



## A Comparison of Reuse Versus Recycling



This example was prepared using the United States Electronics Environmental Benefits Calculator\*.

The environmental benefits of Reuse and Recycling are compared. 100 computers with CRT monitors are either Recycled or Reused. The savings are compared to disposing of the equipment in a landfill.

	<b>100 Computers Recycled</b>	<b>100 Computers Reused</b>
<b>Energy Savings</b>	Saves enough electricity to power <b>2.75</b> U.S. households in a year	Saves enough electricity to power <b>68.00</b> U.S. households in a year
<b>Greenhouse Gas Reduction**</b>	Same as removing <b>1.95</b> passenger cars from the road per year	Same as removing <b>48</b> passenger cars from the road per year
<b>Solid Waste Reduction</b>	Removes the equivalent of the solid waste generated by <b>1.8</b> households per year	Removes the equivalent of the solid waste generated by <b>1.8</b> households per year
<b>Primary Material Savings**</b>	Saves the equivalent weight of <b>7.33</b> refrigerators	Saves the equivalent weight of <b>7.33</b> refrigerators
<b>Hazardous Waste Reduction</b>	Reduces hazardous waste by the weight of <b>720</b> bricks	Reduces hazardous waste by the weight of <b>720</b> bricks
<b>Toxic Material Reduction: All Toxics (including Mercury)</b>	Reduces toxic materials waste by the weight of <b>3.97</b> bricks	Reduces toxic materials waste by the weight of <b>3.97</b> bricks
<b>Toxic Material Reduction: Mercury Only</b>	Reduces the amount of Mercury in fewer than <b>0.01</b> mercury fever thermometers"	Reduces the amount of Mercury in fewer than <b>0.01</b> mercury fever thermometers
<b>Air Emissions**</b>	Reduces air emissions by <b>129</b> metric tons (142.2 U.S. tons)	Reduces air emissions by <b>3,183</b> metric tons (3,508.7 U.S. tons)
<b>Water emissions**</b>	Reduces water emissions by <b>0.27</b> metric tons (0.30 U.S. tons)	Reduces water emissions by <b>6.66</b> metric tons (7.43 U.S. tons)
<b>Replacement Cost Savings</b>	<b>\$2,708</b>	<b>\$66,801</b>

\* <http://eerc.ra.utk.edu/ccpct/eebc/eebc>

\*\* 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.