Mahalo for joining us!

THE MEETING WILL START SHORTLY

















Integrated Solid Waste Management Plan Update: Statewide Recycling Programs

State of Hawai'i Solid and Hazardous Waste Branch (SHWB)
Office of Solid Waste Management (OSWM): Lane Otsu and
Michael Burke

Tetra Tech: Cesar Leon, Christine Arbogast, and Jisela Herrera

PBR HAWAII: Catie Cullison, Sunny Rosario, and Ramsay Taum

October 26, 2023





- Taskforce members roll call
- State of Hawai'i Department of Health staff
- Consultants
- Guest Speaker



Agenda

HAMAII STATE
DEPARTMENT
OF HEALTH

TETRA TECH

PBR HAWAII
8 ASSOCIATIS INC

- Task Force Roll Call (5 min)
- General Public Comment Period (5 min)
- Integrated Solid Waste Management Plan Update Purpose (10 min)
- Wrap-Up Li-ion Batteries (30 min)
 - Opportunity for public comment on Li-ion Battery discussion
- Introduction Problem Statement (15 min)
 - Discuss problem statements
 - Opportunity for public feedback on problem statement
 - Task Force Discussion
- Potential Solutions (30 min)
 - Subject Matter Speakers



Please note, this meeting will be recorded



Agenda, cont'd.

- Break (10 min)
- Comparative Analysis (15 min)
- Opportunity for Public Comment on Potential Solutions (10 min)
- Discussion on Potential Solutions (60 min)
 - Task Force thoughts
 - Task Force response to questions
- Meeting Summary (10 min)
- Next Steps / Action Items (10 min)







- The Sunshine Law is Hawai'i's open meeting law
- The purpose is to help ensure the public can meaningfully participate in the government processes, such as this plan revision
- All ISWMP Taskforce meetings are open to the public, and will follow the State's Sunshine Law
- NOTE to Taskforce: Discussion on Taskforce business outside the public meeting is prohibited. This includes in-person communications as well as phone, email, and social media communications





- Acknowledge the contributions of others
- Raise hand to speak
- Mic off, unless speaking
- Engage with an open mind
- Listen, then respond
- Respect others and their ideas



General Public Comment Period



- Topics of Interest
 - Integrated Solid Waste Management Plan Update
 - Solid Waste Material Streams Potential Solutions
 - Tires
 - Li-Ion Batteries
 - Statewide Recycling Programs
 - Organics (next topic)
 - **■** Potential Solutions Categories
 - Extended Producer Responsibility
 - Government Programs and Subsidies
 - Free Market Solutions
 - Education and Outreach
 - Less Wasteful Alternatives







Public Comments

Opportunity for public comments on the meeting agenda





- State law mandates an Integrated Solid Waste Management Plan with regular updates and convening this Taskforce (HRS Chapter 342G)
 - Revise and update material contained in previous plan
 - With comment from the Taskforce, address other issues of statewide concern regarding integrated solid waste management
- Expectation of the Taskforce regarding potential solid waste solutions
- Recommendations from the Taskforce



Purpose of Taskforce and Plan Update (continued)



- The State identified ten solid waste stream topics for inclusion in an update to the Statewide ISWMP, including:
 - 1. Tires
 - 2. Batteries
 - 3. PV Panels
 - 4. Organics
 - 5. C&D Waste
 - 6. Packaging
 - 7. Carpet
 - 8. Mattresses
 - 9. Statewide Recycling Programs
- Information received from taskforce meetings for each solid waste stream will be used to update the existing ISWMP

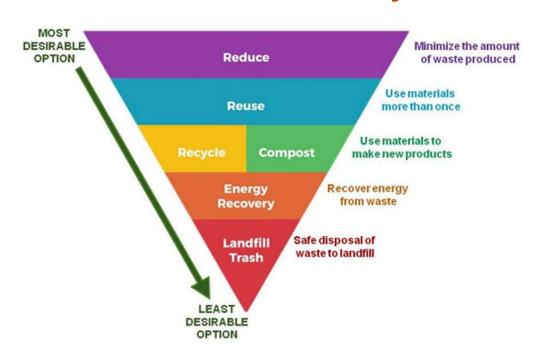






Sustainable Materials Management

EPA Waste Hierarchy





Solid Waste Management Stream: Solution Categories



Extended Producer Responsibility (EPR)

- Manufacturers and/or distributors are compelled to address impacts of their own products on the waste stream.
- EPR also extends to retailers, consumers, and a state or local government's existing infrastructure to find cost-effective solutions.



Government Programs and Subsidies

- Includes revisions to existing statutes and adjustment to existing State programs and personnel.
- Implementing new government regulations and/or prohibitions.
- Examples: Advance Disposal Fee, Deposit Program, and Expanded Government Services.



