

Federal Network for Sustainability



**Demonstrating
Federal Leadership in the Western
United States**

Alan Hurt
Greening the Government Conference
EPA Regions 1, 2 & 3 and NEWMOA
6 June 2003

Statement of Unity Signed Earth Day, 2000



**Signed by the western
regional offices of
these agencies:**

- EPA, 2 Regions
- NPS, 3 Regions
- GSA, 2 Regions
- US Navy
- US Air Force
- US Army
- US Army Corps of Engineers
- US Dept. of Energy
- BPA
- NASA
- US Postal Service
- Office of the Federal
Environmental Executive,
White House

Why 'Sustainability?'



- Creates a **Long Term Approach** to environmental protection and process improvements
- **Prevents Pollution** from the start
- Calls for **Systems Thinking**, (e.g. the interconnectedness of the economy, environment, social and national security concerns).
- Helps identify a **Strategy or Framework**
- **Leverages Scarce Resource\$**

Purpose of the Federal Network for Sustainability

- **Leadership!**
- **Develop and Coordinate** Network
- **Create and Manage** an information-sharing clearinghouse
- **Develop and Deliver** training for network members



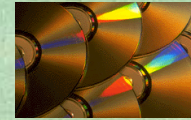
Purpose of the Federal Network for Sustainability, Cont.

- Communicate Ideas through conferences and meetings
- Seek Linkages and Partnerships
- Develop and Showcase Sustainable Programs
- Act as a Catalyst for Change



FNS Members Tim Scanlon (BPA), Steve Butterworth (NPS), & Curtis Framel (DOE) at the Lake Mead Entrance Station

Primary Area of Focus



- Using the Power of Government as Consumer!

The United States government is the world's **largest** purchaser of consumer products and services.



Five Initiatives of FNS...



■ Copy Paper

■ Sustainable Buildings



■ Electronics Stewardship

■ Initiating EMS

■ Purchasing Green Energy / Alternate Fuels



Greener Copier Paper Initiative Why Paper - It's Everywhere!

- 42% of wood harvested goes to making paper
- 10,000 sheets of copy paper is used by an average worker yearly
- In 1997, the Federal Government purchased roughly 18.1 billion sheets
- Indirect costs for paper can exceed initial costs by 10x
- The Pulp and Paper industry is the 2nd largest consumer of energy and uses more water to produce a ton of product than any other industry
- Paper accounts for 38% of municipal solid waste generated annually in the US



Greener Copier Paper Initiative Goals and Progress...

- Raise awareness of environmental issues concerning copier paper
- Create the capability to reduce copier paper use
- Make greener paper more available and less costly
- Make green purchasing easy to implement
- Generate meaningful and measurable results that others can replicate, e.g. six agencies converting to greener paper



Electronics Stewardship Initiative

- Federal government is the world's largest consumer spending
 - \$200 billion annually in direct purchases, a portion of which is electronics
 - \$240 billion annually in grants, a portion of which is electronics
- Only about 5% of electronics are currently recycled.
- Contain toxic materials, are hard to recycle, and are the fastest growing waste stream.



What Can Be Done About Electronics Stewardship?

- Product Stewardship:
 - Manufacturer responsibility
 - Greener Design from the start
 - Environmental costs incorporated into purchase price
- Green Purchasing
 - Include end of life costs in the purchase
 - Don't purchase if you don't need it
 - Leasing as an alternative
 - Up-gradability, reparability

Goals of FNS Electronics Initiative:

- Working to develop greener purchasing specifications.
- Coordinating among federal agencies to promote greener use and end-of-life management of electronics
- Working with the White House Task Force on Recycling to support the MOU on Electronics through pilot projects.
- Educating Federal Agencies on greener electronics practices



