



PPPL 7th Annual America Recycles Day Event



PPPL's Municipal Solid Waste
Recycling Rate In FY 2004
was 50.77% !!!

Meeting the FY 2010 DOE Goal
of Executive Order 13148.



Recycling 101

◆ The Basics:

- It is a common household activity (curbside recycling)

◆ USA recycling and composting rate;

- 1960 – 7.7%
- 1990 – 17%
- 2004 – 30%

NJ 2002 data
34% MSW
54% Total

With every ton of paper you recycle you save:

17 trees



79 gallons of oil



7000 gallons of water



Additionally 41,000 kilowatts of energy, 60 gallons of air pollution, and 3 cubic yards of landfill space!



Recycling 101



- ◆ Is Recycling Worthwhile:
 - Less waste to the landfill.
 - Less energy is used to remanufacture recyclable items.
 - Reduces the need to extract raw materials from the environment, thus preserving our natural resources.
 - Puts money back into PPPL's pocket.



Recycling 101

◆ How Does It Work:

■ Collection

- Curb side collection
- Sorting trash in offices, that are collected and placed in separate dumpsters for disposal and recycling.

■ Manufacturing

- Using recycled materials instead of raw materials.
- Remanufacturing consumer products.

■ Buying – “Close The Loop”

- Purchasing products with recycled content.

With every ton of paper you recycle you save:

17 trees



79 gallons
of oil



7000 gallons
of water



Additionally 41,000 kilowatts of energy, 60 gallons of air pollution,
and 3 cubic yards of landfill space!



Recycling 101

- ◆ Interesting End Products:
 - Glass beverage containers can be recycled over and over again. But they can also be used for other things you may not expect. Like roads, marbles, decorative tiles, surfboards and a host of other products and materials.



Recycling 101

◆ Interesting End Products:

- In 2001, the recycling of polyethylene terephthalate (PET) soda bottles rate was 22%.
- These bottles are turned into everything from rugs to goggles, park benches and fences to fiber for filling ski jackets.



Recycling 101

- ◆ Interesting End Products:
 - Steel and aluminum cans can be easily recycled for use in other steel and aluminum products. This not only conserves mineral resources, but the recycling process also uses about 75% less energy than using virgin materials. Recycled steel and aluminum finds its way into new cars, bikes, appliances, cookware, and a whole lot more.



Get Involved

- ◆ Make The Effort To Make A Difference:
 - ARD 2004 Slogan
 - “It All Comes Back To You.”
 - ◆ Accept The Challenge
 - ◆ Every Can/Sheet of Paper Makes A Difference
 - ◆ Recycle all that you can at work and at home
 - ◆ Get involved in recycling programs at work and at home.
 - ◆ Buy recycle content products.



Get Involved



- What's Going On Nation Wide – According to the EPA Facts & Figures;
- Recycling, including composting, diverted 68 million tons of material away from landfills and incinerators in 2001, up from 34 million tons in 1990.
- Curbside programs, along with drop-off and buy-back centers, resulted in a diversion of about 30 percent of the nation's solid waste in 2001.
- ◆ <http://www.epa.gov/epaoswer/non-hw/muncpl/reduce.htm>



