

WasteWise Program

Cleveland Venues Initiative

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Outline

- Summary of WasteWise
- How Waste Management relates to Climate Change
- Opportunities within the WasteWise Program
- WasteWise Tools



What Is WasteWise?

- WasteWise is a free, voluntary partnership program.
- WasteWise helps organizations eliminate costly waste through waste reduction practices—benefiting the organization's bottom line *and* the environment.
- WasteWise is flexible.

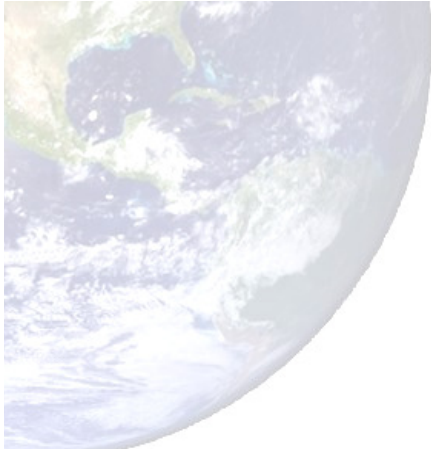


WasteWise—The Three Pronged Approach

Targets or Promotes Waste Reduction

- Waste prevention
- Recycling
- Purchasing and manufacturing recycled-content products





Relating Waste to Climate Change

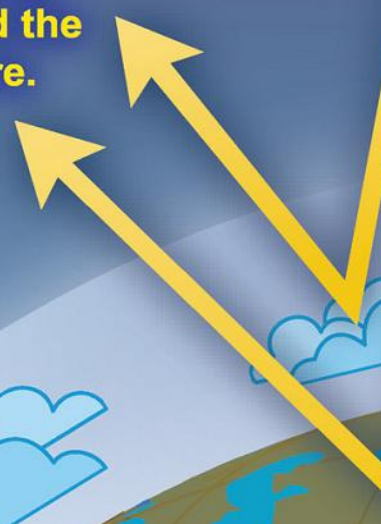
The Greenhouse Effect

Some of the infrared radiation passes through the atmosphere but most is absorbed and re-emitted in all directions by greenhouse gas molecules and clouds. The effect of this is to warm the Earth's surface and the lower atmosphere.

Solar radiation powers the climate system.



Some solar radiation is reflected by the Earth and the atmosphere.



About half the solar radiation is absorbed by the Earth's surface and warms it.

