

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 2011, 20 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

2001 - 2011 ANNUAL CUMULATIVE IMPLEMENTED SAVINGS		
CATEGORY	REDUCTION	COST SAVINGS
Water Conservation	1,119,206 gallons	\$5,498,870
Solid & Special Waste	200,048 gallons	\$14,080,810
Hazardous Waste	1,512,492 gallons 560 tons	\$10,145,727 \$355,183
Mercury Abated	42,817 grams	—
Energy	312,374,233 kWh 6,881,138 therms	\$17,528,903 \$6,046,332
Other	—	\$12,494,617
TOTAL		\$66,150,442

2011 ASSISTANCE STATISTICS	
Technical assistance on-site requests	231
Assessments	15
Follow-up Assessments	19
Thermal Imaging Assessments	7
Informational/marketing presentations	11
Informational Materials Sent	3,405
Intern Projects	20 (15 12-week & 5 24-week projects)
Workshops/conferences sponsored	4

Iowa industries. Interns work on-site to identify and implement cost effective and environmentally feasible improvements for their host company. Four of this year's intern projects were hosted by companies new to the program while 5 of the 20 projects were 24-week internships that ended in November.

A total of 3 workshops and one conference were held in 2011 to provide pollution prevention and compliance information to clients from various industrial sectors. These events included:

- Two workshops that provided an energy recovery-based technical review of HVAC, chillers and cooling towers and a workshop that provided a review of water treatment and reuse options in conjunction with the Iowa Strategic Goals Program;
- A workshop that provided information on conducting a greenhouse gas inventory, national emissions standards for hazardous air pollutants (NESHAPs), and a panel discussion offering ways to overcome barriers to implementing an environmental management system; and
- The Kansas City Area Healthcare Engineers Annual Conference in partnership with the Kansas State Pollution Prevention Institute and EPA Region 7.

FOR MORE INFORMATION

To learn more about Pollution Prevention Services, go to www.iowadnr.gov/FABA

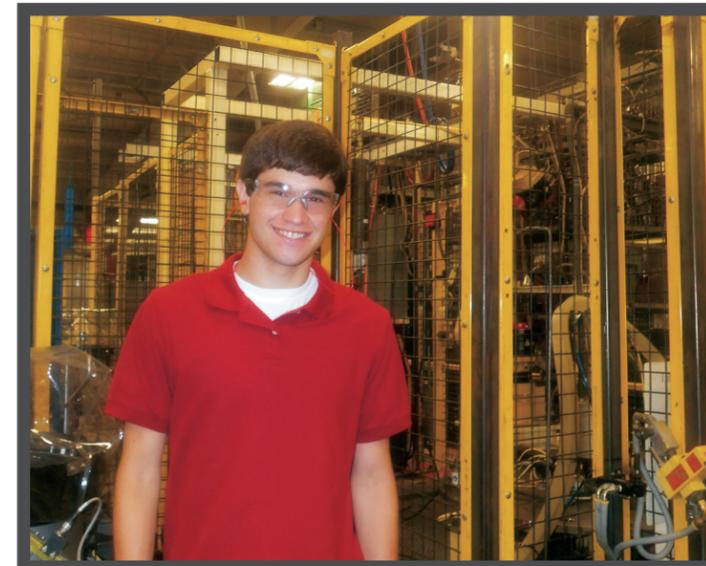
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2011 POLLUTION PREVENTION INTERN PROGRAM BY THE NUMBERS

2011 POLLUTION PREVENTION INTERN PROGRAM IMPLEMENTED SAVINGS

CATEGORY	REDUCTION	COST SAVINGS
Water Conservation	21,849,252 gallons	\$60,636
Solid Waste	296 tons	\$53,819
Hazardous Waste	5,833 gallons 9 tons	\$32,998 \$33,652
Energy	10,921,589 kWh 113,073 therms	\$733,034 \$74,607
Other	—	\$247,741
TOTAL		\$1,236,487



2011 DIVERTED TONS OF AIR POLLUTANTS & GREENHOUSE GASES

CO2	SO2	CH4	N2O
9,351.14	44.18	1,395.69	164.43
CFC	NOx	VOC	PM-10
102.12	21.58	3.04	2.52



2011 POLLUTION PREVENTION INTERN PROGRAM RECOMMENDED SAVINGS (not yet implemented)

CATEGORY	REDUCTION	COST SAVINGS
Water Conservation	82,584,071 gallons	\$606,574
Solid Waste	—	—
Hazardous Waste	15,730 gallons 333 tons	\$94,430 \$513,924
Energy	28,010,673 kWh 2,640,434 therms	\$1,781,337 \$1,434,612
Other	—	\$55,971
TOTAL		\$4,486,848

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.