

ENERGY AUDIT

County of Monterey

EcoGreen Sales Rep: Sal Miranda

County of Monterey - Lake Nacimiento and Resort
 NACIMIENTO LAKE DR
 PASO ROBLES, CA 93446
 Acct: 1595499162; SAID: 1599822894

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 14,122 SF
 Energy Rate \$ 0.31 /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		
deco lb w4 candelabra	15 w	8	11 7 / 4100	Lake Nacimiento	ext lights	Skip	15 w	8	8						
ac unit	w	1	/	Lodge21	ac unit	Skip	w	1							
ac unit	w	1	6 7 / 2190	Lake Nacimiento	ext cooling	Skip	w	1							
ac unit	w	1	/	Lodge 8	under porch	Skip	w	1							
ac unit	w	1	/	Lodge 14	under porch	Skip	w	1							
ac/hwvt	w	1	/	Lake Nacimiento Rentals	cottage 20 con unit	Skip	w	1							
cooler fan w 3 motors	w	1	24 7 / 8760	Lake Nacimiento	General store walk-in cooler	Skip	w	1							
cooling fan w 1 motor	w	1	24 7 / 8760	Lake Nacimiento	General store kitchen walk-in freezer 2	Skip	w	1							
cooling fan w 2 motors	w	1	24 7 / 8760	Lake Nacimiento	General store kitchen walk-in freezer	Skip	w	1							
fan units	w	3	/	Lake Nacimiento	ext cooling	Skip	w	3							
fan w 2	w	4	8 7 / 2920	Lake Nacimiento	General store dining room and bar	Skip	w	4							
fan w 3	w	1	4 7 / 1460	Lake Nacimiento Rentals	cottage 20 living room/kitchen	Skip	w	1							
furnace	w	1	5 7 / 1825	Lodge19	loft	Skip	w	1							
furnace	w	1	5 7 / 1825	Lodge 14	loft	Skip	w	1							
furnace	w	1	5 7 / 1825	Lodge 2	loft	Skip	w	1							
furnace	w	1	5 7 / 1825	Lodge 1	loft	Skip	w	1							
furnace	w	1	5 7 / 1825	Lodge 8	loft	Skip	w	1							
heat	w	1	4 7 / 1460	Lodge 13	utility closet	Skip	w	1							
heat	w	1	4 7 / 1460	Lodge 4	utility closet	Skip	w	1							
heat	w	1	4 7 / 1460	Lodge 7	utility closet	Skip	w	1							
heat lamp	w	1	1 7 / 365	Lodge 8	bathroom	Skip	w	1							
LED	w	1	3 7 / 1095	Lodge 14	loft	Skip	w	1							
LED 12in can w 1 a19	w	6	2 7 / 730	Lake Nacimiento	General store kitchen	Skip	w	6							
LED 4ft tin w 2 t8	w	1	/	Lake Nacimiento	mens bathroom	Skip	w	1							
LED 4ft tin w 2 t8	w	2	/	Lake Nacimiento	womens bathroom	Skip	w	2							
LED area light	w	6	8 7 / 2920	Lake Nacimiento	ext lights	Skip	w	6							
LED ceiling fan w 4 a19	w	1	3 7 / 1095	Lodge 13	livingroom/kitchen	Skip	w	1							
LED deco lb w 4 a	w	1	4 7 / 1460	Lodge 8	living room/kitchen	Skip	w	1							
LED deco wp w 1	w	7	8 7 / 2920	Lake Nacimiento	General store dining room and bar	Skip	w	7							
LED lb w 1 a19	w	1	2 7 / 730	Lake Nacimiento	General store safe room	Skip	w	1							
LED lb w 1 a19	w	7	12 7 / 4380	Lake Nacimiento	General store main area	Skip	w	7							
LED lb w 1 a19	w	2	3 7 / 1095	Lodge 2	loft	Skip	w	2							
LED lb w 1 a19	w	2	3 7 / 1095	Lodge 1	loft	Skip	w	2							
LED lb w 1 a19	w	2	8 7 / 2920	Lodge 8	ext lights	Skip	w	2							
LED lb w 1 a19	w	2	8 7 / 2920	Lodge 14	ext lights	Skip	w	2							
water heater	w	1	3 7 / 1095	Lodge20	loft	Skip	w	1							
water heater	w	1	3 7 / 1095	Lodge 14	loft	Skip	w	1							
water heater	w	1	3 7 / 1095	Lodge 13	utility closet	Skip	w	1							
water heater	w	1	3 7 / 1095	Lodge 4	utility closet	Skip	w	1							
water heater	w	1	3 7 / 1095	Lodge 7	utility closet	Skip	w	1							
water heater	w	1	4 7 / 1460	Lake Nacimiento	General store kitchen bathroom/water heater	Skip	w	1							
water heater	w	1	3 7 / 1095	Lodge 2	loft	Skip	w	1							
water heater	w	1	3 7 / 1095	Lodge 8	loft	Skip	w	1							
water heater	w	1	3 7 / 1095	Lodge 8	loft	Skip	w	1							
ceiling fan w 3cfl	48 w	1	4 7 / 1460	Lodge 7	livingroom/kitchen	Skip	48 w	1	3						
ceiling fan w 1 cfl	26 w	1	3 7 / 1095	Lodge 4	bedroom	Skip	26 w	1	1						
lb fan w1 cfl GU24	26 w	1	3 7 / 1095	Lodge 8	living room/kitchen	Skip	26 w	1	1						
6in can heat lamp	42 w	1	1 7 / 365	Lodge 13	bathroom	Skip	42 w	1	1						
6in can heat lamp	42 w	1	1 7 / 365	Lodge 4	bathroom	Skip	42 w	1	1						
