

Global Warming... Is a Waste



Preserving Resources,
Preventing Waste

The Greenhouse Effect



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

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

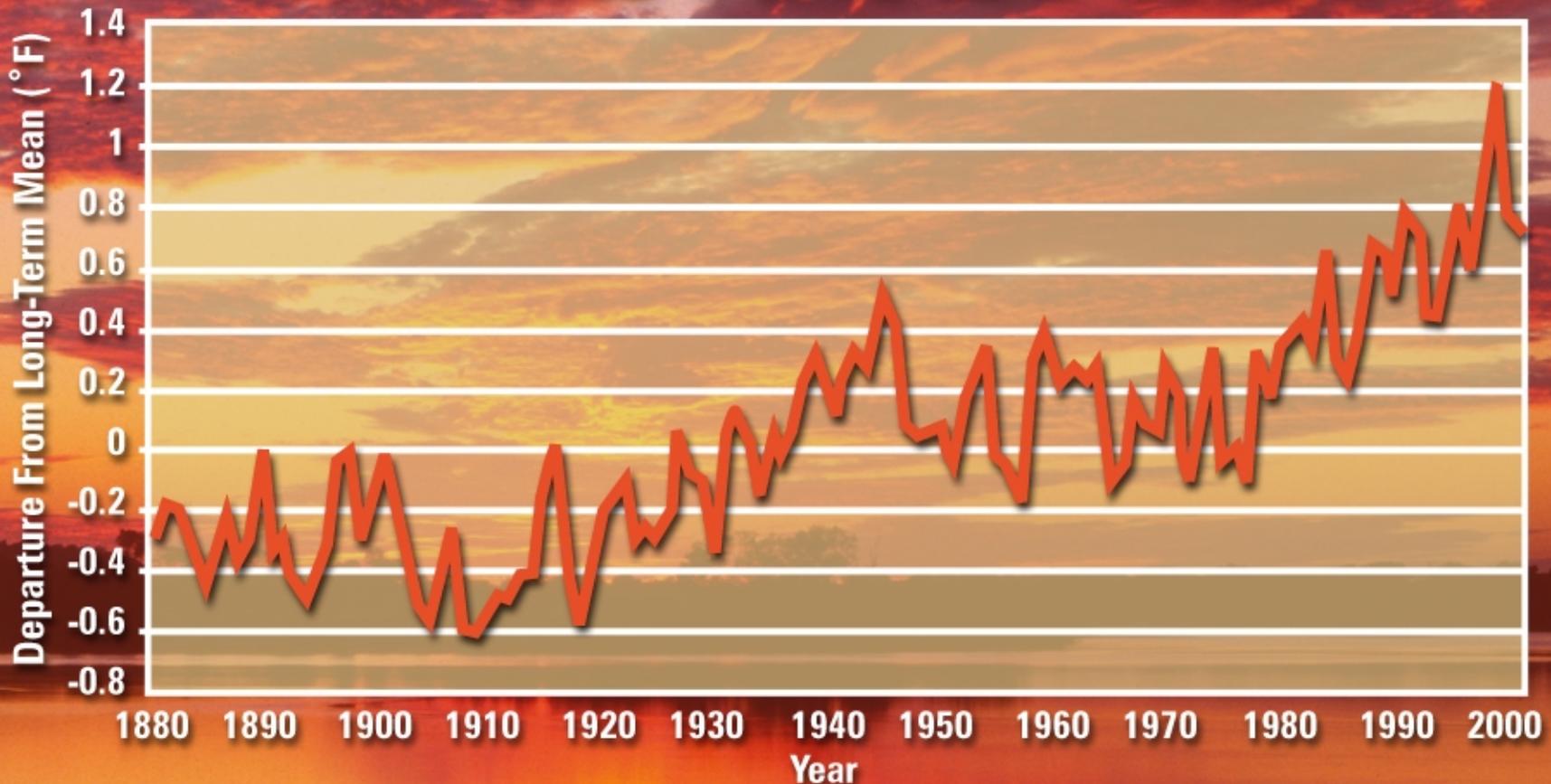
Solar radiation passes through the clear atmosphere.

Most radiation is absorbed by the earth's surface and warms it.

Infrared radiation is emitted from the earth's surface.



