



Electronic Recyclers International, Inc.

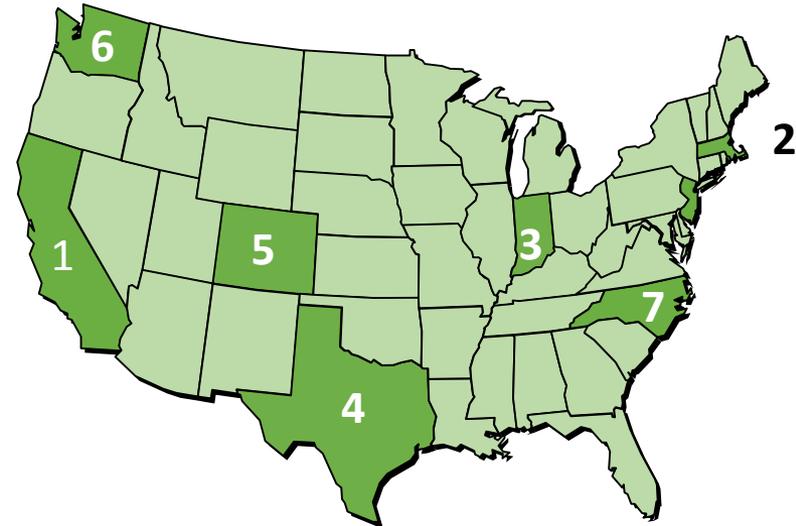
Electronic Waste Management in California

September 14, 2016



1. ERI has 7 Processing Facilities Nationwide

- California
- Washington
- Colorado
- Texas
- Indiana
- North Carolina
- Massachusetts



2. ERI participates in 26 state programs including California's

- ERI has been a part of CA e-waste program since January 2005
- ERI has participated in all other states programs starting in 2010



1. ERI started in January of 2003 in California
 - 2003 to 2005 ERI charged the customer
 - 2005 began operating under CA SB20/50 program
 - Most successful program in the United States
 - Payment made on true recycling of video displays
 - Consumers aren't not complaining about additional tax at purchase time

2. ERI began participating in other states programs starting in 2010
 - Each state varies on what is covered in there programs
 - Contract with Manufacturers for lbs to be recycled each year
 - Manufacturer pays us the recycler for collection and processing
 - In some states we contract with state directly (Washington)
 - Yearly contract
 - State determines when and what material you get based on pricing you submit



1. SB 20/50 Challenges

- Video Display Product Stream changing every day
- Smaller and Lighter
- More Labor involved
- Adding additional electronics such as printers
- Ever Changing Commodity Market



2. Potential Solutions

- CalRecycle has always looked to the future when evaluating this program
- Work with stakeholders on true costs of new age video display recycling
- Work with stakeholders on adding other electronics
 - Understand commodities of those items
 - Labor to truly recycle them



1. Costs applied to consumers and residents
 - 20 states require collection and recycling to be free to residents and consumers
 - 1 requires free collection for computers only
 - Some states allow charging for premium services
 - Curbside collection or home pick ups
 - Adding additional electronics such as printers
 - Ever Changing Commodity Market

2. Costs applied to local governments
 - Illinois, New Jersey and Pennsylvania prohibit charging to local governments
 - Michigan can charge a local government but the local government cannot charge residents
 - Indiana you can charge a local government and they can charge the residents



1. Recycling not collection

- Accountability lies with the manufacturer to make sure material collected is handled properly in most states programs
- The state operated programs selects the recyclers
 - Connecticut
 - Provide downstream vendor info
 - Report CRT accumulation each month to DEEP
 - Maine
 - Provide Downstream vendor info
 - State inspects every few years and request CRT 3 month random sampling
 - Rhode Island
 - Requires Recyclers to be R2 certified
 - Oregon
 - State contractor has to audit recyclers and confirm compliance with there program
 - Vermont
 - State contractor has to audit recyclers and confirm compliance with there program
 - Washington
 - Subject to audits by DOE

Economics

- Depends on the manufacturer you are working with
- Collection Network
- Competitive landscape
- State Run programs



Pounds Per Capita of Covered/Eligible Electronics in State Law Programs

	2009	2010	Total pounds % change	2011	Total pounds % change	2012	Total pounds % change	2013	Total pounds % change	2014	Total pounds % change	2015	Total pounds % change
CA	5.03	5.29	5.6%	5.25	0.5%	5.65	7.9%	5.31	-5.6%	4.74	-10.6%	4.51	4.8%
CT				2.7		3.2	15.7%	3.82	16.6%	4.09	6.6%	4.27	4.4%
HI		2.38		2.55	7.7%	2.79	9.6%	2.95	6.3%	2.98	2.3%	1.8	-36%
IL		2.35		2.04		3.02	32.5%	3.66	17.5%	3.37	-8.7%	3.94	17.0%
IN		3.35		3.76	11.4%	3.13	-19.9%	3.12	0.1%	3.36	8.1%	3.15	-4.83%
ME	6	4.04	-47.4%	5.22	22.5%	5.6	6.8%	6.16	9.1%	6.37	3.6%	6.39	.03%
MI		0.8		1.95	58.9%	2.79	30.0%	3.05	8.7%	2.6	-14.6%	2.01	-22.60%
MN	5.75	6.54	12.7%	6.17	-5.2%	6.53	6.0%	6.01	-7.7%	6.52	8.4%	6.96	6.74%
MO		0.37	100.0%	0.35	-5.1%	0.33	-7.3%	0.55	40.3%	0.37	-50.3%		
NC	0.83	0.96	14.8%	2.51	62.2%	4.39	43.5%	3.63	-19.8%	3.83	6.2%		
NJ				3.88		5.43	28.9%	4.34	-24.6%	5.18	16.6%		
NY				2.3		3.96	42.2%	5.06	22.1%	4.9	-2.8%		
OK	0.22	0.68	68.0%	0.83	18.9%	0.64	-30.1%	0.67	6.3%	0.65	-2.7%	.68	4.61%
OR	4.96	6.3	21.4%	6.69	6.7%	6.84	2.9%	7.06	3.8%	6.91	-1.1%		
PA						2.47		3.41	27.6%	4.88	30.3%	4.87	-.002%
RI	2.73	4.45	38.5%	4.55	2.2%	1.6	-184.5%	5.5	70.9%	4.97	-10.3%	5.00	.006%
SC						0.72				1.3		2.1	
TX	0.58	0.78	26.0%	0.62	-22.8%	0.78	22.0%	0.79	1.9%	1.41	45.4%	1.34	-0.35
UT						2.98		2.62	-11.8%	2.9	10.9%		
VA	0.48	0.56	14.8%	0.46	-19.3%	0.41	-9.8%	0.5	17.7%	0.38	-23.2%	.26	-31.5%
VT						7.7		7.78	1.2%	7.8	0.2%		
WA	5.78	5.87	2.3%	6.18	6.5%	6.3	2.9%	6.48	3.8%	6.28	-1.8%	6.03	-4.10%
WI		3.66		6.15	40.8%	6.83	10.1%	6.75	-0.9%	6.46	-4.2%	5.16	-20.20%
WV	0.82	0.72	-10.9%	1.66	56.5%	1.55	-7.2%	1.81	14.4%	1.37	-23.8%		



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