likelihood of illegal dumping.
Identify and promote (or pilot) furniture, fixture and equipment leasing models to reduce ongoing purchase and disposal of durable items during temporary housing situations like at college and universities	⊗	MassDEP works closely with colleges and universities through a College and University Forum and newsletter through the RecyclingWorks program. MassDEP also partners with the Massachusetts Leading by Example program to deliver assistance to state colleges and universities.
Identify a partner(s) to help foster a refillable 1 lb propane gas cylinder program in MA	⊗	This program would address small disposable propane tanks used for camping, portable heaters, lanterns, lawn care equipment, etc. These 1lb propane cylinders pose a major fire hazard and safety concern for waste workers. The refillable program would be modeled after " <u>ReFuel Your Fun</u> " program in California.
Identify and share best practices for businesses adopting reusable transportation packaging systems • Provide technical assistance for businesses interested in adopting reusable models	⊗	MassDEP will deliver assistance and guidance through the RecyclingWorks program.

🖆 Grants & Financial Incentives

In addition to providing resources, tools, and technical assistance, many organizations expressed the need for financial support for starting up reduction/reuse initiatives. The following grants and financial incentives are intended to help meet this need.

Action	Timeframe	Status	Notes:
Provide local businesses, NGOs, and municipalities financial assistance for waste reduction and reuse projects		<u>∞</u>	Mass DEP supports NGOs and municipal waste reduction projects through the Sustainable Materials Recovery Program. MassDEP's <u>Reduce, Reuse, Repair Micro- Grant</u> provides funding for businesses, NGOs and eligible municipalities for short-term waste reduction and reuse projects. The <u>Recycling Business Development</u> <u>Grant can target reuse activities for</u> <u>target materials for example</u> furniture reuse has been an eligible grant category.
Incentivize reuse programs through municipal Recycling Dividends Program Funds, including: adding model reuse ordinances and bylaws to RDP criteria encouraging more frequent community donation/reuse opportunities to increase local accessibility of reuse		∞	In 2019, MassDEP added four municipal reuse programs that were eligible for earning <u>Recycling Dividends Program</u> <u>Funds</u> – Swap Shops, Repair Events, Reuse Events, and Libraries of Things/Tool Libraries.
Continue to incentivize <u>Pay As You</u> <u>Throw (PAYT) and Save-Money-And-</u> <u>Reduce-Trash (SMART) Programs</u>		00	MassDEP offers municipalities grant funds for implementing PAYT/SMART programs through the <u>Sustainable</u> <u>Materials Recovery Program</u> as well as financial incentives to adopt PAYT/SMART programs through <u>Recycling</u> <u>Dividends Program Funds</u> .
Promote residential deconstruction and reuse project(s) in home construction and remodeling to increase reuse and donation of building materials and encourage use of C&D material reuse stores		⊗	This would build of the current Recycling Works MA resources and technical assistance for <u>commercial construction</u> <u>projects.</u>

Job Training & Workforce Development

Throughout MassDEP Reduce & Reuse Working Group discussions, a lack of access to and retention of a skilled and semi-skilled workforce was one barrier that reuse organizations expressed limited their capacity to repair, refurbish, transport, and/or process more items for reuse.

Action	Timeframe	Status	Notes
Support the development or expansion of training programs for repair and refurbishment of durable goods to foster a culture of repair and support workforce development in the repair sector		⊗	MassDEP will seek to connect with K-12, Voc Tech Schools, Non-Profit, Social Enterprises and other organizations to support existing training programs or the development new programs focused on repair and refurbishment skill development
Coordinate with other state agencies to leverage existing or pilot new workforce development and training programs supporting repair, refurbishment, resale, and reuse job skill development and organizations in Massachusetts		⊗	MassDEP will reaching out to the Department of Elementary and Secondary Education and Executive Office of Housing and Economic Development's workforce development program identify opportunities to develop training programs or leverage existing programs that support repair and reuse skills and organizations.
Identify and partner with an organization offering a job training program(s) for home deconstruction		8	MassDEP will seek to identify existing programs that could provide these training resources.
Partner with K-12 schools, colleges & universities to develop and offer courses on "design thinking" and "design challenges" focused on product durability, repairability, and reuse		⊗	In particular, MassDEP will work with state colleges and universities, including promoting existing offerings.

