



EPR FOR PACKAGING & BEVERAGE CONTAINER DEPOSITS: THE DATA

Resa Dimino, Managing Principal

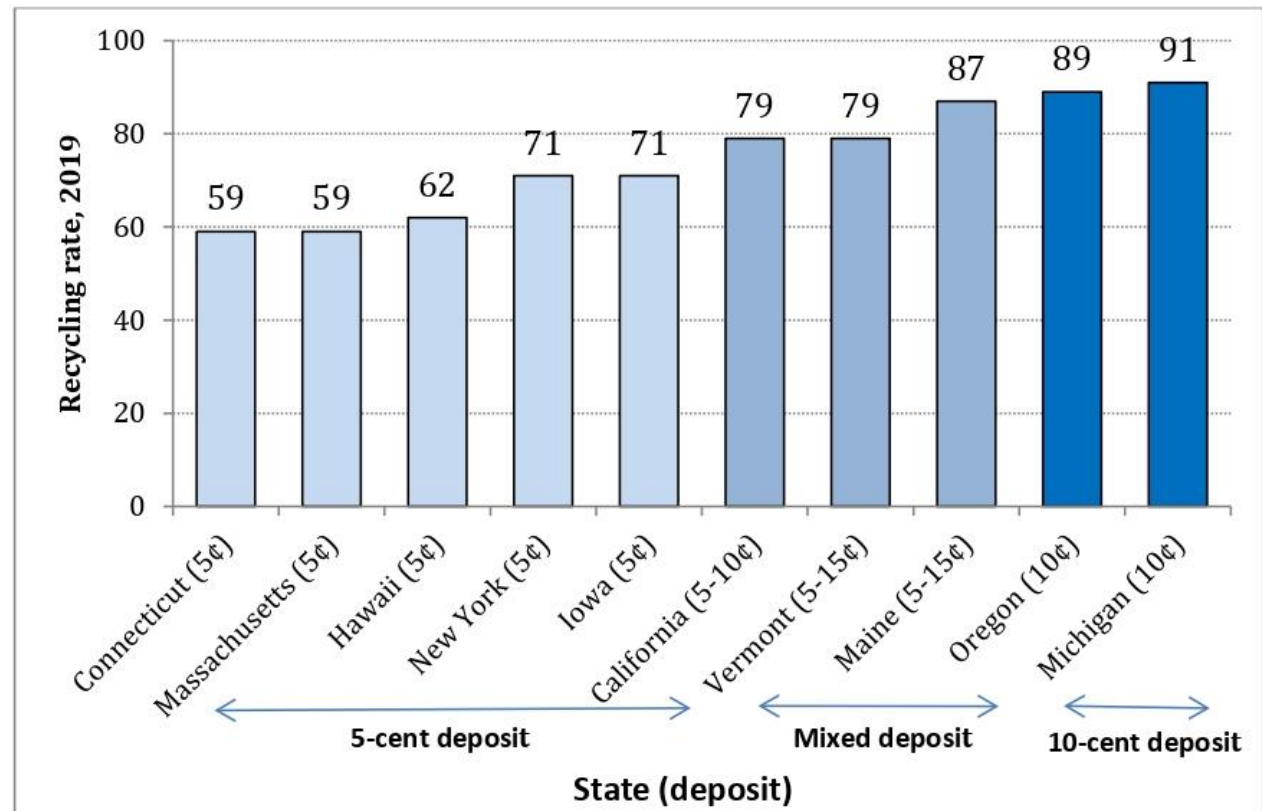
NYS Federation of Solid Waste Associations Conference

May 24, 2023

U.S. DEPOSIT RETURN RATES BY DEPOSIT AMOUNT

Beverage container recycling rates in non-deposit states are ~30%

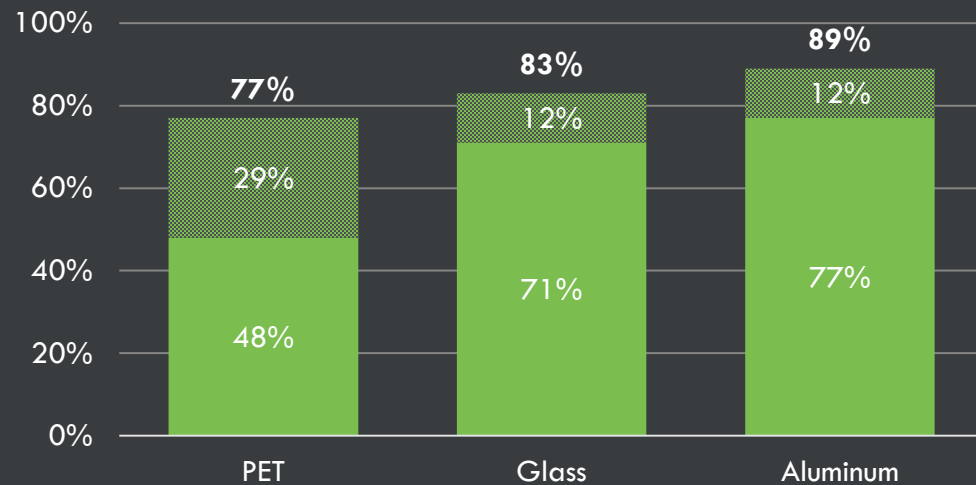
Recycling Rates (%) for Covered Beverage Containers in Deposit States, 2019



Source: Container Recycling Institute (2020). "2019 Beverage Market Data Analysis."