Global Temperature Increase Over the Past 120 Years



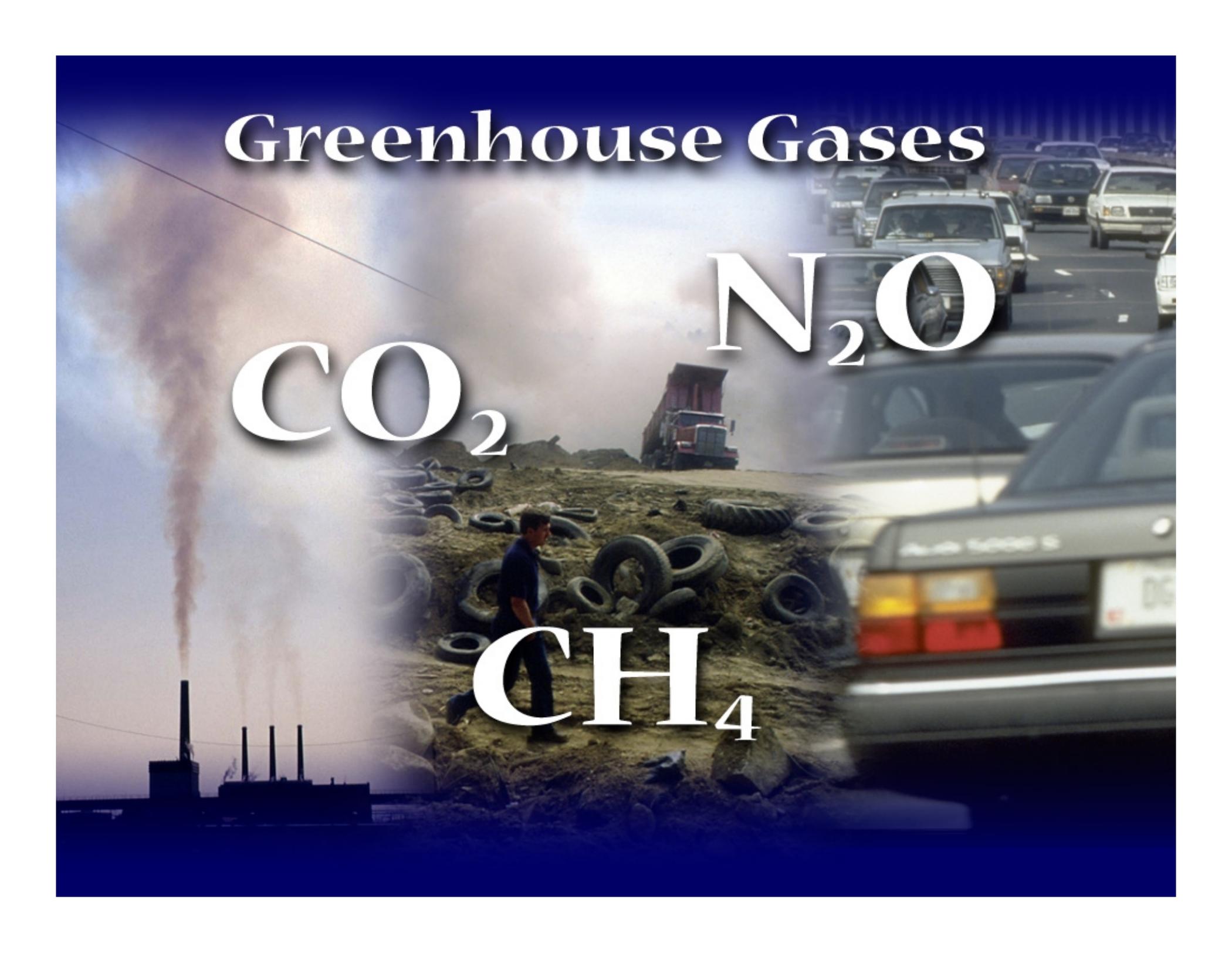
Source: U.S. National Climatic Data Center, 2001

