



# WasteWise Program

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# What is WasteWise?

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





# Who Can Join WasteWise?

- Any type of organization can join.
- Currently, there are more than 2500 partners and endorsers in WasteWise from more than 50 sectors.
- Registration is simple and available online.

[www.epa.gov/epawaste/partnerships/wastewise/join.htm](http://www.epa.gov/epawaste/partnerships/wastewise/join.htm)







# Healthcare WasteWise Partners

- CT hospital partners
  - Bridgeport Hospital
  - St Vincent's Medical Center
  - Hospital of Central Connecticut
  - Hartford Hospital

In New England, there are currently 29 hospital partners. Hospitals are usually under “Medical Services” category





# The WasteWise Approach

Partners commit to at least three approaches to waste reduction:

- Waste prevention (i.e. source reduction)
- Recycling
- Purchasing recycled content products
- Manufacturing products using recycled content





# Benefits of Waste Reduction

- Cost savings
  - Avoided disposal costs
  - Recycling revenue
  - Purchasing less from source reduction
- Environmental Benefits
  - Waste reduction benefits
  - Climate benefits (greenhouse gas emission reductions)
- Good PR





# Waste and Climate Change

- Waste generation and management is a source of GHG emissions.
- Waste management activities account for approximately 3% of total U.S. GHG emissions.
  - A September 2009 EPA report states that combined material management is associated with an estimated 42% of total US GHG emissions.
- Waste reduction activities result in emission reduction benefits that are realized across multiple industry sectors .

# MSW Life Cycle—Linear

Virgin  
Materials



Manufacturing  
& Processing



Products



Consumer  
Purchasing



Disposal





# MSW Life Cycle—Cyclical



# You Can Make a Difference!

By choosing to prevent waste and recycle, you can help curb climate change. Assume your office, for example, throws away 100 tons of white office paper each year. If you recycle just half that amount of paper, look what happens:

