

E-waste Legislation and Policy: The State and Regional Perspective

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E-waste in Minnesota



Environmental Assistance

- CRT disposal ban implemented July 1, 2006.
- In 2005, 56 counties reported collecting 13.9 million pounds of e-waste.
- Estimate of 9.7 million pounds of video display devices.
- Collection opportunities range from one day collection events to curbside.
- New state contract available for public entities.

Recycling Infrastructure



Environmental Assistance

- 5 major recyclers.
- Lacking end markets for plastic and glass.
- Glass shipped to WI and OH.
- Commodity prices are high making economics more favorable.

Legislative Activity



Environmental Assistance

- Identified as priority product for stewardship in 1999.
- Legislation considered 2002-2006.
- Waste Management Task Force created during 2005 session.
- Developed legislation:
 - OEMs report sales of VDDs from previous year.
 - Sets obligation for current year.
 - May apply CEDs to obligation.
 - If short, then remit .50 per pound.
 - Additional credit for material from Greater MN.

NEPSI



Environmental Assistance

- Multi-stakeholder initiative from 2001 to 2004.
- National approach.
- Scope of products: TVs, monitors, CPUs, laptops, small peripherals, printers.
- ARF to transition to partial-cost internalization.
- Base-level of service.
- Alternative system was to be devised.
- Support for TPO and ESM.

California



Environmental Assistance

- SB 20 enacted in September 2003.
- Fee collection began January 1, 2005.
- ARF at point of sale on TVs, laptops and monitors.
- \$6-10 dependent upon size of screen.
- CIWMB payment for collection and recycling.
- Adopts RoHS restrictions.
- 300 + collectors and 40 approved recyclers.
- \$34 million collected, \$16 million for 34 million pounds (2005).

Maine



Environmental Assistance

- Covered electronic devices (CEDs) include monitors, laptops and televisions from households.
- Program began January 2006.
- Municipalities must provide for delivery of CEDs to consolidation points.
- Consolidators invoice OEMs for handling, transportation and recycling of CEDs.
- Responsibility apportioned by return share to 78 brand owners. 29 have orphan share responsibilities.
- DEP selected five consolidators.

Maryland



Environmental Assistance

- HB 575 Signed by Governor in April 2005.
- Five-year pilot program.
- Addresses monitors, desktop and laptop computers.
- OEMs with sales of 1,000 or more units must register and pay \$5,000.
- If own program, fee is \$500.
- MDOE expects between \$500,000 and \$750,000.
- Funds disbursed by state MDOE for local government programs.

Alberta



Environmental Assistance

- Implemented through regulations.
- Visible fee at point of first sale.
- Fees range from \$5-\$45 depending upon product.
- Fee covers collection, transportation and recycling.
- OEMs/distributors/retailers remit to TPO.
- Approximately 1,200 fee payers.
- October 1, 2004 implementation date.
- Managed by Alberta Recycling Management Authority.

NERC/CSG



Environmental Assistance

- Ten state effort to develop model legislation.
- TVs, monitors, PCs, printers, small peripherals.
- OEM responsibility based on previous years sales.
- Operate own program or pay per pound fee.
- Model legislation released in April.
- Introduced in NY, DE and PA.
- Expect consideration in 2007.

Electronics Recycling Program Attributes



Environmental Assistance

- Ensure compliance and level playing field.
- Function in economically-efficient manner.
- Utilize existing infrastructure.
- Address products by current brandowners and orphan products.
- Minimize government responsibilities.
- Provide incentives for multiple participants.
- Ensure convenience for residents (broad scope of products).

