



# POLLUTION PREVENTION SERVICES

Working together to achieve  
economic and environmental results

## Pollution Prevention Services

- Confidential
- Non-regulatory
- No cost



POLLUTION PREVENTION SERVICES

Pollution Prevention Services provides confidential, non-regulatory environmental technical assistance to our clients at no cost.

Confidential means we don't divulge information outside of our relationship with the company we're working with.

Non regulatory means that we don't provide write permits or provide compliance audits.

**And we do this with one thing in mind, to save our clients money.**

**Every dollar they save translates to environmental savings for all.**

## Client Base

- Business & Industry
- Institutions
- Government Agencies
- Toxic Release Inventory Reporters
- RCRA Large Quantity Generators
- Large Energy Users



POLLUTION PREVENTION SERVICES

Business and Industry

Institutions (e.g., hospitals, schools)

Government agencies

Toxic Release Inventory Reporters

Resource Conservation & Recovery Act (RCRA – hazardous waste) Large Quantity Generators

And

Large Energy Users – companies that use over \$1 million in energy annually

## Services Offered

Assistance focused on our client's needs

- **Opportunity Assessments**
  - Focused or walkthrough
  - Process
- **Energy**
  - Compressor Utilization
  - HVAC Efficiency
  - Lighting Effectiveness
- **Water**
  - Water use
  - Wastewater
- **Waste**
  - Hazardous waste
  - Solid waste
- **Pollution Prevention Intern Program**
- **EMS Assistance**
- **Workshops and Training**



POLLUTION PREVENTION SERVICES

We conduct 10 – 12 assessments per year

We conduct 20 – 30 follow-up assessments per year

60% of the projects we conduct are energy followed by water reduction

Intern Program lends staff helps companies imple

EMS – Environmental Management Systems

## Measurable Outcomes since 2001

**\$69 Million**

*in implemented savings:*

1.2 Million gallons	Water
202,406 tons	Solid Waste
1.5 Million gallons	Hazardous waste
42,817 grams	Mercury
327.7 Million	kWh
7.16 Million	Therms



POLLUTION PREVENTION SERVICES

The success of our intern program is the technical assistance provided by our engineers to the interns as well as the companies.

## GHG Reduced since 2001

<b>GREENHOUSE GASES</b>	<b>Standard tons</b>
CO <sub>2</sub>	69,439
CH <sub>4</sub>	22,155
N <sub>2</sub> O	7,149
CFC	992

  

<b>AIR POLLUTANTS</b>	<b>Standard tons</b>
SO <sub>2</sub>	1,737
CO	345
NO <sub>x</sub>	637
VOC	159
PM	2,478

POLLUTION PREVENTION SERVICES

The success of our intern program is the technical assistance provided by our engineers to the interns as well as the companies.

105,092 tons.

## P2 Company Profile

Company: Siegwirk USA Inc

- Des Moines, IA
- Project focus:
  - Waste reduction (solid & hazardous)
  - Environmental impact reduction
- Identified opportunities:
  - Solvent reduction
  - Solvent recycling
  - Optimization of operating parameters to better utilize solvent reuse



[www.iowp2interns.com](http://www.iowp2interns.com)

**Total Savings: \$963,230**

<i>Implemented:</i>	<i>\$476,621</i>
<i>Recommended:</i>	<i>\$486,609</i>

POLLUTION PREVENTION SERVICES

Additional follow-ups in future years showed approximately half of the “Recommended” items have now been implemented since the student was on site.

## P2 Company Profile

### Company: Eagle Window & Door

- Dubuque, IA
- Project focus:
  - Hazardous waste generation
  - Solvent recycling
- Identified opportunities:
  - Improved solvent recycling equipment
  - Optimize paint process to increase solvent recovery
  - Optimize cleaning control system to reduce solvent usage



**Total Savings: \$99,762**

<i>Implemented:</i>	<b>\$28,316</b>
<i>Recommended:</i>	<b>\$71,446</b>

POLLUTION PREVENTION SERVICES

Company in process of reviewing options to implement final recommendations

## Additional Project Examples

- Waste reduction
- Process optimization – minimizing scrap rates, etc.
- Hospital waste reduction
- Medical waste
- Organic waste
- Chemical reduction / reuse
- Special waste
- *...and many more*

[www.iowp2interns.com](http://www.iowp2interns.com)



POLLUTION PREVENTION SERVICES

...and this is all just solid waste-focused. We also do projects focusing on energy reduction, including boilers, steam, compressed air systems, HVAC, refrigeration systems, ovens, etc. Water projects can focus on process water reduction, water reuse, wastewater treatment...and on, and on, and on. Talk with us if you have an interest in learning what this program can assist you with and we'd be glad to talk further!

## Contact

Jeff Fiagle

Iowa Department of Natural Resources

Wallace State Office Building

502 E. 9<sup>th</sup> Street

Des Moines, IA 50319

515/281-5353

[jeff.fiagle@dnr.iowa.gov](mailto:jeff.fiagle@dnr.iowa.gov)

[www.iowap2services.com](http://www.iowap2services.com)

[www.iowap2interns.com](http://www.iowap2interns.com)