

Environmentally Preferable Procurement

San Jose's experience

ABAG EP³ Workshop – October 20, 2010

**Linden Skjeie, M.S. - Environmentally Preferable
Procurement Steering Committee Co-Chair
City of San José**





San Jose Green Initiatives

- San Jose Green Vision
 - Ten goals designed to move us towards sustainability
- Urban Environmental Accords
 - 21 Actions designed to reduce a city's environmental impacts
- Green Cities California
 - Collaboration on “eco-actions.”



EP³ Role

- EP³ is foundational to everything we do.
- Products and packaging are responsible for 44% of US GHG emissions.
- Governments buy a lot of stuff!
- Big environmental impacts
- Product choices have great environmental potential.

● EP³ - Purpose



- Set a standard and commitment for EP³ products and services
- Elicit change in the markets for EP³ products and services
- Positive environmental impact
- Support Sustainability efforts

● How we implement it

- Steering Committee
 - Overall guidance
 - Members
- Implementation Committee
 - Does the work
- Implementation Plan
- Partnerships





EP³ Implementation Strategies



- Incorporate EP³ into procurement processes
- Education
- Individual consulting with individual departments
- Commodity Teams
- Identify performance measures

● Challenges

- Performance Measurement
- Lifecycle Analysis
- Staff time to address EP³



More info:

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San Francisco's Green Purchasing Program

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Presented to
“Sustainable Purchasing: Policies, Programs & Prioritization”
Association of Bay Area Governments
October 20, 2010



SFEnvironment

Our home. Our city. Our planet.

Topics

- ◆ **Policy context**
- ◆ **Program operations**
 - ◆ **Office supplies**
 - ◆ **Janitorial cleaners**
 - ◆ **Lighting**
- ◆ **Lessons**
 - ◆ **What's working & what's not**



Green Purchasing in San Francisco:

Ordinance Requirements

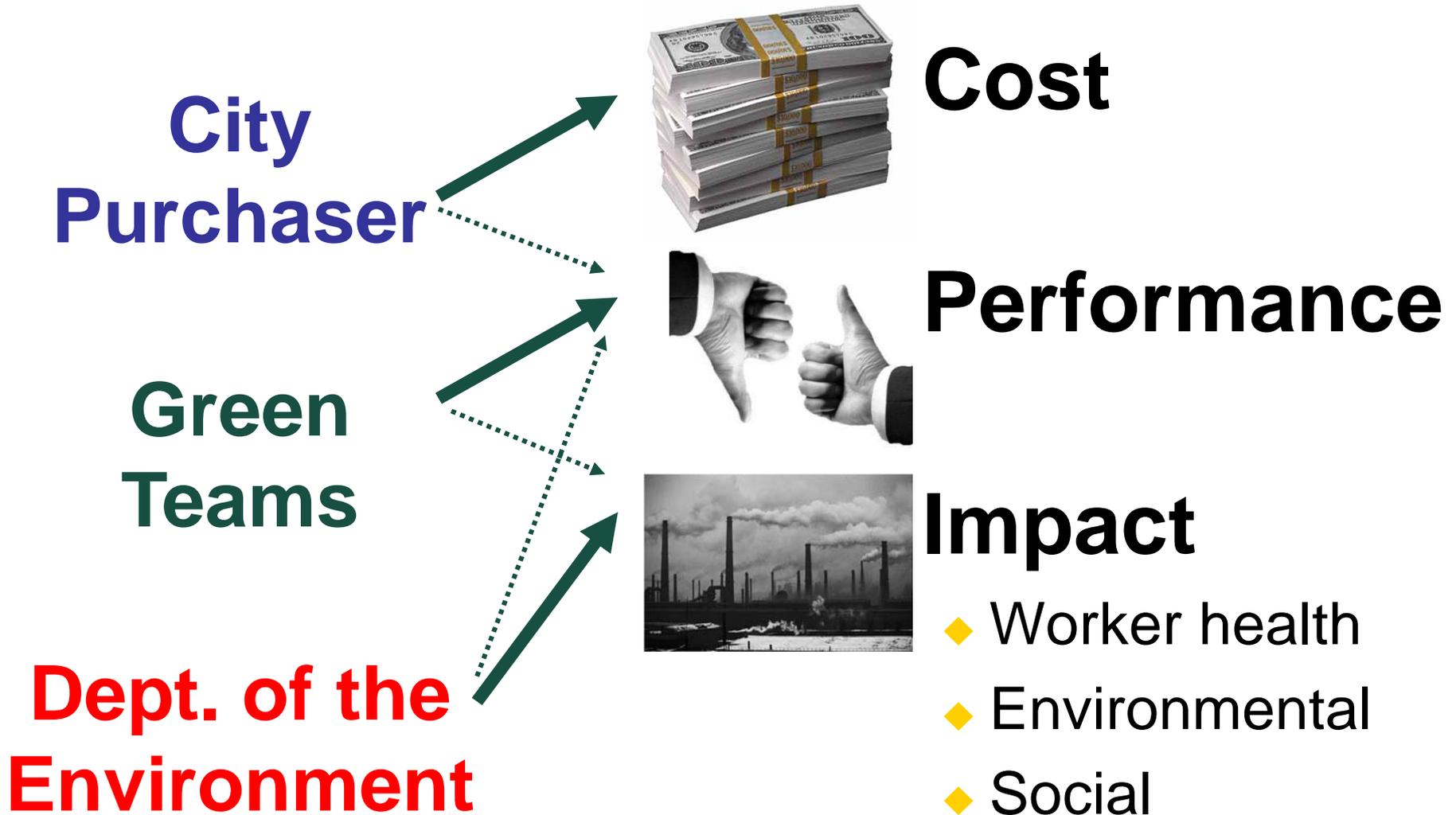
- ◆ City agencies only
- ◆ Commodity contracts only
- ◆ **Purchases restricted to “approved list”**
- ◆ Prioritization
- ◆ Reporting
- ◆ Waivers
- ◆ Training & outreach