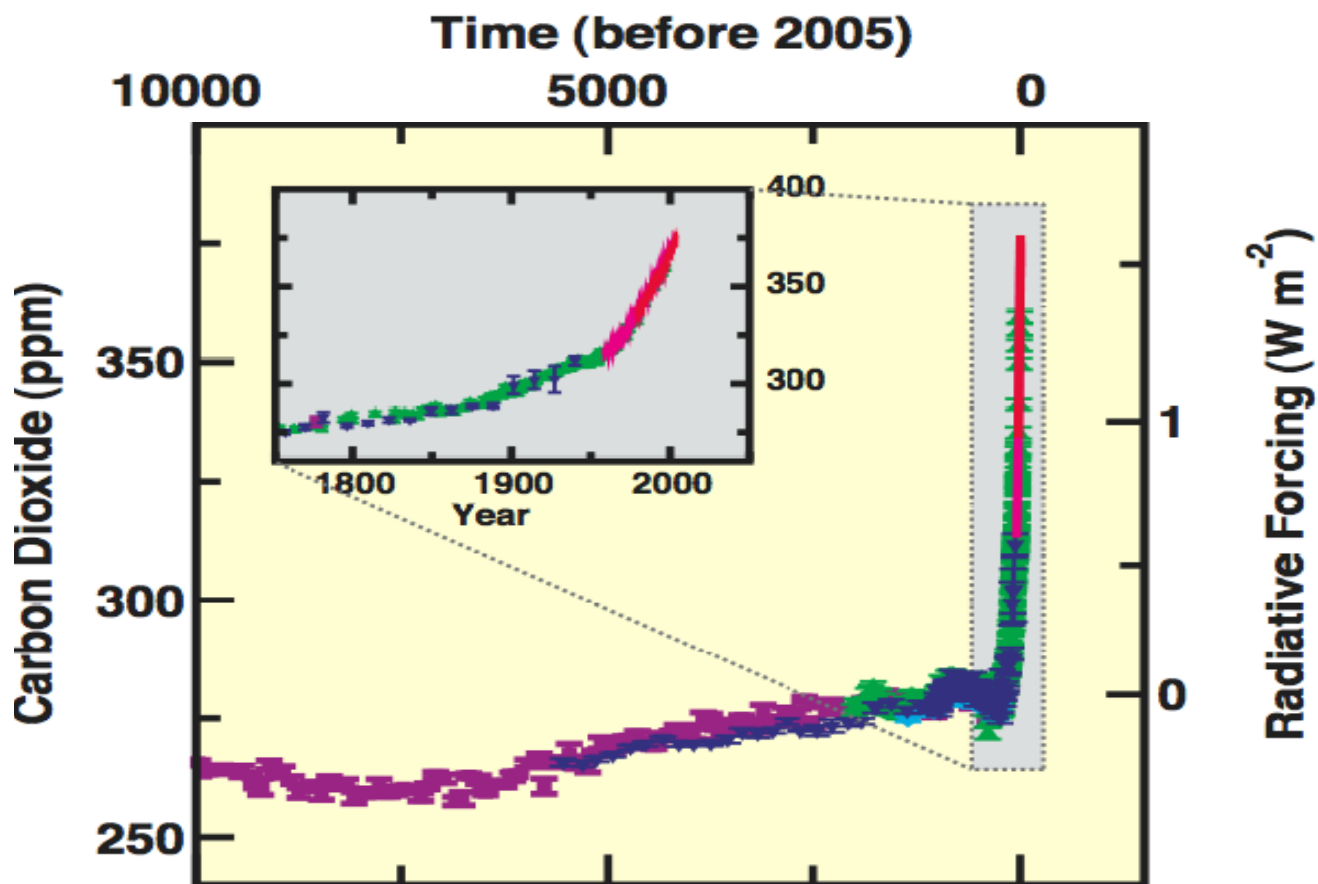
ATMOSPHERE

EARTH

Infrared radiation is emitted from the Earth's surface.



Atmospheric concentrations of CO₂ far exceed the natural range over the last 650,000 years.

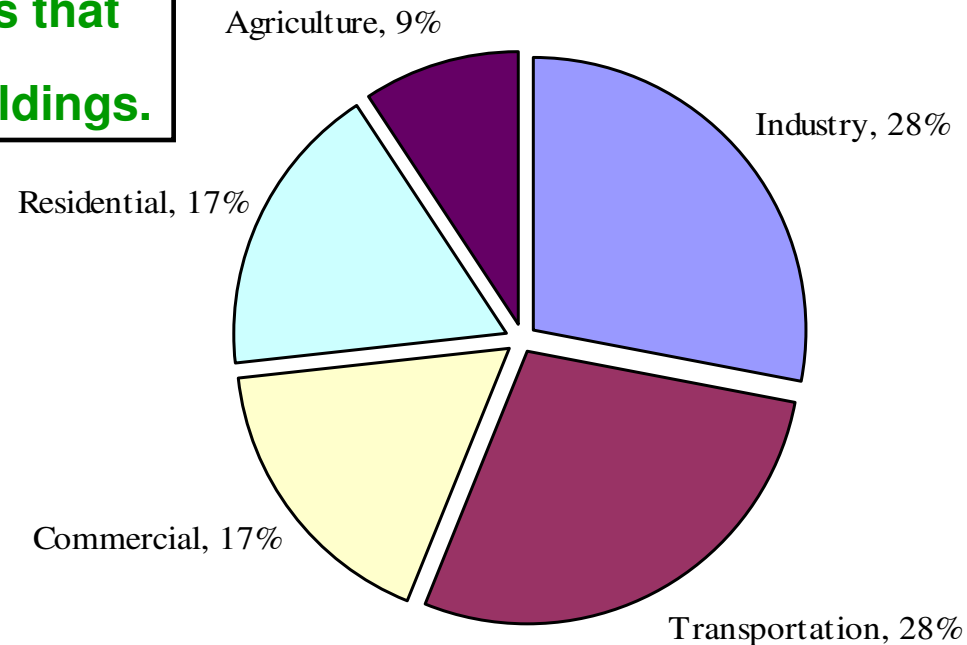


Source: IPCC
WGI AR4, 2007.

