

Sustainable Offices

Small Practices for Big Benefits



UNITED STATES ARMY PUBLIC HEALTH COMMAND

Presented by Beth Martin

E2S2

May 2012

(unclassified)

Report Documentation Page				Form Approved OMB No. 0704-0188	
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1. REPORT DATE MAY 2012		2. REPORT TYPE		3. DATES COVERED 00-00-2012 to 00-00-2012	
4. TITLE AND SUBTITLE Sustainable Offices Small Practices for Big Benefits				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Army Public Health Command ,5158 Blackhawk Road ,Aberdeen Proving Ground,MD,21010				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 21-24 May 2012 in New Orleans, LA.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 23	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Topics

- Benefits of Sustainable Practices
- The relationship between consumption and waste
- Smart purchasing
- Reducing routine office waste
- Reducing fuel consumption
- Saving water and energy
- Eliciting behavior change
- Tools in development



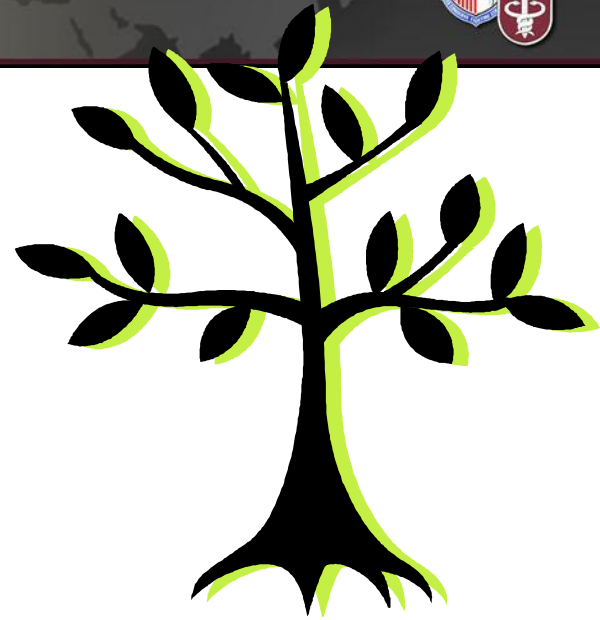
Benefits of a Green Office

- Healthier working environment
- Improves morale (pride)
- Creates recycling markets
- Saves energy
- Conserves resources
- Saves money
- Saves landfill space
- Reduces pollution
- Reduce U.S. dependence on petroleum and other imports



Did You Know?

- Paper accounts for 40% of all waste!
- 60% of office waste!!
- The average person uses 737 pounds of paper per year!

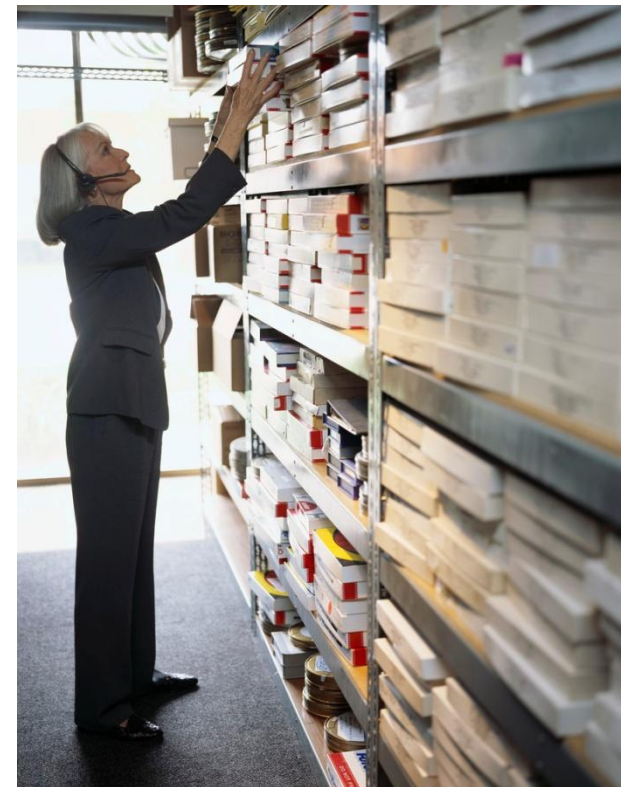


Recycling 1 Ton of Paper...

