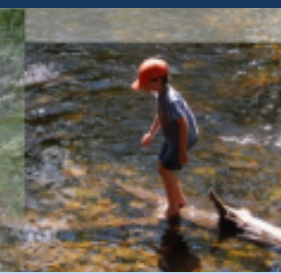
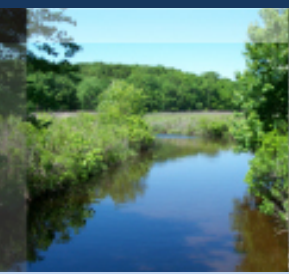




Connecticut Department of Energy and Environmental Protection



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

Household Electronic Waste Recycling: Marketplace in Connecticut



November 7, 2014

Mark Latham

NERC Fall Conference/ Amherst, MA



Connecticut Department of Energy and Environmental Protection

Past: Development of Electronics Recycling

- Since early 2000's, Municipalities / RRFs / SW Facilities began seeing increasing quantities of used electronics (E-waste) in municipal wastestream
 - Many municipal / regional budgets supported separate collections for E-waste recycling - "It was the right thing to do..."
 - Quickly created financial burdens on towns
 - Advent of end-of-life management BUT without shared responsibility component or financing
- Necessitated new recycling policies



Overview of CT's E-Waste Law

- In 2007, [P.A. 07-189](#) established Consumer Covered Electronic Devices (CEDs) Recycling Law

- Use of existing infrastructure, most collections points are town transfer stations
 - free and convenient for residents (limit of 7 per trip)
 - Voluntary, outreach based program for residents
 - 100% of CEDs collected reimbursed by manufacturers
 - Recyclers vetted and approved by CT DEEP
 - Recycling prices set by CT DEEP
 - Performance standards based on EPA's Plug-In to E-cycling Guidance
- 6/1/2010 – Adopted Regulations / Added Printers
- 2/4/2011 - Began Implementation with Recycler Approvals (CERs)
- Currently [7 CERs](#), 1 located in CT, various CT partners



What's Happening in CT with Electronics?



E-waste Recycling. [Photograph]. Retrieved from:
<http://www.hometips4women.com/recycle-e-waste-for-a-greener-world>

- Legislation: Driver for changing marketplace
 - Holds manufacturers financially responsible
 - Lessens burden on municipalities
 - Sets price for recyclers
 - Develops new recycling markets
 - Creates jobs!



Economic Viability*

- Estimated recycling jobs created in CT: E-Waste

2013/14 CT E-WASTE JOB NUMBERS BY CER & PARTNERS¹

Current Jobs (Since Becoming CER)				2014 Projected Additional Jobs			Totals
DEEP-approved Recyclers	CT Jobs (FTE)	Jobs Created Outside of CT	Total FTEs (CT and Others)	CT Jobs (FTE)	Jobs To Be Created Outside of CT	Total Projected Jobs	Total CT Jobs (Current + Projected)
Ecovanta	3	2	5	2	2	4	5
ERI	6	0	6	0	0	0	6
Newtech	13	9	22	2	4	6	15
RMG	6	6	12	2	1	3	8
Creative	8	10	18	60	0	60	68
Metech	1	0	6	1	2	3	2
	37	27	69	67	9	76	104

GRAND TOTAL FTE (Current)

69

GRAND TOTAL FTE (Projected 4Q14)

145

2013/14 Percentage Increase

110%

Note: 104 of 145 FTEs are expected to be located in CT by December 31, 2014 (72%).

¹ FTEs reported by DEEP-approved Covered Electronic Recyclers.

*Add 25 new CT jobs with CER approval of Take 2, Inc. in 3/14

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Program Highlights / Creating New Markets

- Material Flow – Over 35,000,000 lbs. recycled in first 2.5 years (2011-2013)
- Saved \$1.5 million in recycling/ disposal costs for municipalities
- Driver for responsible recycling CRT glass
- 54 CT jobs created



[2014 Annual Report on Connecticut's Consumer E-Waste Recycling Program](http://www.ct.gov/deep/lib/deep/e-waste/2014_e-waste_annual_report_final.pdf)

[http://www.ct.gov/deep/lib/deep/e-waste/2014_e-waste_annual_report_final.pdf]



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Future of Electronics Recycling

- Electronics recycling is here to stay...
 - Advent for other Extended Producer Responsibility laws in CT
 - Helps Design for the Environment
- Future Challenges:
 - Payments for municipal/regional collections
 - Lower value commodities
 - Recycling smaller, non-repairable devices
 - Mfr reimbursements based on price/pound or units?
 - Reuse / Refurbishment
 - Financial difficulties for approved CERs
 - Management of CRT glass
 - Are mercury-containing devices the next CRT glass?
 - Staff resources needed to review recycler applications annually (Dec 1 – Jan. 31)
 - Enhanced outreach to households to increase awareness (currently 60/40)
 - Enforcement of Program Elements against non-compliance



E-waste. [Photograph]. Retrieved from:
<http://www.sprig.co.za/2013/04/e-waste-recycling-this-saturday-6th-april/>



Questions?

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