6in can heat lamp	42 w	1	1 7 / 365	Lodge 7	bathroom	Skip	42 w	1	1						
6in can heat lamp	42 w	1	1 7 / 365	Lodge16	bottom floor bathroom	Skip	42 w	1	1						
decorative lb w1 inc	15 w	6	8 7 / 2920	Lake Nacimiento	General store dining room and bar	Skip	15 w	6	6						
ceiling fan w 1 cfl	60 w	1	3 7 / 1095	Lodge 13	bedroom	Skip	60 w	1	1						
ceiling fan w 1 cfl	60 w	1	3 7 / 1095	Lodge 7	bedroom	Skip	60 w	1	1						
lb w1 a19	15 w	1	4 7 / 1460	Lake Nacimiento	General store dressing room	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	1 w	6.7%	1.46	\$0.45		
lb w1 a19	40 w	1	3 7 / 1095	Lodge 8	bathroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	2	26 w	65.0%	28.47	\$8.79		
lb w1 a19	60 w	2	4 7 / 1460	Lake Nacimiento	General store kitchen bathroom/water heater	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	2	2	92 w	76.7%	134.32	\$41.46		
lb w1 a19	60 w	1	5 7 / 1825	Lake Nacimiento	General store kitchen office	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	46 w	76.7%	83.95	\$25.91		
lb w2 a19	120 w	2	4 7 / 1460	Lake Nacimiento Rentals	cottage 20 bedroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	2	2	212 w	88.3%	309.52	\$95.54		
lb w2 a19	120 w	2	4 7 / 1460	Lake Nacimiento Rentals	cottage 20 living room/kitchen	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	2	2	212 w	88.3%	309.52	\$95.54		
lb w2 a19	120 w	2	2 7 / 730	Lake Nacimiento	General store kitchen dry storage	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	2	2	212 w	88.3%	154.76	\$47.77		
lb w2 a19	120 w	1	3 7 / 1095	Lodge 8	bathroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	106 w	88.3%	116.07	\$35.83		
lb w2 a19	120 w	1	4 7 / 1460	Lodge 13	bathroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	106 w	88.3%	154.76	\$47.77		
lb w2 a19	120 w	1	4 7 / 1460	Lodge 4	bathroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	106 w	88.3%	154.76	\$47.77		
lb w2 a19	120 w	1	4 7 / 1460	Lodge 7	bathroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	106 w	88.3%	154.76	\$47.77		
lb w2 a19	120 w	1	3 7 / 1095	Lodge 14	bedroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	106 w	88.3%	116.07	\$35.83		
lb w2 a19	120 w	1	3 7 / 1095	Lodge 2	bot7/floor bedroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	106 w	88.3%	116.07	\$35.83		
lb w2 a19	120 w	1	3 7 / 1095	Lodge 1	bot7/floor bedroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	106 w	88.3%	116.07	\$35.83		
lb w2 a19	120 w	1	4 7 / 1460	Lodge15	bottom floor bathroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	106 w	88.3%	154.76	\$47.77		
lb w2 a19	120 w	1	3 7 / 1095	Lodge17	bottom floor bedroom	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	106 w	88.3%	116.07	\$35.83		
trac w 2 par	31 w	1	4 7 / 1460	Lodge 8	living room/kitchen	LED Spot Track Lighting, 4000K, UNV	7 w	2	2	17 w	54.8%	24.82	\$7.66		
trac w 2 par	31 w	1	5 7 / 1825	Lodge 2	living room/kitchen	LED Spot Track Lighting, 4000K, UNV	7 w	2	2	17 w	54.8%	31.03	\$9.58		
trac w 2 par	31 w	1	5 7 / 1825	Lodge 1	living room/kitchen	LED Spot Track Lighting, 4000K, UNV	7 w	2	2	17 w	54.8%	31.03	\$9.58		
trac w3 par	48 w	1	4 7 / 1460	Lodge 8	living room/kitchen	LED Spot Track Lighting, 4000K, UNV	7 w	3	3	27 w	56.3%	39.42	\$12.17		
trac w3 par	48 w	1	3 7 / 1095	Lodge 13	livingroom/kitchen	LED Spot Track Lighting, 4000K, UNV	7 w	3	3	27 w	56.3%	29.57	\$9.13		
trac w3 par	48 w	1	3 7 / 1095	Lodge 13	livingroom/kitchen	LED Spot Track Lighting, 4000K, UNV	7 w	3	3	27 w	56.3%	29.57	\$9.13		
trac w3 a19	180 w	1	4 7 / 1460	Lodge 4	livingroom/kitchen	LED Spot Track Lighting, 4000K, UNV	7 w	3	3	159 w	88.3%	232.14	\$71.65		
trac w3 a19	180 w	1	4 7 / 1460	Lodge 7	livingroom/kitchen	LED Spot Track Lighting, 4000K, UNV	7 w	3	3	159 w	88.3%	232.14	\$71.65		