- Saves about 17 trees
- Saves 24,000 gallons of water
- Eliminates 3 cubic yards of landfill space
- Saves enough energy to power the average home for 6 months
- Saves 4 barrels of oil
- Eliminates 60 pounds of air pollutants

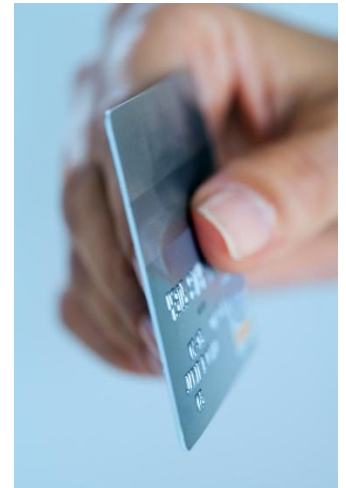
Consumption and Waste Generation

- Waste generation is dictated by consumption
 - How much we consume
 - What we consume
- To reduce waste generation, we must make changes in what we purchase and use



Smart Purchasing Choices

- Purchase items with less packaging
- Purchase products made with materials that will be recycled rather than disposed after use
- Purchase products with recycled or biobased content
- Purchase energy efficient and water saving products
- Purchase products that do not contain ODS or hazardous substances



Green Procurement

- There are specific requirements for the purchase of products that have/are:
 - Recycled content (Resource Conservation and Recovery Act, Executive Orders (EO) 13423 and 13514, and the Federal Acquisition Regulations (FAR))
 - Biobased (Farm and Security and Rural Investment Act, EO 13423, and FAR)
 - Energy efficient (Energy Policy Act of 2005 and EO 13423 and 13514)

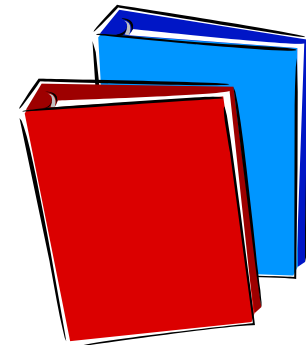
IT'S THE LAW
IT'S THE LAW



NON-PAPER OFFICE PRODUCTS

DESIGNATED CPG ITEMS:

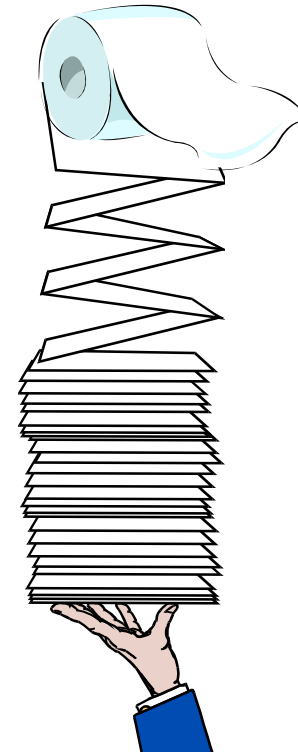
- Binders (paper, plastic covered)
- Office recycling containers
- Office waste receptacles
- Plastic desktop accessories
- Plastic envelopes
- Plastic trash bags
- Printer ribbons
- Toner cartridges
- Office furniture
- Solid plastic binders
- Plastic clipboards
- Plastic clip portfolios
- Plastic file folders
- Plastic presentation folders



PAPER AND PAPER PRODUCTS

DESIGNATED CPG ITEMS:

- Commercial/industrial sanitary tissue products
- Miscellaneous papers
- Newsprint
- Paperboard and packaging products
- Printing and writing papers



Product Certifications



- WaterSense labeled products are generally 20 percent more water-efficient than similar products



- Green Seal Assesses a broad range of environmental impacts



- Scientific Certification Systems (SCS) certifies a wide variety of claims related to environmental performance



- Forest Stewardship Council (FSC) and the Sustainable Forestry Initiative (SFI) certify paper and wood products



- Energy Star identifies energy-efficient products



- Biobased Manufacturer's Association (BMA) self-certification program

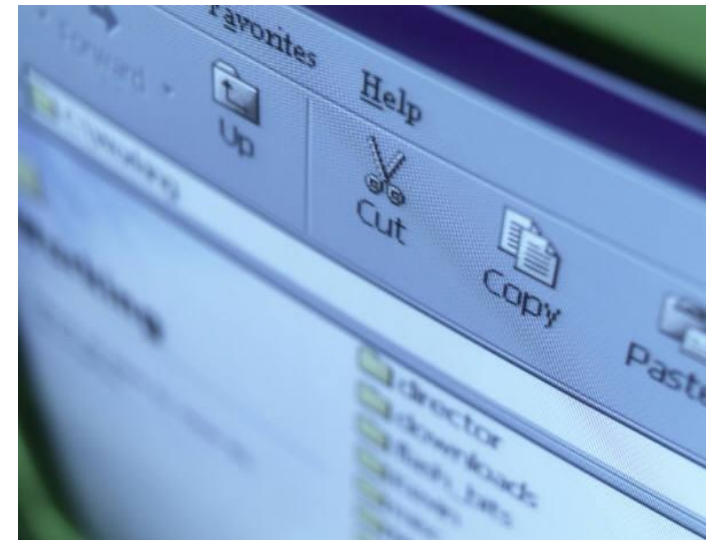
Reducing Routine Office Waste

- Eliminate the purchase of disposable plates, utensils, cups
- Maintain a minimum supply inventory
- Use newer technology toner cartridges and paper
- Stop mail deliveries to departed personnel
- Use tap water or water cooler to reduce bottled water consumption
- Use hand dryers instead of paper towels



