

7. Equivalents  
from EPEAT Calculator

**RESULTS AS EQUIVALENCIES**

based on grand totals:

Data summed for:	Purchasing:	Use:	EOL:
	Product 1: <b>90 Laptop</b> Product 2: <b>8 Laptop</b> Product 3: <b>143 CPU</b>	<b>0</b> computer products in use	<b>0</b> reused CPUs <b>0</b> recycled CPUs <b>0</b> reused CRTs <b>0</b> recycled CRTs <b>0</b> reused LCDs <b>0</b> recycled LCDs <b>0</b> reused notebooks <b>0</b> recycled notebooks <b>0</b> reused mobile phones <b>0</b> recycled mobile phones

Metric:	Equivalency:
<b>Energy Savings =</b> electricity to power	4.01 US household(s) in a year
<b>Greenhouse Gas Reduction* =</b> removing	2.24 passenger car(s) from the road per year
<b>Solid Waste Reduction =</b> solid waste generated by	1.37 US household(s) in a year
<b>Primary Material Savings* =</b> the weight of	368 refrigerator(s)
<b>HW Reduction =</b> the weight of	151 brick(s)
<b>Toxic Material Reduction:</b>	
all toxics, including Hg = the weight of	3.9 brick(s)
mercury only = the mercury in	1.21 mercury fever thermometer(s)
<b>Air emissions* =</b>	102 metric ton(s) of air emissions
<b>Water emissions* =</b>	0.24 metric ton(s) of water emissions
<b>Cost savings =</b>	-\$24,416

\* These may be proportionally greater than other metrics as they include all material inputs, including those from upstream processes. These estimates do not account for impacts from product/material substitutions that might replace restricted materials.

**Data and assumptions for equivalencies:**

	Equivalency Factor	Reference
<b>Annual Household Energy Use</b>	11340 kWh/household/year	US Technology Cooperation Gateway, <i>Greenhouse Gas Equivalencies Calculator</i> , <a href="http://www.usctgateway.net/tool/">http://www.usctgateway.net/tool/</a>
<b>Annual Passenger Car Emissions</b>	4.62 metric tons CO <sub>2</sub> equivalents/passenger car/year 1260 kg CE/passenger car/yr	US Technology Cooperation Gateway, <i>Greenhouse Gas Equivalencies Calculator</i> , <a href="http://www.usctgateway.net/tool/">http://www.usctgateway.net/tool/</a>
<b>Annual Municipal Solid Waste (MSW) Generation per US Household</b>	1931 kg MSW/household/year Assumes 4.54 lbs MSW/person/day; average people/household      2.57	U.S. EPA, <i>Municipal Solid Waste in the United States: 2005 Facts and Figures</i> , October 18, 2006 & US Census Bureau, <i>March 2005 Current Population Survey, American Families and Living Arrangements 2005</i> , Table AVG1 ( <a href="http://www.census.gov/population/socdemo/hh-fam/cps2005/tabAVG1.csv">http://www.census.gov/population/socdemo/hh-fam/cps2005/tabAVG1.csv</a> )
<b>Weight of Refrigerator</b>	129 kg (285 lbs)/ full-size refrigerator	Average of 10 full-size refrigerators offered for sale at Best Buy ( <a href="http://www.bestbuy.com">www.bestbuy.com</a> ) in Nov. 2006, ranging in size from 18 Cu Ft to 26 Cu Ft capacity.
<b>Weight of Bricks</b>	2 kg (4.5 lbs)/brick	Manufacturer technical data. Standard brick defined as 3 5/8" X 2 1/4" X 8".
<b>Amount of Mercury in a Fever Thermometer</b>	0.61 g Hg/thermometer Assumes 95 percent of clinical thermometers are oral/rectal/baby thermometers, which contain approximately 0.61 grams of mercury.	US Environmental Protection Agency, <i>Mercury Study Report to Congress, Volume II: an Inventory of Anthropogenic Mercury Emissions in the United States</i> . EPA-452/R-97-004, December 1997.