

# Overview of Waste Electrical and Electronic Equipment Program

## ***Program Scope***

The Waste Electrical and Electronic Equipment (WEEE) Program Plan was launched on April 1, 2009 to collect and divert computers, monitors, computer peripherals, printers, fax machines and televisions. The Program was expanded on April 1, 2010 to include floor standing printers and copiers, telephones and other personal communication devices as well as cameras and other audio/visual equipment for a total of 44 types of electronics.

The WEEE Program is managed by Ontario Electronic Stewardship (OES), a not-for-profit organization with a Board comprised of brand owners and first importers (i.e. manufacturers and distributors) of electronic equipment, with oversight by Waste Diversion Ontario (WDO), under the *Waste Diversion Act, 2002* (WDA).

Under its Program Agreement, OES provides regular reports to the WDO Board of Directors as well as submitting an annual report with audited financial statements that, following review, is posted on the WDO and OES websites.

## ***Program Funding***

The WEEE Program is funded by the brand owners, first importers and assemblers (referred to as 'stewards') of the equipment being collected and diverted through fees levied by OES. The fees are calculated, using an approved fee setting methodology, based on the costs to collect and manage electronic waste. Fees are reviewed annually.

OES charges fees to stewards. Individual stewards decide how to manage this new cost of business within their companies and may choose to absorb the fees they pay to OES or pass them along to their customers.

## ***Program Accessibility***

OES is responsible for establishing a collection infrastructure to provide accessibility to residential and institutional, commercial and industrial (IC&I) generators of electronic waste. This collection infrastructure includes:

- 106 municipal and 407 non-municipal depots for a total of 513 depots as of September 2010, compared to a target of 413 depots for the program year April 1, 2010 to March 31, 2011
- 116 municipal events, 110 non-municipal events and 24 OES Round-up events for the program year April 1 2009 to March 31, 2010
- 78 municipal events, 276 non-municipal events and 19 OES Round-up events held between April 1, 2010 and September 30, 2010
- Household collection services such as Sears Canada and Sony Canada offering e-waste collection service to customers who are having products delivered and City of Toronto offering curbside collection of small, hand-held waste electronic items.

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96% of Ontarians are within 25 km and 85% are within 10 km of an OES collection depot or event.

### *Year 1 Program Performance*

The quantity of electronic waste collected at municipal and non-municipal depots and events during the first year of the Program, from April 1, 2009 to March 31, 2010, is provided in the following table.

OES Collection Sites	Display Devices (Tonnes)	Desktop and Portable Computers (Tonnes)	Computer Peripherals (Tonnes)	Total (Tonnes)
<b><i>Depots</i></b>				
Municipal	3,552	546	447	4,544
Non-Municipal	8,881	1,236	2,194	12,311
<b>Total Collected at Depots</b>	<b>12,433</b>	<b>1,782</b>	<b>2,641</b>	<b>16,855</b>
<b><i>Events</i></b>				
Municipal	51	5	7	63
Non-Municipal including OES Round-up	276	58	50	15,584
<b>Total Collected at Events</b>	<b>327</b>	<b>63</b>	<b>57</b>	<b>447</b>
<b>Total WEEE Collected</b>	<b>12,760</b>	<b>1,845</b>	<b>2,698</b>	<b>17,303</b>

Prior to the WEEE Program, municipalities and for-profit and not-for-profit companies were collecting, reusing and recycling electronic waste. Since the Program was implemented, some municipalities and companies have chosen to be part of the WEEE Program<sup>1</sup> while others continue to manage e-waste outside of the Program.

Data on electronic waste management outside of the OES Program are limited. It is estimated that 60% to 70% of waste electronics directed to reuse and recycling in Ontario is being managed by OES through the WEEE Program with the remaining 30% to 40% continuing to be managed by collectors and processors not registered with OES.

The following table sets out the quantity of electronic waste collected by OES through its Approved Collectors under the WEEE Program during the first year of operations, from April 1, 2009 to March 31, 2010.

<sup>1</sup> These municipalities and companies are audited against the Program's vendor standards, which were implemented at the direction of the Minister of the Environment, to ensure that the electronic waste is managed to the highest environmental and health and safety standards. Approved Collectors, Approved Reuse and Refurbishment Organizations and Approved Processors participate in the material tracking system that ensures that OES can track electronic waste from collection to final disposition.

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Material Category	Phase 1 Plan Year 1 Collection Targets		Actual Year 1 Collection		Revised (Phase 1&2 Plan) Restated Phase 1 Year 1 Collection Targets (as Baseline) <sup>2</sup>		Actual Year 1 Collection	
	(Tonnes)	(%)	(Tonnes)	(%)	(Tonnes)	(%)	(Tonnes)	(%)
Desktop Computers	9,500	53%	2,703	15%	4,753	57%	2,703	33%
Portable Computers	800	36%	77	4%	854	41%	77	4%
Monitors	13,700	66%	8,140	39%	5,219	89%	8,140	139%
Computer Peripherals	1,100	41%	371	14%	572	47%	371	30%
Printing Devices	4,000	38%	1,432	14%	4,842	35%	1,432	10%
Televisions	12,900	29%	4,581	10%	16,951	52%	4,581	14%
<b>Total</b>	<b>42,000</b>	<b>43%</b>	<b>17,303</b>	<b>18%</b>	<b>33,191</b>	<b>52%</b>	<b>17,303</b>	<b>27%</b>

### Year 2 Program Performance

The quantity of electronic waste collected at municipal and non-municipal depots and events during the first half of the second of the Program, from April 1, 2010 to September 30, 2010, is provided in the following table.

