

• EWASTE IN NH

Tara Mae Albert, M.S. SWOT Coordinator

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DISCUSSION POINTS

- What is electronic waste:
 - As defined by NH Statute
 - As defined by NH facilities
- Statutory Ban
- o BMPs
- Types of Recyclers
- Markets



WHAT IS ELECTRONIC WASTE?

Statutory Definition

- RSA 149-M: VIIIa
- Includes computer monitors containing a cathode ray tube, laptop computers, liquid crystal display (LCD) computer monitors, plasma and LCD televisions, printers, cell phones, copiers, fax machines, and video display media recorder/players.

How Facilities Identify It

- TVs, Computers, and Computer equipment
- Electronics with a screen
- "Anything with a cord"
- ...anything else?

EWASTE STATUTORY BAN

RSA 149-M: 27, IV

STATUTORY BAN

- Some electronic wastes have been banned from landfill or incineration since 2007.
 - Video display devices
 - Central Processing Unit (CPU)
 - Non-mobile video display media recorder/player
- These devices contain heavy metals such as lead, cadmium and mercury.
- Fun fact: Each CRT contains 4 8 pounds of lead.

FACILITY REQUIREMENTS

- Landfills and incinerators must:
 - Post signs regarding the ban;
 - Provide written notification to the facility customers; or
 - Have agreements with the customers.
- It is the responsibility of SW facilities to ensure that these items are not landfilled or incinerated.





BMPs for eWaste

For collecting, storing and transferring.



BEST MANAGEMENT PRACTICES

Step 1: Educate Yourself!

 If you are going to talk-the-talk, you need to walk-thewalk!

Step 2: Educate your residents & customers

Most importantly, give them an alternative!

Step 3: Collection

• Determine what type of collection works best for your facility.



1. EDUCATE YOURSELF!

- Vendors: Near you or used by your neighboring towns.
- Partner with businesses who have a take back program.
- Who are the local and national recycling associations?



TAKE BACK PROGRAMS

- Staples
- Best Buy
- Goodwill/Dell Reconnect
- Call2Recycle
 - Cell phones & batteries
- Wireless Carrier Stores
- Brand owner mail back

- Other options (ever changing):
 - Lowes
 - Staples
 - Radio Shack
 - Sears
 - Home Depot
 - Ace Hardware

2. EDUCATE YOUR RESIDENTS & CUSTOMERS

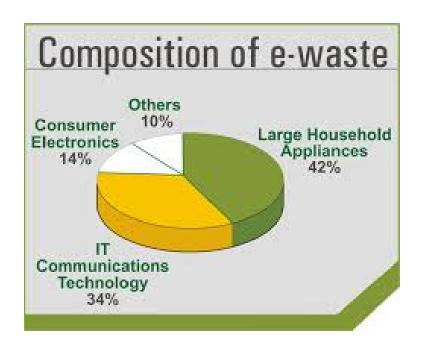
- Let them know why these items are banned
- Donate items that are still viable
- Offer information on take-back programs
- Data Destruction
- Have options



3. COLLECTION

Determine what makes the most sense for YOU!

- One time event
 - HHW Days
 - Partner with vendors and neighboring towns
 - Fundraiser
 - School/Eagle Scout Project
- Permanent Collection
 - All about the storage...



3. COLLECTION & STORAGE

- Under cover
- Clearly marked designated area
- Prevent breakage
- Comply with the Universal Waste Rules, as applicable







BE MINDFUL OF SAFETY

Operators

- Ergonomics
- Electric Shock
- Hazardous Materials:
 - Lead dust
 - Mercury
 - Other heavy metals
- Bruises, scrapes, cuts

Everyone Else

- Traffic flow
- Container placement
- Data Security
- No dumpster diving!!!



Types of Recyclers

The Good, the Bad & the Ugly

RECYCLING COMPUTERS

ADVANTAGES

HEALTH BENEFITS

ECONOMIC BENEFITS

MORE JOBS

CONSERVES RESOURCES

SUPPORTS THE COMMUNITY

PREVENTS ABUSE OF RESOURCES

DISADVANTAGES

SORTING

TOXIC MATERIALS

PREVENTING DONATION

IDENTITY THEFT







Types of Recyclers

- Asset Recovery
- Reuse/Repair/Remanufacture
- Demanufacturing
- Shredding
- O Broker

Regardless of the Type of Recycling, you need to use a Certified Company.





CERTIFIED RECYCLER

A facility that has received a 3rd party audit that verified that it meets the requirements of either the R2 or e-Stewards Standard.

- Worker health & safety
- Regulatory & permitting compliance
- Data security

- Hazardous waste management
- Insurance
- Closure plans
- Financial assurances

CURRENT RECYCLING MARKETS FOR ELECTRONICS

MARKETABLE MATERIALS

- Plastic
 - Reused or burned for energy
- Metal: Al, Cu, Precious metals
 - Recovered & Reused
- o Circuit Board
 - Reused, Repaired, Smelted
- o Non-CRT Glass
 - Repurposed as asphalt, abrasives, industrial applications

MARKETABLE MATERIALS

- Batteries
 - Reused or recycled
- Hazardous Components
 - Reused or Recycled
- o CRT Glass
 - Lead smelters
 - Copper metal recovery
 - Glass-to-Glass recycling
 - Reused or resold
 - Exported

