

State Electronics Challenge 2010 Partner Accomplishments For Partners Receiving Recognition

[Manitou Springs School District](#)

[City of Providence Schools, Providence, Rhode Island](#)

[Town of Windsor, Connecticut](#)

[Maine State Government](#)

[Regional Technology Cooperative, Borough of State College, Pennsylvania](#)

Partner	SEC Recognition Level	Program Areas Completed	2010 Accomplishments	Environmental Benefits ¹
<p>Manitou Springs School District, Manitou Springs, Colorado</p> <p><i>1st year as SEC Partner</i></p>	Gold	Procurement, Operations & Maintenance, End-of-Life Management	<p>Procurement</p> <p>√ Purchased 80 EPEAT gold-registered integrated computer systems (i.e., all-in-one monitor and processing unit) and 55 notebooks</p> <p>Operations & Maintenance</p> <p>√ 100% of computers were power management enabled prior to deployment</p> <ul style="list-style-type: none"> • Users cannot change settings or load software without an administrator password <p>√ 60-month average lifespan for equipment in service</p> <p>√ Reduced printing and paper consumption by:</p> <ul style="list-style-type: none"> • Introducing and providing training to support the use of 	<p>√ Energy Savings: Reduced energy use by 226,884 kWh, equivalent to the electricity to power 19 households annually</p> <ul style="list-style-type: none"> • 67% due to reuse • 33% due to equipment recycling <p>√ Greenhouse Gas Savings: Avoided 31.7 metric tons carbon equivalents of GHG emissions, equivalent to removing 21 cars from the road per year</p> <ul style="list-style-type: none"> • 90% due to reuse <p>√ Toxic Materials Avoided: Use of 5.3 lbs toxic materials,</p>