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Program Structure



Specifying Products

EASY

fewer resources

DIFFICULT

more resources

Use
third-party
certifications

Use model
contract language

Develop new specifications

Conduct alt.
analyses

Conduct LCAs

PAINT STRIPPING USING WHEAT STARCH BLASTING



Revision Date: 8/03
Process Code: Navy/Marines: IND-001-06; Air Force: STD1; Army: DPT
Usage List: Navy: Low; Marines: Low; Army: Low; Air Force: Low
Alternative For: Chemical Paint Stripping
Compliance Impact: Medium

Applicable EPCRA Targeted Constituents and CAS Numbers: Toluene (CAS: 108-88-3), Xylene (CAS: 1330-20-7), Methyl ethyl ketone (CAS: 78-93-3), Acetone (CAS: 67-64-1), n-Butyl alcohol (CAS: 71-36-3), Lead (CAS: 7439-92-1), Chromium (CAS: 7440-47-3), Zinc Compounds (No CAS), Phenol (CAS: 108-95-2), Chloroacetic acid (CAS: 79-11-8), and Dichloromethane (CAS: 75-09-2)

Overview: Wheat starch blasting is a user-friendly blasting process available as a fully developed stand-alone system specifically designed for wheat starch blasting, or as a process that can be adapted for use in systems designed for plastic media blasting (PMB). The abrasive media is a crystallized form of wheat starch that is non-toxic, biodegradable, and made from renewable resources. The abrasive blast media is similar in appearance to plastic media, except that it is softer.

