

**Total Project Summary - Standard Photocells
New York Power Authority - Energy Efficiency Program
Town of Caroga**

May 8, 2019

		Material	Labor	
		Construction Costs:	\$20,915.00	\$24,900.00 (See Note #1)
		Sample Fixtures:	\$1,425.00	\$750.00
NG Owned:	166	Fuses (if required):	\$11,620.00	\$0.00
Total Fixtures:	166	Wiring:	\$0.00	\$4,150.00
		Photocells	\$3,320.00	\$0.00
		Allowance:	\$0.00	\$2,490.00
(2% of labor cost)		Payment and Performance Bonds:	\$0.00	\$645.80
		Totals:	\$37,280.00	\$32,935.80
		Total Material, Labor, & Asbestos:	\$70,215.80	
		Contingency: 10%	\$7,021.58	
		Subtotal:	\$77,237.38	
		Abatement Design & Monitoring:	\$199.20	
		Hazardous Waste Disposal Cost:	\$664.00	(Disposal of old fixtures - allowance)
		Environmental Subtotal:	\$863.20	
		Design, & Construction Mgt:	\$11,585.61	
		NYP&A Project Mgt. & Administrative:	\$13,452.93	(See Note #2)
		Project Management Subtotal:	\$25,038.54	
		Purchase of Fixtures:	\$0.00	(See Note #3)
		Project Subtotal:	\$103,139.12	
		Disconnect Device Security:	\$946.25	
		Interest During Construction (IDC):	\$3,642.99	(See Note #4)
		Total Project Cost:	\$106,782.10	

Estimated Energy Savings

<u>Estimated Electrical Savings:</u>	<u>Estimated Fuel Savings:</u>	<u>MMBtu Savings</u>	<u>Cost Savings:</u>
kWh Savings: 95,569	Natural Gas: 0 ccf	0.0	\$0.00
kWh Cost Savings: \$17,232.01	Oil Savings: 0 gal	0.0	\$0.00
Monthly kW Savings: N/A	Other: 0 lbs	0.0	\$0.00
kW Cost Savings: N/A		0.0	\$0.00
Total Electrical Savings: \$17,232.01		0.0	\$0.00
Total Energy Savings: \$17,232.01			

Estimated Annual Maintenance & Facilities Savings

Facilities Charges:	\$10,481.04	
Pole Leasing Cost	(\$1,195.20)	(See Note #5)
Post Maintenance Cost:	(\$2,490.00)	(See Note #6)
Total Annual Maintenance & Facilities Savings	\$6,795.84	
Est. Total Savings:	\$24,027.85	

Simple Payback

Total Project Cost With IDC:	\$106,782.10
Estimated Rebates & Incentives:	\$10,610.00
Net Project Cost:	\$96,172.10
Total Amount Saved:	\$24,027.85
Simple Payback:	4.00

Project Financing

TOTAL AMOUNT FINANCED:	\$96,172.10	
Interest Rate:	3.00%	(See Note #7)
Years Financed:	5	
Number of Payments:	60	
Annual Debt Service to NYP&A:	\$20,737.04	
Monthly Debt Service to NYP&A:	\$1,728.09	
Total Project Cost after Financing:	\$103,685.21	
Total Annual Savings:	\$24,027.85	
Payback With Financing:	4.32	
Annual Cash Flow:	\$3,290.80	

Notes:

1. Installation labor costs include requirement from NYS Department of Labor to have certified linesman complete installation work for new street lighting equipment.
2. NYP&A Project Mgt. & Administrative represents a fee of 15% of the Construction Costs, Asbestos Abatement, Design & Construction Fee, and associated contingencies.
3. Purchase price for National Grid based on actual purchase price confirmed with utility of \$31,535. Town has decided to purchase directly outside of the financing for the project.
4. Interest During Construction (IDC) Estimated based on 3.5% interest rate.
5. Rentals of existing street lighting system components. Assumed to be \$0.60/wooden pole per month
6. Post installation maintenance costs assumed to be \$15/fixture
7. Financing assumed at 3% interest. Actual rate is variable.