APPENDIX

PRINCIPLE	MODEL CONDITIONS	MODEL OUTPUTS	CONNECTICUT	MAINE	MASSACHUSETTS	NEW YORK	VERMONT	REGIONAL
Accessible & Accour								<u> </u>
1. Easy and Equitable	Guaranteed access to a redemption point within 5 miles for rural residents, 2 miles for urban residents (½ mile for New York City)	# redemption spots / person	1,297	1,620	2,020	1,325	870	1,400
2. 90% Collection Rate	90% enforced collection rate target, 85% reduction in beverage container litter ¹	% change in recycled tonnage of beverage containers	65% to 92%	89% to 94%	65% to 92%	57% to 90%	76% to 93%	63% to 90%
		Increased landfill diversion (tonnage)	63,301	3,893	130,102	258,132	7,412	462,740
		Avoided greenhouse gas emissions (no bag drop scenario)	71,700 MTCO2e	6,900 MTCO2e	138,000 MTCO2e	331,900 MTCO2e	8,300 MTCO2e	556,800 MTCO2e
		% overall reduction in litter	Up to 34%	Up to 34%	Up to 34%	Up to 34%	Up to 34%	Up to 34%
3. \$0.10 Minimum Deposit	\$0.10 minimum deposit unless pre-existing deposit is higher; \$0.05 deposit for nipsz	# nips diverted from disposal or litter	9 million	3.5 million	17 million	44 million	900,000	74.4 million
4. Inclusive, Circular System	95% of beverage container types included	# additional beverage containers recycled	1.2 billion	128 million	2.4 billion	5.4 billion	176 million	9.3 billion
		Material available to meet recycled content goals (before / after)	153k tons / 218k tons	77k tons / 81k tons	308k tons / 438k tons	810k tons / 1.1 m tons	33k tons / 41k tons	1.4 m tons / 1.9 m to
Industry Financed								
5. Producer Funded	Proprietary bottom-up activity-based costing calculation for each step in the DRS process including: space, retail labor, RVM purchase and maintenance, redemption center overhead, receptacle collection costs, redemption center labor, collection costs, counting costs, sorting costs,	Total estimated cost of the system, net of material revenue and partial unclaimed deposits: • Without bag drop • With bag drop	\$27.4 million / \$33 million	\$43 million / \$44 million	\$69 million / \$82 million	\$454 million / \$475 million	\$16.7 million / \$17 million	\$610 million / \$651 million
	centralized administration and oversight; offset by material revenue costs and partial possession of unclaimed deposits	Per container cost (without bag drop)	1 cent	3.6 cents	1.1 cents	2.5-3.3 cents*	2.9 cents	2.9 cents
6. Fair Pay for Service Providers	On average, collecting and sorting for recycling 1,000 tons of material through a DRS creates 7.9 jobs while the collection, transfer, and landfill operations of the same amount material being disposed creates 1.4 jobs ²	Total additional jobs created by modernized DRS	381	16	785	1,526	43	2,751
7. Financial Support for Municipal Recycling Programs	 Analysis reflects: Decrease in material collected Decrease in material processed at a MRF or disposed Decrease MRF revenue / tip fee increase Decrease MRF marketability on remaining material Decrease litter costs 	Total cost savings in municipal budgets	\$11.5 million – \$17.7 million	\$900,000 – \$1.2 million	\$26.7 million – \$36.5 million	\$70.9 million – \$100.9 million	\$1.5 million – \$2 million	\$111.5 million – \$158.3 million
Well Managed & Reg	gulated							
8. Clear System Standards and Functions	Producers retain unredeemed deposits up to 10% of total containers. At a 70% redemption rate, the state would retain 2/3 unredeemed deposits, at 80% redemption rate the state would retain ½ unredeemed deposits	Value of unredeemed deposits available to state during phase in (\$m / per year)	\$31.4 million – \$63.9 million	\$12.9 million	\$62.1 million - \$126.3 million	\$170.9 million - \$348.8 million	\$6.1 million – \$12.5 million	\$283.4 million - \$564.4 million
9. Producer Reporting on Units Sold	All containers counted and verified through technology to ensure accurate reporting and mitigate fraud	Retailer percent of modeled redemption points	Retail: 69% Redemption centers: 31%	Retailers: 94% Redemption centers: 6%	Retailers: 99% Redemption centers: 1%	Retailers: 84% Redemption centers: 2% Building RVMs: 14%	Retailers: 96% Redemption centers: 4%	Retailers: 89% Redemption centers: 2% Building RVMs: 9%
10. Government Oversight and Enforcement	State agency's role could include reviewing producer submitted data and plans and carrying out audits	Allocation to state agencies for oversight (\$M)	\$5.1 million	\$3.3 million	\$9.2 million	\$24 million	\$2.6 million	\$44 million

1 - "National Litter Study", Keep America Beautiful. 2021 https://kab.org/litter-study/.

2 - Morris, Jeffrey and Clarissa Morawski. "Returning to Work." Container Recycling Institute. December 2011. http://productstewardship.net/sites/default/files/PDFs/libraryContainers-Jobs-CRI-Morawski-Morris-Dec2011.pdf

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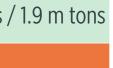


























 st cost per container is 2.5 for New York City and 3.3 cents for the rest of New York state