

Advisory Committee

Solid Waste Management Plan for Lincoln and Lancaster County (Solid Waste Plan 2040)

August 14, 2012



Solid Waste Management Plan for Lincoln and Lancaster County

 **Solid Waste Plan 2040** 

Agenda

1. Public Meeting Law Acknowledgement / Safety Briefing
2. Call Meeting to Order
3. Roll Call
4. Approve Meeting Minutes from July 10, 2012
5. Follow-Up from Previous Meeting
 - a) Clarification / Open Meetings Act
 - b) Occupation Tax
 - c) Plan Goals
6. Plan Development
 - a) Assessment of Needs and Modules / Topics
 - b) Education = Behavior Change
7. Source Reduction
 - a) Definitions / Framework / Options
 - b) Zero Waste
 - c) Product Stewardship
8. Committee Questions and Discussions

Agenda

BREAK

9. Source Reduction (continued)
 - d) Household Hazardous Waste and Conditionally Exempt Small Quantity Generator (Small Business) Hazardous Wastes
 - e) Universal, Special and Unique Wastes
 - f) Yard Wastes
10. Public Participation
11. Committee Questions and Discussion
12. Next Advisory Committee Meeting
 - a) Timing, Topics and Notification
13. Public Comment (Final 15 Minutes)
14. Close Meeting

Purpose of the Plan

The Solid Waste Plan 2040 will be a guidance document, communication tool, and resource for policy decisions regarding solid waste management systems, facilities, and programs.

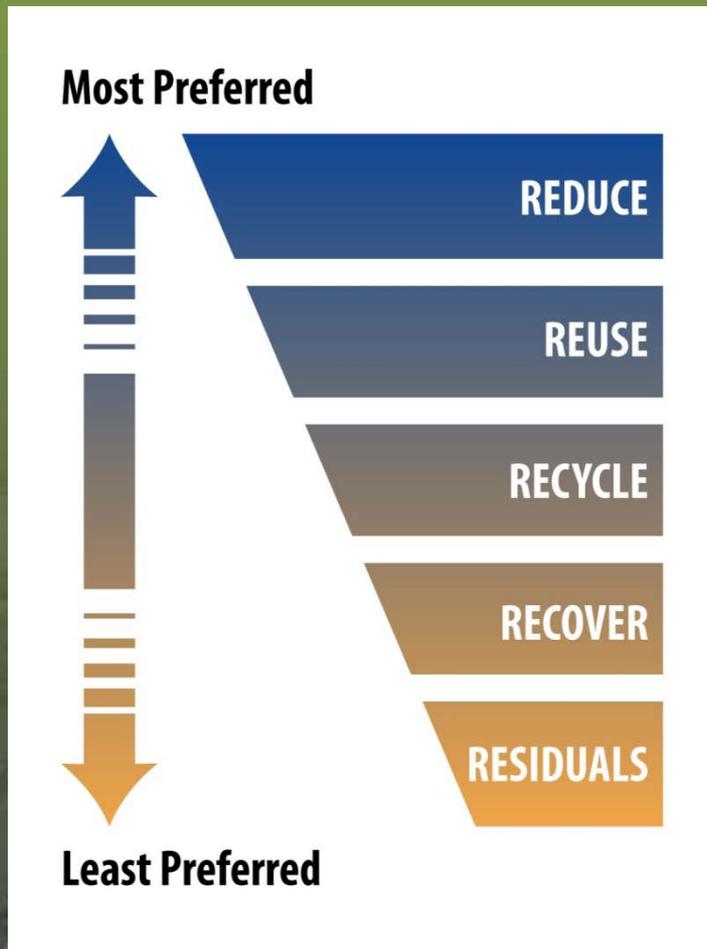
Open Meetings Act

- Clarification of Open Meetings Act
 - Don't Circumvent the Act
 - Guidance /City Attorney Website
- Encourage public participation
 - Attend meetings, access the website, submit comments, etc.
- Distribute information through the City

Plan Development

- Planning Process
 - Needs Assessments
 - Modules / Topics
 - Holistic View of “System” (integrated)
 - System Definition (Alternatives)
- Advisory Committee Input and Questions
- Education = Behavior Change

Source Reduction



- Definition/Framework/Options
- Zero Waste
- Product Stewardship
- Household Hazardous Waste
- Universal, Special and Unique Waste
- Yard Waste

Source Reduction/Reuse

REDUCE

- Is also known as waste prevention, means reducing waste at the source including:
 - reusing or donating items,
 - buying in bulk,
 - reducing packaging,
 - redesigning products, and
 - reducing toxicity.
- Objectives:
 - Minimize waste generation
 - Minimize waste disposed

Source Reduction

Definitions/Framework/Options

- **REDUCE** - prevention/sustainable consumption
- **Source Reduction** refers to any change in the design, manufacture, purchase, or use of materials or products (including packaging) to reduce their amount or toxicity before they become municipal solid waste. Source reduction also refers to the reuse of products or materials.