Sources of Greenhouse Gas Emissions in the U.S.

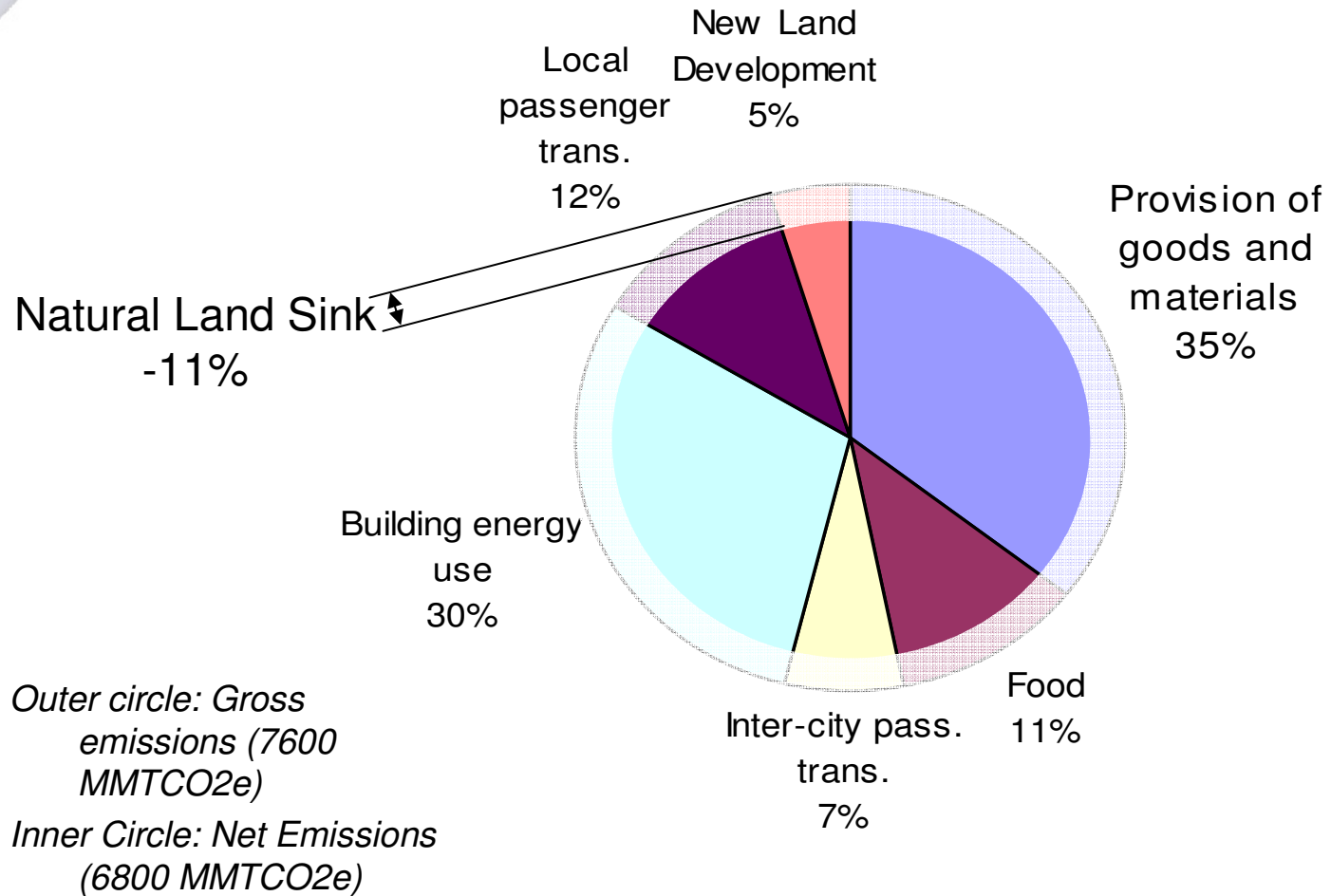
U.S. GHG Emissions as Shown by End-Use Sectors

Local governments have control over decisions that affect land use, transportation, and buildings.



