

ENERGY AUDIT

County of Monterey

County of Monterey - San Lorenzo Park
SAN LORENZO MUSEUM AG MUSEUMBOX
KING CITY, CA 93930
Acct: 1595499162; SAID: 1595499072

EcoGreen Sales Rep: Sal Miranda

Customer Contact: Ashley Paulsworth
Title of Contact: Sustainability Program Manager
Customer Phone: (831) 755-5344
Customer Email: paulsworth@co.monterey.ca.us

Approx. Building Size 13,229 SF
Energy Rate \$ 0.28 /kWh
Interest Rate 0%



EXISTING				Location		Suggested Replacements					Savings		
Existing	Watts/Fix	# of Fixtures	Existing Operating Hours-Day / Yr.	Building/Zone	Room/Area	Suggested Replacement	Watts/Fix	# of Fixtures	# of Lamps	Watts/bulbs Saved	Usage Saved	KWh Saved	Annual Savings
PGE meter	w			san lorenzo park	park office	Skip	w			w			
LED track w 2m16	w	6	4.7 2 / 489	san lorenzo park	blacksmith shop	Skip	w	6		w			
LED track w 1 m16	w	5	4.7 2 / 489	san lorenzo park	deanza bldg	Skip	w	5		w			
LED track w 1 m16	w	8	4.7 2 / 489	san lorenzo park	irrigation museum	Skip	w	8		w			
LED lb w 1 m16	w	7	4.7 2 / 489	san lorenzo park	train depot	Skip	w	7		w			
LED lb w 1 m16	w	2	4.7 5 / 1222	san lorenzo park	train depot restroom	Skip	w	2		w			
LED area pot light	w	1	6.6 7 / 2402	san lorenzo park	blacksmith bldg	Skip	w	1		w			
LED area light w1 inc	w	1	6.6 7 / 2402	san lorenzo park	blacksmith bldg	Skip	w	1		w			
LED area light	w	4	6.6 7 / 2402	san lorenzo park	train depot	Skip	w	4		w			
LED nlbulbs	w		/	san lorenzo park	main museum	Skip	w			w			
LED 8ft lin	w	2	4.7 5 / 1222	san lorenzo park	park office and shop	Skip	w	2		w			
LED 4ft lin wp	w	2	5.9 7 / 2139	san lorenzo park	restroom B womens	Skip	w	2		w			
LED 4ft lin wp	w	2	5.9 7 / 2139	san lorenzo park	restroom B mens	Skip	w	2		w			
LED 4ft lin wp	w	2	5.9 7 / 2139	san lorenzo park	shower bldg mens	Skip	w	2		w			
LED 4ft lin wp	w	2	5.9 7 / 2139	san lorenzo park	shower bldg womens	Skip	w	2		w			
LED 4ft lin	w	2	4.7 2 / 489	san lorenzo park	deanza bldg kitchen	Skip	w	2		w			
LED 4ft lin	w	1	1.2 5 / 306	san lorenzo park	park office and shop bathroom	Skip	w	1		w			
LED 4ft lin	w	2	2.9 5 / 764	san lorenzo park	park office and shop main office	Skip	w	2		w			
LED 4ft lin	w	8	4.7 2 / 489	san lorenzo park	portola bldg	Skip	w	8		w			
LED 4ft lin	w	4	2.9 5 / 764	san lorenzo park	park office and shop	Skip	w	4		w			
hvac	w	1	2.9 7 / 1069	san lorenzo park	irrigation museum	Skip	w	1		w			
heater	w	1	2.9 2 / 306	san lorenzo park	train depot	Skip	w	1		w			
heat/cool	w		/	san lorenzo park	park office and shop mates office	Skip	w			w			
area light w1 inc	w	2	6.6 7 / 2402	san lorenzo park	main museum	Skip	w	2		w			
	w		/	san lorenzo park		Skip	w			w			
	w		/	san lorenzo park		Skip	w			w			
	w		/	san lorenzo park	park office and shop main office heat and air	Skip	w			w			
	w		/	san lorenzo park	tractor barn	Skip	w			w			
flood w2 cfl	45 w	5	0.6 7 / 214	san lorenzo park	tractor barn	LED Flood Light, 3K, 4K, 5K, UNV, Knuckle Mount	12 w	5	5	165 w	73.3%	35.29	\$9.82
lb w2 pll cfl	66 w	4	4.7 2 / 489	san lorenzo park	irrigation museum	LED Spot Track Lighting, 4000K, UNV	7 w	4	4	236 w	89.4%	115.38	\$32.10
3ft lin vanity wrap w1 t8	26 w	1	2.3 7 / 856	san lorenzo park	irrigation museum restroom	LED 3" Linear Fixture, 4000K, UNV	22.8 w	1	1	3 w	12.3%	2.74	\$0.76
2x4 w3 t8	89 w	6	2.3 7 / 856	san lorenzo park	irrigation museum conf room	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	6	6	408 w	76.4%	349.07	\$97.12
2x4 w4 t8	112 w	3	2.9 5 / 764	san lorenzo park	park office and shop mates office	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	3	3	273 w	81.3%	208.54	\$58.02
lb w1 a19	100 w	1	0.6 7 / 214	san lorenzo park	irrigation museum closet	bay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, D	14 w	1	1	86 w	86.0%	18.39	\$5.12
post light w1 a19	60 w	75	6.6 7 / 2402	san lorenzo park	campground lights	LED A19 dimmable, 5000K, 120v	9 w	75	75	3,825 w	85.0%	9,189.23	\$2,556.80
flood w1 nh	128 w	2	6.6 7 / 2402	san lorenzo park	irrigation museum	LED Flood Light, 3K, 4K, 5K, UNV, Yoke Mount	30 w	2	2	196 w	76.6%	470.87	\$131.02
	w		/				w			w			
	w		/				w			w			
Totals		162	Ave: 1781				w	162		5,192 w	84.1%	10,389.51	\$2,890.77

