

The New DEFA and Encouraging Environmental Excellence

Bill Narotski

DEFA - Pollution Prevention

“Northeast Ohio WEA Seminar”

February 18, 2016



Presentation Outline

- What/Who is DEFA?
- What is OCAPP?
- P2 can help you become more sustainable
- Encouraging Environmental Excellence
- P2/Sustainability success stories

DEFA is three offices

- Office of Outreach & Customer Support
 - “Front door” of the division
 - Focus on outreach, marketing and overall division support.
- Office of Financial Assistance
 - Administer and support grant programs
- Office of Compliance Assistance and Pollution Prevention
 - CA, P2, Sustainable Materials

Office of Financial Assistance

- Administer state revolving loan fund programs
 - Water Pollution Control Loan Fund Water (WPCLF)
 - Water Supply Revolving Loan Account (WSRLA).
- Administer the WWTP compliance assistance program
- Administer the recycling/litter prevention grant program

Office of Compliance Assistance and Pollution Prevention (OCAPP)

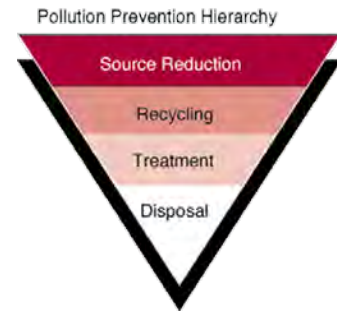
- Help small businesses comply with regulations and permitting and identify P2 opportunities through a variety of services, including:
 - toll-free hotline
 - on-site assistance
 - training, workshops & webinars
 - “plain-English” publications and articles

OCAPP

- Identifying pollution prevention opportunities to reduce waste generation, improve efficiency, and save money
- Recognizing outstanding efforts of entities making a commitment to environmental stewardship
- Engaging in sustainability partnerships
- Identifying new recyclable waste streams and developing sustainable markets for these materials
- OCAPP assistance services are confidential by Ohio law

Pollution Prevention

- Less waste in the first place – reducing waste at the source of generation
- Source reduction:
 - Product redesign or reformulation
 - Process modifications
 - Input substitution
 - Good housekeeping
- Recycling is secondary
 - After use management (also composting)



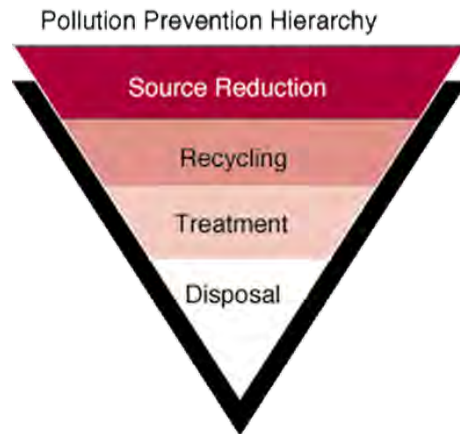
Where does P2 fit?

- Happens within the manufacturing process
- Material Substitution
- Product redesign
- Reuse of Materials
- Modify equipment/process
- Production scheduling/Inventory Control
- Policy Changes
- Preventative/equipment maintenance
- Procedural Changes/Housekeeping Practices
- Spill and leak prevention
- Energy efficiency
- Training
- Waste Stream Segregation



P2 Benefits:

- Reduce waste and pollution
- Get more resources into product
- Reduce regulatory requirements
- Save an organization money
- Foundation for sustainability



Get Recognized

- Encouraging Environmental Excellence Program



Encouraging Environmental Excellence Program

- Recognizes organizations committed to environmental excellence
- Opportunity for your organization or customers
- For those who reduce waste, improve efficiency and work to continuously improve as an environmental steward.
- Three levels: Achievement, Silver & Gold
 - epa.ohio.gov/ocapp/ohioe3.aspx



E3 – Achievement Criteria

Address how your organization has demonstrated stewardship:

- Reducing the impact to the environment;
- Implementing resource conservation; and
- Progress in 6 of the other environmental stewardship criteria.

E3 – Achievement Criteria

- Management commitment
- Employee involvement
- Continuous improvement
- Environmental management system
- Promotion and dissemination
- Innovation
- **Impact to the Environment**
- Life cycle analysis
- Pollution prevention
- Energy efficiency
- Renewable energy
- Environmentally Preferable Purchasing
- Green building
- Stormwater BMPs
- Recycling programs
- Organics diversion
- Economic benefits
- Environmental management accounting
- Voluntary initiatives
- Federal program participation
- Source water protection

E3 – Achievement Benefits

- A certificate of recognition signed by the Director
- A listing on the Ohio EPA website
- Program highlights included in Ohio EPA publications
- A decal with the E3 logo to display at the applicant's location

Silver and Gold Level

- Applications are on an annual cycle (aiming for May 2016)
- Silver and gold recognize exceptional environmental achievement
- Gold level participants provide annual updates
- Open to any business, organization or local government
- Environmental compliance is required

E3 – Achievement Criteria

- Management commitment
- Employee involvement
- Continuous improvement
- Environmental management system
- Promotion and dissemination
- Innovation
- Impact to the Environment
- Life cycle analysis
- Pollution prevention
- Energy efficiency
- Renewable energy
- Sustainable Materials
- Environmentally Preferable Purchasing
- Green building
- Stormwater BMPs
- Recycling programs
- Organics diversion
- Economic benefits
- Environmental management accounting

E3 – Silver & Gold Benefits

- An E3 flag
- Ohio EPA news release touting the organization's accomplishments
- Invitation to an awards ceremony and possibly a site visit by the Ohio EPA Director
- A case study to publicize the recipient's proactive approach to environmental stewardship

P2/Sustainability success stories

- TimkenSteel's Water Treatment Plant
 - Found alternative chemical to alum to treat process water
 - Reduced filter cake sent to the landfill by 35% (over 2 million pounds)
 - Reduced chemicals used in the clarification (treatment) process by 90%
 - Saved more 27,000 cubic feet of air space at landfill
 - Boiler and lighting improvements



P2/Sustainability success stories

- Washing Systems, LLC
 - Introducing new laundry detergents
 - Reduced use of NPE in detergent formulations from 94% of sales (2007) to zero (2013).
 - Replaced two petroleum-based components with non-hazardous, biodegradable biobased ingredients
 - Shortened wash cycles and reduced energy and water consumption by 15%



P2/Sustainability success stories

- Saint-Gobain Performance Plastics
 - Installed semi-closed loop water recycling system
 - Reduced water discharge by 98 percent (over 79 million gallons annual reduction)
 - Reduced purchase of city water by 75%
 - Saving \$20,000 annually
 - Energy efficiency improvements
 - Lighting, motion sensors, HVAC, insulation
 - 150 metric ton equivalent CO2 reduction



P2/Sustainability success stories

- Frito Lay, Inc. - Wooster
 - Green Team led resource conservation projects
 - Reduced electricity use by 6.6% (\$46,000 savings)
 - Natural gas reduction of 24% (\$468,000 savings)
 - Water use reduction of 39% (\$343,000 savings)
 - Zero Landfill policy
 - Has reduced solid waste to landfill by 79% since 2005



Are there any questions?

Thank You!

- Bill Narotski
 - Ohio EPA-OCAPP
 - 614-728-1264
 - William.narotski@epa.ohio.gov

