



Idaho National Laboratory

# Electronics Stewardship at the INL Site

**Jennifer D. Morton**

INL Pollution Prevention Program

June 18, 2008

Federal Environmental Symposium West

# Presentation Outline

- **Who We Are**
- **Building an Electronics Stewardship Team**
- **Electronics Stewardship Already in Place**
- **Building Consensus from Management**
- **Next Steps**
- **Lessons Learned**



# Who We Are



# Who We Are

Group	Employee Percent	Mission
<b>1. Idaho National Laboratory</b> (Battelle Energy Alliance)	<b>55%</b>	<b>Research &amp; Development Laboratory</b>
<b>2. Idaho Cleanup Project</b> (CH2M-WG Idaho)	<b>30%</b>	<b>Clean up legacy waste at INL Site</b>
<b>3. Advanced Mixed Waste Treatment Project</b> (Bechtel BWXT)	<b>10%</b>	<b>Prepare waste for shipment offsite</b>
<b>4. DOE Idaho Operations Office</b>	<b>5%</b>	<b>Manage contractors at INL Site</b>

# Building Electronics Stewardship Team

- **Sept 2006, Kicked off the Process**
  - **Visit from Jeff Eagan & Jane Powers**
  - **Assembled audiences consisting of upper management from each group and employees that supported each of the 3 lifecycle phases:**
    - **Acquisition & Procurement**
    - **Operations & Maintenance**
    - **End-of-Life Management**
  - **Identified the enthusiastic parties & good practices already in place**

# Who is our Electronics Stewardship Team?

- P2 Representative from each Group
- Acquisitions & Procurement- Affirmative Procurement, Electronics Procurement Specialists
- Operations & Maintenance- IT
- End of Life Management- Property Management

# The Road to Management Consensus

- **Typical FEC Approach**

- **Get Management Approval**
- **Register**
- **Gather Baseline Data**
- **Write Goals**
- **Review Award criteria status**

- **INL Site Approach:**

- **Gather Baseline Data & Award criteria status**
- **Write Goals**
- **Get Management Approval**
- **Register & Submit Award Application**

**How much does it cost? How much do we need to change?**

# Electronics Stewardship Already in Place

- **Oct-Nov 2006, While gathering baseline data & award criteria status, we learned that we were eligible for an award based on some of the following good practices:**
  - **EPEAT equipment was purchased during FY06**
  - **Purchased \$25K of refurbished computers in FY06 (est. savings of \$37K)**
  - **Two groups had made decision to cease purchases of personal printers**
  - **Only LCD monitors were being purchased (no CRTs!)**



# Building Consensus from Management

- **Dec 2006, Briefed Management on status, began process of getting upper management approval**
  - **Shared baseline & current award eligibility**
  - **Showed suggested goals & path forward**
  - **Four groups with unique missions**
    - **Some happy with status quo, some more progressive**
- **Jan '07, Registered as an FEC Partner**
  - **Submitted baseline report, goals, annual report, and award application**

# Challenges at INL Site

- **COMMUNICATION!**
  - **Keep in touch throughout the year!**
- **Different levels of support/interest for Electronics Stewardship within each Group**
- **Different missions of each Group means different priorities for Electronics Stewardship activities**
- **Incorporating FEC metrics into what's already tracked at INL Site**

# Achievements at INL Site

- **Learning from our challenges**
- **Purchasing:**
  - **Purchasing Energy Star and/or EPEAT electronics**
- **Operating:**
  - **Enable power management settings during computer set-up**
  - **Encourage employees to power down computers on nights and weekends**
- **Dispositioning:**
  - **No computers sent to landfills (Internal reuse, donating computers to schools & non-profits, public auction)**

# Achievements at INL Site

- **Awards:**
  - **2007 & 2008 FEC Bronze Award**
  - **First place in the 2007 Electronics Reuse & Recycle Campaign (ERRC), Large Western Civilian division**
- **Outreach:**
  - **Booth at Idaho Falls Earth Day Celebration**
  - **Presentation at Idaho Energy & Green Building Conference**

# Lessons Learned

- **Stay in communication throughout the year, not just at reporting time**
- **Do homework ahead of time**
  - **Anticipate management's concerns**
  - **Get ready for reporting early**
- **Don't take anything for granted**
  - **What you think is insignificant, may not be considered as such by the powers that be**

# Next Steps/ What could be improved upon?

- **Education campaign for employees:**
  - Duplex printing awareness
  - Power-down computers
  - Promote FEC Partnership
- **Monitor progress throughout the year during periodic meetings of FEC Team**
  - Keep everyone updated & involved
  - Track progress of goals
  - Tailor metrics that procurement and property management track for ease of annual reporting

# Thanks

Jennifer Morton, INL P2 Program

(208) 526-0795, [jennifer.morton@inl.gov](mailto:jennifer.morton@inl.gov)

