



Electronics Recycling in the US:

Consumers, Local Govt and State Laws

MWCOG Recycling Committee

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National Center for Electronics Recycling (NCER)



About Us

National Center for Electronics Recycling:

- Non-profit 501c3, est. 2005
- Located in Parkersburg, WV
- Involved in Federal, State & Association Projects
- Conduct Research, Run Collection Programs
- Partner with NERC on Electronics Recycling Coordination Clearinghouse
- Manage Oregon State Contractor Program
- Our Mission: Dedicated to the development and enhancement of a national infrastructure for the recycling of used electronics in the U.S.



Where Do We Stand with E-Scrap in the US?

Positives:

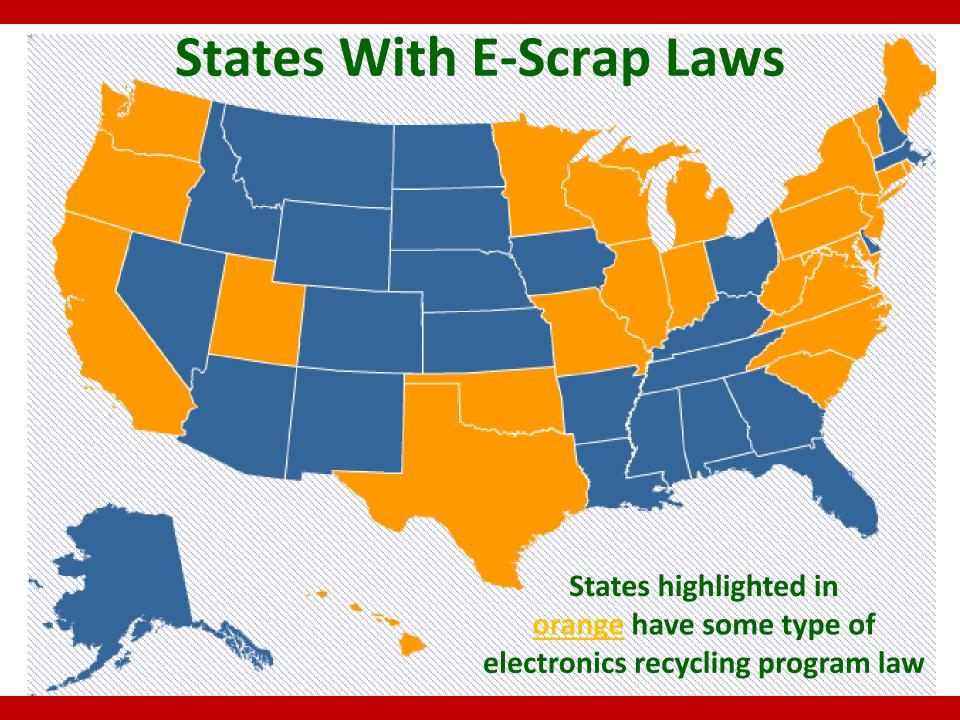
- More collection, including voluntary and mandated
- Better recycling more certified facilities every week

Challenges:

- Some gaps across country, esp TV collection
- True patchwork of approaches on state laws
- Ensuring environmentally sound recycling

How do consumer and local governments participate?

- Manufacturer and Retail Voluntary Programs
- Buy back programs (certain devices)
- Independent Collection Events and Programs
- State Law Programs



Stuck on 25 since 2011

■2003: California

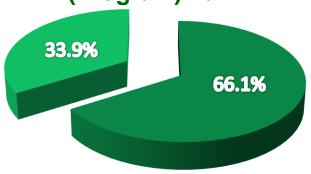
■2004: Maine

■2005: Maryland

■2006: Washington

■2007: Connecticut, Minnesota, Oregon, Texas, North Carolina

Percentage of Population Covered by E-Scrap (Program) Law



■2008*: New Jersey, Oklahoma, Virginia, W. Virginia, Missouri, Hawaii, Rhode Island, Illinois, Michigan

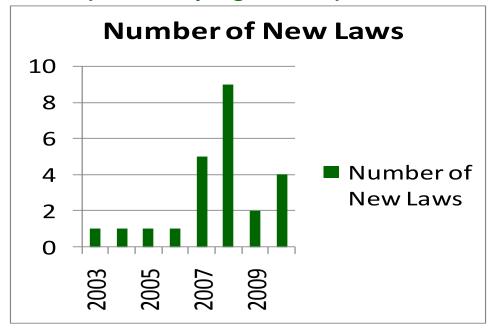
■2009: Indiana, Wisconsin

■2010: Vermont, South Carolina,

New York, Pennsylvania

■2011: Utah

■2012: (CO – not program law)