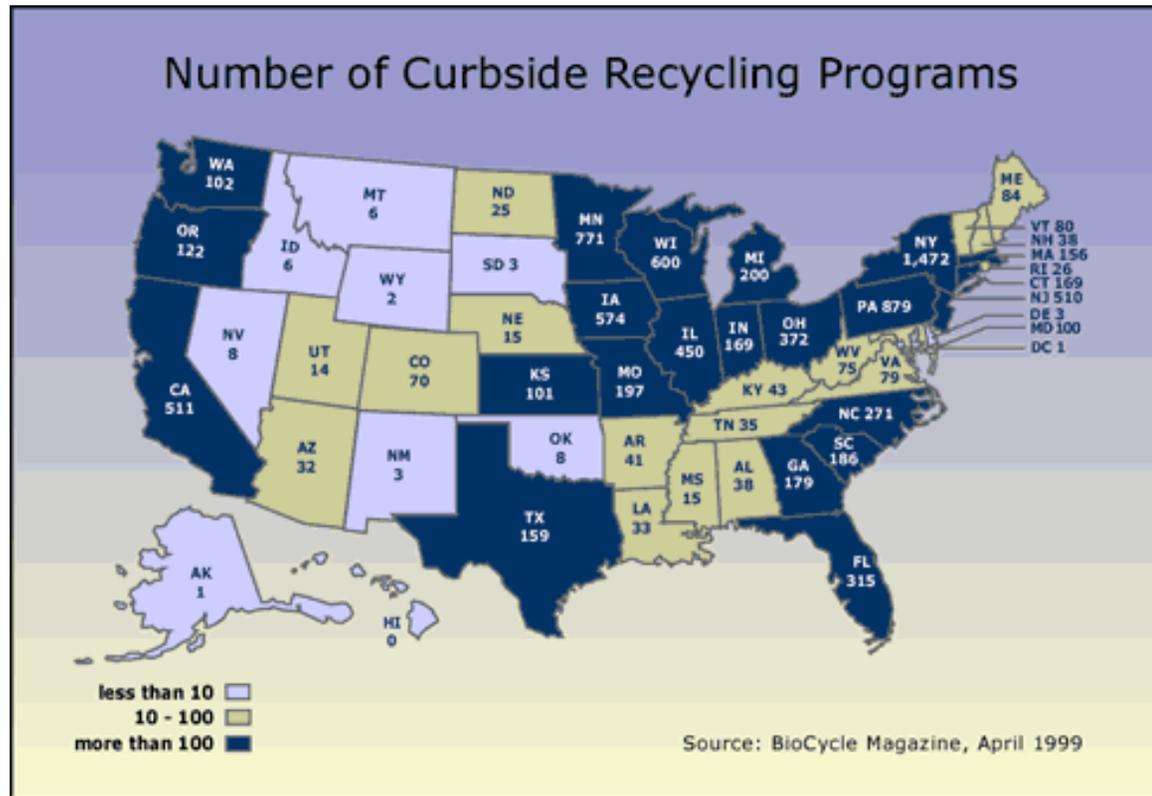
Get Involved

- What's Going On Nation Wide– According to the EPA Facts & Figures;
 - While recycling has grown in general, recycling of specific materials has grown even more drastically: 42 percent of all paper, 40 percent of all plastic soft drink bottles, 55 percent of all aluminum beer and soft drink cans, 57 percent of all steel packaging, and 52 percent of all major appliances are now recycled.



