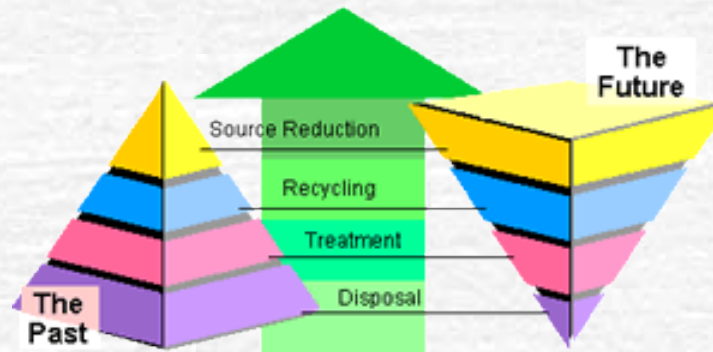


Regional P2 Results

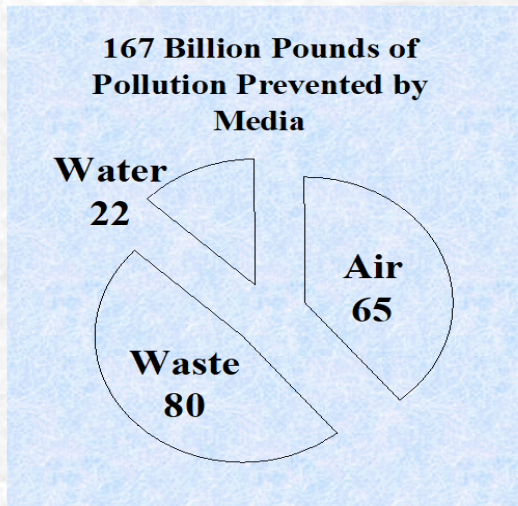
*GLRPPR/Region 7 Meeting -
Indianapolis June 4, 2009*



P2 Results



“An Ounce of Pollution Prevention is Worth Over 167 Billion Pounds of Cure”
A Decade of Pollution Prevention Results, 1990 - 2000



Resources Conserved

- 215 million kWh of energy
- 4.1 billion gallons of water
- \$666 million in cost savings

Source: National Pollution Prevention Roundtable, January 2003 report on achievement of state and local P2 programs



Resources for Results

- ☛ Collaboration through Regional Roundtables
- ☛ Tools
- ☛ Grants



P2 Project Funding in Region 5

- P2 Grants for State and Tribal Assistance
 - * \$477,000 available in 2009
 - * 6 grants

- Source Reduction Assistance (SRA) Grants
 - * \$130,000 available in 2009
 - * 3 to 5 grants



Grant Results Measures

- ☛ Move from achieving activity OUTPUT measures to environmental OUTCOMES
- ☛ Examples of outcome measures expected to be achieved :
 - ☛ Pounds of hazardous materials reduced,
 - ☛ BTUs of energy conserved,
 - ☛ Gallons of water saved, and
 - ☛ Dollars saved through P2 efforts.



Green Suppliers Network (GSN) Michigan

- Office Furniture Manufacturers GSN
- Michigan Dept. of Environmental Quality (DEQ) funded with FY 2004 SRA Grant and 2006 P2 Grant
- Brought together DEQ, MEP in Grand Rapids, and Steelcase Inc. in a Sector-Based GSN project



Metalworks - Ludington, MI

Manufacturer of metal filing cabinets

- ✓ Reduced water use by 16 million gallons from new parts washing practices
 - saving \$30,000 annually
- ✓ Reduced chemical use in parts washing by 20%
 - Saving \$20,000
- ✓ Saved \$50,000 in natural gas costs from redesigning curing ovens
- ✓ Saved \$50,000 in natural gas costs due to improved controls on air make up



Purdue U. 2008 P2 Grant

Follow-up survey of 13 of the 22 facilities revealed the following results from the partial or full implementation of CMTI's audit recommendations:

Measures	Baseline (projected)	Follow-up Survey
(1) VOCs (tons)	0.42	0.38
(2) Greenhouse gas (tons)	12,955	3,326
(3) MMBtus	36,309	25,045
(4) kWh	11,626,967	3,633,324
(5) Annual Savings	\$1,931,953	\$ 638,874



IDEM Linking P2 and EMS to Lean Manufacturing

Chrome plating facility: 975,000 gallons of water/wastewater, 1,800 kWh and 1.275 metric tons CO₂.

Cabinet manufacturing facility: 280,000 kWh, 2.96 tons HAPs, 2.96 tons VOCs, and 99.5 metric tons CO₂



MnTAP Reducing Waste from Manufacturing Medical Devices

- ☛ Reduce packaging waste and research alternative sterilization methods
- ☛ \$47,040
- ☛ 3,679 lbs solid waste
- ☛ 125 lbs air emissions



Techsolve – S.W. Ohio P2 Intern Project

- ✔ Train and place interns with companies
- ✔ 739,000 gallons of water conserved
- ✔ \$318,000 cost reduced
- ✔ 13,200 lbs. of hazardous materials reduced
- ✔ 364,000 lbs of other waste reduced



Summary/Conclusions

- ✓ Outputs and Outcomes
- ✓ Region 5's role has been providing grants, tools and improving communication
- ✓ Grantee progress reports help achieve Region's Annual Commitment System (ACS) measures

