





Sustainable Materials Management

April 2011 Smart Management for Small Communities

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Sustainable Materials Management

Who has heard of SMM?

What do you think it means?









"We live in a material world. How our society uses materials is fundamental to many aspects of our economic and environmental future. If we want the U.S. to be competitive in the world economy, the sustainable use of materials must be our goal."

Sustainable Materials Management:
 The Road Ahead, EPA 2009









What is SMM?

Reduce – Reuse – Recycle – Compost

Environmental Finance Center
Syracuse University







A New Way Of Thinking?















A New Way Of Thinking!











Sustainable Materials Management (SMM)

- USEPA EPA -> SMM Plan
- NYSDEC → Beyond Waste Plan
- Reduce > Net Zero Hierarchy











EPA – Sustainable Materials Management

Our use of materials now challenges the capacity of the Earth – air, water and land – to withstand the many resulting environmental problems....

We need to fulfill our human needs and prosper while using less material, reducing toxics and recovering more. Business as usual cannot continue.

- Sustainable Materials Management, 2009)









Sustainable Materials Management



Sustainable Materials Economy











The Goal of "Zero"

Eliminate the Concept of Waste



BAGSTER









BUY.

GONE.









Biological Nutrients



Technical Nutrients









Pillars of Zero Waste (Beyond Waste)

Upstream

Downstream

Green Businesses and Jobs



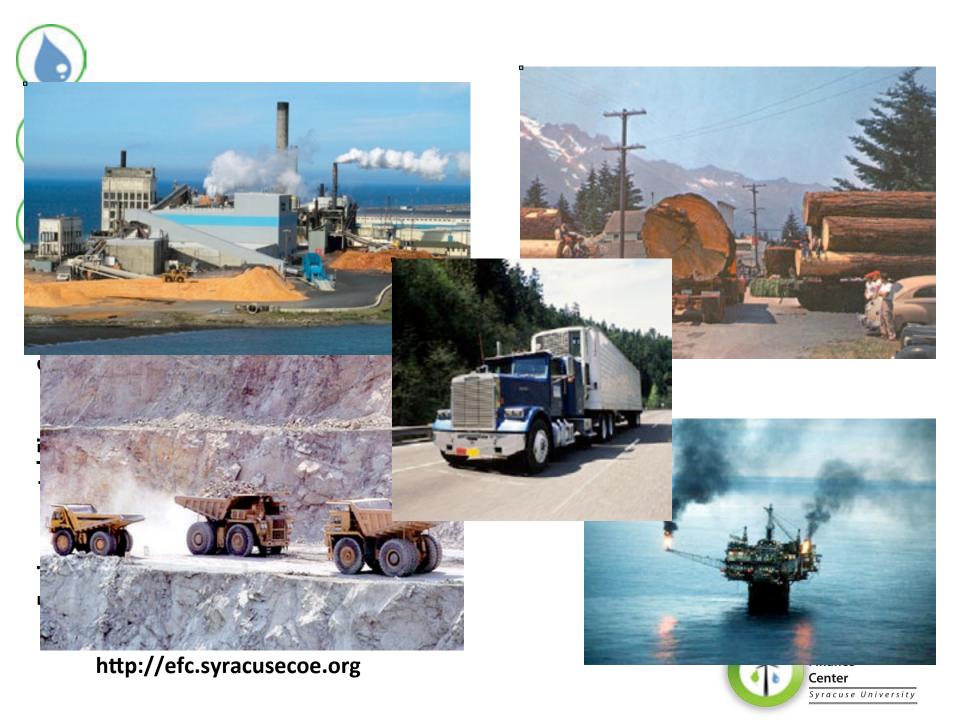






Look Upstream













Understand Impacts Throughout The Supply Chain











Purchasing for Zero Waste





Some Zero Waste Businesses





- Anheuser-Busch, Fairfield, CA
- Apple Computer, Elk Grove, CA
- Epson, OR
- Hewlett-Packard, Roseville, CA
- New Belgium Brewery, Fort Collins, CO
- Pillsbury
- Xerox Corp
- **Ricoh Electronics**
- Toyota
- 2800 Businesses in Japan

Environmental Finance Center









Generic Types of Generation

- 1. Warehousing & Distribution
- 2. Offices
- 3. Food Services
- 4. Grounds
- 5. Construction
- 6. Manufacturing, etc.
- 7. Vehicular Maintenance Maintenance
- 8. Retail
- 9. Housing & Hospitality









Business Case

- Reducing Waste Saves
- Reducing Waste is the "Right Thing To Do"
- Beyond Compliance

Margaret Bruce, Silicon Valley Manufacturing Group









Public Awareness is Key









Where is EFC doing training?

- Public Management and Finance program
 - Local Leaders Conferences
 - Technical Assistance Partnership Forums
 - Webinar trainings
 - Publications and other outreach efforts
- Other events (eg, NOFA-NY)









SMM Webinar Series

• 3-4 Webinars, June-October

Coming up...

- June 1st: "Composting is Easy. Why Don't People Get it Right?"
- July: E-Waste and the Implications of NY State's New Law

Other topics:

- Extended Producer Responsibility
- Green Purchasing









What do we do at our office?

Reduce

Reuse

Recycle

Compost









National SMM Resources

- National Recycling Coalition: http://www.nrcrecycles.org/
- 2) US Composting Council
- 3) Grassroots Recycling Network
- 4) Product Stewardship Institute
- 5) Institute for Local Self Reliance









New York State SMM Resources

- 1) Environmental Finance Center
- 2) NYSDEC Division of Materials management
- 3) Cornell Waste Management Institute
- 4) New York State Product Stewardship Council
- New York State Association of Reuse, Reduction, and Recycling
- 6) Cornell Cooperative Extension (Composting)









Online Marketplaces

EFC also supports online materials exchange sites:

Through ReuseAlliance:

- www.BiomassTrader.org/NY
- www.CDMaterialTrader.org/NY

EFC:

- www.NYAgTrader.org
- www.NYFoodTrader.org









GreenProjectExchange.org

- Share your green projects and success stories;
- Learn what other NYS communities are doing;
- Get a 2GB flash drive for signing up;
- Get recognition for your efforts!













Thank You!