Networking

Without a dedicated association for reuse and repair businesses and non-profits, there is a lack organization and coordination amongst reuse organizations in Massachusetts. One way that MassDEP can help address this is by continuing to facilitate and offer networking opportunities for organizations involved in reuse.

Action	Timeframe	Status	Notes
Facilitate information sharing and networking opportunities amongst reuse stakeholders		00	Starting in March 2020, MassDEP launched <u>a Reduce & Reuse Working</u> <u>Group</u> to regularly bring together reuse stakeholders from across the state to help develop the MassDEP Strategic Reduce and Reuse Action Plan. MassDEP will continue to convene this working group moving forward to provide opportunities to network and share information amongst reuse stakeholders. Additionally, MassDEP has set up a <u>Reduce & Reuse Network Listserv</u> (Google Group) that provides a means for people to share waste prevention and reuse resources, ideas, best practices, fact sheets, and more.
Foster partnerships between commercial contractors and architects to support greater adoption of building material and Furniture, Fixtures & Equipment (FF&E) reuse and recycling in construction projects		-	This work would build off the existing <u>Recycling Works MA</u> guidance and outreach around Construction & Demolition reuse in <u>commercial</u> <u>construction projects.</u>

▲ Legislation

Local, state, and federal policies that inhibit reuse and repair as well as legislation that could bolster reuse and repair were brought up frequently by stakeholders in the Reduce & Reuse Working Group discussions.

Action	Timeframe	Status	Notes
 Work with the Legislature to advance waste prevention and reuse legislation, including: Extended Producer Responsibility (EPR) systems for packaging and electronics A state-wide ban on plastic bags and polystyrene take-out containers Right to Repair Legislation Incentivize the purchase of secondhand items through a sales tax exception for a set day or week each year 			
Consult with the Massachusetts <u>Department of Public Health</u> to advocate for identifying and removing barriers in state public health codes and local Board of Health (BOH) codes that limit or prevent use of reusable service ware and take-out food containers at food establishments		⊗	MassDEP has worked with DPH and local health officials to develop guidance on similar issues related to food waste collection and food donation. Through this approach, we would work to identify and remove these barriers while ensuring sound public health practices.

Procurement:

Government procurement is a powerful tool for modeling and leading positive change. Through model procurement policies at both the state and local level, the Commonwealth of Massachusetts can help drive greater demand for refurbished, durable, and repairable products, both minimizing the environmental impacts of state government and supporting these vital and often local businesses.

Action	Timeframe	Status	Notes
Partner with Massachusetts Operational Services Division (OSD) Environmentally Preferable Products and Services (EPP) program and the Leading by Example (LBE) program to create procurement policies that drive demand for refurbished, durable, and repairable products at the state and local level		0	Several vendors on the <u>OFF28: Office</u> , <u>School and Library Furniture, Accessories &</u> <u>Services</u> state contract offer remanufactured/reconditioned/refurbished furniture.

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Number of organizations and municipalities requesting and supported (grant awards and technical assistance)



Total grant money requested and awarded to reduce/reuse initiatives









Number of RecyclingWorks hotline calls related to waste prevention and reuse (indicator of demand) Number of Recycling Loan Funds requested and total loan funding provided to reduce/reuse related activities Develop measurements to determine the success of networking opportunities, training opportunities, and procurement policies developed as a result of this Reduce & Reuse Action Plan

Outcome Measures

(Lagging Measures) Grant program results (project specific) from the Reduce, Reuse. Repair Micro-Grants and relevant RDBG and SMRP Grants

- Municipal program access to Library of Things/ Tool Lending Libraries, repair events, swap shops, and zero waste events
- Survey of resident's attitudes and behaviors related to reduce and reuse
- Economic "health" of the reuse sector (Number of reuse businesses, employees, and revenue)
- Reduction in overall waste disposed in alignment with the Solid Waste Master Plan goals and reduction of disposal of priority materials based on waste characterization studies

