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Project ID : GEI-6990 Melvin Dr0811

PROPOSAL

Energy Saving Lighting Project

PGE OBF School

August 11, 2023

PREPARED FOR

District Maintenance & Operations - Meyerholz Elementary

Chris Jew / Chief Business Officer

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Cupertino, CA 95014

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ENERGY SOLUTION CONSULTANT

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PREPARED BY

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CSLB #959987(C-10)

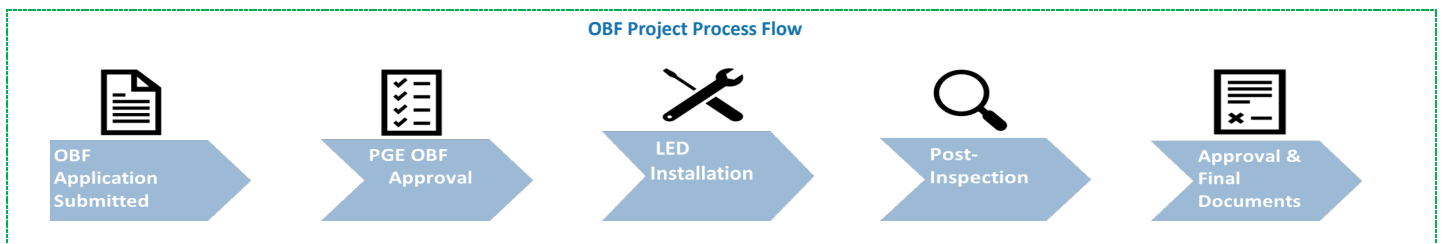
Existing Fixture Qty	Location	Old Measure	Existing Measure Wattage	Proposed Fixture Qty	Proposed Measure	Proposed Measure Wattage	Annual Hours	Total System Savings kWh
8	Admin Main Office and Hall	2-Lamp 4ft Linear T8 32W 4' Linear	59	8	ESP - 2-Lamp 10W 4-ft LED Bypass T8 - 5000K	19	2,400	768.00
1	Main Office and Hall	2-Lamp 4ft Linear T8 32W 2x4 Troffer	59	1	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	81.60
3	Main Office and Hall	2-Lamp 4ft Linear T8 32W 4' Linear	59	3	ESP - 2-Lamp 10W 4-ft LED Bypass T8 - 5000K	19	2,400	288.00
1	Main Office and Hall	CFL 40W 3-Lamp 2x2 Troffer	108	1	ALE- 30W 2x2 LED Troffer Retrofit Kit - 5000K	30	2,400	187.20
	Health Office	Existing LED (Excluded)	0		Excluded from Scope of Work No Change	0	2,400	
6	Office Supply	1-Lamp 4ft Linear T8 32W 1x4 Surface	31	6	ESP - 1-Lamp 10W 4-ft LED Bypass T8 - 5000K	9.5	2,400	309.60
1	Office Supply	CFL 40W 3-Lamp 2x2 Surface	108	1	ALE- 30W 2x2 LED Troffer Retrofit Kit - 5000K	30	2,400	187.20
3	Assistant Principal	3-Lamp 4ft Linear T8 32W 2x4 Surface	89	3	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	460.80
3	Principal	3-Lamp 4ft Linear T8 32W 2x4 Surface	89	3	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	460.80
2	Conference	3-Lamp 4ft Linear T8 32W 2x4 Surface	89	2	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	307.20
8	GLC	CFL 40W 3-Lamp 2x2 Troffer	108	8	ALE- 30W 2x2 LED Troffer Retrofit Kit - 5000K	30	2,400	1,497.60
4	GLC	CFL 40W 3-Lamp 2x2 Troffer - EM	108	4	ALE- 30W 2x2 LED Troffer Retrofit Kit - 5000K	30	2,400	748.80
37	GLC	2-Lamp 4ft Linear T8 32W 2x4 Troffer	59	37	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	3,019.20
1	GLC	2-Lamp 4ft Linear T8 32W 2x4 Troffer - EM	59	1	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	81.60
2	GLC Server Room	2-Lamp 4ft Linear T8 32W 2x4 Troffer	59	2	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	163.20
15	GLC Room 19	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	15	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	2,304.00
2	GLC Room 19 Storage	2-Lamp 4ft Linear T8 32W 4' Linear	59	2	ESP - 2-Lamp 10W 4-ft LED Bypass T8 - 5000K	19	520	41.60
1	GLC Room 20	2-Lamp 4ft Linear T8 32W 4' Linear	59	1	ESP - 2-Lamp 10W 4-ft LED Bypass T8 - 5000K	19	2,400	96.00
12	GLC Room 20	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	12	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,843.20
1	GLC Cabinet	1-Lamp 4ft Linear T8 32W 4' Linear	31	1	ESP - 1-Lamp 10W 4-ft LED Bypass T8 - 5000K	9.5	2,400	51.60
	GLC Storage	Existing LED (Excluded)	0		Excluded from Scope of Work No Change	0	520	
2	GLC Stage	2-Lamp 4ft Linear T8 32W 1x4 Surface EM	59	2	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	780	53.04
4	GLC Stage	3-Lamp 4ft Linear T8 32W 2x4 Surface	89	4	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	780	199.68
2	GLC Stage Storage A	2-Lamp 4ft Linear T8 32W 4' Linear	59	2	ESP - 2-Lamp 10W 4-ft LED Bypass T8 - 5000K	19	520	41.60
1	GLC Stage Storage B	2-Lamp 4ft Linear T8 32W 4' Linear	59	1	ESP - 2-Lamp 10W 4-ft LED Bypass T8 - 5000K	19	520	20.80
12	GLC Room 21	3-Lamp 4ft Linear T8 32W 2x4 Surface	89	12	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,843.20
1	GLC Cabinet	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	1	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	2,400	81.60
10	GLC Staff Lounge	3-Lamp 4ft Linear T8 32W 2x4 Surface	89	10	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,536.00
1	GLC Lounge Storage	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	1	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	520	17.68
3	GLC Storage Cabinet	1-Lamp 4ft Linear T8 32W 4' Linear	31	3	ESP - 1-Lamp 10W 4-ft LED Bypass T8 - 5000K	9.5	2,400	154.80
4	GLC Work Room	3-Lamp 4ft Linear T8 32W 2x4 Surface	89	4	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	614.40
1	GLC Women's Restroom	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	1	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	780	26.52
1	GLC Mens's Restroom	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	1	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	780	26.52
5	GLC Work Room Cabinet	1-Lamp 4ft Linear T8 32W 4' Linear	31	5	ESP - 1-Lamp 10W 4-ft LED Bypass T8 - 5000K	9.5	2,400	258.00
1	GLC Outside Janitorial	2-Lamp 4ft Linear T8 32W 4' Linear	59	1	ESP - 2-Lamp 10W 4-ft LED Bypass T8 - 5000K	19	520	20.80
1	GLC Outside Electrical	2-Lamp 4ft Linear T8 32W 4' Linear	59	1	ESP - 2-Lamp 10W 4-ft LED Bypass T8 - 5000K	19	520	20.80

