



# How Can P2 Help You:

An Overview of Ohio EPA's Pollution Prevention  
Services



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# 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



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# 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



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# 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**

**Water saved**



**31.9 Billion KWh.**

**Energy saved**



**\$2.3 Billion**

**Savings for Business**



**1 Billion lbs.**

**Hazardous Materials & Pollutants Reduced**



**20.8 Million Mmt.**

**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



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# Case Study: Frito - Lay

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



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# 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



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# Case Study: Ford LEP

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



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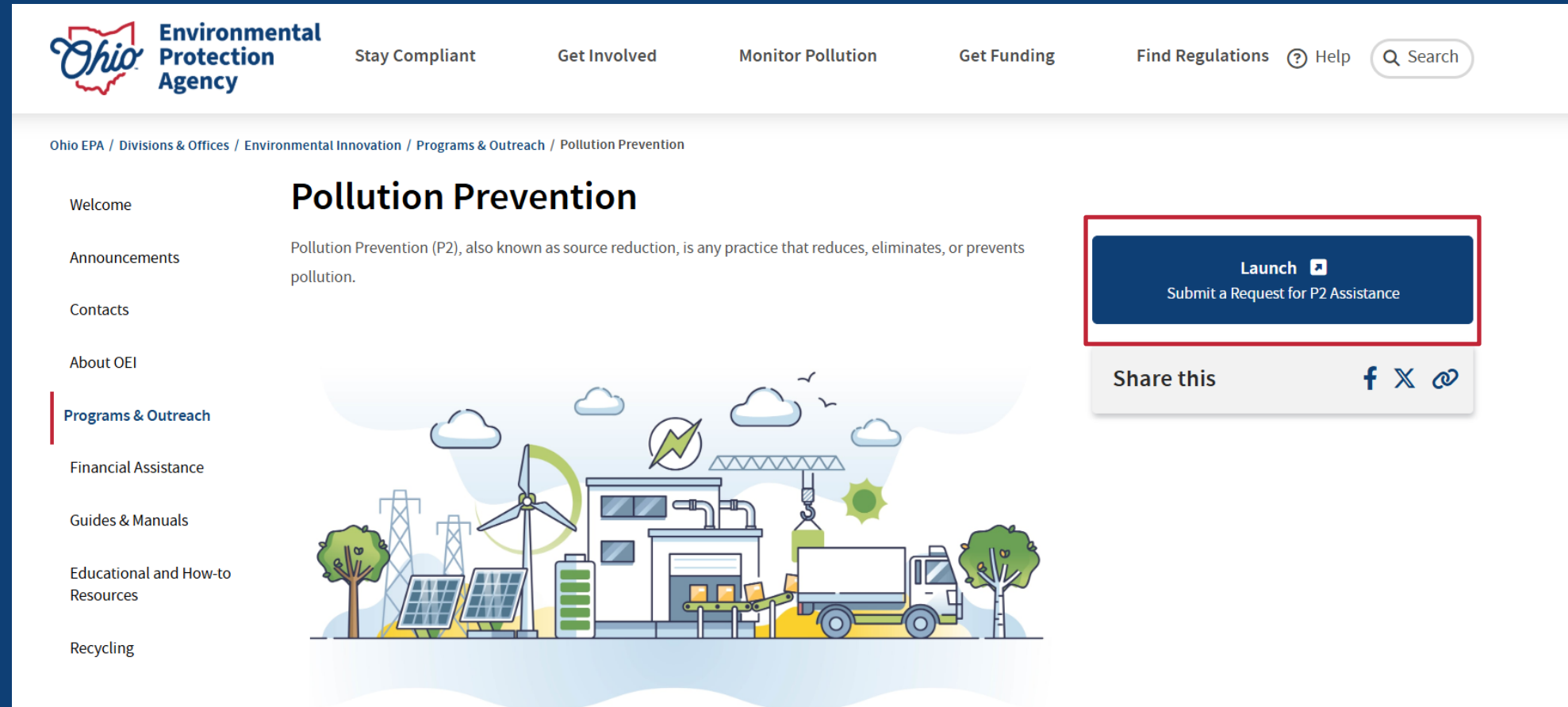
# Case Study: NASA GRC

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



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# Accessing Our P2 Services




The screenshot shows the Ohio EPA website's Pollution Prevention page. The header includes the Ohio EPA logo and navigation links: Stay Compliant, Get Involved, Monitor Pollution, Get Funding, Find Regulations, and Help. A search bar is also present. The breadcrumb trail reads: Ohio EPA / Divisions & Offices / Environmental Innovation / Programs & Outreach / Pollution Prevention. The main heading is 'Pollution Prevention', followed by a definition: 'Pollution Prevention (P2), also known as source reduction, is any practice that reduces, eliminates, or prevents pollution.' A large illustration depicts a sustainable industrial facility with solar panels, a wind turbine, a factory, and a delivery truck. On the right, a blue button with a red border is highlighted, containing the text 'Launch' with a play icon and 'Submit a Request for P2 Assistance'. Below this is a 'Share this' section with social media icons for Facebook, X, and Email. The left sidebar lists various links: Welcome, Announcements, Contacts, About OEI, Programs & Outreach (highlighted), Financial Assistance, Guides & Manuals, Educational and How-to Resources, and Recycling.




Ohio EPA / Divisions & Offices / Environmental Innovation / Programs & Outreach / Pollution Prevention

## Pollution Prevention

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

**Launch** 

Submit a Request for P2 Assistance

Share this   

Programs & Outreach

- Financial Assistance
- Guides & Manuals
- Educational and How-to Resources
- Recycling

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



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# Contact me!

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