			<p>online file sharing among staff and students through "Google Apps for Education"</p> <ul style="list-style-type: none"> • Removing printers from classrooms <p>End-of-Life Management</p> <p>√ Recycled 100 desktop processors and 35 CRT monitors</p> <p>√ Hosted a recycling event for local communities, resulting in 4,716 pounds of equipment sent for recycling</p> <p>√ Equipment recycled through take-back program offered by computer manufacturer or a Colorado-based recycler, who is working towards e-Stewards® certification</p>	<p>including lead & mercury</p> <p>√ Solid Waste Avoided: 11,482 pounds of solid waste, equivalent to the waste generated by 3 households/year</p> <ul style="list-style-type: none"> • 79% from equipment recycling <p>√ Hazardous Waste Avoided: Generation of 2,834 lbs pounds of hazardous waste</p> <ul style="list-style-type: none"> • 88% from equipment recycling
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<p>Providence, Rhode Island Public School Department</p> <p><i>Earned Gold Recognition in 2009 & Silver Recognition in 2008</i></p>	<p>Gold</p>	<p>Procurement, Operations & Maintenance, End-of-Life Management</p>	<p>Procurement ✓ Purchased 2,893 EPEAT gold registered desktop processors, monitors, & notebook computers</p> <p>Operations & Maintenance ✓ 100% of desktop processors, monitors, & notebook computers were power management enabled</p> <ul style="list-style-type: none"> • Configured a Power Script to automatically power down all computers nightly with the exception of district servers <p>✓ Reported 72 month average life span for computers</p> <p>✓ Reduced paper use and waste</p> <ul style="list-style-type: none"> • Encouraged staff to store documents electronically & use scanning feature (e.g., PDF files) • Enabled all printers and copiers with duplex features <p>End-of-Life Management ✓ Recycled 57,523 lbs of computer equipment</p> <ul style="list-style-type: none"> • Statewide vendor picks-up equipment at least quarterly from the school district 	<p>✓ Energy Savings: Reduced energy use by 20.2 million kWh, equivalent to the electricity to power 1,689 U.S. households annually</p> <ul style="list-style-type: none"> • 93% of savings from a combination of power management & keeping computers & monitors in service for 72 months² <p>✓ Greenhouse Gas Savings: Avoided 3,747 metric tons carbon equivalents of GHG emissions, equivalent to removing 2,516 cars from the road per year</p> <ul style="list-style-type: none"> • 95% of savings from power management & extending the service life of equipment <p>✓ Toxic Materials Avoided: Use of 685 lbs toxic materials, including lead & mercury through purchase of EPEAT products & extending the service life of equipment</p> <p>✓ Solid Waste Avoided: 225,594 lbs of solid waste, equivalent to the waste generated by 51 households/year</p> <ul style="list-style-type: none"> • 73% due to extending the service life of equipment • 26% due to recycling equipment at the end of life <p>✓ Hazardous Waste Avoided: Generation of 31,906 pounds of hazardous waste</p> <ul style="list-style-type: none"> • 44% due to recycling of equipment at end-of-life • 32% due to extending the life of equipment • 24% from EPEAT purchases
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<p>Town of Windsor, Connecticut</p> <p><i>Earned Silver Recognition in 2009</i></p>	<p>Silver</p>	<p>Procurement & End-of-Life Management</p>	<p>Procurement ✓ Purchased 49 EPEAT gold registered desktop processors and monitors</p> <ul style="list-style-type: none"> IT Department Director modified RFP template to include language requiring EPEAT gold specifications <p>Operations & Maintenance ✓ Reported 50% of desktop processors and monitors power management enabled</p> <p>✓ Average life of installed computers is 76 months</p> <ul style="list-style-type: none"> Town IT department plans for 72 - 84 month average lifespan for computers. Replace units only when absolutely necessary to meet needs of users. Instead of being surplus, units are redeployed where computer can meet the need of a less intense use. Many parts reused internally as well. <p>End-of-Life Management ✓ Sent 10 computer systems (processor & monitor) for reuse</p> <p>✓ Recycled 6 desktop processors & 6 CRT monitors, plus 61,220 lbs of mixed office equipment</p> <ul style="list-style-type: none"> Equipment processed by an e-Stewards® certified recycler 	<p>✓ Energy Savings: Reduced energy use by 11.7 million kWh, equivalent to the electricity to power 98 households annually</p> <ul style="list-style-type: none"> 62% from equipment reuse & recycling 37% of savings from power management and an extended equipment service life of 76 months² <p>✓ Greenhouse Gas Savings: Avoided 111 metric tons carbon equivalents of GHG emissions, equivalent to removing 75 cars from the road per year</p> <ul style="list-style-type: none"> 74% of savings from power management & extended service life of equipment 23% from equipment reuse and recycling at end of service life <p>✓ Toxic Materials Avoided: Use of 27.6 lbs toxic materials, including lead & mercury</p> <ul style="list-style-type: none"> 82% by extending service life 12% from EPEAT purchases <p>✓ Solid Waste Avoided: 68,836 lbs of solid waste, equivalent to the waste generated by 16 households annually due to primarily to recycling</p> <ul style="list-style-type: none"> 91% from equipment recycling <p>✓ Hazardous Waste Avoided: Generation of 16,150 pounds of hazardous waste</p> <ul style="list-style-type: none"> 96% from equipment recycling
