

# BUREAU OF INDIAN EDUCATION

## Pollution Prevention Workshop Albuquerque, September 21, 2010

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# P2 Workshop

## A G E N D A

Introductions & P2 Activities

CC – Intro to P2

Break

MV – P2 for Schools

Q & A

Adjourn

# New Mexico Environment Department Pollution Prevention Program

- Voluntary Program designed to assist businesses with their waste streams
- Provide workshops/trainings for organizations, businesses, hospitals, schools, etc.
- On-site waste assessments and technical support for pollution prevention and waste reduction
- Manage Green Zia Environmental Leadership Program
- **SERVICES ARE FREE!!!!**



# New Mexico State University Institute for Energy & Environment



- Waste Assessments
- On-Site Technical Assistance
- Trainings/Workshops
- Feedback Reports

# What is Pollution Prevention (P2) ?

- P2 targets the processes or practices that generate waste and aims to reduce or eliminate waste at the source
- Also called “Waste Reduction/Waste Minimization”
- All waste is pollution
  - Liquid waste
  - Solid waste
  - Hazardous waste
  - Energy/Water waste

# Various Waste Streams

- Paper
- Glass
- Metal
- Plastic
- Electronics
- Organic
- Construction/Demolition
- Hazardous
- Special/Universal
- Mixed Residue



# Refuse, Reduce, Reuse, Recycle

- Refuse to buy new when current one is still usable
- Reduce amount and toxicity of discarded trash
- Reuse containers and products, repair what is broken
- Recycle as much as possible; also buy products with recycled content

# Free Services



- Waste assessments
- Technical assistance
- Training and workshops for pollution prevention
- Identify **O**pportunities **F**or **I**mprovement
- Process evaluation
- Resources and **BMPs** for your business sector
- Regional and National resources

# Successes in Indian Country

- Local hospital reprocessed (instead of disposing of) over 9,000 lbs of instruments/equipment, saving \$322,000 per year
- Pueblo of Taos has initiated Environmental Management System (EMS) development & implementation



# Successes in Indian Country

- In 2010, the Pueblo has diverted about 3500 pounds of school food-scrap waste from a landfill into a community composting project
- Pueblo's EMS calls for increased food scrap composting from offices and senior center



# P2 for Schools

- Organize a Team
- Identify your Waste
- Evaluate Your Options
- Kick-Off Your Campaign
- Implement the Program
- Track & Measure Progress
- Share Results & Promote Success
- Assess Results & Re-Evaluate Program

# Organize a Team

- Representatives from:
  - Administration
  - Faculty
  - Facilities Management/Custodian
  - Students/Parents
  
- Assign a TEAM LEADER

# Identify Your Waste

- Waste Assessment/Facility Walk-Through
- View purchasing invoices, sales logs, waste hauling and utility bills
- Speak with Faculty and Facility Management staff
  - Ceramic Class
  - Photography Class
  - Custodians
  - Kitchen staff
- Track waste streams on inventory sheet

# Hazardous Waste



# Chemical Cleanout



# Mercury



# Chemical Management



# Evaluate Your Options

- Identify Materials to Reduce
- Determine Flexibility with Purchasing materials
- Consider options for Collecting and Storing waste and recycling
- Identify collection sites
- Identify staff to assist in transporting materials
- **Set Waste Prevention Goals**

# Kick-Off your Campaign

- Flyers for teachers and students
- Announcements to parents and PTA
- Contact local media to announce efforts
- Choose motivators for students and teachers

Remember:

**Every Day is Earth Day!**

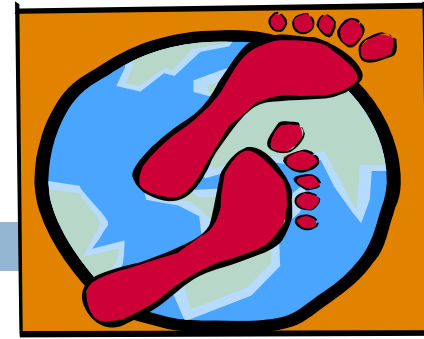
# Implement the Program

- Determine what waste streams can be reduced immediately
- Look for low-hanging fruit
- Determine Conservation Methods for energy/water
- Consider purchasing recycled products
- Determine where your “Biggest Bang” will be

# Monitor, Track and Measure Progress

- Design a tracking sheet
- Consider all Waste Streams and Outputs
- Track over full year
- Include Reduction Goals
- Note steps to make the reductions (All Ideas Considered)
- Track should include
  - Disposal Costs
  - Where waste is being generated
  - Reduction Goals
  - Who is responsible

# Track, Track, Track



Waste	Generator	Disposal Method	Disposal Cost	Alternative Disposal	Reduction Goal	Responsible Person
Paper	Admin	Landfill		Recycle	10%	Mary in Front Office
Organic	Cafeteria	Landfill		Compost	50%	Lucy in Kitchen
Energy	School	Landfill		Recycle	100%	Paul in Maint.

# Share Re\$ults and Promote \$uccess

- Newsletters
- PTA Meetings
- Local Media
- Parent Announcements
- School Posters
- Encourage others to participate



# Assess Results and Re-Evaluate

- What was successful?
- What didn't work?
- Do incentives help motivate?
- Were the goals too high?
- Ask for feedback from students and faculty
- Schedule meetings to continuously re-evaluate

# Thank You

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