5,192	Estimated Watts Saved	Total Project Cost	\$18,600.26	Approximate Energy Savings Per Month	\$240.90
10,390	Estimated Annual kWh Saved	Total After Rebate/Incentive Project Cost	\$18,600.26	Estimated Energy Savings Per Year	\$2,890.77
1.3	Estimated Avg Annual Res Powered by Savings	***Estimated Program Payback Period Yrs.	6.43	**Estimated Total Savings Over 5 Years	\$16,295.54
8	Estimated Annual CO2 Savings (MT)			** Estimated Total Savings After 10 Years	\$38,102.66
207,405	Estimated Btu Savings Per Month			Estimated Energy Rebate	\$0.00
84.1%	Estimated Average Electrical Savings			Estimated IRS Tax Deduction 179D Available	\$7,937.40
				***Estimated Federal Tax Savings	\$2,778.09
6.43	Estimated Payback Period Yrs. - No Rebates, Tax Deductions or Bulb Replacement Savings			Estimated Bulb Replacement Savings Per Year	\$121.72
5.25	Estimated Payback Period Yrs. Fully Comprehensive^			^^ Estimated Bulb Replacement Savings Per Avg. Est. Life of LED	\$18,818.67
				Estimated Loan Payment	\$238.46

*** Based on IRS 179D Deduction @ 35% federal tax rate

****Program Payback Period Yrs. = (Total Project Cost - Available Program Rebates or Incentives) / Estimated \$ Saved per Year

^Payback Period Yrs. = (Total Project Cost - Available Rebate or Incentive - Tax Savings) / (Estimated Savings Per Year + Bulb Replacement Savings Per Yr.)

^^Based on industry standard LED lifespan of 50,000 hrs.

NOTE: Attached calculations do not include depreciation deduction for project cost.

*Payment is based on a 6.43 year loan at 0% interest OAC, actual my vary.

** Reflects energy savings per year increasing at industry standard 6% per year + Bulb Replacement