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Eight Companies Partner with P2 Services Intern Program



Eight Iowa businesses have teamed with the Iowa DNR's Pollution Prevention (P2) Intern Program this summer to increase the efficiency of their operations and reduce associated costs.

Upper-level engineering students work on-site at their assigned company to conduct in-depth assessments, analyze data, research pollution prevention strategies, and provide calculated recommendations. Companies utilize the data to make informed decisions and drive implementations that will help meet their environmental performance goals.

"P2 is the process of going back up the pipe to identify the root cause of an inefficiency and applying source-reduction strategies to reduce or eliminate waste in a process or system," says Jeff Fiagle, Team Lead for the DNR's P2 Services team. Technical advisers with the P2 Intern Program provide training and oversight to the interns who seek to provide long-term solutions for the host companies.

Since 2001, more than 195 Iowa companies, hospitals, universities, and government agencies have participated in this innovative program, accumulating more than \$111.8 million in savings as a result of using resources more efficiently and improving environmental performance.

Environmental benefits achieved include the reduction of:

- 5.7 billion gallons of water
- 258,720 tons of solid waste
- 10,016 tons of hazardous waste
- 504.2 million kilowatt hours of electricity
- 22.2 million therms of energy.

Companies participating in the 2022 P2 Intern Program include (listed alphabetically by town):

Denison: Monogram Quality Foods

Des Moines: Dee Zee, Inc.

LeMars: Wells Enterprises, Inc.

Marshalltown: JBS USA, LLC

Muscatine: HNI Corporation

Ottumwa: JBS Swift Pork

Spirit Lake: Polaris Industries – Indian Motorcycle

Storm Lake: Tyson Foods Inc. - Hillshire Brands

Funding for the P2 Intern Program includes federal grants, portions of solid waste tonnage fees, and cost share contributed by the host companies.

Pollution Prevention Services also provides confidential, non-regulatory, environmental technical assistance in the form of assessments, development assistance for Environmental Management Systems, workshops, and access to an electronic library of technical resources. These services are offered at no-cost to help companies reduce

expenses through source-reduction strategies to improve process efficiency and reduce or eliminate waste.

For more information on the Pollution Prevention Intern Program and a list of 2022 projects, visit: www.iowap2interns.com. Case summaries of the 2022 projects will be posted to this site in the fall.

Back to the Basics: Insulation Opportunities

In February, we mentioned three different ways to address lower hanging fruit in facilities; this month's topic is insulation.

Insulation creates a barrier so transmission of heat does not occur. In industrial settings, insulation can be used throughout the facility. Installing insulation can be an easy way to save money. There are various types of insulation such as: boiler jackets, removable insulation, food safe insulation, and many others. There is a type of insulation for almost every application!



Below are some common uses of insulation:

- **Safety** - insulation can be used to protect employees from hot equipment or pipes near the ground that they would potentially bump in to.
- **Quality control** - placing insulation around areas of a process that reach hot or cold temperatures can help with the quality of your product by keeping a consistent temperature.
- **Preventative Maintenance** - insulation can protect pipes from condensation which leads to corrosion. Insulation can be easily removed and replaced and is typically much cheaper than replacing a whole pipe.

Here are some resources for insulation:

- [5 great reasons to insulate industrial piping](#) - short list of the pros of insulation
- [Insulation Best Practices](#) (pdf) - tips to boost efficiency with insulation
- [Maximize system energy efficiency with proper insulation](#) (pdf) - question and answer format that provides efficiency curves and calculations
- [Steam line energy saving tips](#) - article focused on optimizing steam lines with insulation

If you would like more assistance with insulation opportunities, contact P2 Services at P2Services@dnr.iowa.gov.

Upcoming events

June 23 [Your I4.0 Journey: How to Find and Make Manufacturing Data Work for You](#)
Cedar Rapids

July 1 SWAP Application deadline

September 28-29 [2022 Iowa Water Conference](#) Dubuque

October 12-13 [2022 Iowa Environmental Health Association Fall Conference](#) West Des Moines

November 8-9 [Iowa Energy Summit](#) Altoona

Learn more about our program at www.iowap2services.com.



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