Free Market Solutions

- Includes identification of new or expanded local market opportunities for recycling.
- Considers Hawai'i's remote geography and related logistic and infrastructure challenges.



Outreach and Education

- Identification of potential outreach opportunities.
- Identification of potential education opportunities.



Less Wasteful

Identification of less wasteful alternatives.





- Extended Producer Responsibility
 - AB 2440 (California)
 - SB 5144 (Washington)
 - Collaborate with National Stewardship Action Council
 - Create a local stewardship council
- Government Programs and Subsidies
 - Maui County Li-ion battery recycling research project
 - Maui County Li-ion battery recycling pilot program (2024)
 - Maui County Green Grants Program
 - Maui County Recycling Grants Program
 - Battery collection events
 - Junk Vehicle Disposal Assistance Program
 - \$375 million loan Rochester, NY Hub (US Dept. of Energy)
- Free Market Solutions
 - Li-ion battery recycling facility (Gilbert, AZ)
- Outreach and Education
 - NYS Rechargeable Battery Law
 - Public Outreach and Collateral Development







- Extended Producer Responsibility
 - Product Manufacturing
 - Li-ion battery registration
 - Local Stewardship Program
- Government Programs and Subsidies
 - Pursue funding opportunities (i.e., US Dept. of Energy)
- Free Market Solutions
 - Recycling infrastructure development

Outreach and Education

- Li-ion fire prevention education
- Establish PIG to continue Li-ion battery discussion
- Resource Reduction Alternatives
 - Hydrogen Fuel-Cell Vehicles



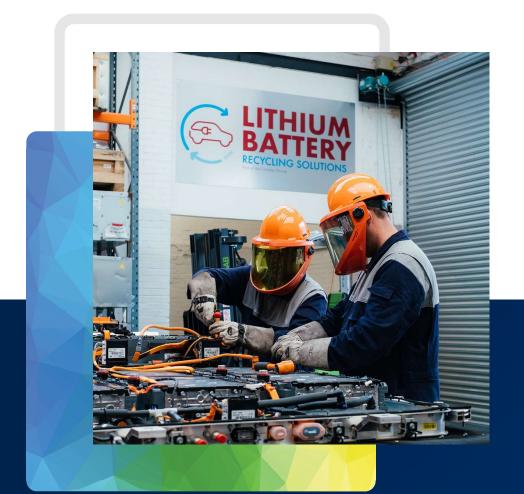




Guests and members of the public, please share your thoughts. Do you envision the proposed solutions as ones that are implementable in Hawaii? What challenges do you foresee? Do you have other thoughts?

Opportunity for public comment on Lithium-Ion Battery discussion





Task Force members: Share your thoughts on solutions presented. In your opinion, which show most promise?

Each Task Force member share your opinion. Thank you!



WE PAY HISC OPEN TODAY





Problem Statements

Statewide Recycling Programs



Solid Waste Stream Topic: Statewide Recycling Programs

Deposit Beverage Container Program (HI-5 Program) – Since January 2005, the HI-5 program has assisted residents with recycling billions of containers. In prior years' audits, it has been noted that the program has failed to develop and execute procedures to verify the accuracy and completeness of data used to support claims of the deposit and container fees paid to the program by the distributors as well as deposits and handling fees paid to the redemption centers. Without these procedures, the program relies on self-reported data and accepts that cash receipts from the distributors and payments made to redemption centers are accurate and complete. Act 12 requires DOH to develop and implement procedures to verify the accuracy and completeness of data reported by beverage distributors and redemption centers as recommended in the Office of the Auditor's biennial reports. This includes periodic audits of certain deposit beverage distributor and redemption center reports that have been submitted to the DBC program. Existing redemption value may not be enough to cover program expenses or be attractive for recycling markets. DOH will be revising the program's administrative rules to implement Act 12's requirements as well as updating the segregated rate to maintain the accuracy of the redemption rate.





Deposit Beverage Container Program – Overview

- HRS Chapter 342-G sets
 requirements for deposit beverage
 containers recycling regarding
 recordkeeping, distributor
 registration, reporting, and
 auditing.
- \$0.05 deposit fee for eligible containers
- \$0.01 nonrefundable fee

How does the Hawaii Beverage Container Law work?



For each bottle or can labeled with "HI 5-cent Dep," there will be a 5-cent refundable deposit and 1-cent nonrefundable container fee. The deposit is refunded when the bottles are turned in for recycling. The fee is used to pay for the system.

When a beverage distributor imports or bottles a beverage, it pays the state Department of Health the 5-cent refundable deposit and 1-cent nonrefundable

For each container a retail store buys, it pays the distributor the 5-cent refundable deposit and 1-cent nonrefundable container fee.



container fee.

