Odor and heat contained thanks to gas collection and modular covers

Client
A major American frozen food manufacturer with worldwide distribution.

Challenge
The frozen food manufacturer required a cover solution for its wastewater treatment system that would reliably contain odors and retain heat.

Solution
Xylem designed, fabricated, and installed a large biogas collection cover for the frozen food manufacturer's on-site anaerobic digester.

Xylem also designed, fabricated, and installed an insulated modular cover for its equalization tank. The modular cover was designed in pie-shaped segments so that portions of the cover could be disassembled and removed for easier maintenance of the tank. Hatches and openings were built into the cover in order to accommodate access to the mixer and piping.

Both the digester tank cover and the equalization tank cover are fabricated with white polyethylene sheeting. This sheeting boasts UV-protection to protect against sun damage, extending the covers' life expectancy. A polyethylene foam insulation layer was also incorporated into the design to minimize heat loss of tank contents and add buoyancy so that operators can walk on the covers.

Solution
Biogas collection cover

Sector
Food and beverage

Location
United States of America

Results

By investing in Xylem's brand cover solutions, this frozen food manufacturer has taken steps in the right direction towards controlling reputation-impacting odor problems related to wastewater treatment. The covers are helping to contain odors by sealing the water surface so that odor complaints do not arise.

The accessibility of Xylem's cover allows treatment plant operators to perform their jobs more efficiently, saving money on labor associated with more elaborate disassembly.

The insulated layer the cover is also helping the frozen food manufacturer save on heating costs by avoiding heat loss within the tanks, reducing impact on the temperature-sensitive wastewater treatment process.



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