## Scenario 1

Throwing away  
100 tons  
of office paper

**Waste  
Management  
Impact:**

62 MTCE



## Scenario 2

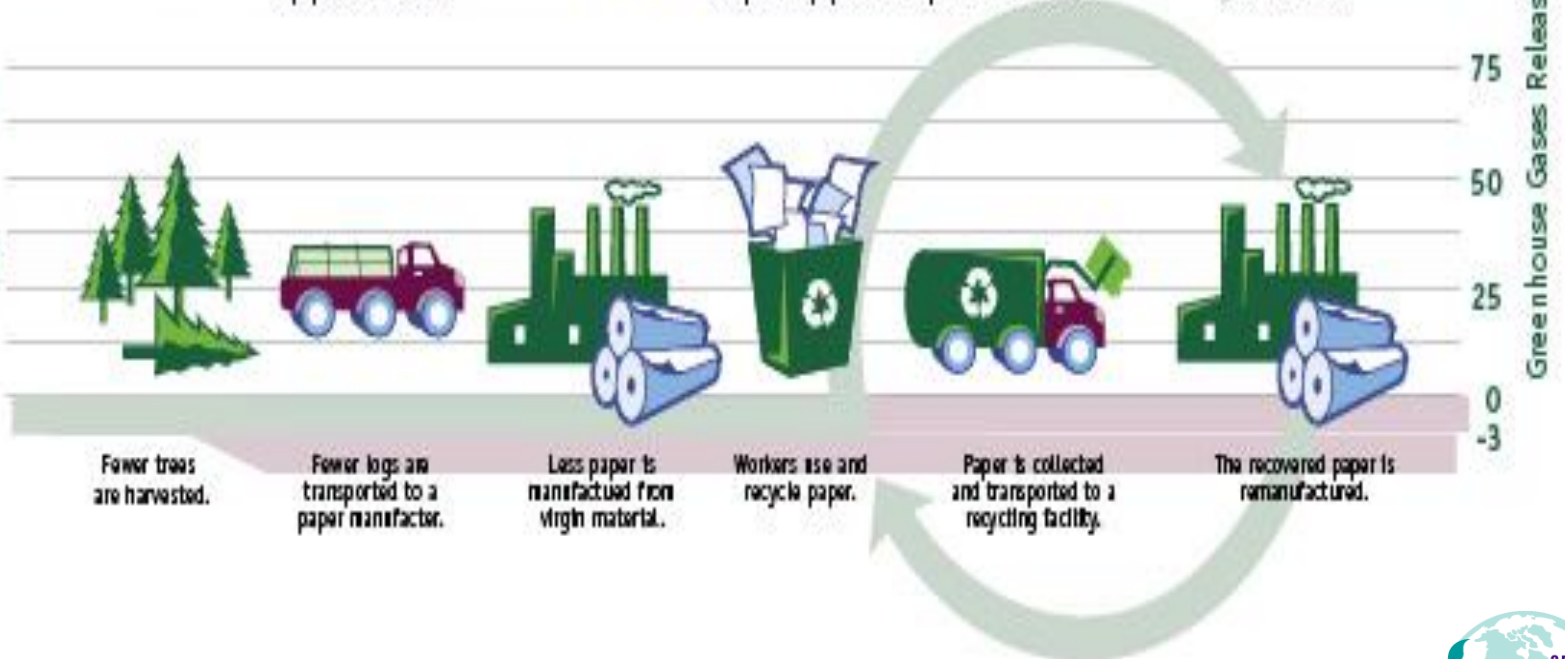
Recycling 50 tons  
of that paper

**Waste  
Management  
Impact:**

-3 MTCE

**Net GHG  
Emission  
Savings:**

-65 MTCE





# What Does WasteWise Offer?

- Free Technical Assistance
  - Individual attention, Helpline, Publications
- Free Re-TRAC waste tracking database
- Access to waste activities reports
- Climate Profile
- EPA Recognition
  - Awards, case studies, articles, and website success story features
- Sector Benchmarking





# Re-TRAC Database

- Partners can track activities and input data all year long
- Re-TRAC is designed to be an interactive tool—not just for end-of-year reporting
- Provides tangible benefit to Partners for improved data management

WasteWise  
Preserving Resources, Preventing Waste  
WasteWise@icfi.com  
1-800-EPA-WISE

Search Transactions

From: January 1 2008  
To: March 31 2008

Materials	Activity	Amount	Units	Total in Tons	Goals for Upcoming Year
Corrugated	Waste Prevention		Pounds		
	Recycling	34.00	Pounds	0.02	
Subtotal				0.02	
Mixed Paper	Waste Prevention		Pounds		
	Recycling	2.00	Tons	2.00	
Subtotal				2.00	
Newspaper	Waste Prevention		Pounds		
	Recycling	5.00	Pounds		





# Re-TRAC Database

- Partners can report data for multiple locations
  - Ex: ACME Paper can report activities in their VA, MD, and DC offices
  - Need to have at least one location
  - Climate Profile report sums the data for all locations

View Member - ACME Paper - WasteWise - Mozilla Firefox

File Edit View History Bookmarks Tools Help

**WasteWise** - A Partner Tracking and Reporting Tool. This site is used for testing purposes only.

Home | Contact Info | Organization Info | Users | Annual Assessment | Reports | Logout Help | Contact WasteWise

You are logged in as Michael Scott

ACME Paper  
[Create Report](#)  
[View Reports](#)

Year: 2008

Manage Users

**WasteWise**  
  
 Preserving Resources, Preventing Waste  
[WasteWise@icfi.com](mailto:WasteWise@icfi.com)  
 1-800-EPA-WISE

**View ACME Paper Status for 2008**

**Instructions**  
 For first time users, click on the "Add Member Reporting Location" link, use the dropdown menu to select the location's State, and give that location a name (Facility 1). Once a location is created, you may enter the reporting data for the selected year. You may create as many locations as necessary. Once you have entered data, you may click on the green icons to revise or enter new data.

