



Summary of State E-Waste Requirements

July 25, 2007



State of the States

- Now eight state programs with mandatory financing
 - CA, ME, MD, WA, MN, TX, OR, CT
 - 90 million US residents or 30% of US population





The First 4 States



- California enacted in 2003
- Maine enacted in 2004
- Maryland enacted in 2005
- Washington enacted in 2006



California Law

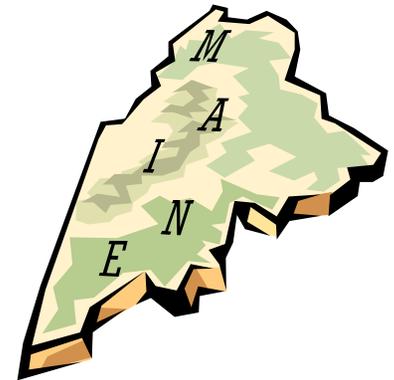
- Financing by \$6-\$10 Advance Recovery Fee (ARF) on all video display devices paid for at point of sale
- ARF amount determined by screen size
- Retailers collect fee, remit to state Board of Equalization
- Recyclers submit claims to CIWMB for reimbursement of
 - Recycling costs @ \$0.28/lb.
 - Collection costs @ \$0.20/lb.
- Manufacturers must submit an annual report on sales, compliance with most RoHS provisions





Maine Law

- Passed in 2004: covers TVs and computer monitors (includes laptops) from Maine households
- Municipalities collect from household, send to/contract with state-approved consolidators (facility or pickup)
 - Collection from households not funded by system
- Consolidators count brands, follow ESM guidelines, bill manufacturers for actual count of claimed brands + orphan share (if over 1%)
- Manufacturers submit compliance plans, file reports, pay invoices from all (6) consolidators





Maine Law Implementation

- Began 1/18/06
- 6 consolidators approved for 2007, 4 collected in 2006
 - Uniwaste 95% of wt, Onyx next at 2.5%
- 3 DEP staff managing program, plus staff at consolidator
 - tracking brands, invoicing OEMs
- 270 brands billed in first 6 months, 350 currently claimed
 - 90 orphan brands in waste stream in first 6 months
- If not registered, and brands show up or are sold....



Maine DO NOT SELL

Maine Do Not Sell List (as of 4/2007)

Manufacturer

Brand

| Maine Do Not Sell List (as of 4/2007) | | |
|---|--|--|
| Manufacturer | | |
| Brand | | |
| Acula Technology Corp. <i>ACULA</i> | Albatron Monivision, Inc. <i>Monivision</i> | Electrolux Home Products, Inc. <i>White</i> <i>White Westinghouse</i> |
| Advueu Technology Inc. <i>Advueu Tech</i> | Barco Folsom, LLC <i>Barco Folsom LLC</i> | Emerson <i>Dora The Explorer (Emerson only)</i> <i>Sponge Bob Square Pants (Emerson only)</i> |
| Ag Neovo Technology Corporation <i>AG Neovo</i> | Broksonic c/o Hatzlachh Supply Inc. <i>Broksonic</i> | Hansol LCD Inc. <i>Hansol</i> |
| | | Hitachi High Technologies America, Inc. <i>SuperScan</i> |



Maine DO NOT SELL (cont)

Maine Do Not Sell List (cont)

Manufacturer

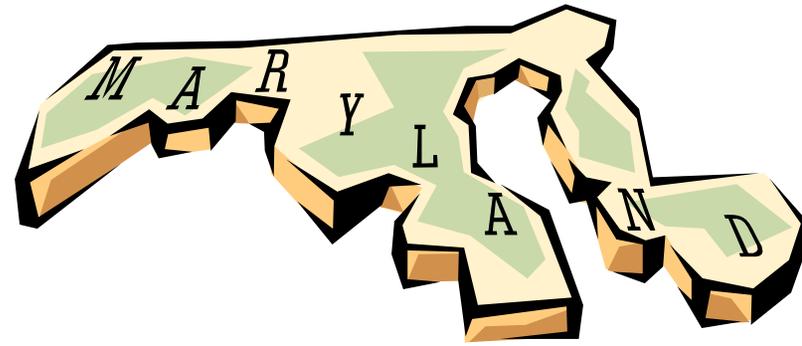
Brand

| Maine Do Not Sell List (cont) | | |
|--|---|--|
| Manufacturer | | |
| Brand | | |
| Homlan International Corporation <i>Homlan International</i> | Shengyang Bigtide Electronics Co., Ltd. <i>Shengyang Bigtide</i> | Sinofaith Holdings Limited <i>Sinofaith</i> |
| Raytheon Company <i>Raytheon</i> | Sichuan Changhong Electric Co. <i>Sichuan Changhong Changhong</i> | Smith Corona Corp. <i>Smith Corona</i> |
| SABRE Vision <i>Sabre</i> | Siemens Corporation <i>Siemens</i> | Systemax, Inc. <i>INFOTEL MIDWEST MICRO Systemax Ultra</i> |



Maryland Computer Recycling Law

- Passed in 2005, amended in 2007 to cover TVs in 2008
- Creates statewide electronics recycling financing
- Registration and fee required for manufacturers of more than 1,000 units per year
 - 1,000 can be sold anywhere





Maryland Recycling Law cont'd



- Initial Registration fee now \$10,000, then:
 - \$5,000 per year if manufacturer does NOT implement a computer take-back program
 - \$500 per year if manufacturer DOES implement a program
- Registration money into state recycling trust fund
 - Used to provide collection/recycling grants to local governments
 - \$208k available for FY07, grants to be awarded mid-June
 - First year no grants, funds used for education campaign/survey
- Registered Manufacturers as of 5/1/07:
 - 50 Companies for 2006
 - 37 Companies for 2007 (January 1 deadline!)



