A 21st Century Beverage Container Deposit Program for Maryland's Economy and Environment

COG Recycling Committee January 28, 2016



Question:

What program would...

- Triple the recycling rate for beverage containers?
- Reduce litter by as much as two-thirds?
- Reduce the costs to taxpayers of trash and recycling collection, landfilling, and incineration?
- Improve water quality, reduce greenhouse gas emissions, save energy, and reuse valuable resources?
- Raise property values and promote tourism?
- Increase the income of the destitute and help charities raise funds?

While NOT raising taxes or government deficits?

Answer:

The Maryland Redeemable Beverage Container Recycling Refund and Litter Reduction Act!

(aka the "bottle bill")

The Problem

- More than 4 billion beverage containers are sold in Maryland every year; only a little more than one billion are actually recycled and reused
- 3 billion beverage containers are being introduced into Maryland's environment every year as litter, in landfills, or incinerated about 500/capita/year!
- In Prince George's County, this amounts to 450 million containers annually left in the environment. In Montgomery, 515 million.

Great Blue Heron navigating the Anacostia



Bottles and cans are roughly half of litter collected, by volume, in the Nash Run trash trap



Source: Anacostia Watershed Society

Baltimore Harbor



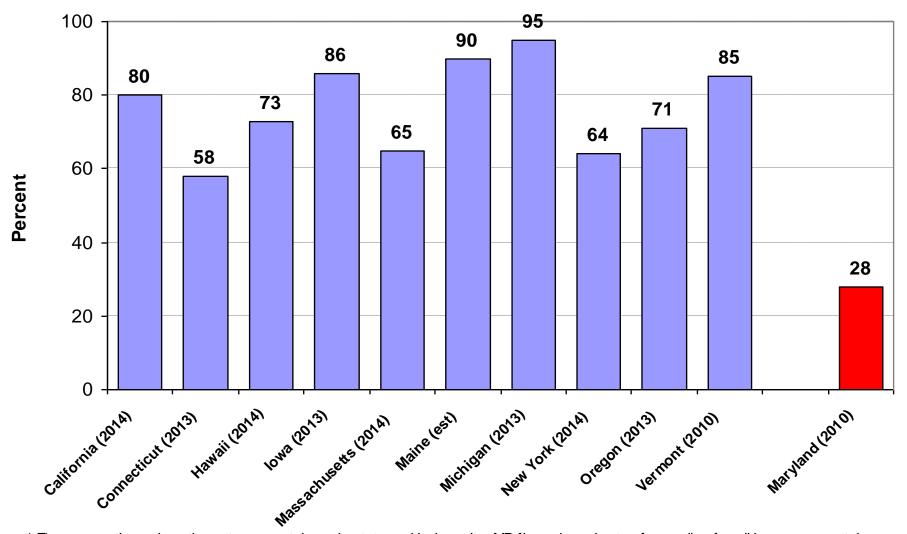
Recyclable Beverage Containers are in the landfill – a waste of valuable resources

Trash sort results for beverage containers, Prince George's County, 2014-2015

	Percent of solid waste, by weight			Tono delivered
Container type	Residential	Commercial	Public Schools	Tons delivered to the landfill/year
PET bottles	2.0	2.1	3.6	6,300
Aluminum cans, foil	1.0	0.7	2.3	2,700
Glass bottles, jars	3.4	2.3	8.1	9,900
TOTAL	6.4	5.1	14.0	18,900

Source: Waste Characterization Study, Summary of Results 2014/2015, Nov. 23, 2015. SCS Engineers, commissioned by the DER, Waste Management Division, Prince George's County Note: It is likely that a significant amount of commercial waste is disposed of at facilities other than the Brown Station Landfill. No information was available on the share of beverage containers by volume

Recycling rates for beverage containers are three times higher in states with a deposit! *



^{*} Figures are the redemption rate on containers in states with deposits. MD figure is estimate of recycling for all beverage containers. Source: Container Recycling Institute.

How would the Maryland bottle bill work?

- Consumers, retailers, distributors pay a 5-cent refundable deposit on aluminum, glass, and plastic beverage containers, creating an incentive to recycle & pick up litter
- Containers are returned to retailers with <u>reverse vending machines</u> or to other redemption centers, and the deposit is refunded.