**Add Member Reporting Location:** Click this link to add a new reporting locations. If you operate at more than one site you can add as many locations as you need.

[Edit Organization Information](#) | [Manage/Edit Users](#) | [Finalize and Submit Data for 2008](#)

**Legend**  
 ✓ Indicates Data Exists for 2008    ⓘ Indicates No Data for 2008  
 ✎ Click to Edit the Location Name

Reporting Location	Municipal Solid Waste Disposed	Waste Prevention and Recycling	Buy/Manufacture Recycled Products	Cost Savings / Revenue	Comments
1. <a href="#">DC Offices</a>	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ
2. <a href="#">MD Offices</a>	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ
3. <a href="#">VA</a>	ⓘ	ⓘ	ⓘ	ⓘ	ⓘ

Done Nov Mostly Cloudy, 87 °F    Tue: 86 °F    Wed: 81 °F



# Re-TRAC Database

- Numerous materials are pre-loaded for reporting
  - Synchronized with EPA's WARM model
  - Ability to add "Other" when material is not on the list

All Materials	Activity	Amount	Units	Total in Tons	Goals for Upcoming Year
Corrugated	Waste Prevention				
	Recycling				
Subtotal					
Mixed Paper	Waste Prevention				
	Recycling				
Subtotal					
Newspaper	Waste Prevention				
	Recycling				
Subtotal					
<b>Total Tons</b>					







# Re-TRAC Database

- Manage contact information within Re-TRAC like:
  - Name
  - Email
  - Address
- Partners can have multiple contacts
- Contacts can be limited to specific locations

**Edit User - WasteWise - Mozilla Firefox**

File Edit View History Bookmarks Tools Help

http://wwtest.re-trac.com/UserController.pm

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools

You are logged in as Michael Scott

**Edit User**

[Change Password](#) | [Manage/Edit Users](#)

User Information correctly updated

\* **Email/Username**  Your email address will be your Username.

**Title**

**Salutation**

\* **First Name**

**Middle Initial**

\* **Last Name**

\* **Address**

**Address 2**

\* **City**

\* **State**

\* **Zip**

\* **Phone Number**

**Alt Phone Number**

**Fax Number**

Done Now: Rain, 70 °F Tue: 88 °F Wed: 86 °F

**WasteWise**  
Preserving Resources,  
Preventing Waste  
WasteWise@icfi.com  
1-800-EPA-WISE





# Re-TRAC Database

- Access to Re-TRAC reports with real-time data
  - Re-TRAC offers several valuable reports
  - Climate Profile available immediately after EPA reviews annual data
  - Historical data comparisons

**WasteWise Re-TRAC**

Home | Contact Info | Organization Info | Users | Baseline Data | Annual Data | Reports | Logout

You are logged in as Test Account

**Test Partner**


- Create Report
- View Reports
- Export Data

Change Location: ABC

**Manage**

- Users

**WasteWise**



Preserving Resources, Preventing Waste  
WasteWise@icfi.com  
1-800-EPA-WISE

**Standard Reports**

**Instructions**

Select the reporting locations and report pieces you would like to view and click the "Generate" button. O it at any time from the "Previously Generated Reports" page.