Strategy	Timeframe	Sector	Priority Material	Tool	Status	Notes	
Support businesses switching to reusable transportatio n and distribution systems through the RBDG Grant.	Short Te	Busine NGO	Transpor Single Us	Grant Fu	Complet	In RDGB 2021 Application released April 2021, reusable transportation packaging was added one of the grant priorities. MassDEP received 4 grants related to this and awarded 2 of them for a total of \$500,000	
Launch Reuse Smart MA educational campaign	Mid-ter	Gener	Househol Electronics Single Us Textiles	Best Pra	In Progr	MassDEP currently has a RFP out for a marketing vendor to help support the launch of a Reuse Smart educational	
euse / Living						imilar to the mart program	
textiles							
Develop model ordinance for local municipalities	Long ter	Munici	Building	Legislation Best Pra	Not Star	MassDEP is currently looking at model ordinances in passed in other states	

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Tentative 2021 R&R Working Group Schedule





Next Steps:

• Draft Reduce & Reuse Action Plan

https://www.mass.gov/doc/draft-reduce-reuseaction-plan-april-2021/download

 Link to Input Form: <u>https://forms.office.com/Pages/ResponsePage.as</u> px?id=Fh2GPrdIDkqYBowE2Bt7KIJz5CPph_hLsedR <u>nx2TmaZURERYWFRBREsyTIUwRUpVNk1ZVUc5W</u> <u>EdWTC4u</u>

Accepting Input through July 15, 2021

Reduce & Reuse Micro-Grants

This grant program provides small amounts of funding (up to \$5,000) for eligible for-profit and non-profit organizations for innovative, short term waste reduction initiatives. Initiatives must focus on promoting source reduction, reuse, or repair in Massachusetts.

Micro-Grant Online Application Grant Guidelines

Still have questions?

Contact Erin Victor at <u>erin.victor@mass.gov</u> or Janice Paré at <u>janice.pare@mass.gov</u>



2021 Tufts UEP Field Project

- The reuse economy in Massachusetts generates about \$7.3 Billion each year or \$1,067 per capita per year.
- Based on 2020 data, there are 6,438 secondhand retail, repair, and rental businesses in MA.
- These businesses make up nearly 2 percent of all statewide businesses and about 1 percent of employment (32,828 jobs).
- See Full Report: <u>https://www.mass.gov/doc/no-</u> <u>waste-to-spare-an-economic-</u> <u>spatial-analysis-of-massachusetts-</u> <u>reuse-economy-may-</u> <u>2021/download</u>

C&D MINIMUM PERFORMANCE STANDARD UPDATE

C&D Minimum Performance Standard Goals and Objectives

Simply put...

Ensure that every ton of C&D debris is processed at an MPS-compliant facility

- Level the playing field for all facilities
- Recover maximum value from recyclable/re-usable materials
- Separate all waste ban materials
- Minimize tonnage sent for disposal "Reduce Leakage"

C&D MPS Performance Criteria

- C&D MPS performance criteria:
 - 1. Achieve a 15% Process Separation Rate (PSR) minimum threshold;
 - 2. Demonstrate that all banned materials are separated to the greatest extent possible.
- Failure to satisfy either performance criterion constitutes a failure to comply with Waste Ban Regs and Waste Ban Compliance Plan
 - Cannot dispose or arrange for disposal of any C&D materials

Pathways to Compliance

- 3 options:
 - Improve operational performance to meet MPS
 - Transfer C&D materials to MPS-compliant facility for further processing
 - Accept C&D Residuals for disposal from MPScompliant facilities