REDEMPTION

The redemption center keeps a record of containers collected and deposits paid. It files invoices with the state every two weeks and is repaid the 5-cent refundable deposit, plus a handling fee. The state gets the money from the original payment from the distributors.



For each container a customer buys, he or she pays the retail store the 5-cent refundable deposit and 1-cent nonrefundable container fee.



For each container a customer turns in at a redemption center, he or she receives the 5-cent deposit.



Deposit Beverage Container Process





Consumers pay:



5¢ deposit



1¢ container fee



HI-5 Fund
Unredeemed deposits help
pay for the HI-5 Program

HI-5 fund pays:



5¢ deposit returned to consumers who redeem their containers



2-4¢ paid to recycling companies for processing and shipping



Deposit Beverage Container Program



What beverages are considered "in" and subject to the deposit?

Container Material Type

Container Size

Aluminum

68 fluid ounces or less

Bi-metal

Glass

Plastic Note: PET and HDPE only. Look for these symbols

on the bottom of the container





What are some examples of what is "in"?

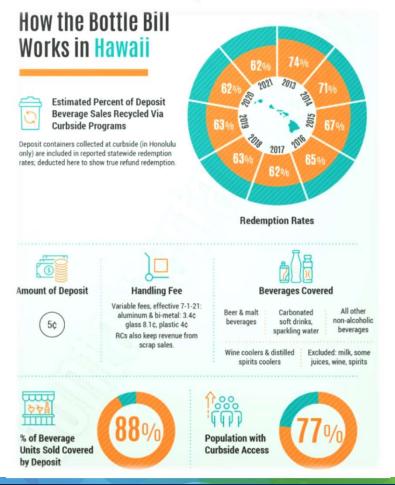
If a beverage meets the criteria below, it will need to be labeled with the HI 5¢ deposit:

Beverage	Example (these are only examples – not a complete list)				
Soda	Coke, Pepsi, Blue Sky, Hansens, Collins Schwepps				
Water	Menehune, Dasani, Crystal Lake, Evian				
Juice	Hawaiian Sun, Aloha Maid, V8, Odwalla, Ocean Spray, Martinelli's				
Coffee & Tea	Kona Latte, Starbucks Frappuccino, Brisk Tea, Nestea				
Sport Drink	Gatorade, Cytomax, Powerbar Performance				
Drink Mixer	Bloody mary, margarita, sweet and sour mixer				
Mixed Spirit (contain less than 15% alcohol)	Margarita, pina colada, daiquiri, low alcohol liqueurs				
Mixed Wine (contain less than 7% alcohol)	Arbor Mist, low alcohol sake, cider				
Beer and Malt Beverages	Coors, Budweiser, Miller, Smirnoff, Mike's Hard Lemonade				

What are some examples of what is "out"?

Beverage	Example (these are only examples – not a complete list)				
Milk	Whole, 2%, 1%, skim, chocolate milk				
Wine	Red, white, dessert wines, Chardonnay, Merlot, Cabernet, Moscato				
Spirit (contain 15% or more alcohol)	Brandy, gin, rum, tequila, vodka, whiskey, scotch				
Medical Food	Pedialyte, Ensure, Glucerna, Joint Juice				
Infant Formula	Enfamil Lacto-Free, Similac, Isomil Soy Formula with Iron				
Concentrate	Any frozen, powder, or liquid concentrate you add water to in orde to drink				
Syrup and other flavorings	Any syrup you add water to in order to drink, grenadine syrup, lemon juice, lime juice				

Deposit Beverage Container Program







Deposit Beverage Container Segregated Rates for Weighing









Electronic Device Recycling Program – Since its inception in 2009, one of the key challenges to electronic waste recycling program was the **lack of infrastructure**. However, major changes to the program that took effect in January 2023 aim to increase public convenience and to collect more electronic waste for recycling.



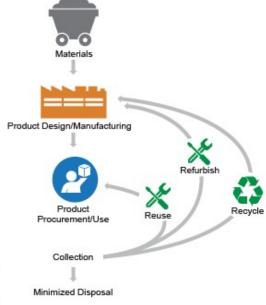
Electronic Devices Recycling Process

 The Hawai'i Electronic Device Recycling and Recovery Law (HRS Chapter 339D) requires electronic device manufacturers to operate recycling programs.

