

Name \_\_\_\_\_

Integrated Waste Management – How can we reduce E-waste?

### Electronics Trends in the US

Sales of new electronic products are driving an increase in use, storage, and end-of-life management of electronics. EPA estimates that 438 million electronics were sold in 2009, doubling sales from 1997, including a nine-fold increase in mobile device sales.

ElectronicsWasteManagementinthe UnitedStatesthrough2009, May 2011

Use the integrated waste management hierarchy to give recommendations for what we can do at each level of the upside down pyramid to reduce cell phone waste. Links at the bottom of the page may be helpful.

Reduce (Changes in manufacturing process, packaging to reduce materials, hazards; longer lasting; easy to fix or take apart)

Reuse (Choose reusable products; reuse for another purpose)

Recycle (Open or closed loop recycling to same or new product)

Biomass Conversion/Composting (Compost, collection of methane, burning of biomass for heat/electricity)

Transformation (incineration, pyrolysis, distillation, gasification, etc. for synthetic fuels or energy recovery)

Landfill (Bury and monitor)

Cell Phones:

<https://www.environmentalleader.com/2014/09/how-to-stop-cell-phone-e-waste/>

[https://www.epa.gov/sites/production/files/2015-09/documents/national\\_strategy\\_for\\_electronic\\_stewardship\\_0.pdf](https://www.epa.gov/sites/production/files/2015-09/documents/national_strategy_for_electronic_stewardship_0.pdf)

<https://www.epa.gov/greenerproducts>