



How Can P2 Help You:

An Overview of Ohio EPA's Pollution Prevention Services

Pollution Prevention (P2)

P2 means reducing or eliminating pollutants from entering any waste stream or otherwise released into the environment prior to recycling, treatment, or disposal.



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Pollution Prevention (P2)



- Preferred waste reduction option
- Fewer impacts to human health and environment
- Cost effective
- Relevant to most industries



P2 Examples



Increasing energy efficiency



Reducing water use



Using less toxic cleaners, degreasers, etc.



Reducing process waste



Reusing items instead of disposing of them



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Pollution Prevention Services



On-Site Assessments:

- Free, non-regulatory site visits
- Identify improvements for energy efficiency, waste reduction, water use reduction, recycling opportunities, and more
- No obligation to implement solutions
- Extensive written report of findings
- Continued support from OEPA staff

Pollution Prevention Past Examples

- Facilities we have assisted:
 - Pharmaceutical manufacturer
 - Automotive manufacturer
 - Ice cream shop
 - Adult incontinence product manufacturer
 - Private university
 - Aerospace research facility
 - Potato chip manufacturer
 - Stainless steel clamp manufacturer
 - Blow-molded plastic manufacturer
 - Metal tool producer



Example Recommendations

- Waste assessments and improvements
 - Improved recycling
 - Adding composting or organics recycling
 - Finding a by-product synergy
 - Improved waste stations/signage
- Employee engagement
- Promotion and dissemination of efforts
- Renewable energy opportunities



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Continued...

- Energy Efficiency Improvements
 - Benchmarking
 - LED retrofit
 - Daylighting
 - HVAC controls and setbacks
 - Occupancy sensors
 - Compressed air leak detection and BMPs
 - Belt or machine maintenance BMPs
 - Fume hood BMPs
 - University of Dayton Industrial Assessment Center



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Continued...

- Renovation improvements
- Green building
- Stormwater management
- Native plantings
- Wildlife habitats
- Employee education



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EPA's P2 and Source Reduction Assistance Grant Get Results

Between 2011-2022, EPA's P2 Program issued 504 assistance grants for \$54.1 million, helping American businesses identify, develop and adopt P2 approaches that resulted in the following benefits calculated over a 4-year rolling period to account for recurring benefits.



52 Billion gallons



31.9 Billion KWh.



\$2.3 Billion



1 Billion lbs.



20.8 Million Mmt.

Water saved

Energy saved

Savings for Business

Hazardous Materials & Pollutants Reduced

Greenhouse Gases Eliminated

The P2 grant results listed above do not include the additional results that occur when other businesses use the P2 approaches created and implemented through the P2 grant programs.

US EPA's Pollution Prevention Grant



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US EPA's P2 Grant Program

- U.S. EPA Grant to provide technical assistance to businesses and encourage P2 practices
- Support National Emphasis Areas (NEAs)
 - Food and Beverage Manufacturing and Processing
 - Chemical Manufacturing, Processing and Formulation
 - Automotive Manufacturing and Maintenance
 - Aerospace Product and Parts Manufacturing and Maintenance
 - Metal Manufacturing and Fabrication



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US EPA's P2 Grant

- Ohio EPA's Plan
 - Partnered with past E3 award winners in 5 industrial NEA's
 - Provided P2 assistance
 - Partnered with Ohio BPS to share P2 partner success stories



Case Study: Frito - Lay

- Recommendation focuses
 - Facility energy reductions
 - Water efficiency
 - Cafeteria composting
 - Employee engagement



Case Study: Hikma Pharmaceuticals

- Recommendation focuses
 - Facility waste reduction
 - Facility energy reductions and efficiencies
 - Outdoor sustainability improvements
 - Integrating EHS programs with future ESG activities



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Case Study: Clampco Products, Inc.

- Recommendation focuses
 - Energy efficiency improvements
 - Water efficiency
 - Oil use reduction



Case Study: Ford LEP

- Recommendation focuses
 - Employee engagement
 - Restroom renovation efficiencies
 - Energy efficiency opportunities
 - Waste diversion and reduction
 - Natural plantings and bee apiaries



Case Study: NASA GRC

- Recommendation focuses
 - Employee engagement
 - Energy efficiency and sourcing
 - Waste diversion and reduction



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Pollution Prevention

Pollution Prevention (P2), also known as source reduction, is any practice that reduces, eliminates, or prevents pollution.



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<https://epa.ohio.gov/divisions-and-offices/environmental-innovation/oei-programs/pollution-prevention>

Contact me!

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