Locations: Modules:

ABC	Annual Assessment Data	Total Annual Municipal Solid Waste Disposed
ABCD	Annual Assessment Data	Waste Reduction Activities


Select all | Select all

Starting year for his:   
Generate report fo:   
Output Format:

**You may select or deselect pieces of the report here:**

Generate Report | Reset | Check all | Uncheck all | Show disabled pieces

- Location Trends Over Time**
  - Total Tons Generated
  - Total Tons Generated, Grouped by Quarters
  - Individual Material Tonnage by Year
  - Individual Material Tonnage Percentage Change Over Previous Years
  - Individual Material Tonnage as a Percentage of Total by Year
  - Module Tonnage by Source by Year
  - Total Tons Generated as % of Whole By Waste Stream
- Location Lists for the Current Year**
  - Tonnage Data**
    - Location List by Total Tons Generated, Ordered Alphabetically
    - Location List by Total Tons Generated, Ordered by Rank
    - Location List by Total Tons from Each Waste Stream, Ordered Alphabetically
    - Location List by Total Tons from Each Waste Stream, Ordered by Rank





# Re-TRAC Database

- Support resources for partners
  - Screen casts online
  - FAQs online
  - Helpline

The screenshot shows the WasteWise web application interface. The browser title bar reads "ACME Paper Home - WasteWise - Mozilla Firefox". The page header includes navigation links: Home, Contact Info, Organization Info, Users, Annual Assessment, Reports, and Logout. A sidebar on the left contains a login status "You are logged in as Michael Scott", a "ACME Paper" section with links for "Create Report", "View Reports", and "Export Data", a "Year" dropdown menu set to "2008", and a "Manage Users" section. The main content area is titled "2008 - ACME Paper Home" and contains an "Instructions" section with the following text: "Welcome to the WasteWise Solid Waste Tracking and Reporting Tool. This location will act as your primary homepage while you get familiar with the system. If at any time you would like to return to this area just click on the Home link at the top left. The current year you are entering data for is 2008. If you would like to enter data for another year or review data from another year you can switch the year from the sidebar. You have this options throughout the application. If you have already entered all of your Personal Information and Organization Information during the Registration Process, please feel free to click on the Data link and start entering ACME Paper's Information. Remember, when you first access the system and go to the main Member View page, you have to create at least one Reporting Location before you can begin entering data." Below the instructions are links for "Contact Info", "Organization Info", and "Users", each with a brief description of the respective section. The footer of the page includes the WasteWise logo and the text "Preserving Resources, Preventing Waste", "WasteWise@icfi.com", and "1-800-EPA-WISE". The browser status bar at the bottom shows "Done", "Now: Mostly Sunny, 86 °F", "Tue: 86 °F", and "Wed: 81".

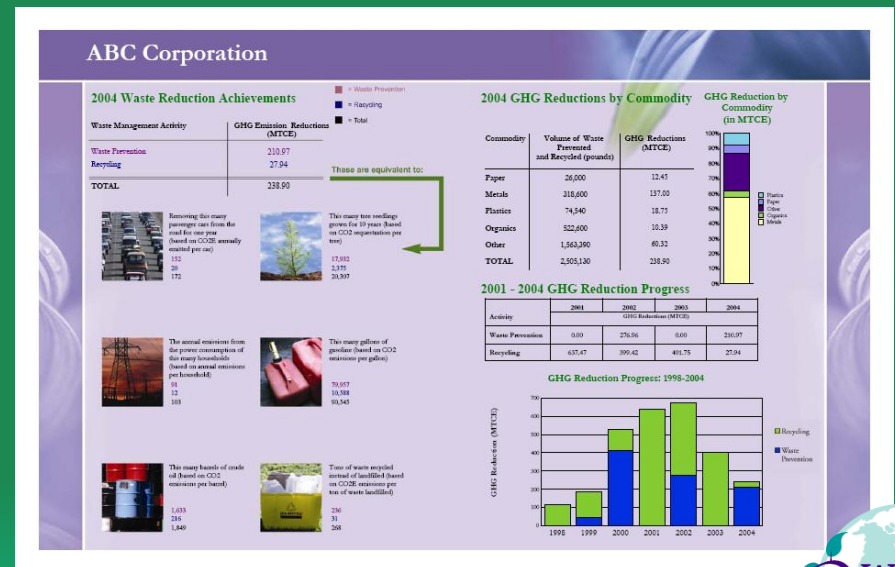






# Individualized Climate Profile

- Calculates greenhouse gas emissions reductions resulting from 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 Activity	GHG Emission Reductions (MTCE)
Waste Prevention	77.57
Recycling	28,261.41
<b>TOTAL</b>	<b>28,338.98</b>

