

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

June 20, 2019

		Material	Labor	
NYSEG Owned:	79	Construction Costs:	\$14,822.00	\$8,675.00 (See Note #1)
NG Owned:	11	Owners Stock:	\$296.44	\$0.00
Total Fixtures:	90	Fuses (if required):	\$6,300.00	\$0.00
(2% of labor cost)		Wiring:	\$0.00	\$2,250.00
		Photocells	\$1,800.00	\$0.00
		Payment and Performance Bonds:	\$0.00	\$218.50
		Totals:	\$23,218.44	\$11,143.50
		Total Material, Labor, & Asbestos:	\$34,361.94	
		Contingency: 10%	\$3,436.19	
		Subtotal:	\$37,798.13	
		Hazardous Waste Disposal Cost:	\$360.00	(Disposal of old fixtures - allowance)
		Environmental Subtotal:	\$360.00	
		Design, & Construction Mgt:	\$4,913.76	
		NYP&A Project Mgt. & Administrative:	\$6,460.78	(See Note #2)
		Project Management Subtotal:	\$11,374.54	
		Purchase of Fixtures	\$49,500.00	(See Note #3)
		Project Subtotal:	\$99,032.68	
		Disconnect Device Security:	\$0.00	
		Interest During Construction (IDC):	\$1,733.07	(See Note #4)
		Total Project Cost:	\$100,765.75	

Estimated Energy Savings				
	<u>Estimated Electrical Savings:</u>	<u>Estimated Fuel Savings:</u>	<u>MMBtu Savings</u>	<u>Cost Savings:</u>
	kWh Savings: 43,016	Natural Gas: 0 ccf	0.0	\$0.00
	kWh Cost Savings: \$2,912.50	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	Other: 0	0.0	\$0.00
	Total Electrical Savings: \$2,912.50		0.0	\$0.00
	Total Energy Savings: \$2,912.50			

Estimated Annual Maintenance & Facilities Savings				
	Facilities Charges:	\$11,441.71		
	Pole Leasing Cost	(\$938.52)	(See Note #5)	
	Post Maintenance Cost:	(\$1,350.00)	(See Note #6)	
	Total Annual Maintenance & Facilities Savings	\$9,153.19		
	Est. Total Savings:	\$12,065.68		

Simple Payback				
	Total Project Cost With IDC:	\$100,765.75		
	Estimated Rebates & Incentives:	(\$3,928.40)		
	Net Project Cost:	\$96,837.35		
	Total Amount Saved:	\$12,065.68		
	Simple Payback:	8.03		

Project Financing				
	TOTAL AMOUNT FINANCED:	\$96,837.35		
	Interest Rate:	4.00%	(See Note #7)	
	Years Financed:	10		
	Number of Payments:	120		
	Annual Debt Service to NYP&A:	\$11,765.17		
	Monthly Debt Service to NYP&A:	\$980.43		
	Total Project Cost after Financing:	\$117,651.73		
	Total Annual Savings:	\$12,065.68		
	Payback With Financing:	9.75		
	Annual Cash Flow:	\$300.51		

- 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 NYSEG estimated at \$550/fixture.
 4. Interest During Construction (IDC) Estimated based on 3.5% interest rate.
 5. Rentals of existing street lighting system components. Assumed to be \$0.99/wooden pole per month
 6. Post installation maintenance costs assumed to be \$15/fixture
 7. Financing assumed at 4% interest. Actual rate is variable.