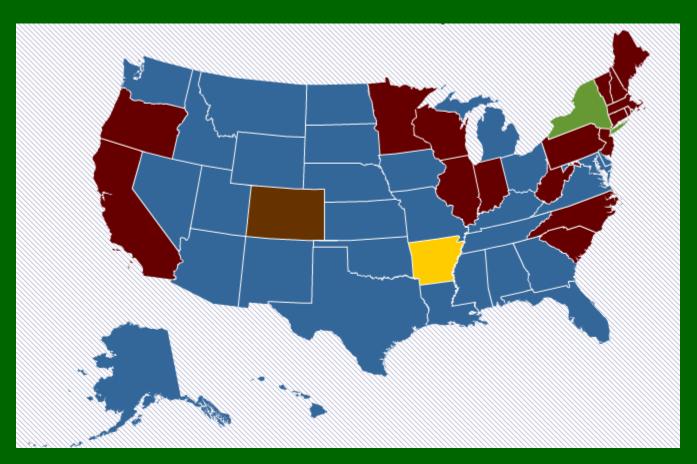
MD and **VA** Laws

- DC no law, but recycling activities/ events
- Maryland law:
 - 3rd to pass, covers computers, monitors, TVs
 - Manufacturers pay annual fee to MDE, can reduce with takeback program
 - Roughly ¼ of manufacturers (100 total) offer takeback (usually mailback)
 - MDE distributes grants to local govt w funds from manufacturer fees
 - In 2011, collected over 17 million lbs, 3 lbs per capita. BUT, total is not just law program
 - No statewide landfill ban

MD and VA Laws cont'd

- Virginia law: passed 2009, based on model first passed in TX
 - Covers IT equipment only (no TVs)
 - Manufacturers must file recovery plans, report on totals; unlike MD, no fees to state
 - Most offer mailback programs, but some have agreements with in-state collectors; submit annual results to state
 - In 2012, manuf recovery plans (50) reported 3.3 million lbs collected, or 0.4 lbs per capita
 - No statewide landfill ban

States With Landfill Bans (household) One or More Electronic Devices



NOT all Program Law States Have Bans! And Vice Versa Red - have active landfill bans; Yellow – not in effect Green (NY) - has a staged ban partially in effect.





Who are Collectors?

- Many entities: local government sites, non profit donation centers, retailers, electronics repair stores, others
- Receive devices from public, sort and prepare for shipment
- Number and type vary under state laws; many others outside law programs

Responsibilities for local govt collectors under state laws

- Few states with registration, fees very rare, find program/recycler, meet basic responsibilities
- Important factors when a collector:
 - Who will manage the collected material? How will they be selected
 - Are they certified? R2 and e-Stewards
 - Is the recycler working under a manufacturer program, and if so are there limits?

How to Participate with Voluntary Programs?

- Check sites for coverage in your area
- Contact program administrator
- Know key facts beforehand, i.e. historic volume collected, mix of product types, doing reuse or refurbishment
- Review terms of participation agreement

Consumers

- What to do when you have an unwanted product?
- First, determine reuse/resale capabilities
 - Cell phones, tablets, laptops may still be eligible for buyback
- Larger devices (monitors, TVs), seek out local collector
 - Local government recycling center, non-profits, retailers
 - www.greenergadgets.org (NCER gathers data), but others also like earth911 and state sites
- Ask questions! Who is the recycler, and are they certified
 - Check <u>www.r2solutions.org</u> and <u>www.e-stewards.org</u> to verify
 - Ask about data security practices; also best to wipe/destroy data before giving to recycler

Why Not a Federal Program?

- Attempt in early 2000's –
 4 years of negotiations but no agreement
 - States started own laws, rest is history
- Congress: limited activity
 - 2 years ago R&D moved far, but failed
 - Export restriction bill introduced several times
- More Attention in Administration
 - Interagency Task Force Report in July 2011
 - Focuses on Federal Agency actions, purchases
 - Export Studies EPA and USITC
 - Push for recycler certification R2 and e-Stewards
 - EPA FAQ's on CRT management

Conclusions/Outlook

- More recycling, better recycling over last 10 years; still risks and challenges
- How will CRT markets impact current programs more changes, will new technologies deliver?
- More data in 2013-14
 - Most states will have at least 2-3 years of results
 - Working through Electronics Recycling Coordination Clearinghouse (ERCC) to harmonize where possible
 - Registration, data standards, market share reports
 - Standardized metrics help compare performance
 - Look beyond lbs as only measure of performance
 - State awareness surveys planned

Thank You!

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Visit us on the web: www.electronicsrecycling.org and www.ecycleclearinghouse.org