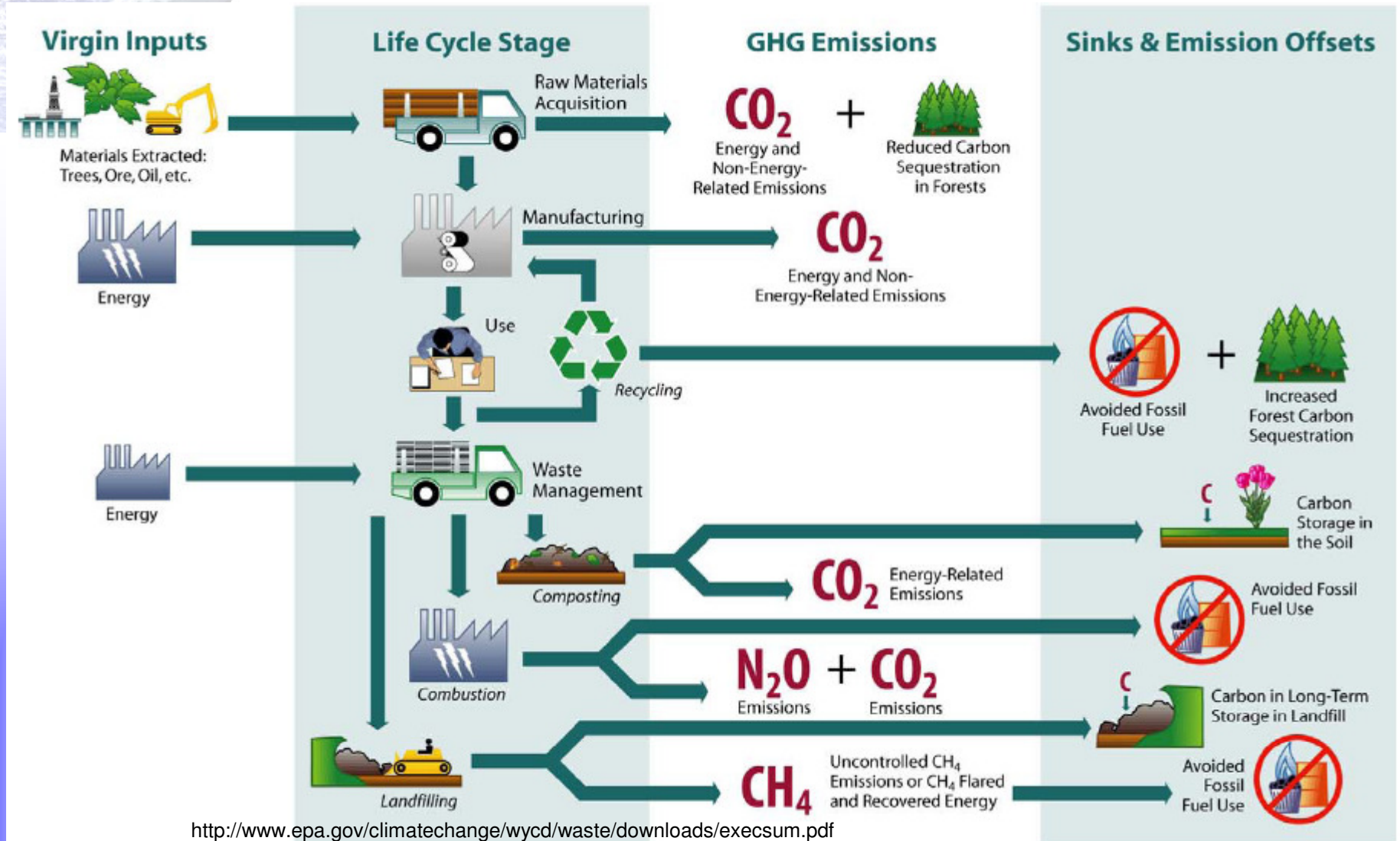
Source: Inventory of U.S. GHG Emissions and Sinks, 2007