www.epa.gov/globalwarming

Impacts of Global Climate Change



Greenhouse Gases



CO_2

N_2O

CH_4

MSW Life Cycle—Linear

**Virgin
Materials**

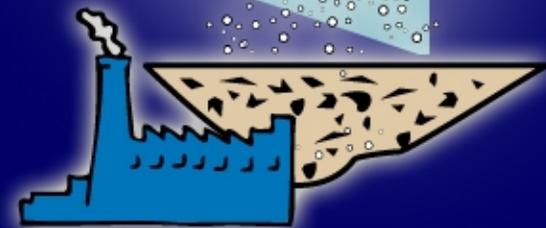


**Manufacturing
& Processing**

Products

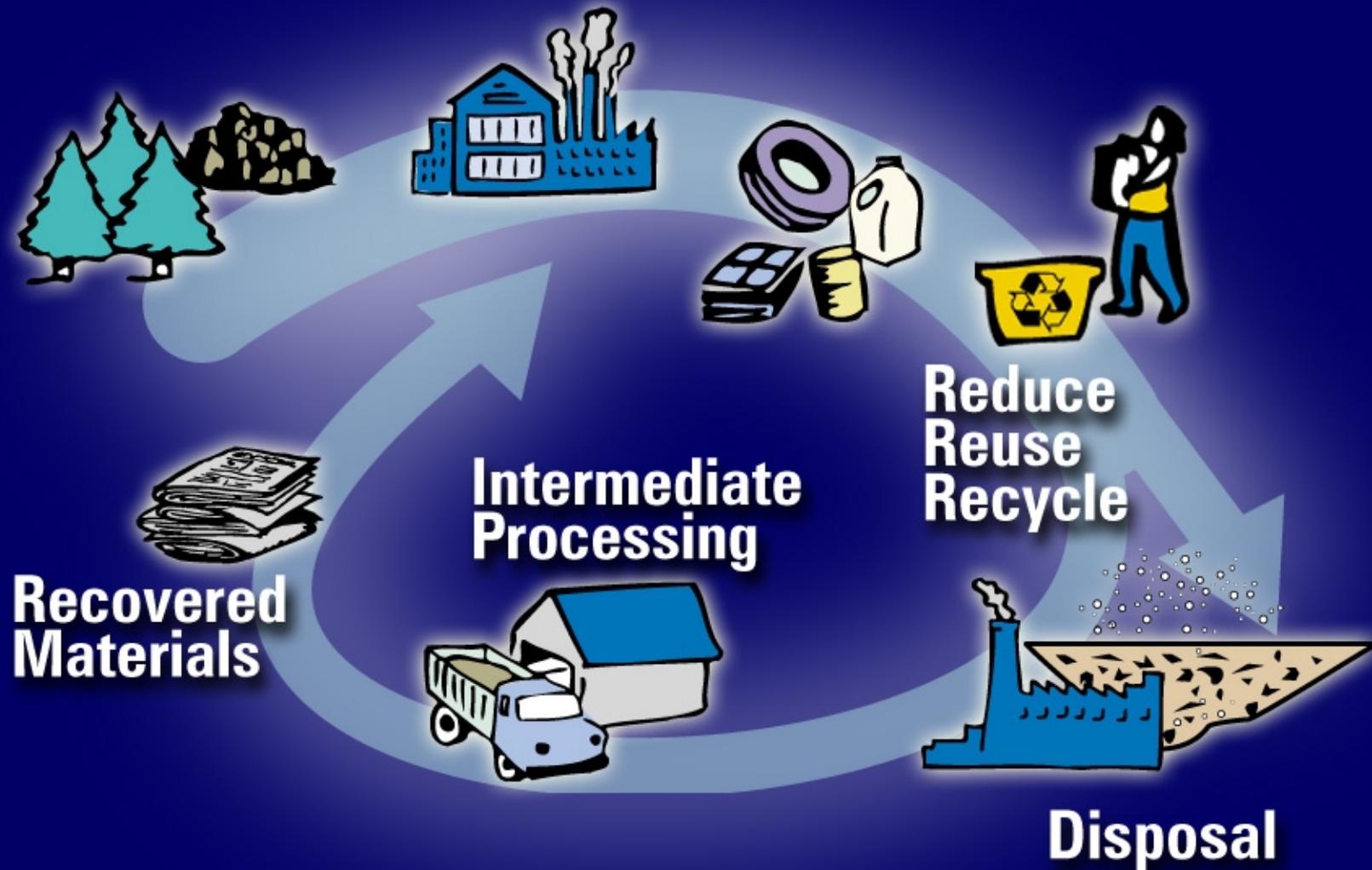


**Consumer
Purchasing**



Disposal

MSW Life Cycle—Cyclical



Waste Reduction Reduces Greenhouse Gases

**Virgin
Materials**



**Manufacturing
& Processing**

Products

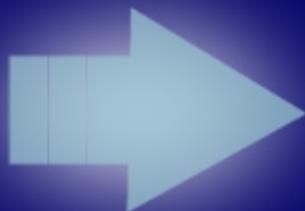


Reduce Climate Change with WasteWise



You Make a Difference

Action

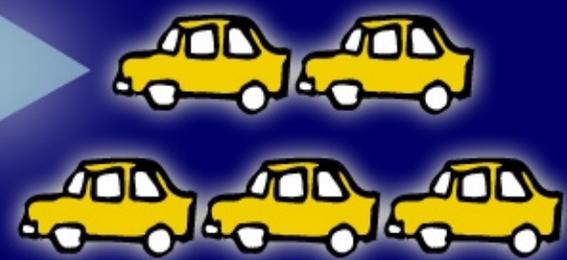


Payoff



**Recycling
100 Tons of Paper**

**Reduction
of
67.8 MTCE**



**Equivalent to Removing
52 Cars From the Road
for One Year**

Waste Reduction Model (WARM)

The screenshot shows a Microsoft Internet Explorer browser window displaying the EPA Global Warming Site. The address bar shows the URL: <http://www.epa.gov/globalwarming/actions/waste/warm.htm>. The page features the EPA logo and navigation tabs for climate, emissions, impacts, and actions. The main content area is titled "Waste Reduction Model (WARM)" and includes a sub-section "CC & WASTE - PUBLICATIONS & TOOLS". Below this, there are three buttons: "What is the Link?", "Publications & Tools", and "Climate Projects". A list of links is provided, including "WARM (Microsoft Excel version)", "Online WARM", and "Users Guide for WARM". The text explains that WARM is a tool for tracking and reporting greenhouse gas emissions reductions from waste management practices. It is available as a web-based calculator or a Microsoft Excel spreadsheet. The page also mentions that WARM calculates GHG emissions in metric tons of carbon equivalent (MTCE), metric tons of carbon dioxide equivalent (MTCO₂E), and energy units (million BTU) across various material types. Users can calculate emissions by filling out the online WARM worksheet or using the Microsoft Excel spreadsheet application. The WARM User's Guide is also available to help users get up and running with the software.

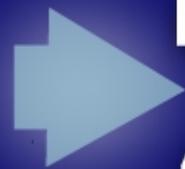
www.epa.gov/globalwarming/actions/waste/warm.html



Partners in Action: The Seydel Companies



**Reducing
813 Tons of
HDPE Plastic**



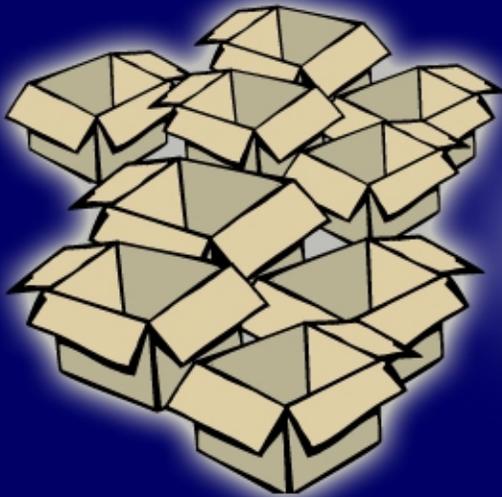
**Reduction
of
400 MTCE**



**Equivalent to Removing
305 Cars From the Road
for One Year**



Partners in Action: Clifton, New Jersey



**Recycling
20,350 Tons
of Corrugated
Cardboard**

**Reduction
of
14,449 MTCE**



**Equivalent to Removing
10,000 Cars From the
Road for One Year**

Resources



Preserving Resources,
Preventing Waste

- Help Line and Account Representatives
- WW Climate Campaign
- Climate Publications: Update, Satellite Forum, etc.
- Technical Assistance

Climate Change Awards



The WasteWise Climate Change Award recognizes partners' outstanding efforts that result in the reduction of greenhouse gas emissions, as well as education and outreach on climate change.

Climate Resources



- **EPA Climate and Waste Web site:** www.epa.gov/globalwarming/actions/waste
- **EPA Landfill Methane Outreach Program (LMOP):** www.epa.gov/lmop
- **EPA Climate Leaders:** www.epa.gov/climateleaders
- **Other Organizations**
 - **Climate Neutral Network:** www.climateneutral.com
 - **World Resources Institute:** www.wri.org
 - **Pew Center on Global Climate Change:** www.pewclimate.org
 - **ICLEI Cities for Climate Protection:** www.iclei.org/co2