These are equivalent to:



The annual GHG emissions from this many passenger vehicles

52  
18,979  
19,031



This many acres of standing forest (based on CO2 sequestration per tree)

2  
723  
725



The annual emissions from the energy consumption of this many households (based on annual emissions per household)

25  
9,146  
9,171



This many gallons of gasoline (based on CO2 emissions per gallon)

32,282  
11,762,223  
11,794,505



This number of propane cylinders used for home barbecues (based on CO2 emissions per pound of propane)

11,850  
4,317,717  
4,329,567

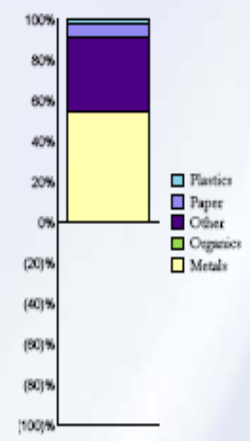


Tons of waste recycled instead of landfilled (based on CO2E emissions per ton of waste landfilled)

98  
35,733  
35,831

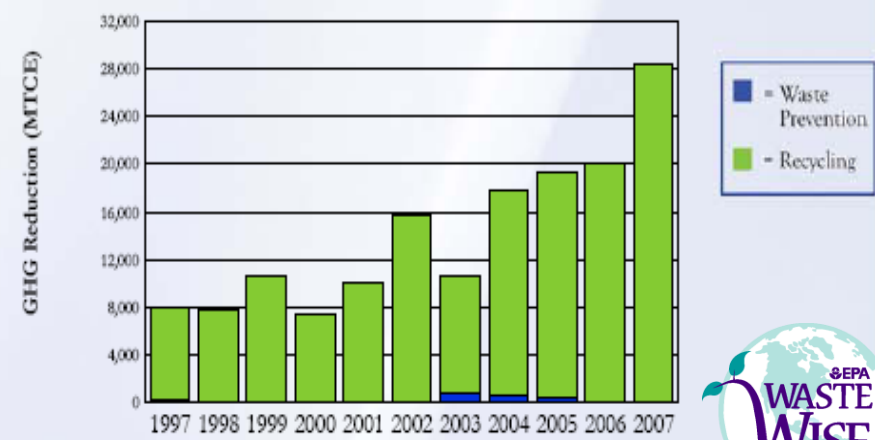
■ = Waste Prevention ■ = Recycling ■ = Total

Commodity	Amount of Waste Prevented and Recycled (pounds)	GHG Reductions (MTCE)
Other	254,980,706	10,440.25
Metals	24,249,096	15,594.22
Paper	4,208,340	1,753.77
Plastics	2,629,492	552.71
Organics	705,980	-1.97
<b>TOTAL</b>	<b>286,773,614</b>	<b>28,338.98</b>



