

Electronics Recycling Update

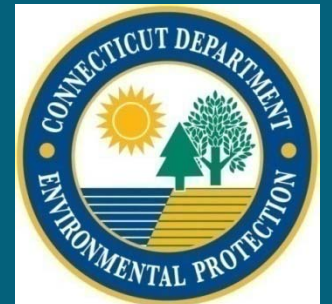
Are we there yet?

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Connecticut Department of Environmental
Protection
November 19, 2008



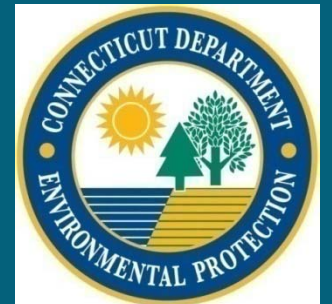
Law Fundamentals

- Passed in 2007
- Scope – computers, televisions, monitors from households only. Printers proposed to be added in regulation
- Based on a Producer Responsibility Model – Manufacturer financed
- Disposal ban in 2011



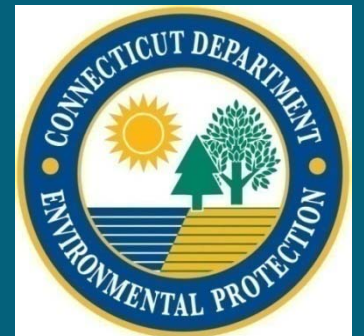
Stakeholders

- Manufacturers
- Municipalities
- Recyclers
- DEP
- Retailers



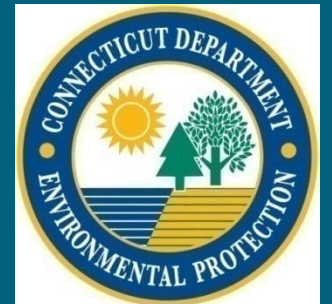
Manufacturers

- Finance transportation and recycling of covered electronic devices
 - TV's by market share
 - Computers by actual returns
- Register with DEP and pay administrative fees
- May have their own branded devices diverted to their designated recycler.
- May operate a private program



Municipalities

- Provide collection for their residents
- Make residents aware of time and location of the collection(s)
- Submit a collection plan to DEP
- Report to DEP in accordance with permitting requirements



Recyclers

- Apply to the state to become an approved recycler
- Approved recyclers are authorized to bill manufacturers for eligible costs
- Must comply with management standards established by the DEP through regulation



DEP

- Approve recyclers including the rates they can charge
- Public education
- Determine market share for administrative fees, TV financing and orphan share
- Compliance assurance
 - Manufacturers register and are paying their share
 - Retailers are only selling compliant products
 - Audit recyclers as needed
- Update regulations as needed



Retailers

- Sell products from manufacturers that are compliant with the law.
- Disseminate information provided by the DEP to customers concerning the electronics recycling program.



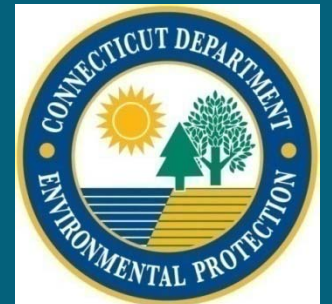
Standards for Recyclers

- Reuse when technically and economically feasible
 - must be prescreened in this country
 - Reuse for its intended purpose not a covered cost
 - Demonstrate a known market
- Downstream due diligence of markets
- Export restrictions – haz materials removed
- Data security
- Insurance and closure plans
- EH&S plans including downstream vendors



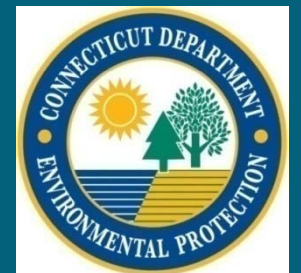
Municipal check list

- Check permit status
- Develop a collection plan and submit to DEP
- Select a recycler
- Public awareness



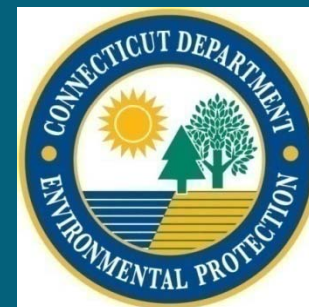
Permitting Status

- Transfer Station General Permit – includes electronics, storage limit will increase to 10,000kg
- Recycling General Permit – will not be renewed for municipalities. Move to transfer station general permit or individual. Limit to stay at 5000kg
- Individual permit
 - Includes electronics – limit increased to 10,000kg
 - Does not include electronics – permit to be modified by DEP letter with no fee.



