

## NE TYPE MANUFACTURING



### General Assumptions

KWH Charge: 0.08  
 Weekly Burn Hrs: 65  
 Energy Provider: KIND UTILITY

### Estimated Energy Savings From Retrofit

Existing Systems	Fixture Count	Watts/ Fixture	HR burn per year	Energy \$ per year	Proposed Systems	Fixture Count	Watts/ Fixture	HR burn per year	Energy \$ per year
400MH (SHIPPING)	40	460	3380	\$4,975.36	6 LAMP T8 FLUOR	40	220	3380	\$2,379.52
8' 2 LAMP HO STRIP	350	205	3380	\$19,401.20	T8 RETROFIT (2L)	350	76	3380	\$7,192.64
2X4 T12 (OFFICES)	78	148	3380	\$3,121.50	LAMP/BALLAST	78	93	3380	\$1,961.48
Annual Energy Cost with Existing System:					\$27,498.06				
Annual Energy Cost with Proposed System:					\$11,533.64				
Potential Energy Savings Per Year:					\$15,964.42				

Project Investment		Potential EPC Act Tax Benefit	
Total Material Investment:	\$28,000.00	Potential Tax Deduction:	\$30,068.00
Recycling:	\$2,100.00	Tax Incentive Bottom Line	\$10,523.80
Labor Investment:	\$15,000.00	<i>*Consult your tax professional for details</i>	
<b>Total Net Investment:</b>	<b>\$45,100.00</b>	<b>Estimated Utility Rebate</b>	
		Pending KIND UTILITY	\$15,032.00
		Review and Approval	
Total Investment:	\$45,100.00	Simple Payback:	14.69 months
Less Estimated EPC Act Benefit:	\$10,523.80	ROI 1 Year	68.73%
Less Estimated Utility Rebate:	\$15,032.00	5 Year	178.97%
<b>Adjusted Net Investment:</b>	<b>\$19,544.20</b>	10 Year	271.33%
Cost of waiting or postponing the upgrade:		\$1,330.37	per/month

### Environmental Impact

Equivalent acres of forest added: 38 Acres  
 Equivalent number of cars removed from road: 27 Vehicles  
 Annual CO2 emission reduced: 307,315 Pounds

ROI Detailed Calculation

Year	Current System Annual Energy Cost	Proposed System Annual Energy Cost	Energy Savings per Year	Cumulative Savings	Additional Cashflow	Total Cashflow	Discounted Cost	Discounted Cash Flow	ROI
1	\$27,498.06	\$11,533.64	\$15,964.42	\$15,964.42	\$15,032.00	\$30,996.42	\$42,952.38	\$29,520.40	68.73%
2	\$28,048.02	\$11,764.31	\$16,283.70	\$32,248.12		\$47,280.12	\$0.00	\$42,884.46	99.84%
3	\$28,608.98	\$11,999.60	\$16,609.38	\$48,857.50		\$63,889.50	\$0.00	\$55,190.15	128.49%
4	\$29,181.16	\$12,239.59	\$16,941.57	\$65,799.06		\$80,831.06	\$0.00	\$66,499.92	154.82%
5	\$29,764.78	\$12,484.38	\$17,280.40	\$83,079.46		\$98,111.46	\$0.00	\$76,872.90	178.97%
6	\$30,360.08	\$12,734.07	\$17,626.01	\$100,705.47		\$115,737.47	\$0.00	\$86,365.08	201.07%
7	\$30,967.28	\$12,988.75	\$17,978.53	\$118,683.99		\$133,715.99	\$0.00	\$95,029.46	221.24%
8	\$31,586.62	\$13,248.53	\$18,338.10	\$137,022.09		\$152,054.09	\$0.00	\$102,916.19	239.61%
9	\$32,218.36	\$13,513.50	\$18,704.86	\$155,726.95		\$170,758.95	\$0.00	\$110,072.74	256.27%
10	\$32,862.72	\$13,783.77	\$19,078.95	\$174,805.90		\$189,837.90	\$0.00	\$116,544.00	271.33%

