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P2 News

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- [Congratulations to the 2020 P2 Award Winners!](#)
- [Water Reuse - Best Management Practices](#)
- [Apply Now for the Green Chemistry Challenge Awards!](#)
- [Upcoming Events](#)

Congratulations to the 2020 P2 Award Winners!



On August 12, EPA announced the four winners of the Region 7 Pollution Prevention Awards, including:

- Clow Valve in Oskaloosa
- Iowa City Veterans Administration Health Care System
- JBS Swift Pork in Ottumwa
- Washington University in St. Louis

The DNR is proud to share past P2 projects with these Iowa companies:

JBS Swift Pork in Ottumwa

In 2018, a DNR P2 intern conducted a water balance for the steam generation and cooling systems. Specifically, the intern designed recommendations including adoption of an air-cooled condenser to assist in the rendering operation and reduce overall water cooling demand. The intern also recommended water sub-metering and a leak detection and repair program. The 2019 P2 intern recommended projects to significantly reduce energy usage of the facility's compressor system.

Iowa City Veterans Administration Health Care System

The Iowa City VA has won sustainability awards from Practice GreenHealth and a previous P2 Award in 2018. DNR interns worked early on with the VA, and DNR is an ongoing partner.

Clow Valve Company

For more than 130 years, Clow Valve Company in Oskaloosa has manufactured iron waterworks valves and fire hydrants. The company relies on P2 and environmental sustainability and is a partner of the P2 Program. The P2 intern program assisted Clow Valve in the 2000s.

The Pollution Prevention Intern program is a partner with Iowa industry and EPA Region 7 providing environmental technical assistance to industry, institutions and government agencies. Since 2001, we have assisted Iowa companies in saving:

- \$91 million dollars,
- 9 million kilowatt hours of electricity
- 13.1 million therms of energy
- 5.0 billion gallons of water
- 248,956 tons of solid and special waste
- 8,668 tons of hazardous waste
- 294,021 MTCO₂E *

* 1 metric ton of carbon dioxide (CO₂) is the equivalent of 2,205 pounds of carbon air emissions.

The Pollution Prevention Services provides environmental technical assistance to business and industry through assessments, environmental management systems assistance, workshops and webinars, a P2 Resource Library and the Pollution Prevention Intern Program.

The P2 Intern Program offers a challenging, hands-on internship to advanced engineering students, matching their skills and experience with projects submitted by top Iowa companies. At the end of the 12- or 24-week internship, students present innovative recommendations to company staff. The DNR provides training, coordination and support for the program.

Do you have a project on your radar geared towards improving your facility's environmental performance? Consider partnering with P2 Services on a 2021 P2 internship! Applications for the 2021 program are currently available for download [here \(pdf\)](#). Or [email us](#) to ask more questions about how the program works, and/or set up a time to talk with one of our technical staff members.

Water Reuse - Best Management Practices

Last month, we covered water conservation strategies and how that is the first step to a sustainable water system. This month, we are going to talk about water reuse: what it is and some common strategies used throughout industry.

Water reuse is a strategy utilized by many facilities. It is the act of taking water from a process that uses and produces water and capturing that water and using it elsewhere in the facility. Water reuse is a good strategy that allows facilities to conserve more water by utilizing water they have already paid for. Some examples of water reuse are:

- Utilizing excess water from a final rinse as a first rinse in the same process.



- Returning condensate from steam traps back to the boiler. This is a two for one as it is saving water and energy since the condensate comes back at a higher temperature than feedwater.
- Evaluating single pass cooling and determining if this water could be reused elsewhere after its primary purpose of cooling.

Recycling water effects much more than your bottom line. It also has positive effects on:

- The wastewater treatment plant - less wastewater to process
- Plant production needs - not causing excess demand
- Your reputation within the community - reusing your resources wisely
- Reaching company sustainability targets - reduces amount of water entering facility in the first place and brings down consumption

Check out the [Pollution Prevention Services Internship Project Index \(pdf\)](#) for more project ideas related to water reuse!

Apply Now for the Green Chemistry Challenge Awards!



A U.S. EPA Program

The U.S. Environmental Protection Agency (EPA) is now accepting nominations for the 2021 Green Chemistry Challenge Awards. These prestigious awards recognize innovation by American businesses and researchers that redesign chemical products and processes to reduce or eliminate the use and manufacture of hazardous substances.

The [2021 Green Chemistry Challenge Awards nomination package](#) is now available and nominations are due by December 4, 2020. EPA anticipates giving awards to outstanding green chemistry technologies in five categories in June 2021.

EPA also will host a webinar on September 23, 2020, for those interested in applying. The webinar will provide an overview of the requirements, criteria and tips for submitting a nomination package. [Register for the webinar.](#)

Since the inception of the program, EPA and the American Chemical Society, which co-sponsor the awards, have received more than 1,600 nominations and presented awards to more than 120 technologies. By leveraging these technologies, the use or generation of hundreds of millions of pounds of hazardous chemicals have been avoided, and billions of gallons of water and trillions of BTUs in energy have been saved annually.

An independent panel of technical experts convened by the American Chemical Society Green Chemistry Institute will formally judge the 2021 submissions and make recommendations to EPA for the winners.

For more information on submitting nominations for the 2021 awards and to learn more about past award winners, visit: <https://www.epa.gov/greenchemistry>.

Upcoming Events

August 27 [What Happens After the Low-Hanging Fruit Has Been Picked when Implementing Your Energy Reduction Strategy?](#) webinar

September 2- November 19 [2020 IAWEA Annual Conference Virtual Events](#)

September 14-17 [Waste Expo 2020](#) virtual

September 17 [Worst Practices in Energy Benchmarking](#) webinar

September 22-23 [Fresh Air Solutions to Combat Transmission of Infectious Disease](#) webinar

September 23 [Keeping Sustainability Front and Center](#) webinar

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

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