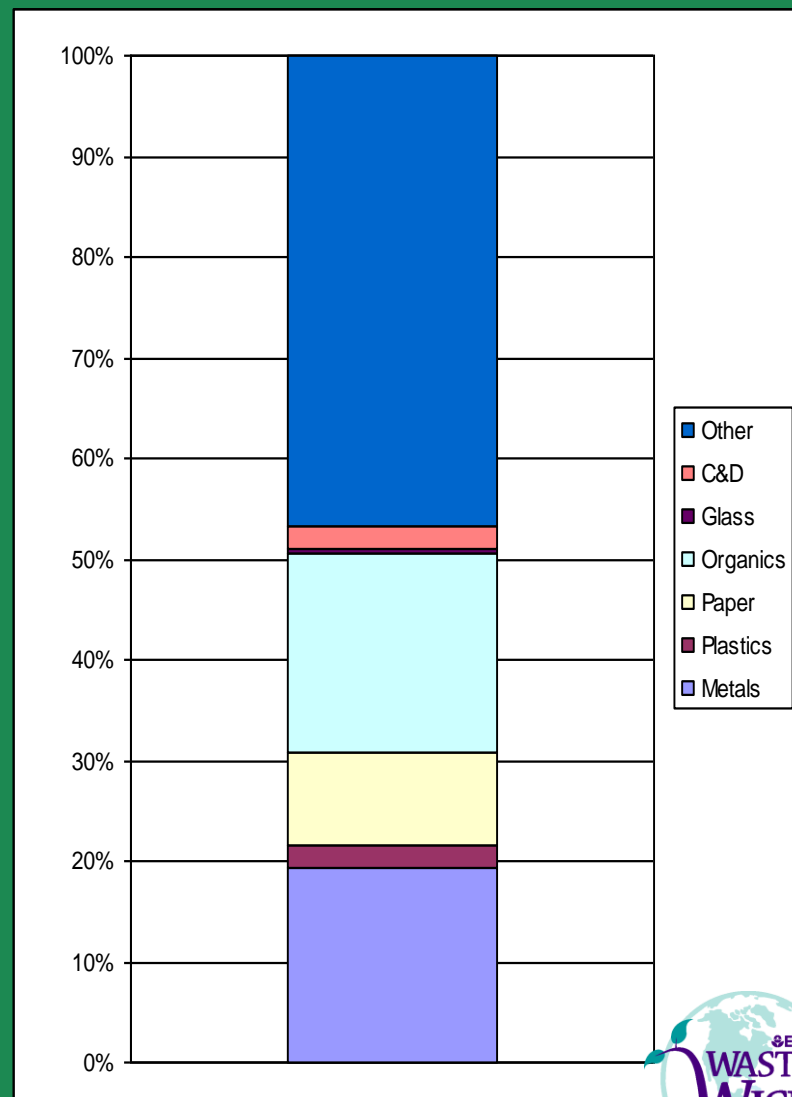
## 2004 - 2007 GHG Emission Reduction Progress

Activity	2004	2005	2006	2007
	GHG Reductions (MTCE)			
Waste Prevention	563.86	491.55	103.92	77.57
Recycling	17,290.58	18,873.94	20,061.57	28,261.41
<b>Total</b>	<b>17,854.44</b>	<b>19,365.49</b>	<b>20,165.49</b>	<b>28,338.98</b>



# WasteWise Partners' 2007 GHG Emission Reductions by Commodity

Commodity	Amount waste prevented & recycled (tons)*	GHG reductions (MTCE)
<b>Metals</b>	2,458,134	-3,689,057
<b>Plastics</b>	278,431	-139,490
<b>Paper</b>	1,177,041	-1,170,993
<b>Organics</b>	2,508,641	-602,881
<b>Glass</b>	54,682	-4,773
<b>C&amp;D</b>	273,817	-2,739
<b>Other</b>	5,942,355	-433,061
<b>TOTAL</b>	<b>12,419,283</b>	<b>-6,040,255</b>



\* Reported by partners







# WasteWise Partner Commitments

- Register to join the WasteWise Program online via Re-TRAC Database.
- Commit to at least three approaches to reduce waste.
- Submit baseline data online and within 60 days of registration.
- Report annual progress via Re-TRAC.



## Want to Join WasteWise?

Registration is simple and available online.