Green Power & Alternative Fuels Initiative



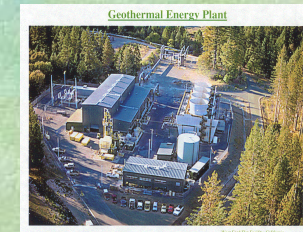
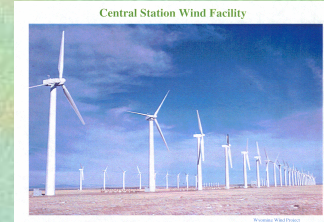
- Purchasing electricity and fuels generated from renewable resources, including solar, wind, geothermal, biomass/biodiesel, and landfill gas.
 - New initiative underway to aggregate federal demand and facilitate purchases of “green tags” or Renewable Energy Credits
 - New initiative under development to promote the purchase of Alternative Fueled Vehicles
 - New initiative under development to promote green building design and renewable energy development



Photo courtesy of Mike Nelson, WSU Energy Policy Office

Green Power & Alternative Fuels, Cont.

- FNS has a three-pronged approach to green power:
 - On-site development of renewable energy technologies
 - Procurement of green power
 - Procurement of green tags or “renewable energy credits”



Alternative Fuel Vehicles and Hybrids Purchases

- FNS is currently developing an initiative to support the purchase of AFV's and Hybrids
 - Solidifying partnerships with state and local governments in the west to leverage the buying power of government entities and bring down the cost of AFV's



Environmental Management Systems Initiative - Purpose

- To fully support Executive Orders
- Provide Education and Training on EMS principles
- Share information among federal agencies on experiences learned
- Promote implementation of EMSs at member agencies

Environmental Management Systems Initiative

Free FNS Co-Sponsored EMS Development Workshops:

- May 28-29, 2003, Seattle, WA
- July 16-17, 2003, San Diego, CA

For more information, go to:

www.FederalSustainability.org

FNS Member Showcase:

NASA Integrated Vegetation Management Program

- NASA Ames Research Center developed an Integrated Vegetative Management Program comprised of:
 - utilizing native vegetation
 - utilizing goats to control “stubborn vegetation”
 - adjusting the timing and height of turf and field mowings
 - utilizing the least toxic herbicides which are biodegradable
- The IVM program has reduced pesticide and herbicide use at the facility by 97%



FNS Member Showcase: Ft. Lewis Installation Sustainability Program



- The Objective – A Sustainable Installation that Supports Sustainable Operations
- The Approach:
 - Begin with Environmental Issues
 - Establish Environmental Baseline Document
 - Host Environmental Sustainability Workshop (Feb 2002)
 - Involve Stakeholders
 - Establish 25-year goals
 - Develop 5-year implementation plans
 - Establish Installation Sustainability Board

FNS Member Showcase: Environmentally Preferable Purchasing/Green Meetings



- FNS is highlighting and encouraging agencies to use the US EPA Environmentally Preferable Purchasing (EPP) program resources

www.epa.gov/oppt/epp

There are over 27 ongoing/completed Federal projects to learn from numerous product/service categories -- from building materials, to custodial services and office equipment to cleaners FNS members can leverage lessons and expertise to initiate their own projects

- Green Conferences and Travel projects are being developed in consultation with EPA

www.epa.gov/oppt/greenmeetings/

Practical Importance of Sustainability Why Sustainable Design?

- Buildings consume 30-40% of our total energy and 60% of our electricity
- About ¼ of the increase in CO₂ in the atmosphere is due to buildings
- Buildings consume 40% of raw stone, gravel and sand; 25% of virgin wood
- Construction creates 2-2.5 pounds of solid waste per square foot – 30-35% of landfill space is building-generated waste

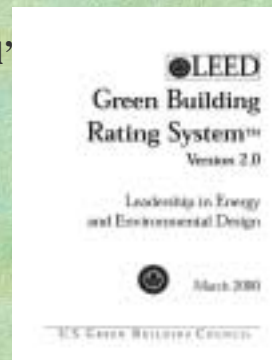
Practical Importance of Sustainability Why Sustainable Design?