Dave Gianotto, INL Site P2 Coordinator

(208)533-0579, [david.gianotto@icp.doe.gov](mailto:david.gianotto@icp.doe.gov)



# Back-up Slides



# 2007 FEC Award



2007 Federal Electronics Challenge Award

**Bronze Award**

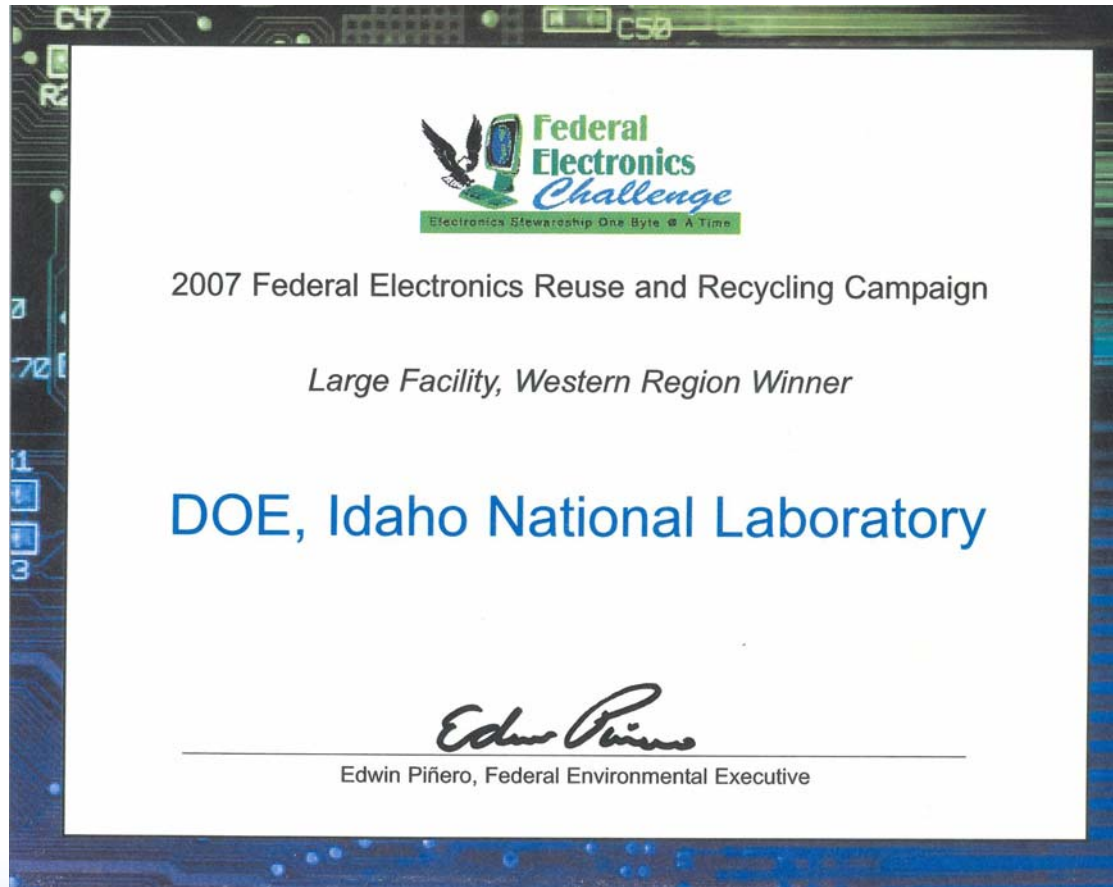
*In recognition of your success in reducing the environmental impacts of electronics in two life-cycle phases, and for your ongoing participation in the Federal Electronics Challenge.*

U.S. Department of Energy  
Idaho National Laboratory

A handwritten signature in black ink, appearing to read 'Edwin Piñero', is written over a horizontal line.

Edwin Piñero, Federal Environmental Executive

# 2007 ERRC Award





# Electronics Stewardship Resources

- Federal Electronics Challenge, [www.federalelectronicchallenge.net](http://www.federalelectronicchallenge.net)
  - Resources geared towards feds, but useful for all
  - *Environmental Benefits Calculator*
- EPEAT, [www.epeat.net](http://www.epeat.net)
  - Registry of desktops, laptops, monitors that meet environmental lifecycle criteria
- Energy Star, [www.energystar.gov](http://www.energystar.gov)
  - Registry of home & office electronics that meet energy saving criteria
- Greener Computing, <http://greenercomputing.com>
  - Reference website with free subscription newsfeeds

# 2006-2007 ERRC Award

- **Donated and/or reused 110,000 lbs of electronics equipment from 11/15/06 to 3/15/07**
- **Reused at:**
  - **INL-Site**
  - **Other DOE Sites**
  - **Other Federal & state agencies**
  - **Computers for Learning**
- **Supported DOE-HQ's 1<sup>st</sup> prize in Agency Division**