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<p>Maine State Government</p> <p><i>Earned Silver Recognition in 2008 & 2009</i></p>	<p>Silver</p>	<p>Procurement & End-of-Life Management</p>	<p>Procurement ✓ Purchased 5,424 EPEAT registered desktop processors, monitors, & notebook computers</p> <ul style="list-style-type: none"> • Required EPEAT silver or gold in RFP for computer equipment. Beginning in 2010 EPEAT gold will be required. • Purchase agreements require vendors to provide quarterly reports tracking & documenting purchases and identifying EPEAT certification level. <p>Operations & Maintenance ✓ Power management enabled in 83% of monitors across all state agencies</p> <ul style="list-style-type: none"> • Pilot in Department of Environment started in August 2010. Demonstrated energy & cost savings, results in rolling out across all state agencies. Expect completion by May 2011. • Computer power management initiative will begin after Windows 7 is deployed. <p>End-of-Life Management ✓ Reused 1,677 desktop processors and monitors, plus 15,949 notebook computers</p> <ul style="list-style-type: none"> • All used equipment sold to the 	<p>✓ Energy Savings: Reduced energy use by 23.2 million kWh, equivalent to the electricity to power 1,944 U.S. households annually</p> <ul style="list-style-type: none"> • 93% of savings due to reuse & recycling <p>✓ Greenhouse Gas Savings: Avoided 1,477 metric tons carbon equivalents of GHG emissions, equivalent to removing 992 cars from the road per year</p> <ul style="list-style-type: none"> • 79% of savings due equipment reuse and recycling • 19% due to purchasing EPEAT registered equipment <p>✓ Toxic Materials Avoided: Use of 817 lbs toxic materials including lead & mercury</p> <ul style="list-style-type: none"> • 58% of savings from equipment reuse & recycling • 42% from purchasing EPEAT registered equipment <p>✓ Solid Waste Avoided: 242,784 lbs of solid waste, equivalent to the waste generated by 55 households/year</p> <ul style="list-style-type: none"> • 97% of benefits result from equipment reuse
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			<p>general public is affixed with a label that informs the purchaser of Maine's state law for recycling equipment and recycling contact information.</p> <ul style="list-style-type: none"> • New equipment vendors required to provide an OEM disc for each computer sold to the State, making it more suitable for resale <p>√ Recycled 4,460 desktop processors, monitors, & notebook computers</p> <ul style="list-style-type: none"> • Requires recycler to provide sufficient, verifiable documentation that it meets Maine's Guidelines for the Environmentally Sound Management of Television & Computer Monitors • Perform frequent onsite reviews of processor 	<p>and recycling</p> <p>√ Hazardous Waste Avoided: Generation of 57,083 pounds of hazardous waste</p> <ul style="list-style-type: none"> • 76% due to reuse & recycling • 24% from purchasing EPEAT registered equipment
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<p>Regional Technology Program, State College, Pennsylvania</p> <p><i>Earned Bronze Recognition in 2009</i></p>	<p>Silver</p>	<p>Procurement & End-of-Life Management</p>	<p>Procurement ✓ Purchased 84 EPEAT registered desktop processors, monitors & notebook computers, all but one were EPEAT gold</p> <ul style="list-style-type: none"> Established a “Sustainable Procurement Policy” that requires all IT hardware to meet EPEAT bronze, at a minimum <p>Operations & Maintenance ✓ 92% of monitors were power management enabled</p> <p>✓ Equipment in service for 60-72 months</p> <p>End-of-Life Management ✓ Sent 112 desktop processors, monitors and notebook computers for reuse and recycling</p> <ul style="list-style-type: none"> Established a “Technology Equipment Removal Policy” to standardize the handling of obsolete equipment and ensure proper destruction of data and environmentally responsible disposition Established a “Destruction of data” policy” for destruction of hard drives in compliance with the Department of Defense standards 	<p>✓ Energy Savings: Reduced energy use by 252,500 kWh, equivalent to the electricity to power 21 U.S. households/year</p> <ul style="list-style-type: none"> 85% of savings resulted from extending the service life of equipment to 60-72 months² and power management 10% of benefits attributed to purchasing EPEAT registered products <p>✓ Greenhouse Gas Savings: Avoided 46.1 metric tons carbon equivalents of GHG emissions, equivalent to removing 31 cars from the road per year</p> <ul style="list-style-type: none"> 89% from extending equipment life and power management 10% from purchasing EPEAT <p>✓ Toxic Materials Avoided: Use of 26.4 lbs toxic materials, including lead & mercury</p> <ul style="list-style-type: none"> 79% from extending equipment life 21% of benefits due to purchasing EPEAT
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¹ Calculations made using Version 2.0 of the Electronics Environmental Benefits Calculator, dated 3-2-09, available at <http://www.federalelectronicschallenge.net/resources/bencalc.htm>

²The Electronics Environmental Benefits Calculator (EEBC) assumes that for every additional year a computer desktop, monitor, or notebook is kept in service, beyond the average reported lifespan, it prevents or delays the production of one unit of similar equipment for one year.

Preventing or delaying the production of a new computer or monitor for one year avoids a proportion of the environmental impacts from the raw material extraction, production, and disposal of a similar unit. The average lifespan used in the EEBC to calculate benefits for extending the service life is 49 months for desktop processors and monitors, and 38 months for laptops.