

# Annual Data - Gold

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**Member: LG Electronics, USA**

**Year: 2014**

**Cycle: Annual**

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**Please submit all numbers in tons.**

An asterisk (\*) denotes a required field. Participants cannot submit the data form until all fields marked with an asterisk are complete.

## Total Collected for Reuse & Recycling from all Streams

**Total Collected for Reuse & Recycling:** <sup>1</sup> 24,596.38 *tons*

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**Equipment:** <sup>2</sup> \* 24,551.70 *tons*

**Cell Phones and other Mobile Devices:** <sup>3</sup> \* 5.59 *tons*

**Accessories:** <sup>4</sup> \* 39.09 *tons*

**Total:** 24,596.38 *tons*

## Recycling Data

**Total sent to third-party certified recyclers from All Streams:** <sup>5</sup> \* 24,596.38 *tons*

**Percentage sent to third-party certified recyclers:** 100.00 %

**Has collection increased compared to the previous year? \***

Yes

No

**Please explain company-specific contributing factors (e.g. decrease weight in electronic devices). \***

LG posted increases in both manufacturer-driven collection and collection at service centers in 2014. The net decrease is largely due to corresponding decreases in the collection targets set for LG by states with takeback laws, which are based on sales weight.

**Will you include this explanation in the final publicly-posted report? (Note: You WILL NOT be penalized for not achieving an increase in collection if the rationale is publicly posted). \***

Yes

No

## State Reporting Data

**Total Collected for reuse and recycling from all streams (Note: The total from the below categories should equal the total recycled)**

**Weight of electronics collected in states with take-back laws explicitly to meet these laws. \***

19,780.07 *tons*

**Weight of electronics that exceeds state take-back laws, collected in states with take-back laws. \***

3,076.90 *tons*

**Weight of electronics collected in states without take-back laws. \***

1,739.42 *tons*

**Weight of electronics collected but not attributable to a specific state (e.g., collected by mail-back program, regional agreement, or other method that does not allow a company to track). \***

0.00 *tons*

**Please use this space to convey any details to EPA about your approach for arriving at your state data (i.e., with and without take-back laws) and any company-specific contributing factors and other useful information (e.g., did your company sell pounds to other OEMS? if so, how many?) \***

1) Weight of electronics collected in states for regular take back program to meet state regulation and CEA e-cycle program : 23,998.14 tons \* Connecticut, Maine, Vermont, Washington collections are estimated by state program 2) Weight of electronics collected in state by voluntary collection event : 120.70 tons 3) Weight of electronics collected in our service center (Alabama and Texas) : 467.35 tons 4) Weight of electronics collected in our office (California, Georgia, Illinois, Michigan, New Jersey, and Washington) : 10.19 tons 5) Weight of reuse for resale or reuse from our service center after fix the product, and this weight didn't sent to any recycler because "reuse/resale" material don't need to recycle : 592.80 tons \*This weight is excluded from the above state reporting data. 6) We collected and recycled covered electronic devices to meet state regulation, and caculated the combined products including both equipment and accessories. So weight of equipment (24,551.70 tons ) includes some weight of the accessories.

**Did your company increase collection, recycling and/or reuse in at least one state without a take-back law? \***

Yes

No

**Provide a specific state without a take-back law and actual data (i.e., not derived from an estimate) in which you achieved a total increase in recycling. \***

Massachusetts

**Data: \***

650.24 *tons*

**Please explain how you achieved this increase in the text box below. \***

LG joined CEA (Consumer Electronics Association) e-cycling leadership initiative in 2014, and LG recycled more than 125% of consumer electronics recycling goals set by CEA for 2014 including Massachusetts. We contracted with our own recycler, Waste Management, and processed the tack back activity in Massachusetts from the beginning of the year 2014.

## Reporting Requirements

### Mass Balance/Tracking Throughput

**Have you verified that all recycling vendors used by your company are required to fully account for the organization's used electronics as they enter and leave each facility used? \***

Yes

No

**Provide the methodology used for verification: \***

LG conducted paper audit for each facilities of our recycling partners during June 25th to August 10th 2015. LG Electronics, through its mandatory annual audit procedure, requires recycling vendors to provide sufficient evidence to reasonably conclude that the recycler sends all its removed Focus Materials (FMs), and whole or components containing FMs that have not been removed to downstream vendors whose onsite practices and selection of downstream vendors are fully consistent with the FMs section of the recycler's Environmental Health & Safety Management System (EH&SMS). LG reviewed that our recycling vendors use their customized software system for material tracking, mass balance reporting, all inventory movement and everything in storage has a tag. And all gaylords into and out of the conveyor disassembly area is tagged with weight and description. Mass Balance is done for e-Stewards and same system used for tracking throughput. LG verified all transfers of equipment, components, and materials into (by product type) and out of its facility.