(Ref. USEPA Website 07/2012)

Source Reduction

Definitions/Framework/Options

- **Framework**

- Reduce it at the Source
- RCRA National Goals (1976)
 - Protect human health & the environment from the potential hazards of waste disposal
 - Conserve energy and natural resources
 - Reduce the amount of waste generated
 - Ensure waste are managed in an environmentally sound manner
- Zero Waste – Similar Objectives

Source Reduction

Definitions/Framework/Options

- **Options**

- Education/ Behavior Change
- Systems, Facilities and Programs
- Purchasing Practices
- Bans and Restrictions
- Incentives
- Organized exchanges
- Take-back programs

Source Reduction

Definitions/Framework/Options

- **Benefits of Reduction**

- Reduces Waste
- Saves Natural Resources
- Reduces Toxicity of Waste
- Reduces Costs
- Reduces Impact to the Environment
 - Saves landfill space

Zero Waste

REDUCE

- Overarching concept encompassing all waste reduction and diversion options.
- Zero Waste is a philosophy and design principle
- Zero Waste is a goal that is ethical, economical, efficient and visionary, to guide people in changing their lifestyles and practices to emulate sustainable natural cycles, where all discarded materials are designed to become resources for others to use

What is Zero Waste?

Designs "waste" out of the system

Goes beyond "end of pipe" strategies

Discarded materials are potentially valuable resources

Maximizes recycling and composting

Manufacturing

Consumption

Collection

Disposal

Reduces consumption

Processing

Extraction

Recognizes that "waste" is not inevitable



Zero Waste



Product Stewardship

REDUCE

Is a product-centered approach to environmental protection that calls on those in the product lifecycle—manufacturers, retailers, users, and disposers—to share responsibility for reducing the environmental impacts of products.

(Ref. USEPA Website 07/2012)

- Objectives
 - Minimize health, safety, environmental and social impacts
 - Maximize economic benefits of product and packaging through all lifecycle stages.

Extended Producer Responsibility

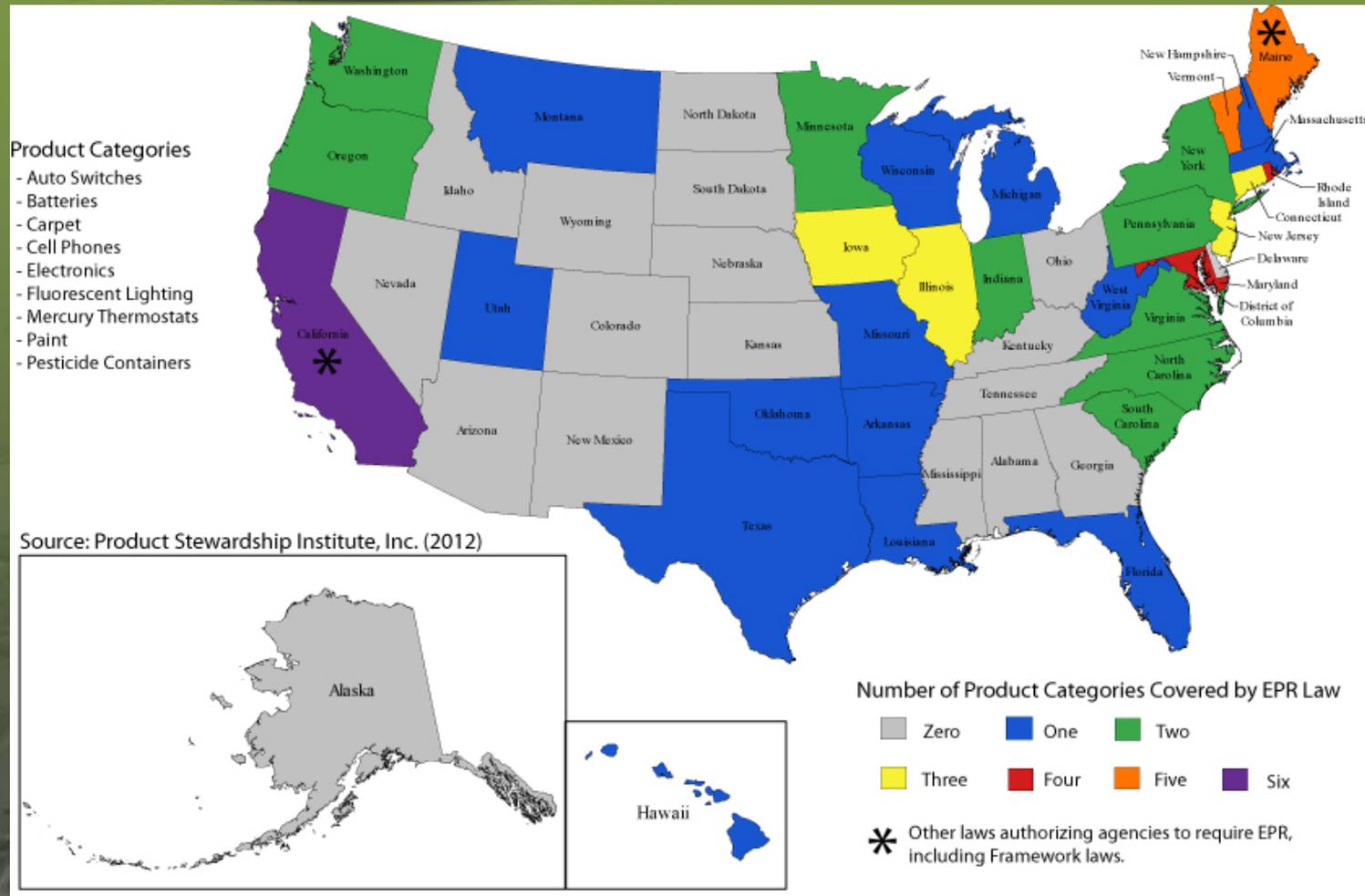
Is a mandatory type of product stewardship that includes the requirement that producers' responsibility for their product extends to post-consumer management of the product and its packaging.