Table 1. Annual Operating Cost Comparison for Wheat Starch Blasting and Chemical Stripping

	<u>Wheat Starch Blasting</u>	<u>Chemical Stripping</u>
Operational Costs:		
Labor:	\$187,600	\$112,560
Material:	\$159,460	\$67,507
Hazardous Waste Disposal:	\$200,732	\$1,035,552
Total Operational Costs:	\$547,792	\$1,215,619
Total Recovered Income:	\$0	\$0
Net Annual Cost/Benefit:	-\$547,792	-\$1,215,619

ysis Summary:



Green Purchasing in San Francisco:

Office Supplies

- ◆ **Specifications & accountability challenges**
- ◆ **Thousands of products**
- ◆ **Multiple product categories**
- ◆ **Web interface customizable**



COMET BATHROOM SPRAY
2.02

COMET SCRUB BATHING
1.99

2/4.99
sale



LYSOL
3.79

MR CLEAN
2.79

Pine Sol Cleaner
2/4.99
sale

PINE SOL CLEANER
2.99

CVS PINE CLEANER
4.99

MURPHY OIL SOAP
2.49

CLR CLEANER
3.99

Green Purchasing in San Francisco:

Cleaning Products

- ◆ **Standardization & performance challenges**
- ◆ **Some product categories lack adequate third-party standard**
- ◆ **Dispensing systems different**
- ◆ **Pilot testing underway**



Green Purchasing in San Francisco:

Lamps, Ballasts, Fixtures

- ◆ **Communications, disclosure, accountability challenges**
- ◆ **Thousands of products**
- ◆ **Dozens of product categories**
- ◆ **Multiple criteria: Hg, energy efficiency, lamp life**

SF Purchasers' Viewpoint

- ◆ Local Business Enterprise (LBE) Requirements
- ◆ Sweatfree Ordinance
- ◆ Domestic partner benefits (12B)
- ◆ Boilerplate contract sign-offs on
 - ◆ MacBride Principles (N. Ireland)
 - ◆ Tropical hardwood, virgin redwood ban
 - ◆ Resource Conservation Ordinance
 - ◆ No business with Burma
 - ◆ No arsenic-treated wood
 - ◆ No prison labor
- ◆ Executive orders
 - ◆ Food
- ◆ Many resolutions
 - ◆ Fair trade, organic food





SF Approved List

Products that meet San Francisco's Health and Environmental Requirements

Home What You Should Do About Products & Services FAQ News Contact

Search Products

Advanced Search

Join our email list

- Hear about new products, events, trainings.
- City staff: tell us green products that work so we can add them to citywide contracts.

Browse Products

- Directory
 - Automotive Fluids (14)
 - Automotive Supplies (7)
 - Batteries (6)
 - Building Materials (5)
 - Cleaning Products (77)
 - Electronics (7)
 - Electronics Cleaners (7)
 - Food (1)
 - Foodware (48)
 - Fuel (1)



Choosing the right product is easy when you have the City's help. In keeping with San Francisco's commitment to the Precautionary Principle, the Board of Supervisors passed legislation in 2005 requiring City staff to buy from an approved list of environmentally preferable, or "green," products. San Francisco Department of Environment created the **SF Approved List** to share the best in authoritative green purchasing information within City government and with the world at large. To create the List, we review ingredients, recycled content, energy efficiency, product reviews from City staff, and more.

This is your one-stop shop for over 1,000 green products that:

- **SF City Staff are required to buy** under City ordinances.
- **SF Green Businesses** are allowed to use.
- Can **green your home, small business or large organization.**

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Join 20,000 SF City staff & 100 SF Green Businesses that buy innovative

Latest News

- NY Times, Fast Company on SF Approved

Latest Products

- Sanitizers by EO
Category: Sanitizers
Created: Oct 13, 2010
- Sanitizers by Clean Well
Category: Sanitizers
Created: Oct 13, 2010
- Various products with...
Category: Lubricants, Oils
Created: Jul 16, 2010
- Various brake cleaners...
Category: Brake Cleaners
Created: Jul 16, 2010
- Various degreasers...
Category: Degreasers
Created: Jul 16, 2010

Show more...

