

# POLLUTION PREVENTION SERVICES

Pollution Prevention Services offers confidential, non-regulatory environmental technical assistance at no cost to Iowa business and industry, institutions and governmental agencies using pollution prevention or source reduction strategies. An assortment of assistance opportunities and services are offered to assist clients including:

- Opportunity assessments
- Nationally recognized Pollution Prevention Intern Program
- Environmental Management Systems assistance
- Workshops and educational training



In 2014, 14 top engineering students from various Iowa colleges and universities worked at selected host facilities to analyze waste streams and research alternative processes or technologies to save money and benefit the environment.

Interns with the Pollution Prevention Intern Program have the unique opportunity to experience a partnership of academia, industry and government all working together toward a common goal. After one week of training in pollution prevention methodologies, interns help manage projects in Iowa industries. Interns work on-site to identify and implement

## FOR MORE INFORMATION

To learn more about Pollution Prevention Services, go to [www.p2services.com](http://www.p2services.com)

### DNR Contacts:

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## 2014 ASSISTANCE STATISTICS

|                                       |   |
|---------------------------------------|---|
| Technical assistance on-site requests | <b>242</b>                                  |
| Assessments                           | <b>7</b>                                    |
| Follow-up Assessments                 | <b>20</b>                                   |
| Informational/marketing presentations | <b>5</b>                                    |
| Informational Materials Sent          | <b>3,521</b>                                |
| Intern Projects                       | <b>14</b> (11 12-week & 3 24-week projects) |
| Workshops/conferences sponsored       | <b>3</b>                                    |

## 2001 - 2014 ANNUAL CUMULATIVE IMPLEMENTED SAVINGS

| CATEGORY              | REDUCTION                           | COST SAVINGS                |
|-----------------------|-------------------------------------|-----------------------------|
| Water Conservation    | 1,438,887,197 gallons               | \$6,175,330                 |
| Solid & Special Waste | 213,858 tons                        | \$15,619,170                |
| Hazardous Waste       | 8,025 tons                          | \$12,202,993                |
| Mercury Abated        | 42,817 grams                        | —                           |
| Energy                | 363,050,130 kWh<br>9,204,653 therms | \$20,547,136<br>\$7,057,960 |
| Other                 | —                                   | \$13,622,422                |
| <b>TOTAL</b>          |                                     | <b>\$75,225,011</b>         |

cost effective and environmentally feasible improvements for their host company. Seven of this year's intern projects were hosted by companies new to the program. Eleven of the interns were on-site at the companies for 12 weeks and three of the projects were addressed over a period of 24 weeks.

A total of 3 workshops were conducted in 2014 to provide pollution prevention and compliance information to clients from various industrial sectors. These events included:

- Two workshops that provided information regarding compliance and reduction/management about hazardous waste, zero landfill and greenhouse gas reporting in conjunction with the Iowa Strategic Goals Program; and
- A workshop that provided participants assistance in understanding Aspects & Impacts as well as rating their significance which is a building block in development of an environmental management system.

# 2014 POLLUTION PREVENTION INTERN PROGRAM BY THE NUMBERS

## 2014 POLLUTION PREVENTION INTERN PROGRAM IMPLEMENTED SAVINGS

| CATEGORY           | REDUCTION       | COST SAVINGS       |
|--------------------|-----------------|--------------------|
| Water Conservation | 440,276 gallons | \$2,179            |
| Solid Waste        | 1,351 tons      | \$214,975          |
| Hazardous Waste    | 219 tons        | \$1,343,111        |
| Energy             | 1,509,764 kWh   | \$62,884           |
| Other              | —               | \$6,400            |
| <b>TOTAL</b>       |                 | <b>\$1,629,549</b> |

## 2014 DIVERTED TONS OF AIR POLLUTANTS & GREENHOUSE GASES

| CO2      | SO2  | CH4    | N2O   |
|----------|------|--------|-------|
| 2,454.80 | 3.42 | 268.84 | 5.76  |
| CFC      | NOx  | VOC    | PM-10 |
| 7.82     | 1.62 | 1.05   | 0.18  |



## 2014o POLLUTION PREVENTION INTERN PROGRAM RECOMMENDED SAVINGS (not yet implemented)

| CATEGORY           | REDUCTION                          | COST SAVINGS             |
|--------------------|------------------------------------|--------------------------|
| Water Conservation | 25,121,603 gallons                 | \$212,373                |
| Solid Waste        | 23,103 tons                        | \$1,419,408              |
| Hazardous Waste    | 113 tons                           | \$2,145,540              |
| Energy             | 15,107,035 kWh<br>1,459,572 therms | \$553,502<br>\$1,200,162 |
| Other              | —                                  | \$1,967,042              |
| <b>TOTAL</b>       |                                    | <b>\$5,530,985</b>       |

Funding for the program comes from the Solid Waste tonnage fees including the Solid Waste Alternatives Program and grants from the Environmental Protection Agency and the US Department of Agriculture.