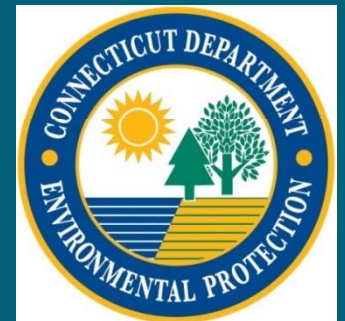
Permitting Scenarios (cont.)

- No permitted site – Use other municipal site using universal waste management standards, consider transfer station general permit.
- Permit application pending with department – When approved will include electronics. Meanwhile, existing permit will be modified to allow for electronics with no additional fee.



Develop a Collection Plan

- Work alone or regionally?
- Select a collection option
 - Transfer station (preferred)
 - one-day
 - retail
 - Hybrid
- Inform residents about collection system
 - Mailer, website information, press release
- Any special considerations?
 - Curbside for large televisions?
- Submit plan to DEP



Selecting a Recycler

- Must select a company from the approved recycler's list
- Considerations:
 - Experience
 - Existing relationship
 - References
 - Pick-up schedule
 - Costs for other items
- Town may have additional requirements:
 - No export
 - Greater insurance than required
 - Higher rates of reuse
 - Higher standards for data security
 - Industry certification



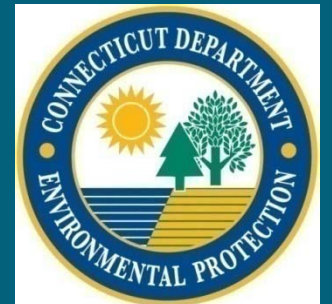
Establishing a Collection Goal

- 4 pounds per capita per year
- Includes all electronics not just those mentioned in the law
- Based on data and goals from other states including Maine and Minnesota
- Differences in demographics?
- How will the goal be used?
 - Evidence of underperforming programs
 - Report on progress to legislature



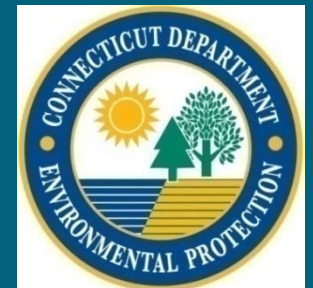
Industry trends

- Consolidation, acquisition of smaller recyclers
 - 70% had been approached in the last 12 months to sell their business
- Major manufacturers partnering with recyclers
- MRM (Panasonic Sharp and Toshiba) formed to assist manufacturers with recycling programs. Plans to establish a nationwide program.
- Manufacturer run private programs



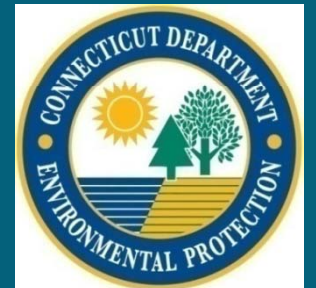
Chronology

- November 2008
 - Municipal plan form mailed out
- December 2008
 - Release draft regulations to stakeholder group and hold a conference call
 - Go to public comment on regulations
- April–May 2009
 - Complete regulations
 - Finalize municipal plans
 - Finalize recycler application form
- July 2009
 - Develop list of approved recyclers
- August 2009
 - Program implementation



DEP Ewaste Survey Results

- 75% have gotten rid of a TV, Computer, monitor or printer. Of those (403 respondents) 50% have recycled at a one-day, 36% at a town site.
- 65% have purchased a TV, computer, printer or monitor in the previous 12 months
- 72% have a TV computer, monitor or printer not in use in their house
- 39% indicated they were aware of what their town offered for recycling of electronics
- 96% aware of digital conversion
- 45% state they have a TV that is not digitally ready
- 8% intend to buy a new TV due to digital conversion



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