Lessons

- ◆ Search, buy in one place=best
- ◆ Blocking items=very effective
- ◆ Premature blocking=disastrous
- ◆ Vendor reporting=black hole
- ◆ Green teams=essential
- ◆ Product lists=useful
- ◆ Staff cuts=>progress difficult



2009 Green Product Sales

PRODUCT CATEGORY	\$ Total	% Green
COMPUTERS (2009=first year for purchasing requirements)	\$5,087,625	79%
JANITORIAL CLEANERS	\$44,364	78%
JANITORIAL PAPERS	\$1,530,784	72%
LIGHTING (bulbs/ lamps, ballasts)	\$166,333	50%
OFFICE PAPER (Copier & Bond)	\$1,261,449	93%
OFFICE SUPPLIES	\$40,358	70%
TONER CARTRIDGES	\$5,469	31%
Total	\$8,612,906	80%

References

- ◆ *General References:*

- ◆ www.responsiblepurchasing.org

- ◆ *Examples of Alternatives Analyses:*

- ◆ *Five chemicals alternatives assessment.* 2006. Toxics Use Reduction Institute (TURI)

- <http://www.p2pays.org/ref/09/08261.pdf>

- ◆ “New Study Ranks PVC "At Bottom" in Green Design, Life Cycle Assessment.” 2010. *Healthy Building News.*

- <http://www.healthybuilding.net/news/101013-pvc-at-bottom.html>





A Tradition of Stewardship
A Commitment to Service

Buying Green... Buying Smart, Part II

Implementation of Environmentally Preferable Purchasing Policies

Association of Bay Area Governments
October 20, 2010

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Buying Green... Buying Smart, Part II

Challenge:

Determining how to transform
“Sustainable Purchasing” into
“Real Purchasing”



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Buying Green... Buying Smart, Part II

Napa County's Environmentally Preferable Purchasing Policy

- Impetus from first ABAG Purchasing Conference
- Developed cooperatively between Purchasing Division and Environmental Management
 - Adopted by the Board of Supervisors in March 2010



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Buying Green... Buying Smart, Part II

Key Elements of EPP

– Defined Purpose and Goal

- *“To set a standard for environmentally preferable procurement and demonstrate the County’s commitment to environmental, financial and economic stewardship.”*
- *“Affirms the goal of sustainability in meeting the needs of the present without compromising the ability of future generations to meet their needs.”*



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Buying Green... Buying Smart, Part II

Key Elements of EPP

- Use of 3rd Party Certifications wherever available
- Integration of environmental factors into purchasing decisions
- Sustainability Council
- Balance between environmental criteria and “traditional” criteria



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Buying Green... Buying Smart, Part II

Change in Organizational Structure

- Purchasing division transferred into the Department of Environmental Management from the Public Works Department
 - May, 2010
 - Staff reports to Environmental Management



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Buying Green... Buying Smart, Part II

Sustainability Council

- Essential to EPP Implementation
 - Council is charged with the formulation of plans to implement policy
- Six initial focus areas identified



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Buying Green... Buying Smart, Part II

Sustainability Council Initial Focus Areas

- Comprehensive reduction in paper use
- Office product purchases
- Surplus equipment process
- Energy savings
- Reduction of solid waste/increase in recycling
- Battery usage



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Buying Green... Buying Smart, Part II

Making it Go With No New Staff and No \$

- Existing staff
 - Purchasing (DEM)
 - Recycling/waste minimization (DEM)
 - Green Business Program (NCTPA)
 - Analyst assisting with data and facilities issues (PW)
- Non Profit Partners (Sustainable Napa County)
- Reaching out to share with cities
- Sustainability Steering Committee



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Buying Green... Buying Smart, Part II

Why is it Sustainable?

- Board Direction
 - Adopted Policy to spend a little extra for products in return for positive environmental aspects
- Performance goals for purchasing manager established by department of Environmental Management
- Composition and interest of Sustainability Council
- Community support and expectations



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Buying Green... Buying Smart, Part II

Questions?

"We are seeing the birth of a new perspective of the world, where ecology and economics are two sides of the same coin."

-Leif Johansson

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