US GHG Emissions 2005: *Emissions inventory re-categorized to show emissions by category of use*



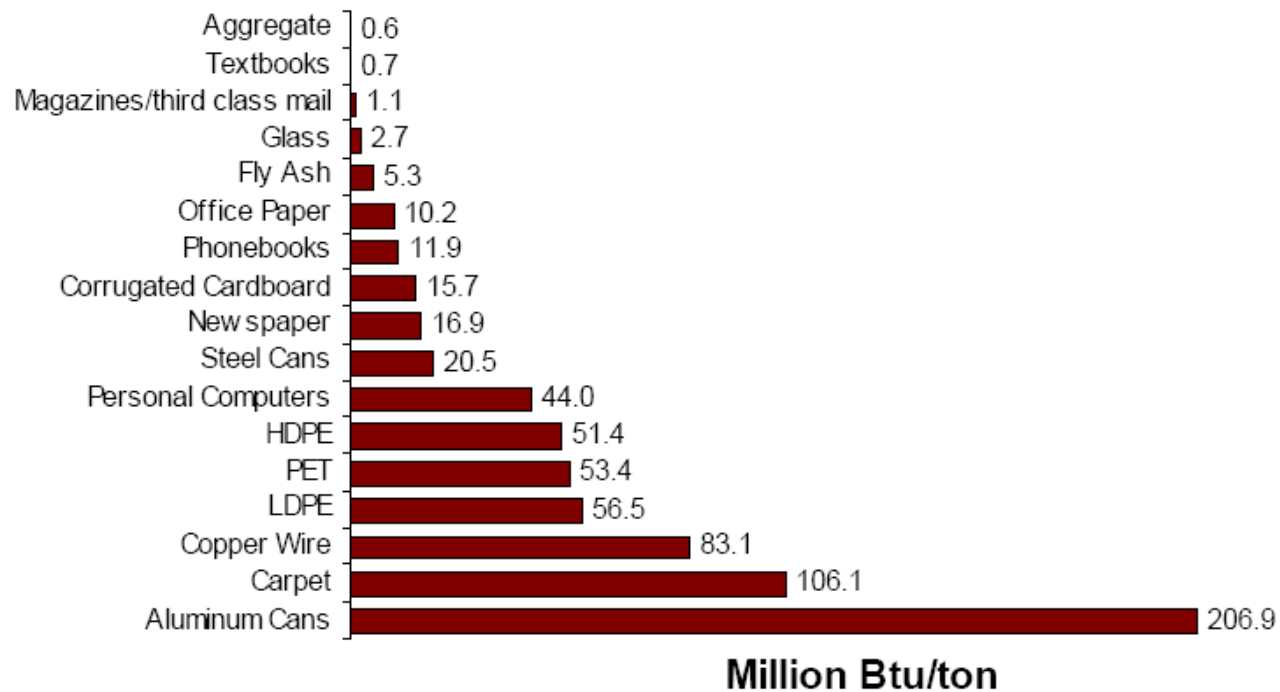
Source: Draft analysis by EPA OSWER Center for Program Analysis

Connecting Waste to Climate Change



Recycling Saves Energy!

**Exhibit 1: Energy Savings Per Ton Recycled*
(Million Btu)**



* Assumes recycled materials would otherwise have been landfilled. Includes embedded energy.

