Life Cycle Cost Analysis

This analysis is provided by an independent 3rd party Strategic Energy Solutions. It reveals the return on the initial investment of savings in energy and maintenance of replacing the old T12 lighting systems with #1) the new electric lighting and #2) the new electric lighting but with the added costs of Skylights, light tubes, dimmable ballasts, photo sensors and the control systems. These equipment costs are shown in the unit price of the fixture for system #2.

Strategic Energy Solutions

Simple Payback Analysis
With Controls

inputs

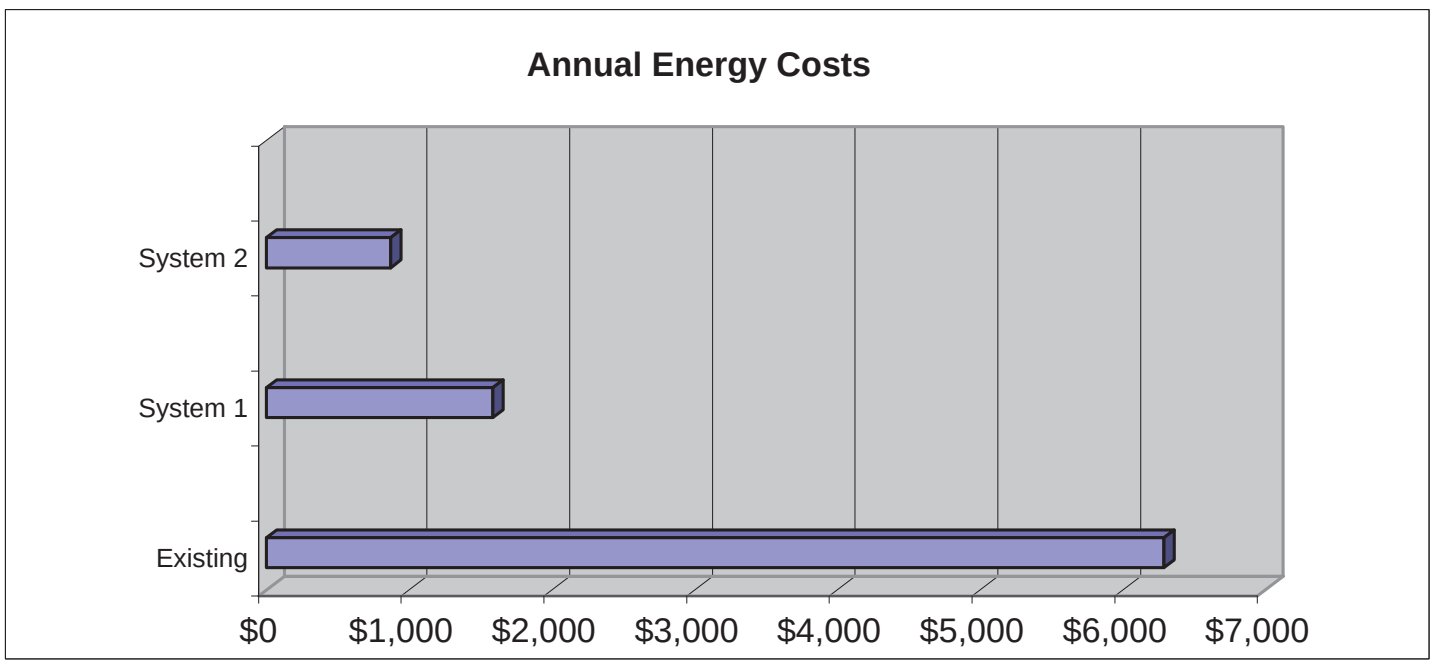
HOME

Customer Information		Site Information	
Project:	Industrial Lighting Demonstration	Area (sq.ft):	21576
Contact:	Strategic Energy Solutions	Cost per kWh ($):	$0.15000
		Annual Operating Hours:	3120

System Based Information	Existing	System 1	System 2
Brief Luminaire Description:	2-Lamp T12	Fluor. High Bay	High Bay w/ Controls
Cost per Luminaire ($):		$155.00	$483.00
Rebate/Incentive per Luminaire ($):		$79.12	$132.96
Lot Price for Labor, Disposal, etc. ($):		$2,578.65	$2,578.65
Input Watts per Luminaire:	210	106	106
Total Quantity of Luminaires:	64	32	32
Quantity of Luminaires w/ Controls:	0	0	32
% Reduction in Annual Operating Hours:	0.0%	0.0%	45.0%
Net Investment:		**$5,006.81**	**$13,779.93**

Energy Information	Existing	System 1	System 2
System Load (kW):	**13.44**	**3.392**	**3.392**
Annual Energy Use (kWh):	**41932.8**	**10583.04**	**5820.672**
Annual Energy Costs ($):	**$6,289.92**	**$1,587.46**	**$873.10**
Annual Energy Savings ($):		**$4,702.46**	**$5,416.82**
LPD (watts/sq.ft):	**0.62**	**0.16**	**0.16**

Payback Analysis	System 1	System 2
Simple Payback (years):	**1.06**	**2.54**
IRR (%):	**93.92%**	**39.31%**



NOTE: These are estimated savings only subject to a variety of variables and changes that may occur over time. Actual savings may be higher or lower.

ILDC
Industrial Lighting Demonstration Center