Institutional Green not an ugly wall color

3 June 2009
Regions 5 & 7 Joint P2 Roundtable
Indianapolis, IN
Institutional Green

not an ugly wall color

Marcus Rivas

US EPA
TO-DOLIST

NOTHING

Stay awake!
No copy slides
Consider slides

http://www.glrppr.org/
In the next 43 minutes....

- Why?
- What?
- How?
...WHAT/HOW?

- Products & Services
- Waste
- Water
- Air/Energy
Going GREEN
Going Green
... incorporates environmental considerations to minimize negative impact on the environment.
Why?
Why GREEN Team?

To conserve energy
Why GREEN Team?

To save money
Why GREEN Team?

To prevent pollution
Why GREEN Team?

To preserve natural resources
Why GREEN Team?

To promote economic development
By virtue of the authority vested in the Governor as the head of the Executive Branch of the State of Kansas, the following actions are hereby directed:
What?
The Big Picture
Welcome to the Kansas Green Teams Project!

WHAT IS A GREEN TEAM?
A Green Team is a group of volunteers working for environmental stewardship practices such as recycling, reducing waste, and sustainable purchasing practices in their own place of work. The Green Teams project provides guidelines, ideas, information, and support to green team members.

BACKGROUND
The Green Team program began with the question, “aren’t we recycling this?” From this question, the idea grew that government offices can be educational leaders in recycling, reusing, and environmental responsibility. Thus, the Green Teams project was born.

Today the program has grown to include all levels of state government. Additionally, all 101 state offices are now participating. The program’s goals are to encourage disposal fee saving and recycling reduction.

WHAT’S NEXT?
We plan to continue working to expand the Kansas Green Teams project to all units of governments.

< Join our Discussion Group
Environmental Stewardship ... Networking
Build Your Green Team!

Environmental Stewardship … Networking

TO-DOLIST

NOTHING

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No copy slides
Consider slides

http://www.kansasgreenteams.org/Assembly2008
Environmental Stewardship … Networking

Form a team

- dedicated employees
- represent different departments
- represent different organizational levels

Environmental Stewardship … Networking

Conduct meetings

- meet monthly
- brief and informal
- discuss implementation and share tasks

Environmental Stewardship … Networking

Find a champion

- enthusiastic team leader
- manages Green Team
- liaison with others

Environmental Stewardship ... Networking

Decide what to recycle

- start with basics
- work with local pick-up resources
- use local drop-off sites

Contact property owner/manager

- coordinate internally
- coordinate with other agencies
- janitorial contracts include collection

Educate staff

- fun kick-off event
- list acceptable collection items
- schedule orientation
- host Clean Your Files event
- use promotional materials & tools

Environmental Stewardship … Networking

Update staff
- evaluate progress
- acknowledge people changing habits
- seek staff suggestions
- train new employees

Environmental Stewardship … Networking

Promote program

- use Green Team website
- send press releases
- write articles for newsletters/websites
- celebrate successes

Environmental Stewardship … Networking

Move forward

- go beyond these steps
- seek other stewardship actions

Environmental Stewardship ... Networking
Environmental Stewardship ... Products
Buy Durable Products

Environmental Stewardship … Products

GO GREEN
Environmental Stewardship …

Products

Dennis Brown
Department of Administration

Dennis.Brown@da.ks.gov

785 296 3122
Environmental Stewardship through Services

Environmental Management Systems
Environmental Management Systems

Environmental Stewardship … Services

Plan → Do → Check → Act → Plan
www.P2RIC.org

1 - Choose “Topic Hub”

2 - Select “EMS in Government”

Final Report:
The US EPA Environmental Management System Pilot Program for Local Government Entities
Environmental Stewardship … Services
Environmental Stewardship … Services
Time for YOU to win a valuable prize!
1.29 billion

200 million

184,000 million

114 million
LADIES AND GENTLEMEN: THE PAPER-FREE OFFICE!

AAARGH! THERE IS NO PAPER HERE!
How to Conduct a Waste Audit

Obtain Your Waste Disposal Records

A bakery generates different wastes than an automotive shop. In order to effectively reduce waste, you must first understand what you are wasting. The first step in reducing waste is understanding which categories of waste you are generating and at what rate. The next step is to track the origin of the waste. The origin of the waste may help to identify waste reduction strategies. Once you have identified the origin of the waste, you can take steps to reduce the amount of waste generated. For example, you can reduce the amount of paper waste by using double-sided printing and reusing paper. You can also reduce the amount of food waste by planning meals and using leftovers.

How to Conduct a Waste Audit

1. Identify the type of waste generated: Identify the types of waste generated by your organization. This includes papers, cardboard, plastic, metal, glass, and electronic waste.
2. Record the weight of waste generated: Record the weight of waste generated at regular intervals. This will help you to track the amount of waste generated over time.
3. Determine the sources of waste: Identify the sources of waste. This includes the departments, activities, and processes that generate the most waste.
4. Implement waste reduction strategies: Based on the results of your waste audit, implement waste reduction strategies. This includes recycling, composting, and reducing the use of single-use items.

