

Energy\_Maintenance costs

	<i>Conventional Trucked Water Delivery</i>	<i>Individual Healthy House System existing water tanks</i>	<i>Communal Healthy House System Existing Potable Water</i>	<i>Communal Healthy House System Communal Potable Water</i>	<i>Communal water, additional costs</i>
<b>Consumer energy costs and additional maintenance costs as compared to Trucked water</b>					
Consumer pressure pumping costs	\$477.12	\$715.68	\$357.84	\$357.84	
Consumer Recirculating pump costs			\$477.12	\$1,399.55	\$922.43
Consumer heating/heat trace energy costs		\$1,890.00			
Consumer water reclamation energy cost		\$1,717.63			
Consumer additional maintenance costs			\$585.00	\$735.00	\$150.00
<b>Total Consumer energy and additional maintenance costs</b>	\$477.12	\$4,323.31	\$1,419.96	\$2,492.39	\$1,072.43
<b>Cost per litre - delivered water</b>	0.0002	0.0039	0.0013	0.0023	0.0010
Municipal pressure pumping energy costs			\$715.68	\$1,073.52	\$357.84
Municipal Recirculating pump energy costs			\$546.62	\$1,093.25	\$546.62
Municipal heating/heat trace energy costs			\$7,379.42	\$9,019.30	\$1,639.87
Municipal water reclamation energy cost			\$1,374.10	\$1,374.10	
Municipal maintenance costs		\$4,500.00	\$1,800.00	\$2,200.00	\$400.00
<b>Total Municipal energy and additional maintenance costs</b>		\$4,500.00	\$11,815.83	\$14,760.17	\$2,944.34
<b>Cost per litre - delivered water</b>		0.0041	0.0107	0.0134	0.0027
<b>Assumptions</b>					
Water deliveries, litres per year	1101045.5				
Reclaimed water quantity, including disposal	2202091				
Number of Homes	9				
Meters of Service duct	600				
Service duct diameter for combined service	8"				
Service duct diameter for reclaimed/sewage service	6"				
Electricity per kWh	0.26				
Energy required for 8" service duct assumed average	6.6	Watts per meter			
Energy required for 6" service duct assumed average	5.4	Watts per meter			