

Swiftwater Brewing Company Seeks to Improve the Environmental Footprint of the Brewery



Swiftwater Brewing Company

Swiftwater Brewing Company (Swiftwater) is a craft brewery located in Rochester, NY that produces approximately 1,200 barrels of beer annually. Swiftwater has grown over the previous five years, and has incorporated a full-menu restaurant and bar.

Challenge

Swiftwater wants to understand and potentially lessen the environmental impact of the brewery as part of their commitment to environmental stewardship. Even as a small brewery, Swiftwater has exemplified a commitment to sustainability and has already incorporated methodologies and techniques to be more sustainable. However, Swiftwater wanted a new perspective to learn even more opportunities to further their sustainable practices. As part of the Brewery Sustainability Initiative being pursued by the New York State Pollution Prevention Institute (NYSP2I), Swiftwater completed an initial brewery survey and were selected to receive an onsite opportunity assessment.

Solutions

NYSP2I collaborated with Cornell University to help evaluate and identify any opportunities to reduce Swiftwater's environmental footprint. NYSP2I conducted a site visit to collect baseline metrics and identify pathways for improving Swiftwater's existing sustainability practices.

Results

Swiftwater had already implemented a number of practices to reduce the brewery's environmental footprint when the onsite opportunity assessment was performed by NYSP2I and Cornell University. These include:

- Providing spent yeast, grain, trub, and hops to a local farmer instead of disposing of it via landfill.
- Reusing yeast multiple times for brewing before considering it waste.

Challenge

- Swiftwater Brewing Company wanted to further improve sustainability practices in the brewery and decrease their environmental impact.

Solution

- NYSP2I collaborated with Cornell University and conducted a site visit and a collection of baseline metrics to help evaluate and identify any opportunities to reduce Swiftwater's environmental footprint.

Results

- Swiftwater had already implemented a number of sustainability practices to reduce their utility consumption and waste generation like utilizing a heat exchanger and providing their spent grain to a local farmer.
- NYSP2I and Cornell University identified a number of relatively simple ways to further decrease water, chemistry, and natural gas consumption in the brewery like testing low flow spray nozzles and recycling cleaning cycles and rinses for multiple purposes.

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- Reusing dirty caustic solutions and water from the kettle to clean the floors.
- Utilizes a heat exchanger to preheat water entering the brewing process.

The work performed by NYSP2I and Cornell University led to key findings to support Swiftwater in their pursuit of decreased environmental impact. Some considerations for Swiftwater to review include:

- Testing low flow spray nozzles and tank spray balls to ensure cleanliness standards are upheld while reducing cleaning water use..
- Installing conductivity meters to provide better water control and reduce water usage by knowing when the tanks are clean.
- Utilizing the final rinse solution of one cleaning cycle as the first rinse of the next to reduce both chemical and water usage.
- Installing a permanent glycol loop outside of the building to preheat or cool process streams more efficiently than the current heat exchanger to reduce energy usage.

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Although the information in this document has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement X9-96264400 to the New York State Pollution Prevention Institute at Rochester Institute of Technology, it has not gone through the Agency's publications review process and, therefore, may not necessarily reflect the views of the Agency and no official endorsement should be inferred.

Funding provided by the State of New York.
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