- Covered electronic devices:
 - Computers
 - Computer printers
 - Computer monitors
 - Portable computers
 - Televisions







Solid Waste Stream Topic: Glass Advance Disposal Fee Program



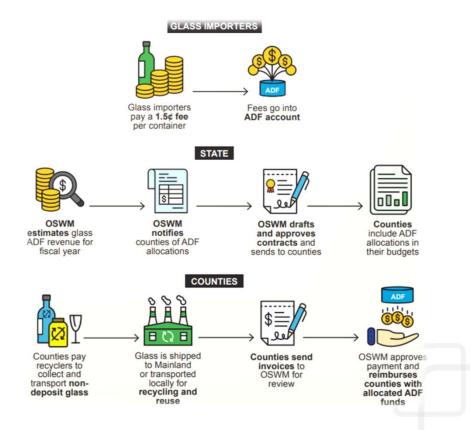
Glass Advance Disposal Fee Program – The 1994 act that established the glass container recovery law also contained goals of a 25 percent glass recovery rate by the end of 1996, 50 percent by the end of 1998, and thereafter, the maximum recovery rate practicable. The glass advance disposal fee rate was tied to achievement of these recycling goals. However, when the Deposit Beverage Container Program was established in 2002, the Legislature removed the glass recovery goals, leaving the program with no baseline recovery rate or target recovery goals against which to measure its progress and success.





Glass Advance Disposal Fee Program

- HRS 342G-82 sets requirements for glass container recycling regarding recordkeeping, importer registration, funding, reporting, and County program requirements.
- Requires manufacturers, importers, and distributers of glass containers in Hawaii to pay a 1.5-cent per container fee







HI-5 Program

- Accuracy and completeness of data
- Current redemption value may not be enough to cover program expenses or be attractive for recycling markets

Electronic Devices Recycling Program

Lack of infrastructure

Glass ADF Program

 No baseline recovery rate/target recovery goals to measure program progress and success





Guests and members of the public, please share your thoughts. Do you know of additional problems associated with the Statewide Recycling Programs in Hawaii?

Opportunity for public feedback on problem statement





Landfill disposal of potentially recyclable materials (i.e., electronics, deposit beverage containers, and non-deposit glass) can negatively impact the environment and affect human and wildlife health, leading to enormous costs.

Receive feedback from Task Force on problem statements







Potential Solutions

Potential Solutions Overview





Federal Government – DBC (HI-5) Program

- No nation-wide bottle bill in the United States
- Ten states (plus Guam) have implemented their own bottle deposit program