10	Room 24	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	10	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,968.00
10	Room 25	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	10	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,968.00
9	Room 26	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	9	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,771.20
2	Room 1	2-Lamp 4ft Linear T8 32W 2x4 Surface	59	2	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	163.20
12	Room 1	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	12	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,843.20
1	Room 1	CFL 23W 2-Lamp Canopy	50	1	NAT - 14W 12" LED Flush Mount Ceiling Fixture - 5000K	14	520	18.72
1	Restroom	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	1	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	780	26.52
2	Room 2	2-Lamp 4ft Linear T8 32W 2x4 Surface	59	2	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	163.20
12	Room 2	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	12	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,843.20
2	Room 2	CFL 23W 2-Lamp Canopy	50	2	NAT - 14W 12" LED Flush Mount Ceiling Fixture - 5000K	14	2,400	172.80
1	Restroom	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	1	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	780	26.52
1	Custodian	CFL 23W 2-Lamp Canopy	50	1	NAT - 14W 12" LED Flush Mount Ceiling Fixture - 5000K	14	780	28.08
	Mechanical	Existing LED (Excluded)	0		Excluded from Scope of Work No Change	0		
9	Room 3	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 4	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 5	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 6	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
3	Boys Restroom	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	3	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	780	79.56
3	Girls Restroom	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	3	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	780	79.56
9	Room 7	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 8	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 9	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 10	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
12	Hallway	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	12	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	2,400	979.20
9	Room 11	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 12	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 13	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 14	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 15	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 16	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 17	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
9	Room 18	3-Lamp 4ft Linear T8 32W 2x4 Troffer	89	9	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,382.40
13	Hallway	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	13	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	2,400	1,060.80
2	Janitorial	2-Lamp 4ft Linear T8 32W Wrap	59	2	ESP - 2-Lamp 10W 4-ft LED Bypass T8 - 5000K	19	520	41.60
3	Girls Restroom	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	3	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	780	79.56
3	Boys Restroom	2-Lamp 4ft Linear T8 32W 1x4 Surface	59	3	ALE- 25W 1x4 LED Troffer Retrofit Kit - 5000K	25	780	79.56
1	Boys Restroom	CFL 23W 2-Lamp Canopy	50	1	NAT - 14W 12" LED Flush Mount Ceiling Fixture - 5000K	14	780	28.08
1	Room 22	2-Lamp 4ft Linear T8 32W 2x4 Troffer	59	1	ALE- 25W 2x4 LED Troffer Retrofit Kit - 5000K	25	2,400	81.60
13	Room 22	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	13	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	2,558.40
2	Room 22	1-Lamp 2ft Linear T8 17W 2' Linear	20	2	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	57.60
1	Restroom 1	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	1	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	780	63.96
1	Restroom 2	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	1	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	780	63.96
12	Room 23	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	12	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	2,361.60
2	Room 23	1-Lamp 2ft Linear T8 17W 2' Linear	20	2	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	57.60
12	Room 38	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	12	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	2,361.60