IMPLEMENTING OR EXPANDING BEVERAGE CONTAINER DEPOSITS WILL...

Substantially Increase Beverage Container Recycling Rates



Total with all Beverages, \$0.10

Financially Impact MRF Operating Costs and Revenues

- + Reduce variable costs (net benefit)
- Reduce material revenues (net cost)
- Increase fixed costs / ton (net cost)

ESTIMATED POLICY IMPACT ON MRF PROCESSING COSTS

DRS

NY Expansion Proposal



- Reduced tonnages through facility
- Fixed costs constant
- **Net impact: ~\$12/ton**

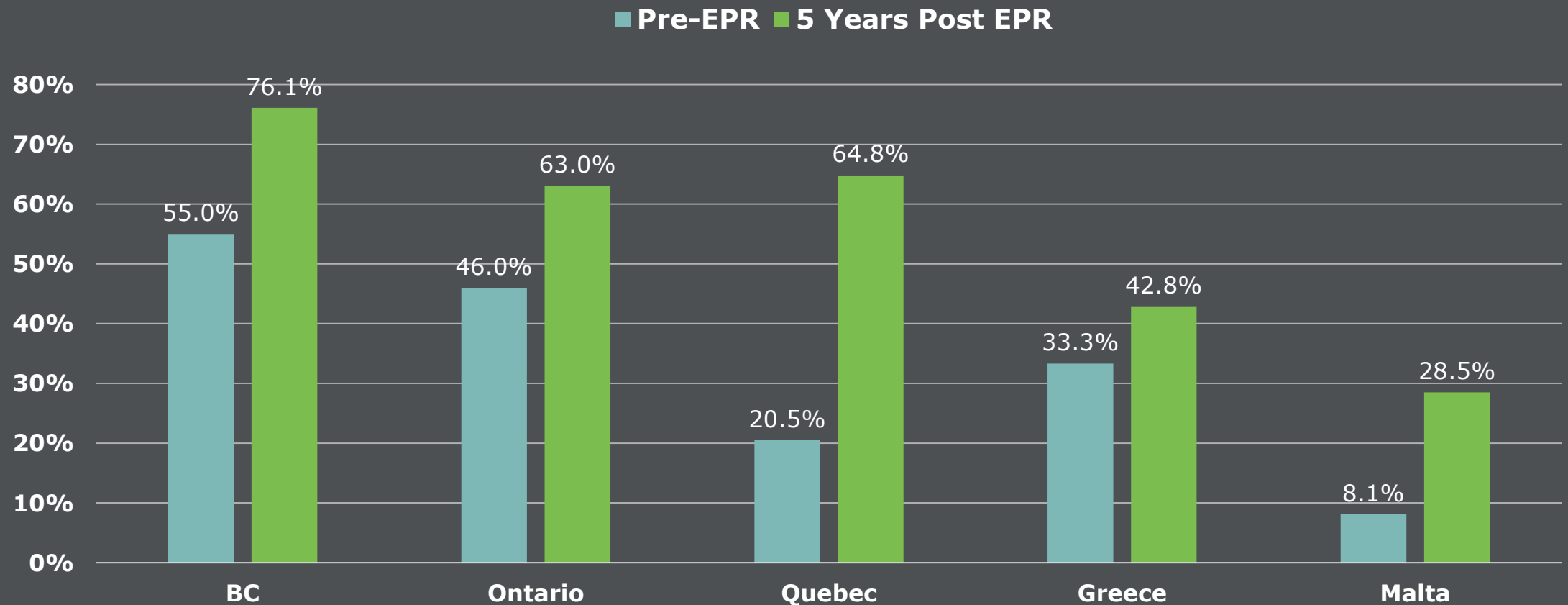
DRS+

NY Expansion Proposal
w/ Better Recycling



- Increased tonnages through facility due to program expansion
- **Net impact: <\$3/ton**

IMPACT OF EPR FOR PPP ON RECYCLING RATE



PERFORMANCE OF EPR AND DRS PROGRAMS IN SELECT JURISDICTIONS

26 jurisdictions globally have both EPR and deposit systems, including 12 in Europe and 3 of 4 in the US

*Finland's system has evolved over time to include cans (1996), PET (2008), and glass (2012)

| Jurisdiction | Year of Implementation | | 2019 Performance | |
|---------------------------------|------------------------|---------|------------------|---------|
| | DRS | PPP EPR | DRS | PPP EPR |
| British Columbia, Canada | 1970 | 2014 | 82% | 78% |
| Québec, Canada | 1984 | 2005 | 75% | 64% |
| Estonia | 2004 | 2004 | 88% | 56% |
| Finland | 1996-2012* | 1997 | 93% | 70% |

EPR FOR PPP & DEPOSITS: PROS / CONS

| EPR for PPP | | Beverage Container Deposits | |
|--|---|---|--|
| PROS | CONS | PROS | CONS |
| Higher recycling rates than non-EPR jurisdictions | May not direct material to “closed loop” applications | Highest documented recycling rates | Can negatively impact MRF economics |
| Manages all packaging and paper products | | Materials likely to be directed to “closed loop” applications | Only manages a small percentage of the packaging stream |
| Provides free and convenient recycling service to all New Yorkers | | Targets materials that are often consumed away from home / difficult to service with curbside recycling systems | |
| Removes financial risk of recycling from municipalities and ratepayers | | | |



RESA DIMINO

Managing Principal

518.610.8095

RESA@RECYCLE.COM