[www.epa.gov/epawaste/partnerships/wastewise/join.htm](http://www.epa.gov/epawaste/partnerships/wastewise/join.htm)

*Additional Questions on WasteWise*

[www.epa.gov/wastewise](http://www.epa.gov/wastewise)

Helpline at (800) EPA-WISE

# ENERGY STAR is...

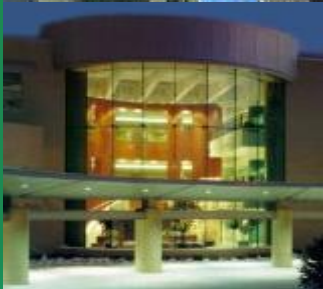


A voluntary partnership  
with EPA

**A strategic approach to  
energy management**

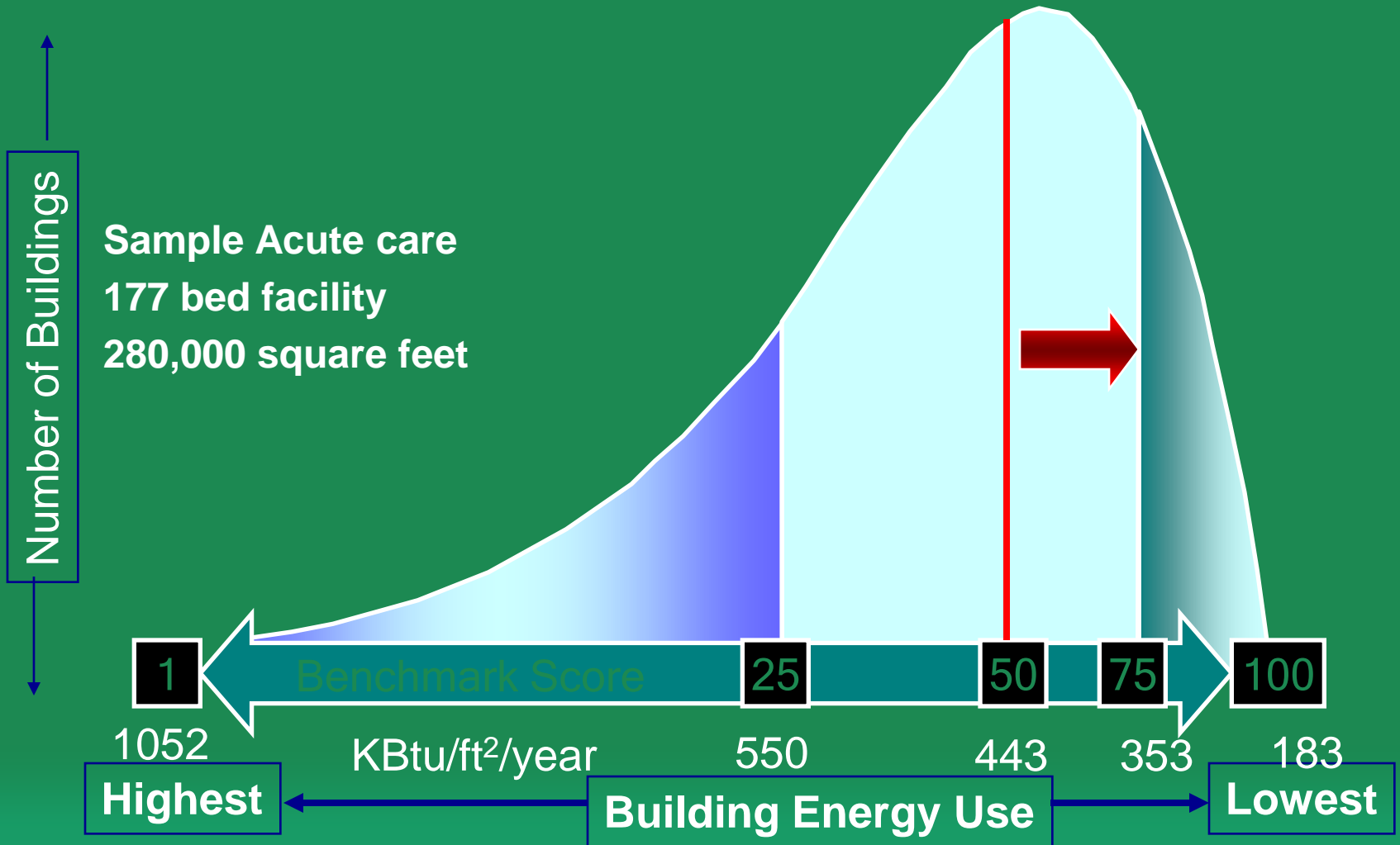


# Benchmarking is Key to a Successful Energy Program



- Heighten awareness of energy use
- Identify billing errors
- Assess effectiveness of current operations, policies, practices
- Document environmental stewardship and demonstrate success
- More responsive management through more informed decision-making

# U.S. EPA Energy Performance Rating System



# Building Recognition



**Top 25% of energy-efficient buildings nationwide.**

**Use 35% less carbon dioxide and 35% less energy than their peers, on average**



# New England Healthcare Facilities are Using Energy Star

- So far, 161 New England hospital accounts have benchmarked energy performance using Portfolio Manager (CT-45, ME-20, MA-71, NH-14, RI-7, VT-4)

**Benchmarking is the first step toward improving energy performance**

- Four New England hospitals have earned ENERGY STAR Labels:
  - St. Francis, CT
  - VA West Haven, CT (*Labeled in 2007, 2006 and 2002*)
  - VA Jamaica Plain, MA (*Labeled in 2003*)
  - St. Mary's Regional Medical Center, ME (*Labeled in 2009*)



# Energy Star Portfolio Manager Reports

- New reporting feature
- You can extract & display information about your facilities & energy performance
- Prioritizes activities and investments, establishing more robust benchmarks, reporting to other groups, and conducting comparative analysis.
- Select from eight report templates and customize reports