Waste Reduction

Waste reduction is the process of minimizing waste by reducing the amount of waste generated, reusing materials, and recycling. Waste reduction can help to reduce the amount of waste sent to landfills and incinerators, and can also help to save money by reducing the cost of waste disposal.

Recycling

Recycling is the process of converting waste into new materials that can be used for new products. Recycling reduces the amount of waste sent to landfills and incinerators, and can also help to save money by reducing the cost of waste disposal. Recycling is a great way to reduce waste, but it is important to make sure that the materials you are recycling are suitable for recycling.

Composting

Composting is the process of breaking down organic waste into a nutrient-rich soil amendment. Composting can help to reduce the amount of waste sent to landfills and incinerators, and can also help to save money by reducing the cost of waste disposal. Composting is a great way to reduce waste, but it is important to make sure that the materials you are composting are suitable for composting.
Environmental Stewardship
... Waste Reduction

http://earth911.com/
Reduce paper

Environmental Stewardship
... Waste Reduction
Environmental Stewardship
... Waste Reduction

SCRATCH PAPER

One Sided Paper

Only place non-confidential one-sided paper in the tray. Please take and use for note paper.
Environmental Stewardship

... Waste Reduction

One Sided Paper

Only place non-confidential one-sided paper in the tray. Please take and use for note paper.

SCRATCH PAPER
Please consider your environmental responsibility before printing this e-mail.
Green Meetings and Conferences

Environmental Stewardship

... Waste Reduction
Green Meetings and Conferences

Environmental Stewardship

... Waste Reduction
Environmental Stewardship
... Conserve Water

Woodland Garden

Sun-loving Prairie Garden
Environmetal Stewardship 
... Conserve Water

www.wateruseitwisely.com/plantlist/KansasLandscapesPDF.pdf

Consult your local agriculture extension service or botanic garden

www.wateruseitwisely.com/monthly/index.shtml
Environmental Stewardship
… Conserve Water

www.epa.gov/watersense/
Leadership in Energy and Environmental Design (LEED®)

Environmental Stewardship
... Conserve Water
Conserve Water

BENEFITS
Environmental Stewardship …
Air & Energy
Environmental Stewardship ...
Air & Energy

ACCESS

CARPOOLING
Environmental Stewardship … Air & Energy
Environmental Stewardship … Air & Energy

http://LungsAtWork.net
Indoor Air Quality

Environmental Stewardship … Air & Energy

NASA

Benzene

Carbon Monoxide

Formaldehyde
Indoor Air Quality

Environmental Stewardship … Air & Energy

Bamboo Palm

Spider Plant

Chinese Evergreen
Environmental Stewardship … Air & Energy

Phytoremediation

www.mobot.org/jwcross/phytoremediation/

www.floridaplants.com/Reprints/indoor.htm
Environmental Stewardship ... Air & Energy

LEARN MORE AT energystar.gov
Environmental Stewardship ... Air & Energy
Sustainability

Diversity

Environment

Community

Ethics

Reporting
Cornerstones for Environmental Goal

4 Cornerstones to Environmental Goal:
- Environmentally preferable products
- Recycling
- Energy and climate
- Environmental education
View of Sustainability

Benefits of Sustainable Buildings

- Increased Productivity
- 20% Better Test Performance
- 2½ Day Earlier Discharge
- Increase in Sales Per Square Foot
- Increased Production
- 2–16% Productivity Increase
View of Sustainability

Case Studies

Corporate Express®

STAPLES®
Energy Efficiency

$3M – conveyors, HVAC systems and lighting

Reduced 5M kWh thru facilities’ E2 contest
Diesel Management

Saved 540k gallons by limiting top driving speeds

Joined SmartWay

Evaluating hybrid diesel/electric delivery truck
Environmental Stewardship
… Waste Reduction

Prison Blues Get a Second Chance
Environmental Stewardship
... Waste Reduction

recycling used prison clothing to make blankets

top – recycled shirts
bottom – inmate pants/coats (& khaki from officers’ retired pants)
middle – old sheet and recycled blanket
Environmental Stewardship
... Waste Reduction

Blankets to homeless in Eastern Kansas & Western Missouri

Future blankets to Chicago homeless
Environmental Stewardship
... Waste Reduction

50% reduction plastic liners

95% waste paper reduction

GOALS
Environmental Stewardship
... Waste Reduction

- 500 lbs/wk
- 225 lbs/wk
- 150 lbs/wk
- 15 lbs/mo
- 50 lbs/mo
- 50 lbs/mo
Environmental Stewardship

... Waste & Water Reduction

Compost for vegetable garden & grounds

Landscape with buffalo grass, brush & rock to reduce water use
Environmental Stewardship

... Energy Reduction

SAVED $915 first year!

Replace all incandescents
Eliminate unnecessary corridor lighting
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Look up!