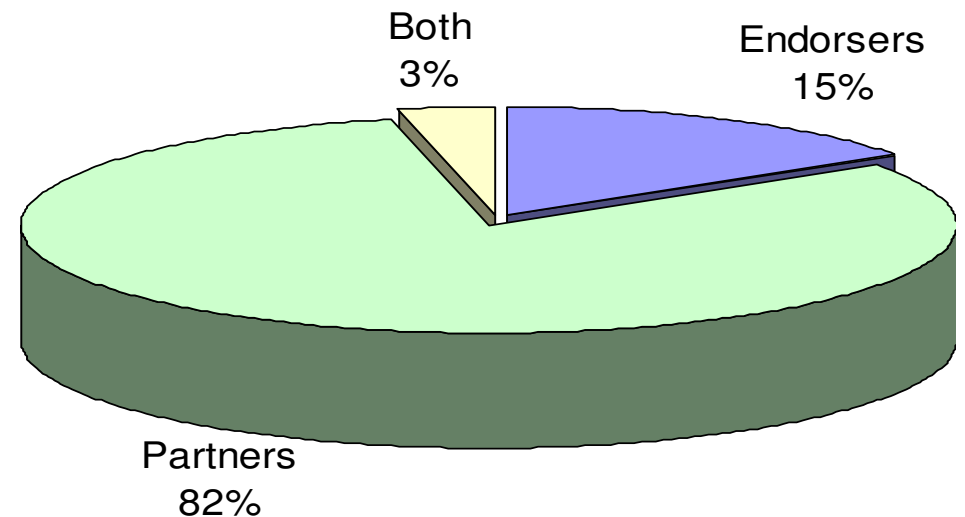
Benefits of Achieving 35% Recycling Goal

- Energy Benefits: 1.72 quadrillion BTU
 - Equivalent to 13.7 billion gallons of gas
- Climate Benefits: 58.9 million MTCE
 - Equivalent to 46.7 million cars



WasteWise Members


- More than 1,900 members —both partners and endorsers
- Members represent:
 - 54 government and business sectors
 - Fortune 500 companies
 - Private businesses
 - Independent, locally owned businesses





What Can WasteWise Do For My Organization?

- Cost savings
 - Avoided disposal costs
 - Purchasing savings
 - Recycling revenue
- Partner Benefits
 - Awards
 - Case studies
 - Climate Profile
 - Free Solid Waste Management Software
- Environmental Benefits
 - Waste reduction benefits
 - Climate benefits (greenhouse gas emission reductions)
- Technical Assistance
 - Individual attention
 - Quick turnaround

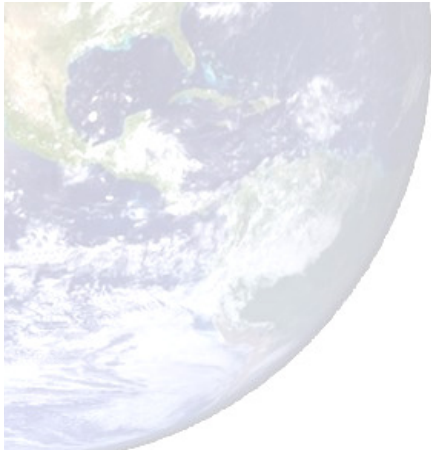


WasteWise Partner Accomplishments

Since the inception of the WasteWise program, partners have:

- Reduced more than 124 million tons of waste.
- Prevented the emission of more than 73 million metric tons of carbon equivalent (MTCE)—thereby reducing the impact on global climate change.





Who Can Join?

- Any type of organization is encouraged to join.
- Registration is simple—and can be completed online at:

<http://my.re-trac.com/NewWasteWisePartner.pm>

OMB No. 2854-0120
Expiration Date: November 30, 2005
My organization is ready to become a WasteWise Endorser!

Endorser Registration Form

Organization: _____
Principal Contact: _____ Title: _____

OMB No. 2854-0120
Expiration Date: November 30, 2005

Partner Registration Form

Preserving Resources. Preventing Waste.

Section A: Facility Information

Organization Name: _____
Facilities to be included in registration: _____ Number of Employees at These Facilities: _____
Industry sector, or Type of Government: _____
Check if a: Subsidiary or Division, Name of Parent Company (if applicable): _____
Principal Contact: _____ Title: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone Number: _____ Fax: _____ Email: _____

Section B: How You Heard About WasteWise

Referral from Another Company, Government, or Institution (Name): _____
 Periodic Publication (Name): _____ Workshop/Conference (Sponsor): _____
 WasteWise Web Site Other (Specify): _____

Section C: Waste Reduction Priorities

Please indicate which waste reduction activities are of most interest to your organization.