Washington Law



- Signed March 2006
 - 4th major state electronics recycling program
 - Different than other 3 in significant ways
- Producer Responsibility with default
 - Manufacturer responsible for “return/equivalent share” either on own or pay into State quasi-government organization
 - No collection goal, but must meet your % at year’s end or pay penalty
(refund if collecting more than %)
 - *Ban on exports to developing countries according to Basel Convention*
[VETOED]





Washington Product Scope



- Any monitor, TV or other video display over 4”
- Desktop computers
- Laptop computers
- All from covered entities only:
households, small businesses,
charities, small governments and
school districts



WA Standard and Independent Plans

- Manufacturers may/must join Standard Plan (no choice if a white box or new entrant manufacturer) to manage and finance recycling program
- Manufacturers may start an independent plan on their own or with others (if combined return share above 5%)
- Retailer may not sell covered products if manufacturer is not registered and part of an approved plan
- Violation for both retailer and manufacturer



Washington MMFA



- Establishment of WMMFA Board
 - Board Members for 2007: Apple, Deer Park Computer Sales and Service, Dell, Lenovo, Samsung, Sony, Wal-Mart, Best Buy
 - Authority responsible for “Standard Plan,” certain manufacturers must participate (not eligible for independent plan)
- Challenges for WMMFA
 - Public vs private entity? Subject to open meetings? How to hire staff/counsel? AG’s office: probably a public entity.
 - Loan from state approved for startup costs (\$500K); costs of Ecology staff to be repaid
- Standard and Independent Plans due Feb 2008



Washington Return Share



- Alternative approach to complete brand count as in Maine
 - Determine % for each manufacturer based on random samples throughout year
 - Processors may be performing sampling
- Return Share Sampling
 - NCER Project for Dept of Ecology, with statisticians
 - Sampling used for setting “manufacturer return shares” in June 2010, final in August 2010



How Are They Performing?



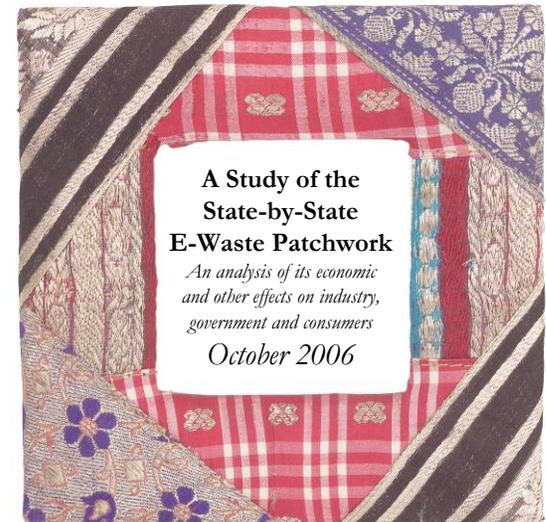
- California:
 - ❑ 1.79 lbs/capita in 2005 or 65 million lbs
 - ❑ 3.5 lbs/capita in 2006 or 128 million lbs
- Maine:
 - ❑ 3.1 lbs/capita in 2006, 3.85 million lbs
- Maryland:
 - ❑ [1.2 lbs/capita in 2006, 6.2 million lbs] *not program stats*
 - ❑ Used registration fees for education in 2006



Patchwork Study



- NCER initiative under National Electronics Recycling Infrastructure Clearinghouse
 - www.ecyclingresource.org
- ID and quantify “dead weight” costs of differing state programs
 - Sought input from all stakeholders
 - Assumes 2 additional states by 2012
- Findings
 - Recurring costs per year: \$25 million
 - One time costs per new state: \$3 million





Four New Laws from 2007 State Legislative Activity



1. Minnesota

- A “Producer Pays” law for video display device manufacturers (TVs, monitors, portables)
 - These producers must recycle 0.6 lbs. of “covered electronic devices” for every pound of video display device sold to Minnesota households
 - The “Covered Electronic Devices” includes all video display devices **and** desktops, peripherals, fax machines, DVD players, VCRs – from households only
- Obligation based on current sales
- First program year starts **July 1, 2007**



2. Texas

- An Individual Producer Responsibility law for computer equipment only – **NO TVs**
- Requires producers of computer equipment to have a recycling plan for their branded products
- Requires producers to put their brand on their equipment
- Maximum flexibility for recycling plan scope, extent and approach
- Supported strongly by Dell



3. Oregon

- Think “Washington” but where the state runs the standard plan
- “Covered Electronic Devices” are desktop and portable computers, monitors and TVs >4” viewable area
- “Covered Entities” are slightly different from Washington:
 - Households
 - Businesses of non-profits that employ 10 or fewer individuals
 - Any person giving seven or fewer covered electronic devices to a collector at any one time
- Manufacturer obligation based on return share determined by the state by each May 1
- Full implementation kicks in January 1, 2009, but manufacturers paying state to recycle must pay by September 1, 2008



4. Connecticut

- Think “Maine” but with a broader scope of products
 - Desktops are covered in Connecticut, but not in Maine
- The state DEP approves recyclers and recycler reimbursement rates
- Starting January 1, 2009 approved recyclers count brands for all returned covered electronic devices and bill manufacturers for their brands + an orphan share at the state-approved reimbursement rate



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