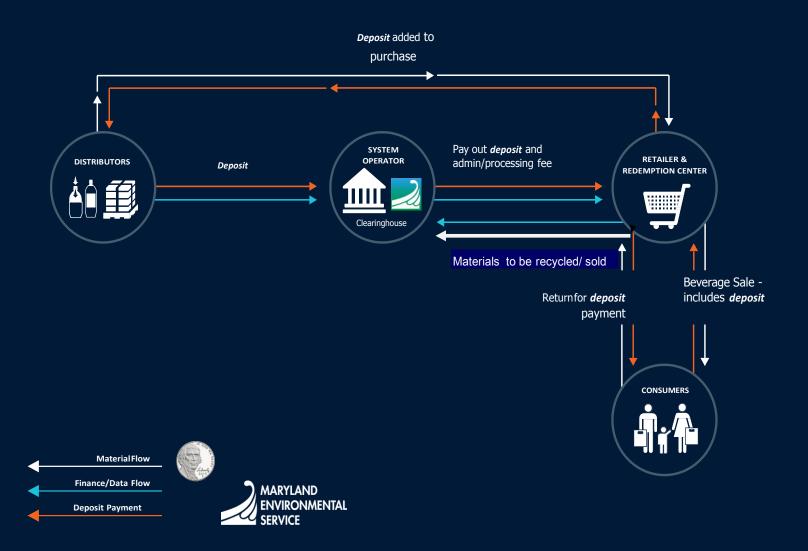


How would the Maryland bottle bill work? (cont)

- The program would be developed, operated, managed by the <u>Maryland Environmental Service (MES)</u>, a self-supporting, not-forprofit independent state agency.
- The containers are collected by MES (primarily) and the materials sold for reuse; distributors get 1/8 cent administrative fee
- Reserve Redeemable Beverage Container Recycling Fund financed by unredeemed deposits and scrap materials to ensure long-run viability of program
- <u>Legislative review</u> after the first three years
- The program is entirely self-financing through unredeemed deposits and sale of scrap materials!

Exemptions: Dairy, wine containers; Retailers <5,000 sf of retail space not obligated to accept returns; Bulk redemption possible for large public venues (e.g., stadiums)

MATERIAL AND FINANCIAL FLOWS IN THE MARYLAND DEPOSIT REFUND SYSTEM



What are the benefits?

ENVIRONMENTAL BENEFITS

- Tripling of Maryland's container recycling rate to >70%
- Substantial reduction of litter and its environmental impacts (Container litter by 69-84%; Overall litter by 1/3-2/3)
- Reduction in greenhouse gases and wasted energy
 (Saving of 4 trillion BTUs of wasted energy/year enough to power 45,000 homes; 215,000 tons of GHG emissions prevented)
- \$2 million annually to the Chesapeake Bay Trust
- \$15 million over 3 years for Total Max Daily Load (TMDL) issues as mandated by the EPA
- \$21 million over 3 years for MDE for community environmental grants

ECONOMIC BENEFITS

- Self-financed, doesn't require public funds, taxes
- Cost savings to counties & municipalities, state
 - Reduced costs of litter removal, trash and recyclable collection, landfilling, incineration: <u>REDUCED BURDEN TO TAXPAYERS</u>
 - Less contaminated single-stream recycling will fetch higher prices
 - \$27 million over 3 years for documented losses claimed by curbside recycling programs & materials recycling facilities verified by MES
- Creation of estimated 800 new full-time equivalent jobs (directly), an equal number indirectly
- Sale and re-use of valuable materials (136,000 tons of glass, 15,000 tons of aluminum, 42,000 tons of PET &HDPE plastic in 2010)
- Income for the indigent, fundraising tool for charities
- Increase in property values & tourism from less litter

We don't want a study, we want action!

Every year we wait, another <u>3 billion</u> containers enter the environment!

There is plenty of experience with these programs in 10 states over 40+ years!

If not this program, then how will we remove these containers from the environment?

DO THE RIGHT THING FOR THE PEOPLE AND THE ENVIRONMENT!

SUPPORT THIS BILL!