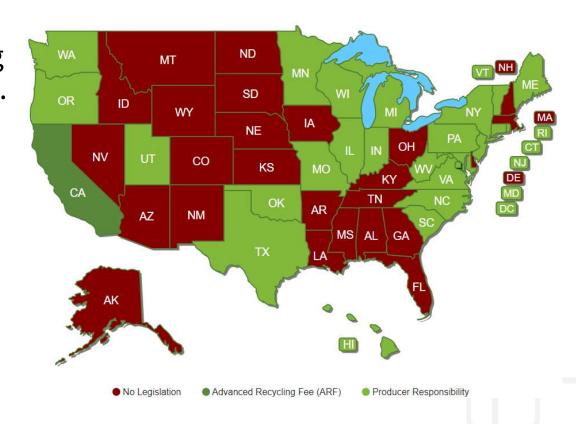
Bottle Bills by State

1	Redemption Rates (a)									Estimated Percent of Deposit Beverage	Amount of			% of Beverage Units Sold	Population with
State	2013	2014	2015	2016	2017	2018	2019	2020	2021	Sales Recycled Via Curbside Programs (b)	Deposit	Handling Fee	Beverages Covered	Covered by Deposit (c)	Curbside Access (d)
Michigan	95%	94%	93%	92%	91%	89%	89%	73%	75%	4%	10¢	None. No redemption centers.	Beer & mait beverages Carbonated soft drinks, sparkling water, kombucha Wine coolers & distilled spirits coolers	55%	61%
Maine	90%				84%			76% ★		4%	Wine & liquor ≥ 50mL: 15¢ All others: 5¢	4.5¢	- All beverages except dairy products and unprocessed cider.	92%	67%
Oregon	71%	68%	64%	64%	73%	81%	86%	77%	81%	4%	10¢	None; Co-op funds redemption centers in partnership with retailers.	All beverages except wine, distilled liquor, dairy milk and plant-based milk, and infant formula.	88%	95%
Vermont	76%							78%	78% ★	4%	Liquor: 15¢ All others: 5¢	Brand-sorted containers: 4¢ Commingled brands: 3.5¢	- Beer & malt beverages - Carbonated soft drinks & sparkling water - Wine coolers - Liquor	46%	76%
California	74%	71%	72%	72%	68%	66%	67%	62%	61%	Redemption rate reflects direct CRV redemption. In FY20, curbside and dropoff programs collected 14% of CRV beverage containers recycled.	<24 ounces: 5¢ ≥ 24 ounces: 10¢	Handling Fee of \$0.00950 per container paid to handling fee sites only. Processing payments for glass, PET, and HDPE average \$0.009 per container to redemption centers, curbaide programs and other programs. All RCs and programs also keep revenue from scrap sales.	- Beer & malt beverages - Carbonated soft drinks & sparkling water - All other non-alcoholic beverage - Wine coolers & distilled spirits coolers - Excluded: milk, some juices, wine, spirits	88%	91%
Hawaii	74%	71%	67%	65%	62%	63%	63%	62%	62%	Deposit containers collected at curbside (in Honolulu only) are included in reported statewide redemption rates; deducted here to show true refund redemption.	5¢	Variable fees, effective 7-1-21: aluminum & bi-metal: 3.4¢ glass 8.1¢, plastic 4¢ RCs also keep revenue from scrap sales.	- Beer & malt beverages - Carbonated soft drinks & sparkling water - All other non-alcoholic beverages - Wine coolers & distilled spirits coolers - Excluded: milk, wine, spirits	88%	77%
New York	62%	64%	65%	66%	65%	64%	64%	64%	70%	5%	5¢	3.5¢	- Beer & malt beverages - Carbonated soft drinks & sparkling water - Bottled water including flavored water - Wine coolers	78%	95%
lowa	78%			65%					3	2016 recycling rate was 71%. An estimated 6% of containers sold are recycled through curbside & dropoff programs.	5¢	1¢	Beer & malt beverages Carbonated soft drinks & sparkling water Wine coolers Wine & Liquor	63%	66%
Massachusetts	66%	66%	59%	56%	57%	52%	50%	43%	38%	10%	5¢	Redemption centers: 3.25¢ Retailers: 2.25¢	- Beer & mait beverages - Carbonated soft drinks & sparkling water	40%	77%
Connecticut	57%	53%	51%	49%	52%	50%	50%	44%	46%	10%	5¢ (increases to 10¢ on 1/1/24)	Beer: 2.5¢ Other beverages: 3.5¢ Liquor "nips" have 5¢ sales fee	Beer & malt beverages Carbonated soft drinks & sparkling water Bottled water Other non-carbonated beginning 1/1/23	77%	86%



Federal Government - Electronics Recycling Program

- No federal legislation requiring electronics recycling in the U.S.
- Twenty-five states (plus the District of Columbia) have implemented their own electronics recycling laws







- No federal legislation requiring non-deposit glass (i.e., wine, hard liquor, and milk/dairy product bottles) recycling in the U.S.
- Two states have deposit fees for wine bottles (Maine and Iowa)
- Two states have deposit fees for liquor bottles (Maine and Vermont)



Subject Matter Expert



Integrated Solid Waste Management Plan Update Task Force Briefing: Statewide Recycling Programs

Speakers: Terry Telfer and Walter Alcorn

Bio: Terry Telfer, President, Reynolds Recycling

Walter Alcorn, Vice President, Environmental Affairs and Industry Sustainability, Consumer Technology Association







Accepting HI-5 deposit beverage containers, and non-ferrous scrap metal: (Aluminum, Brass, Copper, and Stainless Steel).

For more information please call: (808) 245-7233 or visit our website: www.reynoldsrecycling.com. Terry Telfer
President, Reynolds Recycling

Subject Matter Expert



TOPICS TO HELP THE HI-5 PROGRAM



RE-ENERGIZE HI-5 PROGRAM

- ☐ Report annually to Hawaii Residents with the results of their recycling efforts.
- ➤ Encourage, Inform and energize Hawaii Residents about their recycling effects.
 - Table below shows energy saving statistics -

TON OF ALUMINUM	TON OF GLASS	TON OF PLASTIC
14,000 KWH OF ENERGY	42 KWH OF ENERGY	5774 KWH OF ENERGY
39.6 BARRELS OF OIL	.12 BARRELS OF OIL	16.3 BARRELS OF OIL
10 CUBIC YARDS OF LANDFILL SPACE	2 CUBIC YARDS OF LANDFILL SPACE	30 CUBIC YARDS OF LANDFILL SPACE

- Utilize media such as radio, television and newspaper
- o Reynolds recommends raising the deposit to 10 cents per container.



Improving Consumer Trust in the Program.

- ☐ New Segregated Rate study to fight perception that the system is cheating the consumer.
- ➤ Deal with the discrepancies caused by increases in small and lighter weight plastic containers. This may require a 3rd Tier.
- > Annual or Bi-annual review of segregated rates for accuracy.



INCREASE CUSTOMER CONVENIENCE

- ☐ At the peak of the HI-5 Program the Recycling Industry had 119 locations State-Wide with a 78% recycling rate.
 - > Today there are 54 locations State-Wide with a 56% recycling rate.
- Rural Subsidies to support locations with lower population densities: such as Hauula, Kahuku, and Waimanalo.
- ☐ Grocery stores need to actually support the HI-5 Deposit Program.
 - ➤ Enforcement on Oahu stores without recycling nearby with no hardship exclusions.
 - Recycling can be done outside of stores in parking lots if not able to be performed inside of the stores.