Sustainable design makes environmental sense and business sense:

- Reduce environmental impact
- Reduce operating costs
- Reduce some first costs
- Enhance employee health and safety
- Improve employee productivity
- Enhances our homeland energy security

Tools: Building Rating Systems

- U.S. Green Building Council's LEED Rating System
- Army's SPIRIT
- Energy Star
- Green Building Challenge
- Local systems
 - Boulder & Austin



Showcase Projects & Awards

**MCPON PLACKETT MANOR (BACHELOR ENLISTED QUARTERS)
GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS**
NAVFAC Sustainable Development Pilot Project

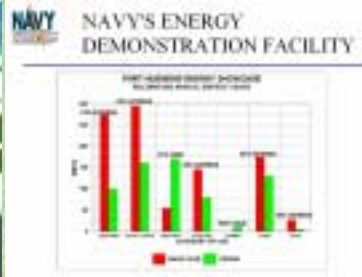
■ \$65 million	9 buildings - 450,000 sf
■ Housing for 2250 sailors	3 to 5 stories
■ 15 acre site	Completed 12/98 - 9/99

■ US GREEN BUILDING COUNCIL LEED™ 1.0 CERTIFIED – JAN 2000



Showcase Projects & Awards

BUILDING 850, NAVY'S ENERGY SHOWCASE FACILITY
 Naval Construction Battalion Center, Port Hueneme, CA
 Energy Showcase Renovation Project, Completed 5/01
 Demonstrating Renewable Energy Technologies,
 Environmentally Responsible Design Practices



http://www.nbvcc.navy.mil/PublicWorks/energy_showcase/bldg850.htm

750 kW Photovoltaic System

- NAS North Island
- One of Largest PV in U.S
- 1,200 Mwh/yr Energy Savings
- 205 Metric Tons Carbon/yr Avoided



“Greening” of the Pentagon Summary of Initiatives



- New Heating & Refrigeration Plant and utility distribution system
- State-of-the-art climate control system, tighter thermal building envelope
- Open bay environment improves energy efficiency: air flow, lighting
- Use of environmentally safe materials
- Improvements to pedestrian/vehicular traffic flow
- Greater flexibility for future changes
- Investments in new technology and alternative sources of energy

Upcoming FNS Events:

- Check our website for current list of upcoming events:

www.FederalSustainability.org

LEADING BY EXAMPLE Report December 2002



Leading by Example: A Report to the President on Federal Energy and Environmental Management (2000-2001)

December 2002, John L. Howard, Jr.
Federal Environmental Executive

“Another innovative partnering effort is the Federal Network for Sustainability (FNS), an alliance of 13 west cost Federal agencies, representing 160,000 Federal employees, who share staff, authorities, and experience to collectively reduce waste, pollution, and energy consumption. The principal goal of the FNS is to use the vast consumer power of the Federal government to promote sustainable practices. Its current efforts are focused on advancing the demand for greener copier paper; helping to influence the market for more sustainable electronic products; purchasing alternative and renewable energy; and implementing environmental management systems.”

Why are We Doing These Things?

- RCRA Section 6002
- Pollution Prevention Act of 1990
- Energy Policy Act of 1992
- Federal Acquisition Regulations (FAR)
- Executive Orders “Greening Government”
- Individual Agency/Departmental policies
- Cost savings
- It’s the Right Thing To Do!

FNS Certificate of Appreciation



How to Get Involved

- Contact [Al Hurt](#), FNS Chairman, US Navy at (619) 524-6253, Hurt.Alan.C@asw.cnrsw.navy.mil
- Attend FNS supported Conferences, Meetings and Trainings
- Sign the Statement of Unity
- Join our email listserv
- Tell us your success stories, and we'll help you get the word out to others!

"As public entities working to advance the public interest, Federal Agencies through leadership and example can inspire all of society to advance an agenda for sustainability."