Get Involved

- What's Going On Nation Wide

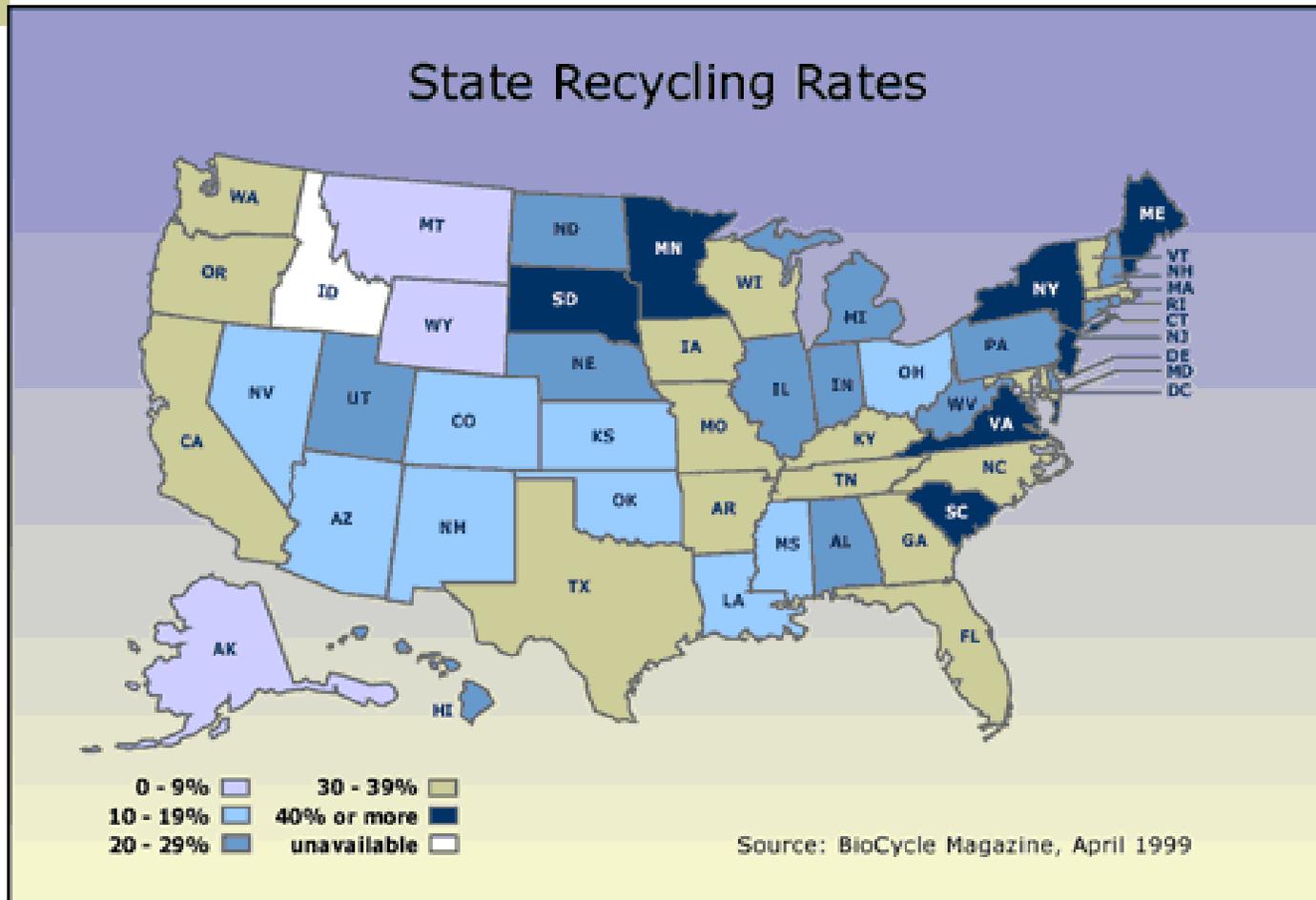


● Note:

Blue States have over 100 curb side recycling programs.
Green States between 10 to 100 curb side programs.
Lavender States has less than 10 curb side programs.



What's Going On Nation Wide

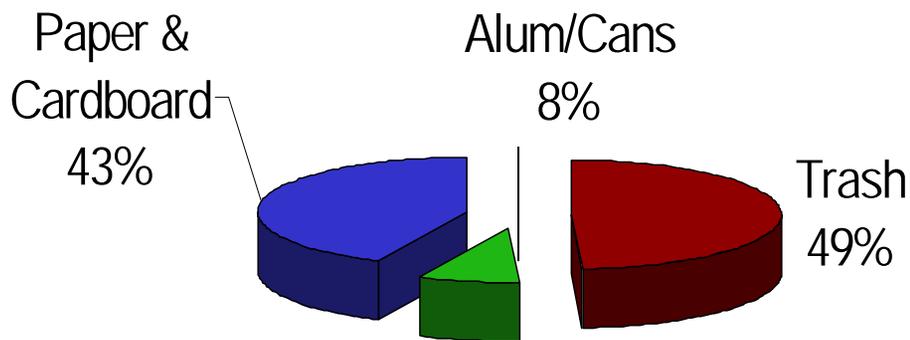




MSW At PPPL



Office Trash/Recycle
FY04



**FY04
MSW Recycling
Rate Is
51%, up 4%
From FY03**

Trash – 61.568 Tons
**Paper &
Cardboard – 53.75
Tons**
**Alum/Cans – 9.67
Tons**

What's Happening At PPPL

Construction Debris Disposal Report



Trash – 115.94 Tons

Wood – 31.48 Tons

Concrete – 109.68 Tons

**FY04, 55% of
the construction
waste stream
was recycled.
Up 45% this year
due to the Cooling
Tower demolition
project.**

FY04 Café Dumpster Dive Report

- ◆ Trash Only Bins
 - 45.7 pounds of trash
 - 1 pound of comingle
- ◆ Paper Bin
 - 4.6 pounds of paper
 - .2 pounds of trash
- ◆ Comingle Bin
 - 69 pounds comingle
 - .7 pounds trash