- Report can be viewed as a data table or graph.
- Results can be exported in PDF, Excel, XML and CSV.
- Accessed from the *My Portfolio* page click on Generate a Report link.
- Portfolio Manager Reports Quick Reference Guide at [www.energystar.gov/istar/pmpam/external\\_reporting/lib/docs/PM\\_Reports\\_QRG.pdf](http://www.energystar.gov/istar/pmpam/external_reporting/lib/docs/PM_Reports_QRG.pdf)



# Energy Star Resources

- Energy Star Healthcare page  
[www.energystar.gov/healthcare](http://www.energystar.gov/healthcare)
- Benchmark Portfolio at  
[www.energystar.gov/benchmark](http://www.energystar.gov/benchmark)
- ENERGY STAR's Healthcare Energy Savings Financial Analysis Calculators, Pilot Version 1.0  
[www.energystar.gov/index.cfm?c=healthcare.bus\\_healthcare\\_energysavings\\_calc](http://www.energystar.gov/index.cfm?c=healthcare.bus_healthcare_energysavings_calc)
- Assess your energy management program at  
[www.energystar.gov/index.cfm?c=guidelines.guidelines\\_index](http://www.energystar.gov/index.cfm?c=guidelines.guidelines_index)





# Next Steps

- **Take Benchmark Training**

[http://www.energystar.gov/index.cfm?c=healthcare.bus\\_healthcare\\_workshops](http://www.energystar.gov/index.cfm?c=healthcare.bus_healthcare_workshops)

- **Consider Applying for Energy Star Label**

[www.energystar.gov/index.cfm?c=evaluate\\_performance.bus\\_portfoliomanager\\_intro](http://www.energystar.gov/index.cfm?c=evaluate_performance.bus_portfoliomanager_intro)

- **Join ENERGY STAR**

[www.energystar.gov/join](http://www.energystar.gov/join)



# Questions ?

Want to join EPA Region 1's hospital email group for regular updates on environmental issues?

Janet Bowen, EPA Region 1

617-918-1795

[Bowen.Janet@epa.gov](mailto:Bowen.Janet@epa.gov)

[www.epa.gov/region1/healthcare](http://www.epa.gov/region1/healthcare)