Waste Prevention Activities

WasteWise U.S. Environmental Protection Agency

WasteWise Partner Registration Form

My organization is ready to become a WasteWise partner. Please send a membership packet.

How did you hear about us?

Another Company, Government, or Institution Name: _____
 Direct Mail from WasteWise
 Other EPA Program Name: _____
 Periodic Publication Name: _____
 PISA (e-mail) List Name: _____
 Trade Association Name: _____
 WasteWise Web site Sponsor: _____
 Workshop/Conference Saver: _____
 Other

About your organization

Product activities

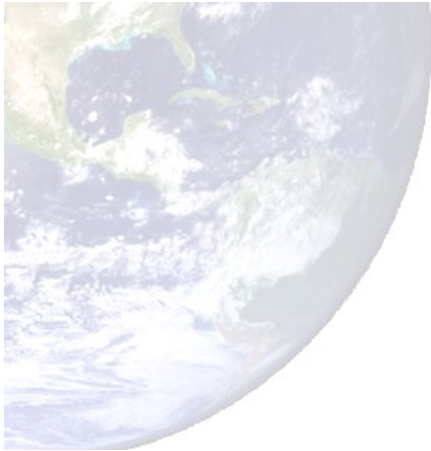
become WasteWise

in of the WasteWise banned activities. If not

Program

Recycled Activities recycled content: _____
If already purchased: _____
If products you manufacture: _____


How to join: www.epa.gov/join.htm - returns at least 50% recycled fiber



WasteWise Partner Commitments

- Submit the WasteWise Assessment Form—with baseline data—to WasteWise within two months of registering in the program.
 - Submit baseline data
 - Set goals for waste prevention and recycling
- Report annual progress via the WasteWise Assessment Form.

OMB No. 2050-0139
Expiration Date: November 30, 2005

 Assessment Form

Please refer to the reporting instructions and the sample Annual Assessment Form when completing this form. Reliable measurements of your activities are important. If you have questions, call (800) EPA-WISE (372-9473) or email ew@epa.gov. Forms also can be submitted electronically through the Number Services section of the WasteWise web site, www.epa.gov/wastewise.

Section I - Participant Information

Organization Name: _____ Phone: _____
Principal Contact: _____ Email: _____
Facilities Included in Report: _____ Number of Total Employees: _____

Section II - Current Waste Reduction Activities

This Report Covers Data Measured From: _____ (Date) To: _____ (Date)
Total Amount of Municipal Solid Waste Disposed of During Reporting Period: _____ (Pounds or Tons*)
This information is (please check one): Baseline Data Annual Data

In the chart below, provide your waste prevention and recycling data. If this is your first time reporting data to WasteWise, you are reporting baseline data. If you have previously submitted data to WasteWise, provide data for this reporting year. Photocopy this page if you need more space.

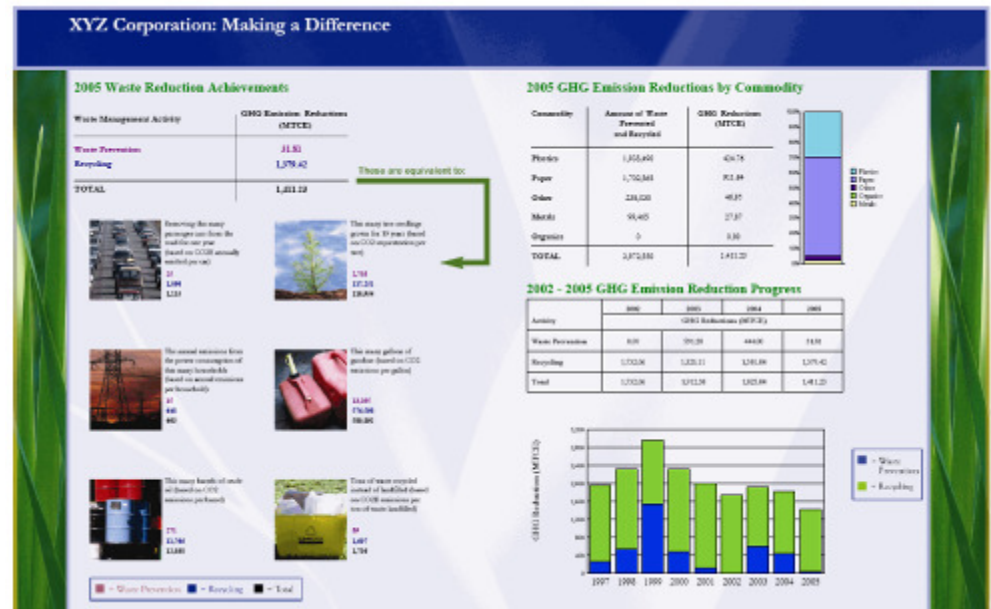
Waste Prevention			
Product/Material	Description of Waste Prevention Activity	Amount Prevented (Pounds or Tons*)	Goals for Upcoming Year