ASSIST RECYCLERS TO KEEP UP WITH INFLATION

- ☐ State of Hawaii uses recommendations from the Crowe Report (published 6/23) to determine handling fees for the 10/23-10/24 period.
- ➤ Report does not accurately reflect current inflation, salary and other conditions.
 - No increase in handling fees to assist with employee costs effective January 2024.
 - State of Hawaii mandated 16.6% increase of minimum wage in January 2024 are not taken into account.
 - Increase in wages also impacts Worker's Compensation and TDI premiums by 12%.
 - 25% increase of Medical benefits.



ASSIST RECYCLERS TO KEEP UP WITH INFLATION

(CONTINUED)

- Commodity prices are always unstable.
 - Commodity prices declined drastically after March of 2023.
 - Aluminum prices dropped 44%.
 - Plastic prices dropped 45%.
- Property insurance increase due to abnormal climate changes causing natural disasters.



SUPPORT GRANT PROGRAMS

- ☐ Current Handling Fees/Commodity values are not adequate to keep up with costs of daily wear and tear on recycling equipment.
- ➤ Last grant program was awarded in 2008.
- In the last 15 years there has not been adequate program support to improve quality for Recycling companies.
 - Deteriorating equipment tractors, trailers, forklifts, skid steers, etc.
 - New Tractors cost \$200,000 each, new trailers logoed and delivered to Hawaii, cost around \$60,000 each etc.







Walter Alcorn

Vice President, Environmental Affairs and Industry Sustainability, Consumer Technology Association

Subject Matter Expert



CTA Slides for Hawaii Solid Waste Management Programs Task Force Meeting

October 2023





Extended Producer Responsibility (EPR)

- Hawaii mandates EPR for electronics manufacturers of TVs and computer equipment
 - Manufacturers must arrange and pay for recycling of a % of the weight of all products they sell into Hawaii the previous year
 - 2023: Manufacturer recycling targets are 50% of the weight sold in 2022
 - 2024: Manufacturer recycling targets are 60% of the weight sold in 2023
 - —2025: Manufacturer recycling targets are 70% of the weight sold in 2024
- Legal mandates are on manufacturers, not counties

Resource Reduction Alternative

• Electronics recycling is a once a year or two action (at most), need to find better ways to integrate with other recycling programs.

Background

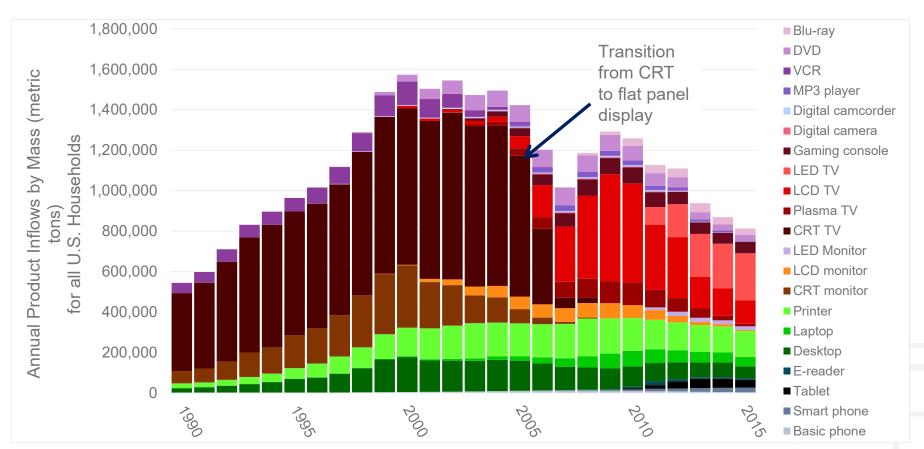


<u>Challenges</u>

- Recycling targets are increasing as returns decrease, sales weights are flat
- Collection convenience is not great, even under the 2022 law update
 - Only 11 of the 25 zip codes have regular free drop off for residents and business according to https://health.hawaii.gov/ewaste/e-waste-collection-locations/
 - The law allows manufacturers to cover the other 14 zip codes through consumer-paid pickups that range from \$150 \$400 per pickup.
 - Non-routine collection events are also held in some areas.