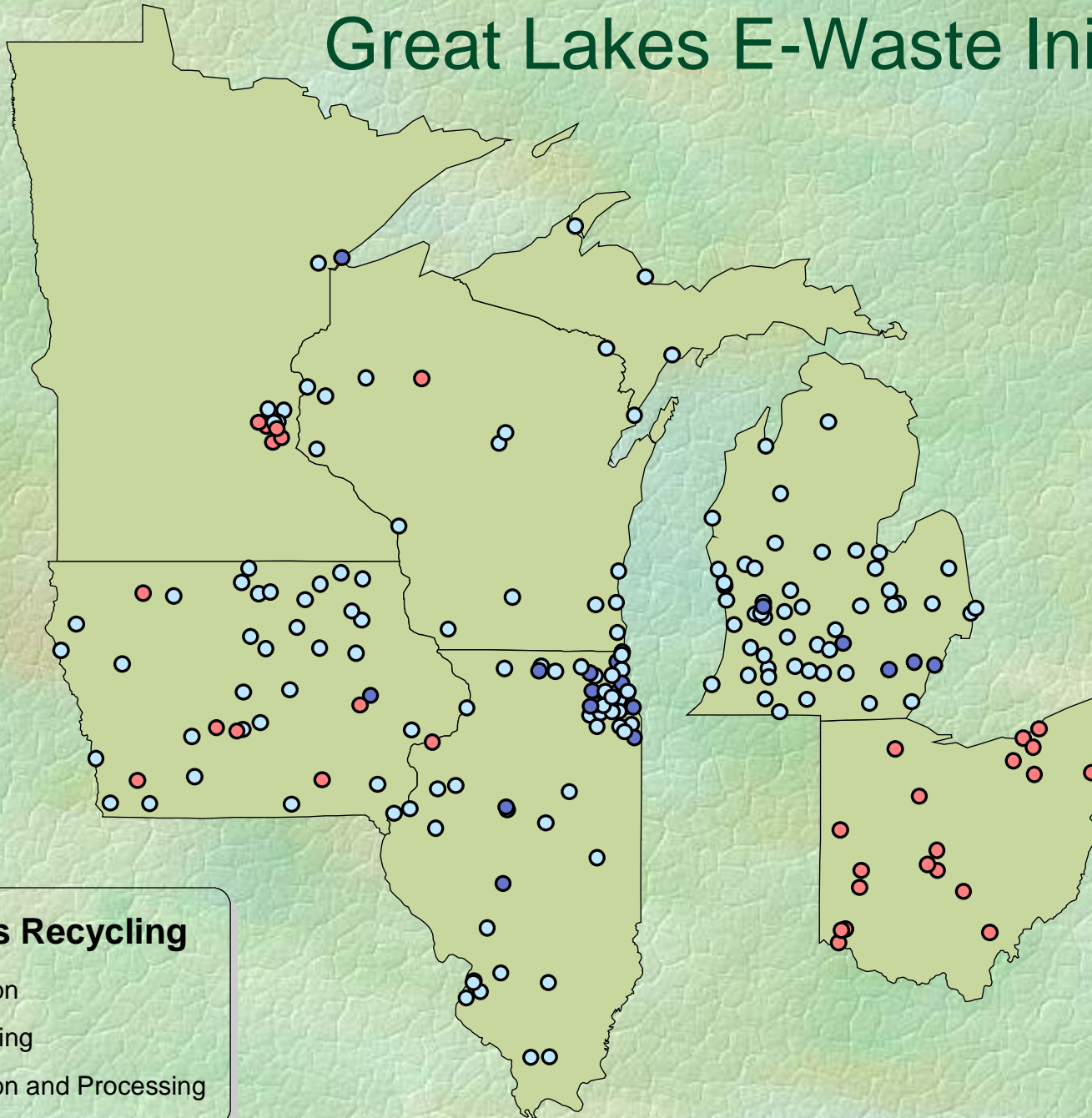
Great Lakes E-waste Policy Development Initiative



Environmental Assistance

- MN, WI, ILL, MI, and IA.
- State agency participation.
- Support consistent, harmonized approach to e-waste legislation.
- Shared infrastructure and administration.
- Stakeholder meeting and comments during fall.
- Policy statement released April 2006.