Recycling			
Product/Material	Description of Recycling Activity	Amount Recycled (Pounds or Tons*)	Goals for Upcoming Year

* Please note if data is reported as pounds or tons.

Individualized Climate Profile

- Calculates greenhouse gas emissions reductions resulting from partners' waste prevention and recycling activities.
- Translates these into real-life equivalents.
- Valuable tool for communicating environmental benefits to management, employees, customers, and other stakeholders.



Waste Management Tracking Tool

- Re-Trac Software
- Data Management system for tracking materials.
- Environmentally Preferred Purchases
- Generates GHG and solid waste management reports

The screenshot displays the 'Municipal Solid Waste Disposed - Baseline' page. It includes a navigation menu at the top with options like Home, Contact Info, Organization Info, Users, Baseline Data, Annual Data, Reports, and Logout. A sidebar on the left contains various tool options such as 3M, 3M Data, Create Report, View Reports, Export Data, and a 'Municipal Solid Waste Disposed' section with sub-options like Waste Prevention and Recycling, Buy/Manufacture Recycled Products, Cost Savings / Revenue, and Comments. The main content area features an 'Instructions' box, a 'Search Data Entries' section with date and baseline filters, and a table for entering waste data. The table has columns for Solid Waste, Activity, Amount, Units, Total in Tons, and Activity Description/Goals for Upcoming Year. A 'Subtotal' row is also present. A 'Save' button and a timestamp 'Last updated on Aug 11, 2009 4:35PM CST' are at the bottom.

Solid Waste	Activity	Amount	Units	Total in Tons	Activity Description/Goals for Upcoming Year
Mixed Municipal Solid Waste					
	Landfilled	<input type="text"/>	Pounds	<input type="text"/>	<input type="text"/>
	Incinerated	<input type="text"/>	Pounds	<input type="text"/>	<input type="text"/>
Subtotal					



Additional Tools

Greenhouse Gas Calculators

- Waste Reduction Model (WARM)

http://www.epa.gov/climatechange/wycd/waste/calculators/Warm_home.html

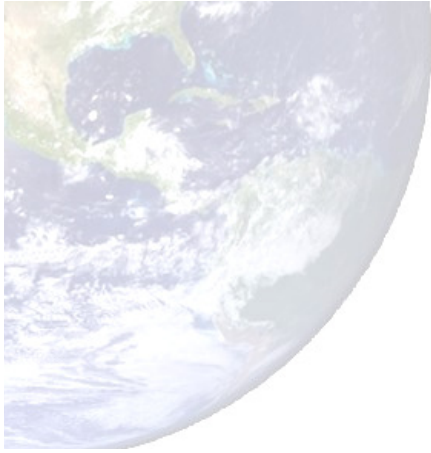
- Recycled Content Tool (ReCon)

http://www.epa.gov/climatechange/wycd/waste/calculators/ReCon_home.htm

Electronics Environmentally Preferred Purchasing

- Electronic Product Environmental Assessment Tool (EPEAT)

<http://www.epeat.net/>



For More Information

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