DIRECT ASSISTANCE PROGRAM

CASE STUDY

Water Assessment of Water Reduction Strategies

Xylem, Inc. (Xylem) is a manufacturer delivering solutions designed to solve any water challenge. Xylem's Auburn, New York, facility is not only one of the world's leading manufacturers of residential well water pumps; they also manufacture a variety of pumps serving the wastewater, residential, agriculture and light and heavy duty industrial markets.

Challenge

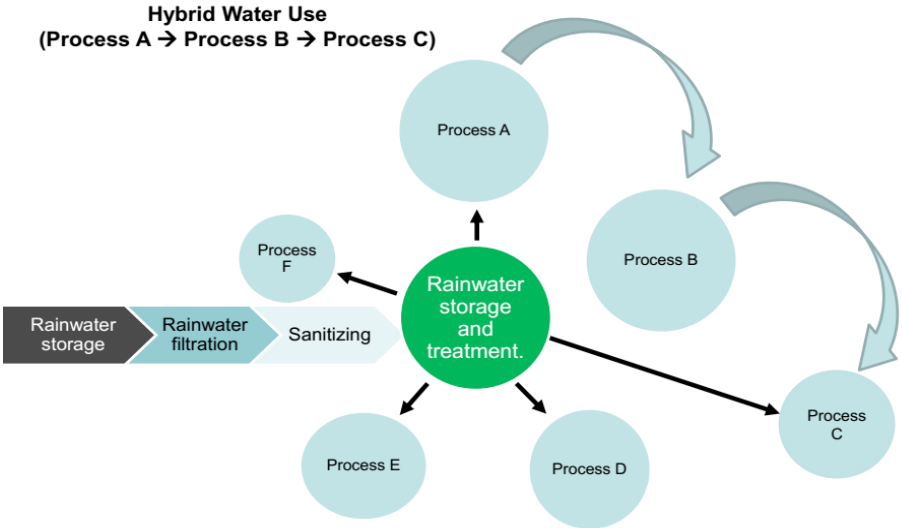
Due to NSF certifications and strict aqueous paint-line requirements, Xylem Auburn is required to use large amounts of potable water. This requirement makes meeting their 90 percent water reuse goal significantly more challenging. As a result, Xylem requested assistance from the New York State Pollution Prevention Institute (NYSP2I) to identify potential water reuse and reduction opportunities.

Solution

NYSP2I began the project by characterizing water flow in all their operations through metering, process specifications and process estimates. NYSP2I then researched potential opportunities, methods and associated implications to reuse and/or reduce water in Xylem's operations. NYSP2I also examined the possibility to harvest rainwater, including central storage and distribution options, as well as closed-loop and hybrid approaches for storage, filtration and reuse.

Results

The opportunities identified by NYSP2I could result in a reduction of water use by up to 50 percent through storage, filtration and reuse approaches. Additionally, the use of harvested rainwater could displace municipal water use by up to 95 percent. Xylem is examining feasibility of opportunities. This project has assisted Xylem in understanding the opportunities to displace, recover and reuse water.



CHALLENGE

- Xylem wanted to meet their goal of reusing 90 percent of their water

SOLUTION

- NYSP2I characterized water flow throughout operations
- NYSP2I researched potential opportunities, methods and associated implications to reuse and/or reduce water in Xylem's operations
- NYSP2I examined the possibility of harvesting rainwater for central storage and distribution, as well as closed-loop and hybrid approaches for storage, filtration and reuse

RESULTS

- Opportunities identified by NYSP2I could result in a reduction of water use by up to 50 percent through storage, filtration and reuse approaches

NYSP2I PARTNERS

New York Manufacturing Extension Partnership

Funding provided by the Environmental Protection Fund as administered by the New York State Department of Environmental Conservation.

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