(Ref. Product Stewardship Institute Website 07/2012)

- Objectives:
 - Help finance end-of-life disposal of products

Product Stewardship

Extended Producer Responsibility Laws



Product Stewardship & Extended Producer Responsibility Laws

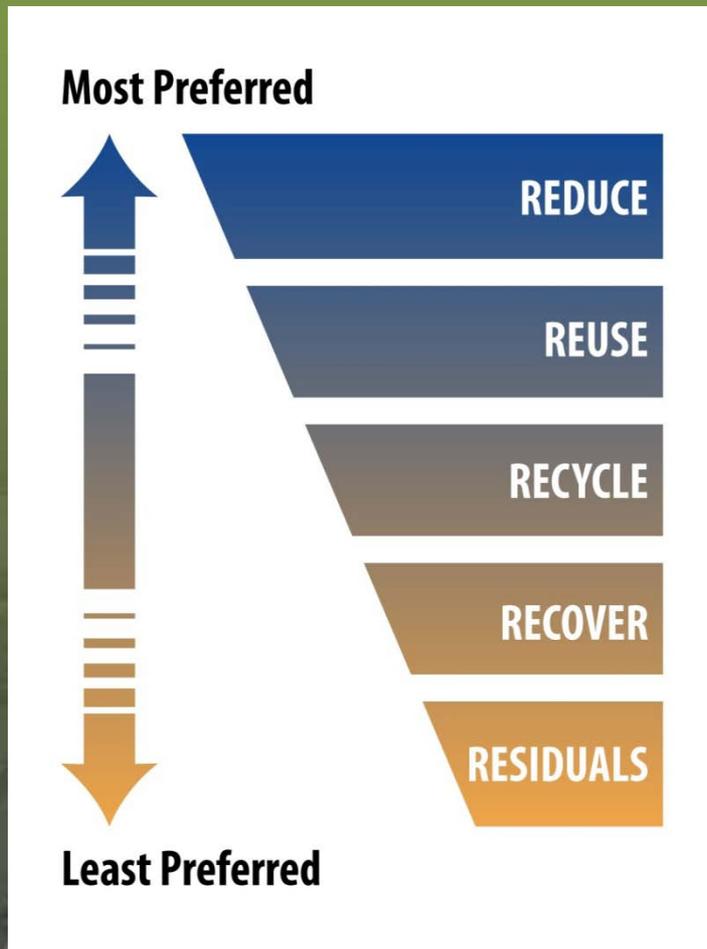
Examples - Product Stewardship

- Electronics
- Batteries
- Fluorescent Lights
- Motor Oil
- Pharmaceuticals
- Telephone Directories

Examples – Extended Producer Responsibility

- Voluntary Take-Back Programs
- Thermostat
- Pesticide Container
- Mandated Take-Back Programs

Source Reduction



- Definition/Framework/Options
- Zero Waste
- Product Stewardship
- Household Hazardous Waste
- Universal, Special and Unique Waste
- Yard Waste

Household Hazardous & CESQG (Small Business) Waste

REDUCE

Are leftover household or business products that contain corrosive, toxic, ignitable, or reactive ingredients, such as:

- Lawn & Garden chemicals
- Pesticides
- Automotive fluids
- Oil based paint/solvents
- Mercury containing items
- Cleaning agents

- Objectives:
 - Protect human health and the environment
 - Toxicity Reduction



Household Hazardous & CESQG (Small Business) Waste

REDUCE

Program Options:

- Education
- Mobile collection events
- Permanent facility
- Local business take-back
- Combination of Above

Issues:

- Accessibility
- Management
- Safety
- Behavior Change
- Funding

Household Hazardous & CESQG (Small Business) Waste

Permanent Facility

- Increased diversion
- Possibly increased number/types of materials
- Increased convenience and accessibility
- Maximize local reuse opportunities
- Store large size shipments
- Better support for CESQG



Universal, Special & Unique Wastes

REDUCE

Requires special handling and care for safe collection, proper recycling, or treatment and disposal

- Universal Waste
- Special Waste
- Unique Waste

- Objectives:
 - Protect human health & the environment
 - Focus on Waste Management Hierarchy/ Source Reduction
 - Proper disposal practices

Universal Wastes

- Universal Waste is **Hazardous Waste**
 - Batteries
 - Pesticides
 - Mercury-containing items
 - Spent Lamps (light bulbs)
 - Electronic Items
- Regulations streamlined the management to facilitate recovery and recycling
- Program Options:
 - Source reduction
 - Retail take-back
 - Product stewardship & EPR
 - Drop-off facility

Special Waste

- Possesses physical, chemical, or biological characteristics that make it different from general municipal solid waste
- Requires special management to ensure protection of public health, safety, or the environment
- Program Options:
 - Education
 - Source reduction, reuse & recycling
 - Take-back programs
 - Product stewardship & EPR

Unique Wastes

Require special handling or may be more difficult to manage, reuse or recycle

- Tires
- Electronics
- Scrap Metal & Appliances
- Household medical & pharmaceutical waste
- Paints
- Difficult to handle items

- Program Options:
 - Education
 - Source reduction
 - Take-back programs
 - Product stewardship & EPR
 - Drop-off facilities

Yard Waste

REDUCE

Grass and leaves in combination with chipped trees and branches and other organic material collected as the result of the care of ornamental plants, lawns, shrubbery, vines and gardens.

(NDEQ Title 132)

Grass cuttings or clippings and leaves.

(LMC 8.32.010)

- Objectives:
 - Source reduction
 - Material Utilization

Yard Waste

Program Options:

- Source Reduction
- Landfill Diversion/Composting
- Landfilling with Energy Recovery

Yard Waste

Program Options:

- Source Reduction
- Ban from City Landfill
- Landfill Diversion/
Composting (Status Quo)
- Landfilling with Energy
Recovery

• Issues:

- Can be accepted at landfills with energy generation
- Source reduction involves on-site use
- Collection and composting is form of Recycling
- Current landfilled MSW waste is 3 % yard waste
- Affects life of the City landfill

Committee Questions & Discussion

- Definitions/Framework/Options
- Zero-Waste
- Product Stewardship
- Household Hazardous Waste (HHW)
- Universal and Unique Wastes
- Yard Waste

Public Participation

Website: lincoln.ne.gov

–keyword: solid waste plan 2040

Social Media

Information Line

(402) 936-7042

Baseline Survey

Encourage public participation

– Attend meetings, access the website, submit comments, etc.



The screenshot shows the website for the Solid Waste Management Plan for Lincoln and Lancaster County. The header includes the City of Lincoln logo and the project title. A navigation menu lists: Home, The Plan, The Process, Committee, Contact, FAQs, Resources, and Community Comments. Below the menu is a photo of a landfill. The main content area is titled "Solid Waste Plan 2040" and includes a paragraph about the plan's development. At the bottom of the page, there are logos for the City of Lincoln, Lancaster, and the Public Works & Utilities and Health Departments. A search bar is visible at the top right of the browser window.

Log on to <http://lincoln.ne.gov>
Search: **Solid Waste Plan 2040**

Solid Waste Management Plan for Lincoln and Lancaster County

 **Solid Waste Plan 2040** 

Public Comment

- Guidelines:
 - State name and address
 - Limit your remarks to time allotted – 3 minutes
 - Show respect to the meeting attendees, Advisory Committee members, facilitator and presenter(s)
 - No foul language or inappropriate behavior
 - Follow standard rules of decorum

Next Advisory Committee Meeting

Next Meeting:

September 11, 2012

2:30 pm to 4:30 pm

Lincoln/Lancaster County Health Department
Lower Level Training Room

Tentative Topics:

- Occupation Tax
- Plan Goals
- Needs Assessment
- Recycling Module

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 **Solid Waste Plan 2040** 