### Beyond 3rd Party Certification Standards

**List company policies or programs for vendors that go beyond third-party certification standards, and verify that the policies are followed by each recycler used. \***

LG Electronics contracts only with recycling vendors who meet our requirements: • Do not incinerate electronic waste or dispose of it in a landfill • No electronic waste may be exported to developing countries • No prison labor can be employed during any phase of the recycling of electronic waste • Recyclers must have sound environmental management systems • Recycling vendors are audited to the requirements of the e-Stewards standards LG Electronics is the first "Global e-Stewards Enterprise", a company committed to responsible recycling of its electronic waste and choosing to use e-Stewards certified electronic recyclers worldwide.

**Our company has verified that all of these policies and/or programs are being followed by each recycler used. \***

Yes

No

**Website where company policies or programs that go beyond third-party certification standards are listed (optional):**

<http://www.lgrecyclingprogram.com/> *Ensure website address begins with http:// or https://*

### Due Diligence

**Have you verified that your company conducts due diligence to ensure that the certified recycler of first entry into the system as well as vendors receiving materials after the initial certified recycler (i.e., downstream vendors) are also certified to an established third-party certification standard or are examined by the company's auditors at least semi-**

**annually to ensure safe management practices? (If a certified body conducts an annual audit , only one additional person or paper audit is required per year) \***

Yes

No

**Provide the methodology used for verification: \***

LG conducted paper audit for each facilities of our recycling partners during June 25th to August 10th 2015. We focused on our main recycler, ERI, Vintage and WMRA, and also audited our minor partners which we use for our service centers. We audited recycler by self-audit check list we provided, or reviewed e-steward/ R2 audit report and additional materials for audit activity. LG Electronics, through its mandatory annual audit procedure, requires recycling vendors to provide sufficient evidence to reasonably conclude that the recycler sends all its removed Focus Materials (FMs), and whole or components containing FMs that have not been removed, to downstream vendors whose onsite practices and selection of downstream vendors are fully consistent with the FMs section of the recycler's Environmental Health & Safety Management System (EH&SMS). In addition, the recycler is required to provide their audit activity that the downstream vendors possess and/or check to: ▪ the R2 or e-Stewards recycler's FM Management Plan ▪ a documented EH&SMS ▪ a list of its environmental permits ▪ exporting requirements ▪ tracking throughput requirements All recycling service providers successfully completed the audits.

## **Certified Recyclers and Programs \***

**Is this information included in the final, publicly-posted report? \***

Yes

No

**List names of certified recycler(s) used and certification programs:**

	<b>Certified Recycler Name *</b>	<b>Certified Program *</b>
<b>1</b>	Electronic Recyclers International, Inc. [ERI]	R2 and e-Stewards
<b>2</b>	WM Recycle America, L.L.C. [WMRA]	R2 and e-Stewards
<b>3</b>	Vintage Tech Recyclers, L.L.C. [Vintage Tech]	R2 and e-Stewards
<b>4</b>	East Coast Telecom, LLC (ECT)	R2 and e-Stewards
<b>5</b>	3R Network Inc.	R2 and e-Stewards
<b>6</b>	GEEP Inc.	R2 and e-Stewards
<b>7</b>	ECS Refining, LLC	R2 and e-Stewards
<b>8</b>	Hesstech	e-Stewards

## **Education & Outreach**

**List and describe public education and outreach activities on safe management of used electronics and available collection opportunities. \***

LG Electronics has partnered with ERI, WMRA, Vintage Tech Recyclers to establish a national recycling program to

collect, transport and recycle electronic waste. During 2014 undertook a significant redesign of the LG Recycling Program website to include more information which the consumer could locate more easily. The website describes the rationale for, and elements of, the program and provides consumers with information regarding free and convenient ways of recycling their used, unwanted, obsolete or damaged consumer electronic products. The site describes the free mail-back program for electronic equipment, cell phones, other handheld devices, and packaging and lists designated eCycling Centers where consumers can drop off their unwanted electronic devices. In addition, the website provides toll-free numbers for our Recyclers' Customer Service and LG Customer Service, as well as Frequently Asked Questions. All electronic products collected under the LG Electronics Recycling Program are recycled in an environmentally sound manner. LG's recycling partners, WMRA, Vintage Tech and ERI are signatories of the Basel Action Network (BAN) Recycler's Pledge of True Stewardship, e-Stewards certified, and maintain environmental quality systems accredited to the requirements of ISO 14001. Consumers may drop off unwanted consumer electronic products, including televisions, monitors, netbooks, tablets, audio equipment, video cassette players and recorders, DVD players and recorders, combination TV/VCR and TV/DVD units, set top boxes and accessories associated with those products.