Reducing Routine Office Waste

- Set policies & goals for paper reduction
- Use e-mail in place of written memos
- Save e-mail messages to files instead of printing them
- Always print and copy double sided
- Conduct document reviews and provide comments electronically
- Use “print view” feature to reduce printing mistakes
- Use less paper and compact disks by drive sharing and posting information to a web site



Reducing Routine Office Waste



- Send internal mail in reusable envelopes
- Reuse file folders by using stick-on labels
- Reuse plastic and paperboard binders, binding combs, and report covers
- Stop mailings from unwanted magazines and catalogs
- Place 1 copy of community references (phone book, SOPS, atlas, etc.) in common area
- Extend life of computers to at least 4 years

Reducing Routine Office Waste

- Properly segregate recyclable materials
- Properly prepare recyclables, i.e.,
 - Disassemble boxes
 - Rinse bottles and cans
- Participate fully in the Recycling Program (recycle all accepted materials)



GSA Initiative - PrintWise

The initiative identified the following seven steps to lowering print costs (including paper and energy use) within 90 days:

1. Set your default to "duplex" (double-sided) printing
2. Set your default to "black and white" (rather than "color") printing
3. Set your default to "draft" quality (rather than "high" quality) printing

<https://strategicsourcing.gov/print-wise>



GSA Initiative - PrintWise

4. Improve your use of sleep mode for your printers
5. Set your computer's default font to one of the approved toner-efficient fonts (Times New Roman, Garamond, Century Gothic)
6. Encourage the removal of personal printers
7. Freeze purchases of personal printers



Reducing Fuel Consumption

- Participate in meetings via telephone
- Telecommute or alternate work schedules
- Carpool
- Bike or walk around post or to and from work
- Do not leave vehicles idling
- Maintain proper tire pressure
- Use alternative fuel vehicles



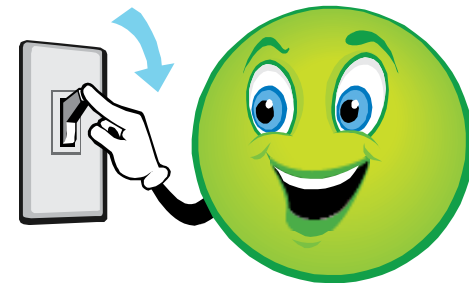
Energy Myths*

- It takes more energy to turn lights on and off than to just leave them on
- Computers last longer if left on all the time
- Batteries and film need to be refrigerated
- Maintaining a constant temperature uses less energy
- Outside lighting is required for security reasons

* Reference “Taking the Myths Out of Energy Consumption,” Don Juhasz

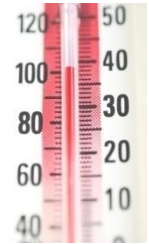
Saving Energy and Water

- Purchase energy-consuming equipment that is EPEAT-registered, Energy Star, and/or FEMP-certified
- Be sure energy saving features are turned on
- Turn off lights when not needed
- Use occupancy sensors
- Turn off energy using equipment after hours (use power strips)
- Turn down heat or AC after hours or use programmable thermostats
- Close blinds after hours
- Close off unused offices/rooms



Saving Energy and Water

- Lower temperature of hot water
- Use energy efficient lighting where possible (including exit signs)
- Ensure outside lighting is off during the day
- Request an energy audit (free)
- Use multifunctional equipment (fax, print, copy, scan)
- Install low flow toilets in renovations
- Use water saving shower heads and faucets



Eliciting Behavior Change... What Works?

- Role models
- Face-to-face education and promotion
- Grass roots involvement
- Upper level management training
- Upper level management support
- A champion(s)
- A strong sense of community
- Setting goals/using metrics
- Getting commitments



Tools in Development

- Styrofoam elimination guidance
- Dining facility waste reduction guidance
- Installation waste diversion study – successes and barriers
- Waste reduction interactive training modules – targeted to specific facility/operation types
- Updated Army Green Procurement Policy
- Green Procurement User's Guide
- Green Procurement desktop quick guides – targeted to specific job types



For More Information:

DSN 584-5202/2024

Comm (410) 436-5202/2024

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Related Services:

- Integrated Solid Waste Management Plans
- Green Procurement Plans, Audits, and Training
- Solid Waste Characterization Studies
- Recycling and Composting Consultations
- Pollution Prevention Plans
- Sustainability Plans