

**Total Project Summary - Asset Management and Smart Cities
New York Power Authority - Energy Efficiency Program
Town of Dryden**

June 20, 2019

		Material	Labor	
Roadway Fixtures:	79	Construction Costs:	\$14,822.00	\$8,675.00 (See Note #1)
Post Top Fixtures:	11	Owners Stock:	\$296.44	\$0.00
Total Fixtures:	90	Fuses (if required):	\$6,300.00	\$0.00
		Wiring:	\$0.00	\$2,250.00
		Asset Management:	\$12,600.00	\$0.00
		Smart Cities Grant:	\$20,000.00	\$0.00
(2% of labor cost)		Payment and Performance Bonds:	\$0.00	\$218.50
		Totals:	\$54,018.44	\$11,143.50
		Total Material, Labor, & Asbestos:	\$65,161.94	
		Contingency: 10%	\$6,516.19	
		Subtotal:	\$71,678.13	
		Hazardous Waste Disposal Cost:	\$360.00	(Disposal of old fixtures - allowance)
		Environmental Subtotal:	\$360.00	
		Design, & Construction Mgt:	\$9,318.16	
		NYPA Project Mgt. & Administrative:	\$12,203.44	(See Note #2)
		Project Management Subtotal:	\$21,521.60	
		Purchase of Fixtures:	\$49,500.00	(See Note #3)
		Project Subtotal:	\$143,059.74	
		Disconnect Device Security:	\$0.00	
		Interest During Construction (IDC):	\$2,503.55	(See Note #4)
		Total Project Cost:	\$145,563.28	

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		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:	\$145,563.28
Smart Cities Grant:	(\$20,000.00)
Estimated Rebates & Incentives:	(\$3,928.40)
Net Project Cost:	\$121,634.88
Total Amount Saved:	\$12,065.68
Simple Payback:	10.08

Project Financing

TOTAL AMOUNT FINANCED:	\$121,634.88	
Interest Rate:	4.00%	(See Note #7)
Years Financed:	14	
Number of Payments:	168	
Annual Debt Service to NYPA:	\$11,360.88	
Monthly Debt Service to NYPA:	\$946.74	
Total Project Cost after Financing:	\$159,052.29	
Total Annual Savings:	\$12,065.68	
Payback With Financing:	13.18	
Annual Cash Flow:	\$704.81	

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. NYPA 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.