**Website where public education and outreach activities are listed (optional):**

<http://www.lgrecyclingprogram.com/> *Ensure website address begins with http:// or https://*

## Company Policies Favoring Recycling and Reuse

**List and describe company policies that favor recycling and reuse of electronics equipment and/or components, as opposed to energy recovery, incineration, or land disposal. \***

[1. Product Take-back regulation compliance:] LG Electronics offers a customized e-waste take-back & recycling service that meets local needs and requirements in the countries where e-waste regulations are in place, and also provides product take-back & recycling service voluntarily in some regions. LG Electronics evaluates products' recyclability at the design step selectively, with the goal of improving recyclability where practicable. Through these activities, LG seeks to contribute to conserving natural resources and protecting the environment. Please visit at our global environmental website for the further information. <http://www.lg.com/global/sustainability/environment/take-back-recycling> // [2. Recyclability Improvement] LG Electronics has an internal process in place to manufacture products while taking environmental issues such as product decomposition and recyclability into consideration from the product development stage and uses evaluation and support tools such as recycling checklists. Please visit at our global environmental website for the further information. <http://www.lg.com/global/sustainability/environment/greener-products/green-product-strategy>

## Website

**List website where EPA provided baseline/annual tier data is publicly posted: \***

<http://blog.lgrecyclingprogram.com/> *Ensure website address begins with http:// or https://*

### Notes:

**1. Total Collected for Reuse and Recycling:** This is the total amount of used electronics collected for reuse and recycling, including the amount sent to certified and non-certified recyclers. It can include company assets, business to business, warranty returns, and electronics collected and/or purchased to meet state take-back laws. See below for definitions of "reuse" and "all streams".

**2. Equipment:** Defined as electronics equipment such as central processing units (CPUs), desktops, laptops, televisions, printers, monitors, copiers, fax machines, scanners, imaging equipment, radios, tablets, e-readers, slates, netbooks, and heavy equipment such as servers. It further includes any other or new (future) types of equipment that are designed primarily to store or convey information electronically and have a 4-inch screen or larger measured diagonally.

**3. Cell Phones & Other Mobile Devices:** Defined as electronic equipment such as cell phones, personal digital assistants

(PDAs), organizers, tablets, e-readers, slates, smart phones, compact disc players, gaming systems, calculators, and MP3 devices. It also includes any other or new (future) types of equipment that are designed primarily to store or convey information electronically and that are lightweight, mobile in design, and have a 4-inch screen or less measured diagonally.

**4. Accessories:** Defined as headphones, speakers, CDs, printers, toner cartridges, USB sticks, keyboards, game system accessories, cables, chargers, and other small, miscellaneous items as defined by the Participant. It further includes any other or new (future) types of accessories to either the equipment or cell phone and other mobile devices equipment. The participant is welcome to provide a separate breakout of any of the items listed as accessories.

**5. Total sent to third-party certified recyclers:** For the purposes of the SMM Electronics Challenge, the term "recycler" denotes refurbisher or recycler certified to a recognized third-party certified recycling program. Similarly, the term "recycling" denotes recycling, refurbishment and reuse. Currently, Responsible Recycling Practices (R2) and e-Stewards are the only recognized certification standards for recyclers. However, EPA may recognize additional standards at a later date. Also see definition of 'all streams' below.

**Reuse:** Denotes an electronics object, or component of an electronics object that is used again by a different owner either for its original purpose or for a similar purpose, without significantly altering the physical form of the object or material. The electronics object may be cleaned, repaired, or refurbished between uses.

**All Streams:** Denotes used electronics collected for recycling or reuse from the various return streams used by the participant. Streams could include consumer take-back programs, asset recovery programs, retired lease returns, collection events, or trade-in programs.

**Baseline:** The year a participant joins the challenge. Annual results are compared to the baseline as well as preceding years' results.

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