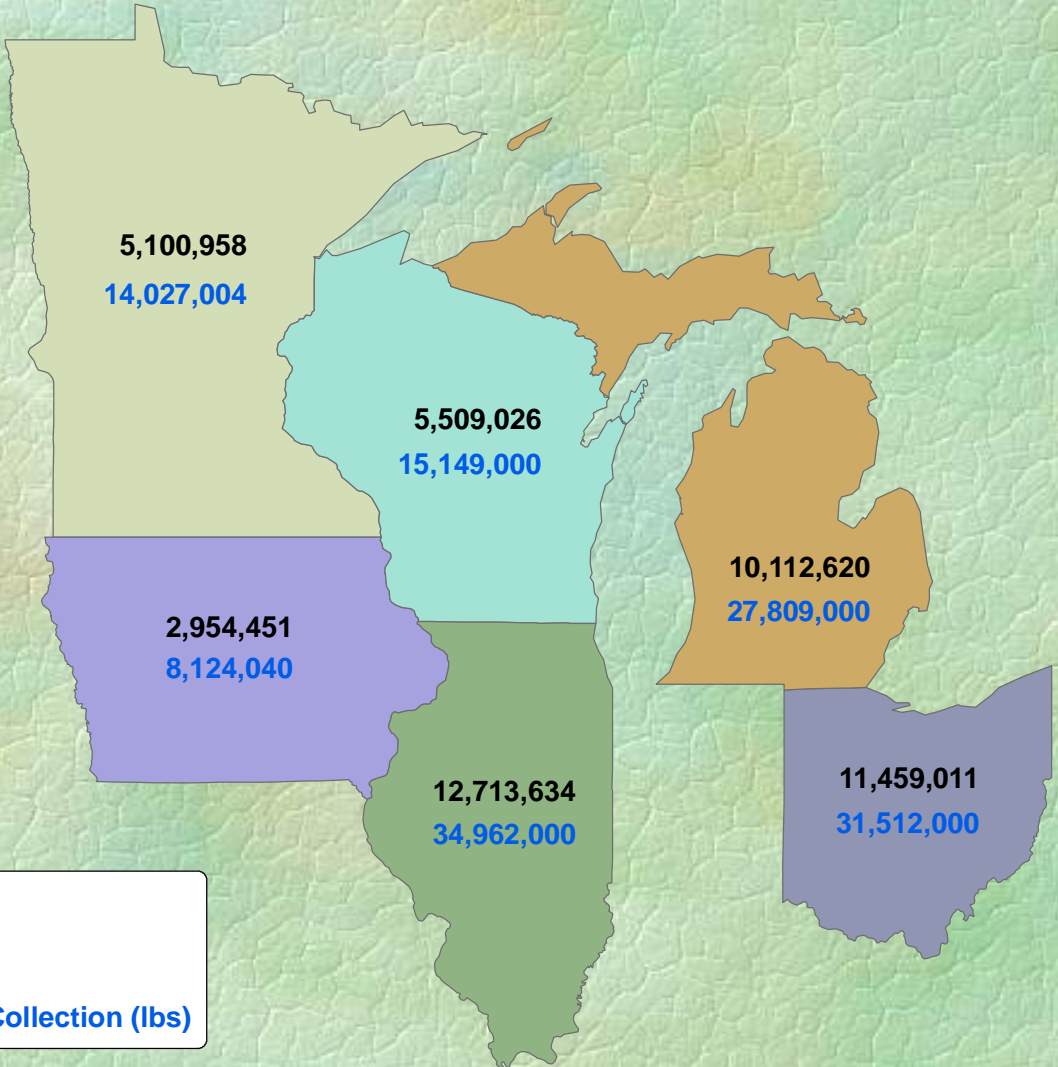
Great Lakes E-Waste Initiative



Electronics Recycling

- Collection
- Processing
- Collection and Processing

Population and Estimated Electronics Collection Volume



Legend
Population
Estimated Collection (lbs)

Expected Returns and Costs



Environmental Assistance

- 2004 Hennepin County per capita collection rate: 2.75.
- Average annual volume increase of 19 percent from 1998-2004.
- Population is 48 million (17 percent of US).
- Total volume of 131 million pounds (residential only).
- Per pound estimate of .48 per pound for collection, transportation and processing.
- Cost estimate: \$ 66 million.

Issues for Consideration



Environmental Assistance

- Promote product stewardship.
 - Define and allocate responsibility.
- Local economic development and system efficiency.
- Differing business models and need for a level playing field.
- Regional considerations.
 - Fee collection
 - Administration
 - Delegation of authority
- Need for Congressional action.

For more information



Environmental Assistance

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- <http://www.moea.state.mn.us/stewardship>