

DERRY TOWNSHIP MUNICIPAL AUTHORITY (HERSHEY, PA) WASTE & ENERGY RECOVERY ENHANCEMENTS AT THE CLEARWATER WWTF

OPERATIONS & ENVIRONMENTAL PERFORMANCE AWARD

The Future is..Efficient - *Committing to "Net Zero Energy"*

- Project Goals & Objectives
 - Self-sustainable WWTF operations by utilizing on-site beneficial renewable energy
 - Decrease dependency on the energy marketplace
 - Generate operational cost savings to the benefit its ratepayers
- Project Outcome
 - New Combined Heat and Power (CHP) Building with two (2) 1,000-kW CHP systems
 - CHPs fueled by biogas generated from Co-Digestion of High Strength Organic Waste (HSOW) with municipal sludges
 - Improved biogas storage, conveyance, and conditioning capacity
 - Electric Utility Interconnection and Net Metering
 - Expand plant-wide building heat recovery system and controls
- Performance Measures
 - Annual electricity, NG, fuel oil savings - \$400k ("Net Zero")
 - Estimated annual REC sales - \$200k
 - Additional annual HSOW Acceptance Revenue - \$180k