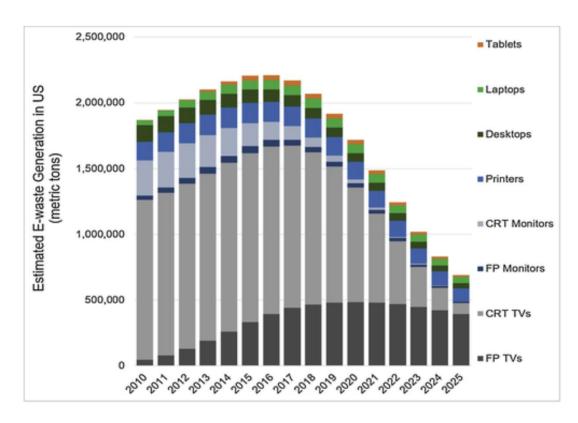
Net weight of products put on market



Source: CW Babbitt, Rochester Institute of Technology, Golisano Institute for Sustainability, 2018



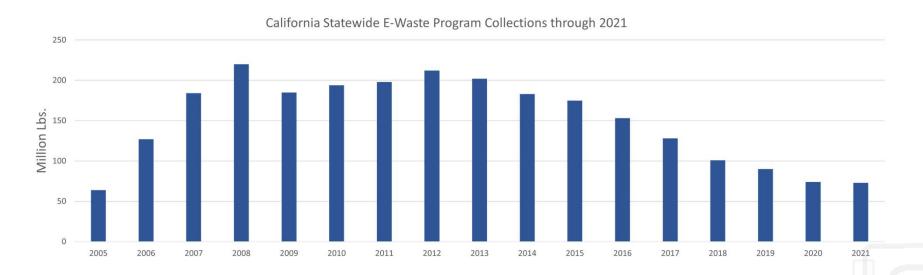




Source: Althaf, S, CW Babbitt, and R Chen. "Forecasting Electronic Waste Flows for Effective Circular Economy Planning." *Resources, Conservation and Recycling* 151. (2019): 104362. Print.

Real World E-Waste Results





Source: CalRecycle, Quarterly Updates of CEW Recycling Program.

Break

TETRA TECH PBR HAWAII R ASSOCIATIS, INC.

10 minutes









Out-of-State

Comparative Analysis



Extended Producer Responsibility (EPR)



EPR is "an **environmental protection strategy** aimed at decreasing total environmental impact from a product and its packaging, by ensuring that the producers of the product take responsibility for the entire lifecycle of their products through the take-back, recycling, and final disposal of their products, including its packaging."



Extended Producer Responsibility (EPR) – DBCs

- Break Free From Plastic Pollution Act (2021)
 - Producers with annual revenues greater than \$1 million
 - Producers with more than one ton of covered products
- Covered products:
 - Containers*
 - Packaging
 - Paper
 - Food service products





Extended Producer Responsibility (EPR) – Electronics

State of Hawai'i:

• HRS Chapter 339D

State of Washington:

• SB 6428

State of Wisconsin:

Electronics Recycling Rule

State of California:

 The Electronic Waste Recycling Act (SB 20, Sher, Chapter 526, Statutes of 2003)





Extended Producer Responsibility (EPR) – Non-Deposit Glass Tetra Tech



State of California

• SB 1013







Government Programs and Subsidies

- State will explore updates or improvements to:
 - Existing infrastructure;
 - Policies and regulations;
 - Grants
 - Outreach and education opportunities.





Government Programs and Subsidies - DBCs

State of Hawaiii:

- Act 176
- HRS Chapter 342G-102
- Act 285
- Bottles4College Program

Hawai'i Counties:

- Honolulu County:
 - Honolulu City Ordinance, Chapter 9-1.11 (glass)
 - Honolulu City Ordinance, Chapter 9-3.1 (glass)
- Hawaii County
 - US EPA \$1.5 mil grant
- Maui County:
 - Recycling Grant Program

State of California:

Recycled Fiber, Plastic, and Glass Grant Program



Government Programs and Subsidies - Electronics

DEPARTMENT OF HEALTH TETRA TECH

State of Hawai'i:

HRS Chapter 339D

Hawai'i Counties:

- Maui County:
 - Tri-annual event at Hana Landfill
 - Monthly collection events in Lahaina
 - Molokai-Naiwa Landfill & Recycling Center

State of California:

• Electronic Waste Recycling Act







Government Programs and Subsidies – Non-deposit Glass

State of Hawai'i:

• HRS 342G-82

Hawai'i Counties:

- Honolulu County:
 - Honolulu City Ordinance, Chapter 9-1.11 (glass)
 - Honolulu City Ordinance, Chapter 9-3.1 (glass)
- Maui County:
 - Recycling Grant Program

State of California:

• Recycled Fiber, Plastic, and Glass Grant Program





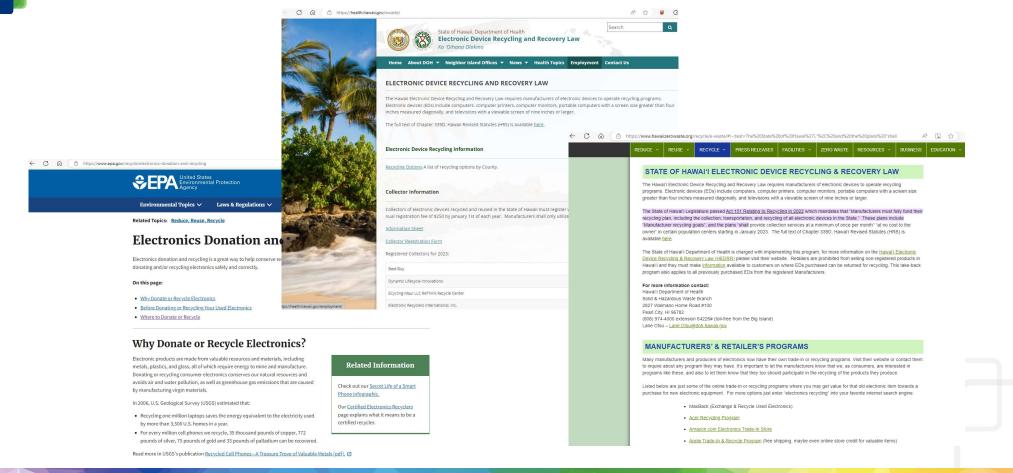








Education and Outreach Opportunities







Education and Outreach Opportunities (DBCs)

State of Hawai'i:

- Promote collection events through communication outlets (i.e., newspapers, radio, social media)
- Collaborate with NGOs to organize collection events
- Develop additional education and outreach collateral
- Kōkua Hawai'i Foundation
 - Plastic Free Hawai'i School Art Contest
 - Environmental Education Events and Project Grants
 - 3Rs School Recycling Program Drives

State of Oregon:

• LD 1909

State of Connecticut:

- RecycleCT
 - Educational Videos
 - School Grant Programs
 - RecycleCT Wizard





















Education and Outreach Opportunities (Electronics)

Hawai'i Counties:

- Website Information
- Promote e-waste Collection Events

Kaua'i County:

- Electronic waste recycling event
- Recycling Education Community Events
- School e-waste Collection Contests
- Social Media Advertising

State of Washington:

• WAC 173-900-980

State of Maryland:

- eCycling Television and Radio commercials
- "Rethink Recycling"
 Sculpture Contest







Resource Reduction Alternatives – DBCs











Resource Reduction Alternatives – Non-Deposit Glass

State of Hawai'i:

• Support local reduce/reuse alternatives

State of Oregon:

• HB 2443 "Wine Growler Law"

Other:

- Wine bottle alternatives
 - Cardboard
 - Flax fiber







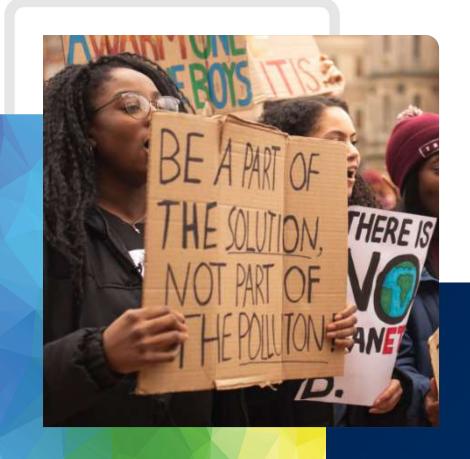




Share your thoughts on materials presented. What opportunities would you like to encourage to enhance the existing statewide recycling programs?

Public Comment





Task Force Members: Share your thoughts on the information presented. What opportunities for improvements to the Statewide recycling programs do you suggest?

Question for Task Force Response. Each Task Force member share your opinion. Thank you!





• Summarize discussion points, wrap up



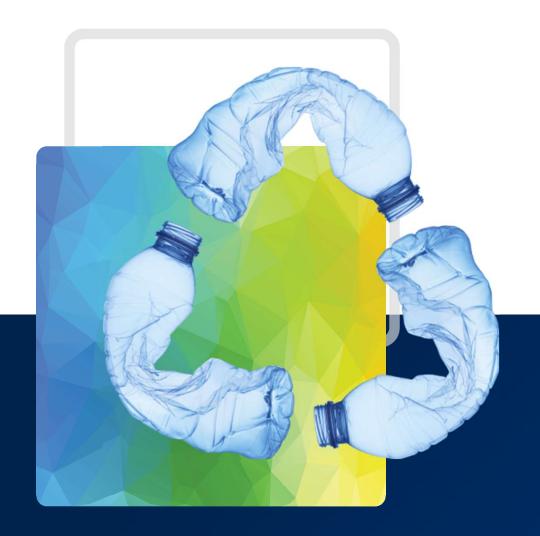
Next Steps / Action Items

- Potential Solutions
- Next Task Force Meeting









Questions?

State of Hawaiʻi Integrated Solid Waste Management Plan Update