1	Restroom 1	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	1	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	780	63.96
1	Restroom 2	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	1	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	780	63.96
11	Room 39	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	11	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	2,164.80
10	Room 36	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	10	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,968.00
2	Room 36	1-Lamp 2ft Linear T8 17W 2' Linear	20	2	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	57.60
10	Room 35	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	10	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,968.00
2	Room 35	1-Lamp 2ft Linear T8 17W 2' Linear	20	2	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	57.60
9	Room 34	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	9	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,771.20
2	Room 34	1-Lamp 2ft Linear T8 17W 2' Linear	20	2	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	57.60
9	Room 33	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	9	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,771.20
2	Room 33	1-Lamp 2ft Linear T8 17W 2' Linear	20	2	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	57.60
10	Room 32	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	10	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,968.00
2	Room 32	1-Lamp 2ft Linear T8 17W 2' Linear	20	2	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	57.60
10	Room 30	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	10	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,968.00
1	Room 30	1-Lamp 2ft Linear T8 17W 2' Linear	20	1	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	28.80
10	Room 29	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	10	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,968.00
2	Room 29	1-Lamp 2ft Linear T8 17W 2' Linear	20	2	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	57.60
2	Girls Restroom	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	2	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	780	127.92
1	Boys Restroom	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	1	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	780	63.96
1	Staff Restroom	2-Lamp 4ft U Bend T8 31W 2x2 Troffer	59	1	ALE- 25W 2x2 LED Troffer Retrofit Kit - 5000K	25	780	26.52
1	IDF	2-Lamp 4ft U Bend T8 31W 2x2 Troffer	59	1	ALE- 25W 2x2 LED Troffer Retrofit Kit - 5000K	25	520	17.68
9	Room 28	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	9	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,771.20
2	Room 28	1-Lamp 2ft Linear T8 17W 2' Linear	20	2	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	57.60
9	Room 27	4-Lamp 4ft Linear T8 32W 2x4 Troffer	112	9	ALE- 30W 2x4 LED Troffer Retrofit Kit - 5000K	30	2,400	1,771.20
1	Room 27	1-Lamp 2ft Linear T8 17W 2' Linear	20	1	ESP - 1-Lamp 9W 2-ft LED Bypass T8 - 5000K	8	2,400	28.80
1	Exterior Parking	High Pressure Sodium 400W lamp Shoebox	465	1	TOR - 100W LED Shoebox Area Fixture - 5000K	100	4,380	1,598.70
2	Exterior Playground	Metal Halide 100W lamp Flood Light	128	2	NAT - 60W LED Post Top Area Light - 5000k	60	4,380	595.68
Total				Total		Total		Total
574				574		2518		82,066.70
ADDITIONAL MATERIALS								
Additional Materials				QA Review - Tier 1		Qty		1
Additional Materials				LED Emergency LED Driver		Qty		7
Total:						8		
EQUIPMENT								
Equipment Rental				26ft Scissor Lift - Per Week		# Of Day(s)/Week(s)		1
Total:						1		

Product Subtotal :	\$	117,988.00
Additional Materials :	\$	3,100.00
Equipment Rental :	\$	1,231.25
Allocated from Regnant and Luther:	\$	50,000.00
Total Project Cost :	\$	122,319.25
Total OBF Amount :	\$	172,319.25
Estimated Total Copay:	\$	0.00

OBF Project Process Flow



Simple Payback Period

Est. Annual Savings:

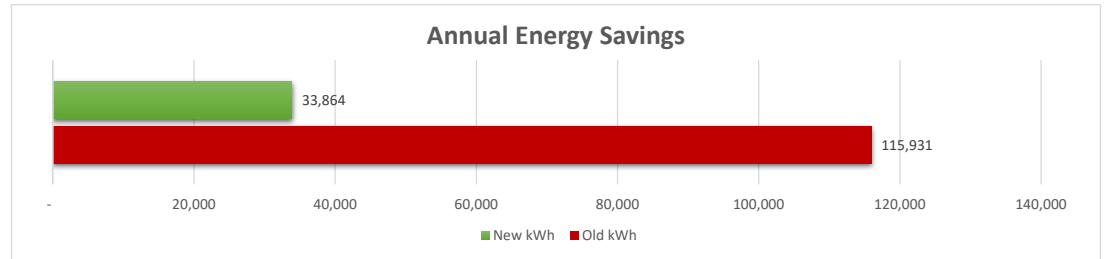
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Est. Monthly Savings:

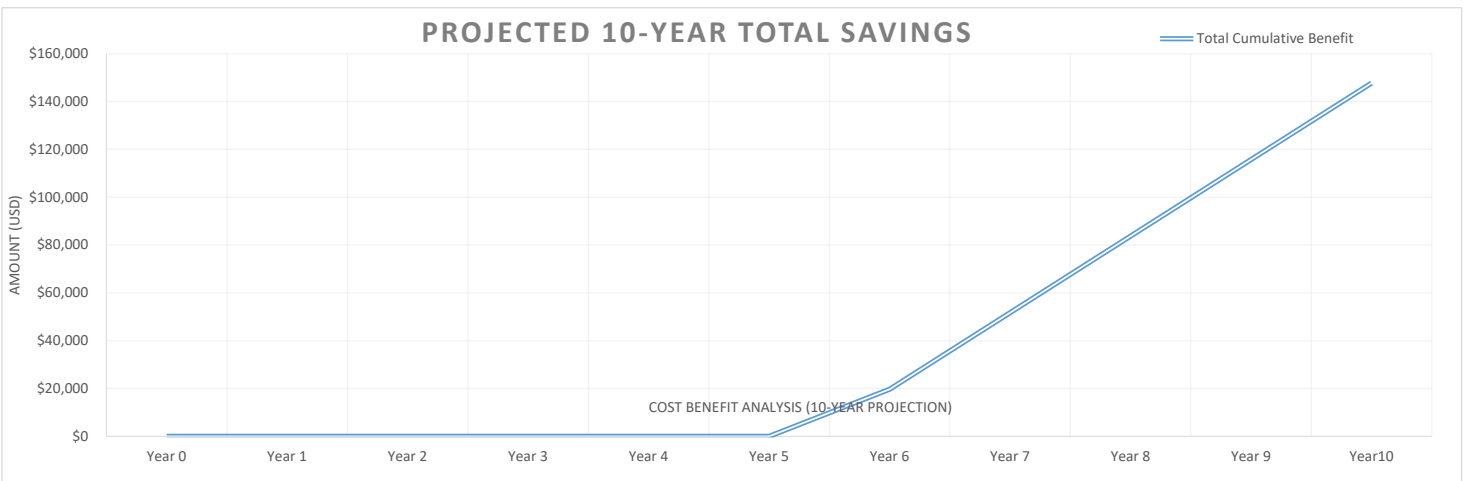
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Energy Consumption	kWh
Old kWh	115,931
New kWh	33,864
kWh Savings	82,067

Simple Payback Period	
Total OBF Amount	\$172,319.25
Simple Payback Period	5.38 Years



Cost Benefit Analysis	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year10
Est. Annual Payback Amount	0.00	(32,006.01)	(32,006.01)	(32,006.01)	(32,006.01)	(32,006.01)	(12,289.19)	0.00	0.00	0.00	0.00
Annual Net Benefit	0.00	0.00	0.00	0.00	0.00	0.00	19,716.83	32,006.01	32,006.01	32,006.01	32,006.01
Annual Electricity Costs(Old)	0.00	45,213.11	45,213.11	45,213.11	45,213.11	45,213.11	45,213.11	45,213.11	45,213.11	45,213.11	45,213.11
Annual Electricity Costs(New)	0.00	13,207.09	13,207.09	13,207.09	13,207.09	13,207.09	13,207.09	13,207.09	13,207.09	13,207.09	13,207.09
Annual Electricity Savings	0.00	32,006.01	32,006.01	32,006.01	32,006.01	32,006.01	32,006.01	32,006.01	32,006.01	32,006.01	32,006.01
Total Cumulative Benefit	0.00	0.00	0.00	0.00	0.00	0.00	19,716.83	51,722.84	83,728.85	115,734.87	147,740.88



Greenhouse gas emissions reduced:

64

tons per year

greenhouse gas emissions from:

6,565

Gallons of gasoline consumed annually



OR

Which is equivalent to:

7,399,954

smartphones charged annually



OR

carbon absorbed by:

68

acres of U.S. forests in one year



Legend

kWh = kilowatt hours (measure of energy usage)

OBF = On-Bill Financing

Measure = Light Fixtures

System Savings = total kWh hour savings between existing lighting and proposed lighting fixtures

Annual Hours = total operating hours of the lighting in a 12 month period

Rate = PG&E billing rate (varies by customer; used to calculate accurate dollar amount savings)

Date: _____