

Lewisville, TX Streetlight Study Report

Feasibility Study Review
August 4th, 2025



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CEO

Who is Tanko Lighting?



**Sole Focus
Municipal Streetlighting
Consultant**



**940,000+ Streetlights
In Contract**



**533,000+ Streetlight
Acquisitions**



**70,000+ Fixtures
Maintained**



**280+ Projects
Nationwide**

Streetlighting Importance & Issues Facing Municipal Leaders



- Streetlights are for *Public Safety*
 - Prevent vehicular accidents
 - Keep pedestrians safe
- Critical piece of city infrastructure
 - Muni. duty to control right-of-way
 - Installed under the authority and directive of the city
- Utility Owned
 - High & rising costs
 - Limited control



Current Streetlighting of Lewisville, TX

- **2,613 TNMP owned fixtures**
- **824 CoServ owned fixtures**
- **Current annual lighting costs of \$687k**
- **Only 5.5% converted to LED**
- **Primarily High Pressure Sodium (HPS) -1970s tech**
- **High costs, low service**
- **Huge opportunity**
 - **Improve public safety**
 - **Reduce operational costs**



Streetlight Study Options



Option 1

Ownership Transfer from TNMP / CoServ to City, LED Conversion, and Ongoing Maintenance

Option 2

Utility Sponsored LED Conversion, No Acquisition

Option 3

Status Quo – 5% Annual LED Conversion by Utility

Results



Option	Description	Est. Project Cost	20yr Op. Costs	20yr Op. Savings	ROI
Option 1	City-Owned LED Streetlight System	\$2,701,941	\$4,936,167	\$7,231,901	5.3 yrs
Option 2	Utility-Owned LED Streetlight System	\$371,964	\$18,921,792	(\$6,753,724)	N/A
Option 3	Status Quo (Baseline)	N/A	\$12,168,068	N/A	N/A

Tariff Change | Option 1 – 5.3yr Payback



Current Monthly Cost

\$14.12

(100w HPS, 25% of system)

- \$10.42 - Rate & Maint.
- \$3.70 – Gen./Tran. & Riders

**Ownership Change &
LED Conversion**



New Monthly Cost

\$3.75

(35w LED, 25% of system)

- \$0.65 - Rate
- \$1.10 – Gen./Tran. & Riders
- \$2.00 - Maintenance

Tariff Change | Option 2 – No Payback



Current Monthly Cost

\$14.12

(100w HPS, 25% of system)

- \$10.42 - Rate & Maint.
- \$3.70 – Gen./Tran. & Riders



New Monthly Cost

\$29.32

(35w LED, 25% of system)

- \$28.01 - Rate & Maint.
- \$1.31 – Gen./Tran. & Riders



Financial Analysis | Option 1 – Acquisition, LED Conversion, Maintenance

Option Details	Option 1			Option 2		
System Ownership	Acquired by Municipality			Owned by Utilities		
LED Conversion	Converted by Municipality			Converted by Utilities		
Maintenance	Maintained by Municipality			Maintained by Utilities		
Year 1 Analysis	Option 3	New	Savings	Option 3	New	Savings
Energy Usage [kWh]	2,426,440	628,460	1,797,980	2,426,440	681,020	1,745,420
Utility Bill Cost	\$687,021	\$95,978	\$591,043	\$687,021	\$859,339	-\$172,318
Maintenance Cost	Included in current Utility Bill Costs	\$82,488	-\$82,488	Included in current Utility Bill Costs		
Total	\$687,021	\$178,466	\$508,555	\$687,021	\$859,339	-\$172,318
20 Year Analysis	Option 3	New	Savings	Option 3	New	Savings
Energy Usage [kWh]	13,620,400	12,569,200	1,051,200	13,620,400	13,620,400	0
Utility Bill Cost	\$12,168,068	\$2,113,340	10,054,729	\$12,168,068	\$18,921,792	(6,753,724)
Maintenance Cost	Included in current Utility Bill Costs	\$2,822,828	(2,822,828)	Included in current Utility Bill Costs		
Total	\$12,168,068	\$4,936,167	7,231,901	\$12,168,068	\$18,921,792	-\$6,753,724



TNMP Published Streetlight Rate Schedule

Schedule IV –Ornamental Pole (per lamp charge)

	Distribution Facilities Charge	
	One Lamp Per Pole	Two Lamps Per Pole
8150 lumen – 175 watt MV	\$10.40	-
21500 lumen – 400 watt MV		\$10.47
9500 lumen – 100 watt HPS	\$10.42	\$8.06
22000 lumen – 200 watt HPS	\$10.41	\$10.41

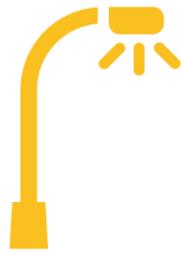
Schedule V – LED Street Lighting

Wattage Range	kWh	Cobra Wood	Cobra Head Ornamental			Double Cobra Ornamental		Historical Post-Top Underground		Customer- Owned
		O/H (A)	O/H (B)	U/G (C)	O/H (D)	U/G (E)	Fiberglass (F)	Steel/Conc. (G)	(H)	
20-60	15	\$12.81	\$24.32	\$28.01	\$31.84	\$35.47	\$17.09	\$32.77	\$0.65	
61-100	28								\$1.21	
101-130	42	\$16.05	\$27.56	\$31.24	\$36.91	\$40.55			\$1.81	
131-165	50								\$2.16	
166-200	62								\$2.68	
201-300	83	\$21.63	\$33.14	\$36.83	\$46.04	\$49.68			\$3.58	

Benefits of Ownership



Reduce Costs



**Improve
Public Safety**



Smart Cities



**100% Fully
Outsourced**

Recommendation



Option 1 - Ownership Transfer from TNMP/CoServ to City, LED Conversion & Ongoing Maintenance



**\$508,555
annual
savings**



**74% annual
cost savings**



**\$7,231,901
20yr savings**

Next Steps



Initial Utility Meetings



Lighting Audit & Field Condition Report

Additional Questions?

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TankoLighting

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Streetlight Basics



Stand Alone Light



Distribution Light