PPPL FY04 Avoided Cost

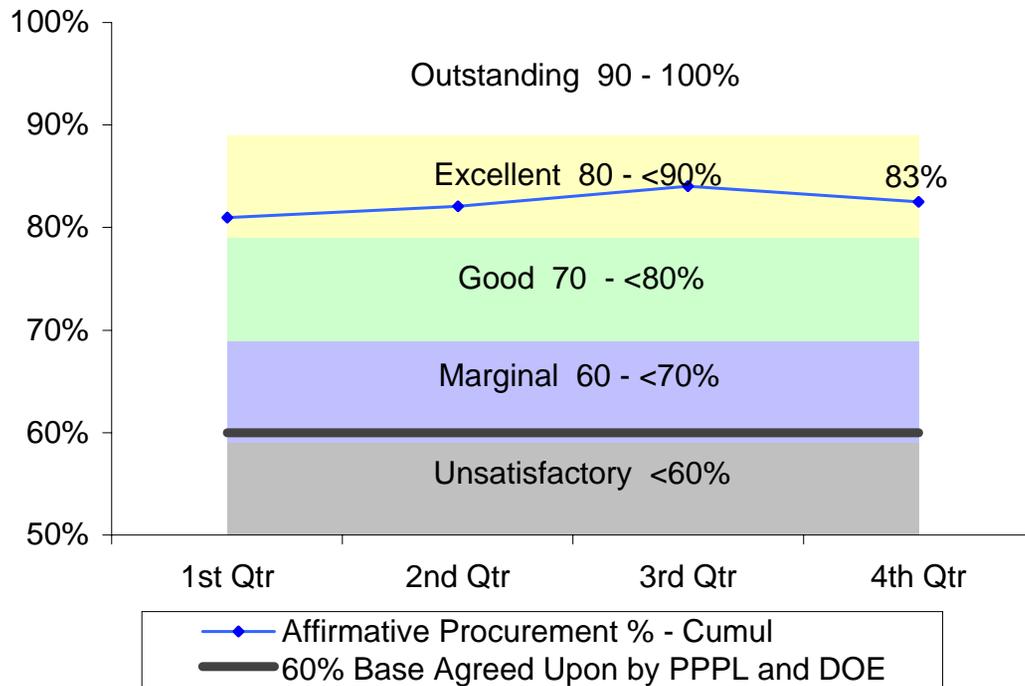


- ◆ Cost Avoided By Recycling Office Waste Was:
 - \$18,240.
- ◆ Cost Avoided By Recycling Construction Waste Was:
 - \$876



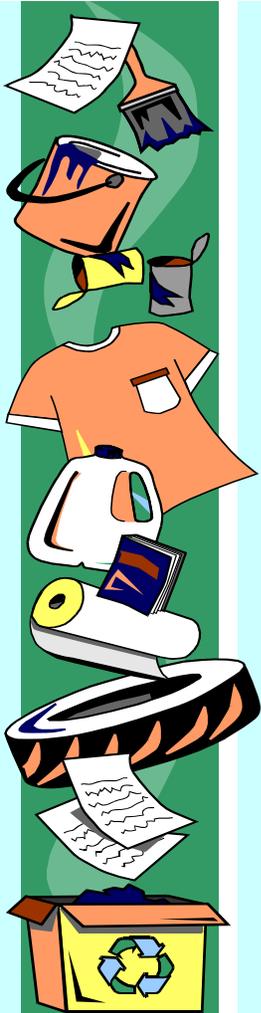
FY04 Environmentally Preferred Products/BUY Recycled

FY04 Procurement of Environmentally Preferred Products (D-1.4)



FY04 Final data:
PPPL has a
BUY Recycled
rate of 83%.
2 % higher than
FY03. A rating of
Excellent - But, we
can do better!

Environmentally Preferred Products/BUY Recycled



- ◆ In FY00:
PPPL EPP goal was 100%
achieving: 91%.
- ◆ In FY01:
PPPL EPP goal was 100%
achieving: 85%
- ◆ In FY02:
PPPL EPP goal was 100%
achieving 85%
- ◆ In FY03:
PPPL EPP goal was 100%:
achieving 81%

For FY04
PPPL

Achieved
83%

EPP Rate

Environmentally Preferred Products/BUY Recycled

- ◆ What office products can you BUY at PPPL to help PPPL's Buy Recycled Rate go over **90%**
AGAIN!!!
 1. Binders with Recycled Content
 2. File Folders, Report Covers [Bristols]
 3. Remanufactured Laser Toner Jet Cartridges
 4. Miscellaneous paper products
 5. Construction Products



What We Are Doing Well



- ◆ Duplex Copies
- ◆ Email Correspondence
- ◆ Posters and Signage
- ◆ Celebrating ARD and Earth Day
- ◆ Weighing of Trash/Recycling Collected
- ◆ Communicating Progress With Staff
- ◆ Green Machine Awards

What We Need To Do

- ◆ Please email Margaret & Tom with any suggestions for:
 - How we can reduce the amount of MSW and C&D generated
 - How we can increase the amount of MSW and C&D recycled
- ◆ Our goal is 55% in FY05

Outstanding Recyclers

FY04 Green Machine

Awards Presented To

For special contributions

in making every day

America Recycles Day



2004



- ◆ Calvin Armstrong
- ◆ Kareem Armstrong
- ◆ Henry Carnevale
 - ◆ Jill Foley
 - ◆ Steve Green
- ◆ Jo Lumberger
 - ◆ James Mah
- ◆ Tony Morgado
 - ◆ Don Perez
 - ◆ Mike Widdis