OES Collection Sites	Display Devices (Tonnes)	Desktop & Portable Computers (Tonnes)	Printers, Peripherals. Image/ Audio (Tonnes)	Floor Standing Copiers (Tonnes)	Total (Tonnes)
<b>Depots</b>					
Municipal	1,929	366	705	24	3,261
Non-Municipal	6,457	1,218	3,043	276	10,758
<b>Total Collected at Depots</b>	<b>8,386</b>	<b>1,585</b>	<b>3,748</b>	<b>301</b>	<b>14,019</b>
<b>Events</b>					
Municipal	509	61	206	3	805
Non-Municipal including OES Round-up	294	53	126	16	463
<b>Total Collected at Events</b>	<b>803</b>	<b>114</b>	<b>332</b>	<b>19</b>	<b>1,268</b>
<b>Total WEEE Collected</b>	<b>9,189</b>	<b>1,698</b>	<b>4,080</b>	<b>320</b>	<b>15,287</b>

<sup>2</sup> When developing the Revised (Phase 1 and 2) WEEE Program Plan, OES updated the estimates of electronic equipment supplied into Ontario with sales data reported by stewards and recalculated the quantity available for collection. These data were presented as a restated baseline which, in effect, is a restated Phase 1 Year 1 collection target.

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The following table sets out the quantity of electronic waste collected by OES through its Approved Collectors under the WEEE Program during the first year of operations, from April 1, 2010 to September 30, 2010.

Material Category	Revised (Phase 1&2) Plan Year 1 Collection Targets Prorated for 6 Months		Actual Revised (Phase 1&2) Year 1 - 6 Month Collection	
	(Tonnes)	(%)	(Tonnes)	(%)
Display Devices	12,530	60%	9,070	43%
Desktop Computers	2,968	65%	1,612	36%
Portable Computers	579	42%	100	7%
Floor Standing Printing	219	69%	411	129%
Desktop Printing Devices	3,018	33%	2,293	30%
Computer Peripherals	338	33%	373	57%
Telephone	573	33%	127	8%
Cellular Phones	103	33%	3*	1%
Image, Audio & Video	2,984	33%	1,296	12%
<b>Total</b>	<b>23,309</b>	<b>48%</b>	<b>15,286</b>	<b>32%</b>

Note: CWTA operates a Steward Self Manage program under arrangement with OES but have not yet reported data for the period April 1 to September 30, 2010.

Recognizing that additional efforts are required to achieve program targets, OES is implementing a number of program design changes to attract more e-waste collectors, reusers and processors into the Program and to mobilize residents and businesses to utilize Approved Collectors, Approved Reuse and Refurbishment Organizations and Approved Processors.

### ***Program Improvements***

OES has taken a number of steps to modify the design and delivery of the WEEE Program. The following paragraphs summarize these program improvements. For further details, please refer to the document titled [Waste Electrical and Electronic Equipment Program Continuous Improvement Activities 2010](#).

#### ***Communications***

- Expanding communications activities, utilizing surplus Year 1 revenue together with a higher Year 2 budget to implement targeted residential and IC&I campaigns as well as provide co-funding for marketing of electronic waste collection activities implemented by Approved Collectors

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## *Collection*

- Contracting with for-profit organizations, such as Sears, Best Buy, Future Shop and Staples, and not-for-profit organizations, such as Salvation Army and Computers for Schools, to expand electronics waste collection services across Ontario
- Accommodating municipal collection site constraints by arranging for roll-off container collection, followed by sorting prior to delivery to Approved Processors
- Increasing the Collection Incentive from \$165 to \$200 per tonne

## *Reuse*

- Offering incentives to Approved Reuse and Refurbishment Organizations to encourage more reuse activities and to ensure that information on these activities is reliably reported to OES

## *Recycling*

- Modifying the request for proposal process to contract for processing of electronic waste collected by Approved Collectors and at OES Round-up events to evaluate proposals using two evaluation criteria (recycling efficiency rate at 50 points and price at 30 points) and to select successful bidders using a minimum scoring threshold of 70 points with WEEE divided among the successful bidders based on points received
- Offering incentives to Approved Processors for collection, transportation and processing of WEEE to enable Approved Processors to actively solicit more electronic waste for management under the OES program

## *Stakeholder Dialogue*

- Establishing a forum to provide regular dialogue with Approved Processor and Approved Reuse and Refurbishment Organizations during implementation of the processor and reuse incentive systems