C&D MPS Implementation Plan

- 2017-2019
 - Discussed proposed MPS at numerous C&D Subcommittee Meetings
- CY2020
 - C&D MPS went into effect (1/01/2020)
 - MassDEP published Guidance and FAQs
 - MassDEP issued RFI letters
- CY2021
 - Facilities submit CY2020 annual report data (2/15/2021)
 - MassDEP analyzed MPS facility status; issued Preliminary MPS Status letters (6/10/2021)
 - MassDEP starts progressive enforcement (ca. 8/01/2021)

Preliminary MPS Status based on CY2020 Operating Data

MPS Status	C&D Processors	C&D Lg. Transfer Stations
MPS Compliant – Meet both Performance Criteria	7	1
Meet Only Criterion #1 (PSR Min. Threshold)	2	3
Meet Only Criterion #2 (Sep. all 4 C&D WB Mat'ls.)	2	2
Fail to Meet Either Criterion	7	7

Process Separation Rate (PSR) Distribution

Based on Preliminary CY2020 C&D Facility A.R. Data Analysis

18 C&D Processors

13 Lg. C&D Transfer Stations



Favorable Improvements

- Installed New Processing Line
 - Western Recycling (120 OBRRC)
- Intend to Install new processing lines
 - NEWD (Submitted permit mod)
 - UMM-Leominster (Permitted in ATO approval)
 - Trojan Recycling (Conceptual Design Stage)
- Installed mechanical equipment to increase wood sep.
 - Recycling Solutions Raynham (RRSWPTS)
- Improved PSR operational performance
 - Casella Holyoke TS
 - Lenox Valley WTF
- Increased hours of operation
 - RWS Roxbury (formerly ReEnergy)
- Installed Containers to separate more WB materials
 - CCR-Brockton

CLARIFICATION OF SPECIFIC ISSUES

Clarification of Specific Issues

- Separated C&D Wood as "Diverted Material"
 - Must meet secondary market recycling spec with no further processing (other than size reduction)
- Management of Bulky Waste
 - MSW: manage as "failed-load" if above action level
 - C&D: Expectation is that all waste ban materials will be removed from these loads
- Stockpiling of ABC
 - facility can take no credit for stockpiled ABC until it is crushed and put to some type of legitimate reuse as aggregate
- Clean Gypsum Wallboard
 - separate clean gypsum wallboard prior to transferring or processing C&D loads (per May-2013 Guidance)

NEXT STEPS

MPS Compliance Plans

- June-2021: MassDEP issued Preliminary CY2020 MPS Status Letters
- July-2021: Facilities respond to Preliminary CY2020 MPS Status Letters
 - If MPS non-compliant
 - Submit plan to achieve and demonstrate compliance by year-end
 - Get approval from regional SWM Section Chief
- July-2021: MassDEP issues Final CY2020 MPS Status Letters
- Aug-2021: MassDEP publishes summary table of MPS status of individual facilities

Compliance & Enforcement

Starting August-2021:

- For MPS non-compliant facilities with no approved plan to achieve and/or demonstrate compliance by year-end
 - MassDEP may conduct compliance inspections
 - Based on findings, MassDEP may exercise progressive enforcement actions under Waste Ban Regulations
 - Return-to-Compliance conditions will address all deficiencies including MPS compliance

C&D MPS Resources

The following resources can be found on the MassDEP webpage...

- Minimum Performance Standard for C&D Handling Facilities: <u>https://www.mass.gov/doc/minimum-</u> <u>performance-standard-for-construction-</u> <u>demolition-handling-facilities/download</u>
- C&D MPS Q&A Guidance: <u>https://www.mass.gov/doc/frequently-asked-</u> <u>questions-faq-minimum-performance-standard-</u> <u>for-cd-handling-facilities/download</u>

For More Information:

Point of Contact:

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MassDEP C&D Subcommittee Webpage:

https://www.mass.gov/service-details/massdepconstruction-demolition-subcommittee

MARKET DEVELOPMENT WORKING GROUP MEETINGS

Kick Off Meeting: Fall 2021

Market Development

Goal: Foster in-state market development for reusable, recyclable and compostable materials

Target materials: Food materials, furniture and other bulky materials, glass, textiles

Strategies: Work with stakeholders to develop comprehensive market development plan