

VILLAGE OF ORLAND PARK
TOTAL COST of OWNERSHIP ANALYSIS

PROJECT: Alternative Fuel Tank Installation

DATE: 7/10/2017

Initial Costs	Final Option
<u>Material</u>	
Electrical	
>Fuel Intergration Software	\$ 750
>Electrical Supplies Totals - Install Distribution Panel (Feed Existing Vac/Air Pump and Propane Station)	\$ 1,000
Concrete (20'x6'x6")	\$ 2,000
>Stone Backfill	\$ 500
>6" GALVINIZED PIPE - Safety Bollards(16 pcs.)	\$4,252.00
>Landscape Restoration/Bollard Paint Supplies	\$300.00
Labor (In-House)	TBD (via Time Audit)
Subtotal - Initial Costs	\$ 8,802
Ownership Costs (over the Lifetime of the Asset)	
Ownership Costs <u>per Year</u>	
<u>Maintenance</u>	
AFS	
>Maintain Fueling Equipment for life of agreement	
>Monitoring Refilling of 1000gal Storage Tank	
<u>Contracted Services</u>	
AFS	
>Permitting	
>Final Power and Communication Connections	
> Any Annual OFSM required inspections	
<u>Other Costs</u>	
Misc. Safety Supplies	
> Rubber Gloves/Goggles/Signage	\$ 300.00
Subtotal - Ownership Costs <u>per Year</u>	\$ 300.00
Expected Life (in Years)	5
Subtotal - Ownership Costs (over the Lifetime of the Asset)	\$ 1,500
TOTAL COST OF OWNERSHIP	\$ 10,302

* Life span of a Propane tank average 12 years

* A 1000 gallon tank is 16 feet long, 41 inches in diameter. Minimum of 3 feet between tanks. Initial installation 2 tanks. Looking long term, plan on area to accommodate 4 tanks. The pump would need to be within 3 to 5 feet of tanks.

* Dispense placement regulation - 30 feet from point of transfer and current gasoline/diesel, dispenser/tanks.