Greening the Computer Lifecycle: The State Electronics Challenge

Introductory Webinar

What is the State Electronics Challenge?

- Voluntary & *free* partnership program targeted to state, regional, local, & tribal government
- Supports government management of computer equipment for reduced environmental impact.
- Promotes lifecycle stewardship of computers
  - Purchasing greener computers
  - Use
    - Power management
    - Extending product life
    - Reducing paper usage
  - Reuse & responsible recycling

What Does the Challenge Offer?

- Free assistance & technical resources

- Action plan to achieve proven results

- Tools to track progress & measure results

- Individualized reports on your environmental accomplishments

- Recognition - including for existing activities

Current SEC Partners

85 Partners, 31 states, & ~130,000 end users

- State gov't /depts
- Cities & Towns
- Solid Waste Authorities
- K-12 Schools
- State Coll. & Univ.

Environmental Benefits

For every 1,000 "greener" computer systems purchased & units recycled:

⬇ Energy use = to power 105 homes/year

⬇ Greenhouse gases = 113 fewer cars/year

⬇ Municipal solid waste by ~ 40 tons = 18 households/year

⬇ Hazardous waste by 19 tons

⬇ Toxic materials by 164 pounds, incl. lead & mercury

PROGRAM PARTICIPATION

Partner Requirements

- Register - http://stateelectronicschallenge.net/join.html
- Complete *Baseline Survey of Current Practices*
- Choose your focus - any or all lifecycle phases
  - Purchasing
  - Use & Operations
  - End-of-life
- Implement program requirements
- Report annual progress
- Apply for recognition (optional)

Program Requirements
Procurement

- Modify procurement practices to require/give preference to "greener" computers – defined by EPEAT® standard

- Ensure 95% of desktops, laptops, monitors purchased are EPEAT registered

Overview of EPEAT

- Voluntary environmental performance standard for computer desktops, monitors, & notebooks
  - Addresses multiple environmental attributes
  - Three-tier rating system: bronze, silver, & gold

- System for identifying products
  - Central, searchable product registry (www.epeat.net) - one stop shop
  - ~ 3,000 + products (U.S.) & 35 manufacturers
- Verification process to ensure conformance

Program Requirements
Operations & Maintenance

- Establish & promote policy/directive for:
  — Power management
  — Paper use reduction
- Ensure ENERGY STAR "sleep" function enabled across all client devices
- Ensure double-sided printing features are used on 75% of printers & copiers

Program Requirements
End-of-Life Management

- Establish policy/directive:
  — Promote reuse & donation
  — Require environmentally sound management

- Track units redeployed internally, donated for reuse, recycled

- Use recycler with 3rd party certification
  – R2 or e-Steward

Track Progress & Measure Results

- Partners submit:
  - Baseline Survey of Current Practices
  - Annual Reporting Form
- SEC commits to:
  - Calculate environmental benefits of Partner activities
  - Prepare customized sustainability report

Reduction In	Purchasing EPEAT Products	Operations & Maintenance	Equipment Reuse & Recycling	TOTAL BENEFITS	
	How Much			How Much	Equivalent To
Energy use	1.5 million kWh	3.3 million kWh	21.6 million kWh	26.4 million kWh	Electricity to power 2,211 households/year
Greenhouse gas emissions	279 metric tons of carbon equivalents	631 metric tons of carbon equivalents	1,170 metric tons of carbon equivalents	2,080 metric tons of carbon equivalents	Removing 1,399 cars from the road/year
Toxic materials, including lead & mercury	343 lbs	463 lbs	474 lbs	1,280 lbs	
Municipal solid waste	6,849 lbs	123,259 lbs	235,935 lbs	366,043 lbs	Waste generated by 83 households/year
Hazardous waste	13,424 lbs	9,768 lbs	43,659 lbs	66,851 lbs	

SEC Tools to Get the Job Done

- Online resources
  www.StateElectronicsChallenge.net

- Free one-on-one technical assistance

- Partner-only Webinars

- Partner-only Listserv

State Electronics Challenge

Collectively, state and local government purchase several billions of dollars worth of technology equipment annually, and has the opportunity to provide leadership in the environmentally sound and cost effective management of electronic assets.

The State Electronics Challenge (SEC) is a voluntary program that encourages state, tribal, regional, and local governments, including schools and other public entities, to:

- Purchase greener electronic products.
- Reduce the impacts of electronic products during use.
- Manage obsolete electronics in an environmentally safe way.

The SEC provides resources to help state, tribal, regional, and local government and agencies to become leaders and face the new challenges posed by the electronics waste stream.

The SEC is modeled after the very successful Federal Electronics Challenge (FEC), which was created by the U.S. Environmental Protection Agency and the Office of the Federal Environmental Executive.

State Electronics Challenge Sponsors

Distinguished Sponsor

Quick Links/News

Intro to the State Electronics Challenge Webinar, Nov. 3. Go to the Webinar page for registration information.

The SEC Now Has 77 Partners in 29 states. Welcome to SEC's newest Partners: The Intermunicipal Relations Committee Council of Governments, the Michigan Recycling Coalition, Ohio Environmental Protection Agency, and City of Pharr Recycling Center, Texas. To view a full list of SEC

Annual Recognition

- Eligible for:
  - Gold: **All three** lifecycle phases
  - Silver: **Two of three** lifecycle phases
  - Bronze: **One of three** lifecycle phases

- Achievements recognized
  - Award
  - The media
  - SEC Website

Why Participate?

- Demonstrating leadership in best practice
- Support provided to help you reach goals
- Potential cost savings
- Quantifiable environmental benefit - climate change & sustainability goals
- Recognition for your accomplishments

How Much Work will it Take?

It depends on:

- Goals - what you choose to work on

- Partner preparation- how much progress you've already made

- People
  - Who's on the team (or is there a team?)
  - Who you need to enlist to help out

  It's up to you!

How Much will this Cost?

- "Nothing!" The SEC is free:
  - No cost to join
  - No cost for technical assistance & support
  - No obligation on your part

- SEC *does not* pay for the cost of implementation. E.g.,
  - Buying power management software
  - Paying for recycling

Contact Information

info@stateelectronicschallenge.net

802-254-3636

www.stateelectronicschallenge.net

NERC is an equal opportunity provider & employer.