

POLLUTION PREVENTION SERVICES

PROGRAM BACKGROUND

The Iowa Department of Natural Resources (DNR) has offered support to Iowa companies since 2001 through its Pollution Prevention Intern Program. This program places qualified student interns with Iowa companies for 12 or 24 weeks to identify, research and implement changes that result in environmental and financial savings. In addition, DNR's Pollution Prevention Services maintains a staff of engineers and environmental specialists who regularly conduct assessments for facilities. The goal is to identify changes that reduce the company's bottom line while reducing pollution. All of these services are confidential, non-regulatory and free to Iowa industry.

STATEWIDE



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PROJECT BACKGROUND

Follow-up audits of 34 facilities were conducted to document project implementation and savings since 2004. Projects that were not implemented were categorized based on what barrier(s) prevented success. Examples included lack of capital, inadequate return on investment, low company priority or alterations in a company's processes. In addition, opportunities for future intern projects and P2 Services assessments were identified.

RESULTS

A total of 222 P2 recommendations were reviewed at 34 companies. Of these recommendations, nearly 50 percent had been implemented or were in progress. In addition, 11 percent of the recommendations had not yet been addressed, but are still recommended for future implementation.

ENVIRONMENTAL SAVINGS

| ENVIRONMENTAL SAVINGS | |
|---------------------------|------------|
| WATER (MILLION GALLONS) | 173 |
| SOLID WASTE (TONS) | 8,270 |
| HAZARDOUS WASTE (TONS) | 4 |
| HAZARDOUS WASTE (GALLONS) | 115,500 |
| ELECTRICITY (KWH) | 31,293,000 |
| NATURAL GAS (THERMS) | 1,049,000 |

Air Pollutants Diverted in Tons

| | Total for all sectors |
|------------|-----------------------|
| SO2 | 132 |
| CO | 20.8 |
| NOX | 61.6 |
| VOC | 7.9 |
| PM | 4.0 |

Green House Gases Diverted in Tons (CO2 Equivalent)

| | Total for all sectors |
|-------------|-----------------------|
| CO2 | 26,040 |
| CH4 | 3,360 |
| N2O | 392 |
| CFCS | 316 |

The projects that have been implemented or are in progress have resulted in a savings of \$6.3 million for the 34 Iowa companies. Environmental savings are shown in the accompanying tables.