

TOWERSIDE STER VS. SE METRO WATER RECLAMATION FACILITY



	Towerside STER	SE Metro Water Reclamation Facility (to provide reclaimed water to Enerkem's potential waste-to-biofuels facility)
Authority	Council does not have authority to engage in project	Council has authority for reclaimed water service
Policy	No policy about partnering for private entity resource recovery	Existing wastewater reuse policy fosters this type of reuse
Regulatory Compliance & Risk Management	Council responsible for regulatory compliance with NPDES permit & associated risk cannot be transferred.	MPCA guidance for wastewater reuse exists; risk managed via agreements/contract for service
Point of handoff	Point of wastewater handoff complicated and unclear; facility ownership unclear	Point of hand off for reclaimed water is clear; facility ownership clear
Financial		
Cost reimbursement	Council's cost-of-service policy requires cost reimbursement by Ever-Green Energy; however, reimbursement not in Ever-Green Energy's model	All MCES facility costs to be paid for by Enerkem with the exception of the potential regional investment, which is governed by Council policy
Estimate for wastewater-related facilities	Wastewater-related facilities likely cost at least 10 times more than shown in model	Planning-level facility costs for SE Metro WRF developed
Construction	High risk due to: highly urbanized, high profile area, many utility crossings, temporary wastewater conveyance in public right-of-way required. Property acquisition required.	Medium risk due to: pipeline construction along route with several utility crossings. Easements needed but no property acquisition anticipated.
Operations	O&M of wastewater-related facilities not addressed. Significant potential for odors in high profile area. Unknown impact of decreased wastewater temperature on Metro treatment.	Enerkem to pay for O&M of reuse facilities via reclaimed water service agreement. Industrial wastewater to be discharged to Metro WWTP regulated under IW permit.
Performance information	Lack of demonstrated, performance-based information about heat exchange technology using untreated wastewater	Use of reclaimed water for cooling and process water is common, successful, & well documented in US