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Approx. Building Size 14,122 SF
 Energy Rate \$ 0.31 /kWh
 Interest Rate 0%

In Reference to Quote # 200600

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
lb w1 a19	60 w	1	3 7 / 1095	Lake Nacimiento	General store kitchen walk-in freezer	LED Explosion Proof Jelly Jar, 5000K, UNV	45 w	1	1	15 w	25.0%	16.43	\$5.07
lb w1 a19	60 w	3	3 7 / 1095	Lake Nacimiento	General store walk-in cooler	LED Explosion Proof Jelly Jar, 5000K, UNV	45 w	3	3	45 w	25.0%	49.28	\$15.21
lb w1 a19	60 w	1	2 7 / 730	Lake Nacimiento	General store kitchen walk-in freezer 2	LED Explosion Proof Jelly Jar, 5000K, UNV	45 w	1	1	15 w	25.0%	10.95	\$3.38
4in can w1 a19	60 w	1	8 7 / 2920	Lake Nacimiento	General store dining room and bar entry	LED 4" Can Downlight,3K,35K,4K, REC	9 w	1	1	51 w	85.0%	148.92	\$45.97
6in can w1 cfl	17 w	2	3 7 / 1095	Lodge12	living room/kitchen	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w	2	2	8 w	23.5%	8.76	\$2.70
6in can w1 cfl	17 w	1	3 7 / 1095	Lodge 7	bathroom	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w	1	1	4 w	23.5%	4.38	\$1.35
6in can w1 cfl	17 w	1	1 7 / 365	Lodge 4	bedroom	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w	1	1	4 w	23.5%	1.46	\$0.45
6in can w1 cfl	17 w	1	3 7 / 1095	Lodge 4	bedroom	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w	1	1	4 w	23.5%	4.38	\$1.35
6in can w1 cfl	17 w	2	4 7 / 1460	Lodge 2	living room/kitchen	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w	2	2	8 w	23.5%	11.68	\$3.61
6in can w1 cfl	17 w	2	4 7 / 1460	Lodge 1	living room/kitchen	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w	2	2	8 w	23.5%	11.68	\$3.61
6in can w1 cfl	17 w	2	3 7 / 1095	Lodge 14	living room/kitchen	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w	2	2	8 w	23.5%	8.76	\$2.70
6in can w1 cfl	17 w	2	4 7 / 1460	Lodge 8	living room/kitchen	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w	2	2	8 w	23.5%	11.68	\$3.61
10in can w1 cfl	17 w	1	1 7 / 365	Lodge 7	living room/kitchen	LED 8" Can Downlight,3000K, 3500K, 4000K, REC	13 w	1	1	4 w	23.5%	1.46	\$0.45
10in can w1 cfl	17 w	1	1 7 / 365	Lodge 4	living room/kitchen	LED 8" Can Downlight,3000K, 3500K, 4000K, REC	13 w	1	1	4 w	23.5%	1.46	\$0.45
2x4 w4 t8	112 w	12	12 7 / 4380	Lake Nacimiento	General store main area	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	12	12	1,092 w	81.3%	4,782.96	\$1,476.33
vanity w3 a19	15 w	3	4 7 / 1460	Lodge 14	bathroom	LED Decorative Vanity W3, 27W, 3000K	27 w	3	3	w			
vanity w3 a19	15 w	3	3 7 / 1095	Lodge 13	bedroom	LED Decorative Vanity W3, 27W, 3000K	27 w	3	3	w			
vanity w3 a19	15 w	3	4 7 / 1460	Lodge14	bottom floor bathroom	LED Decorative Vanity W3, 27W, 3000K	27 w	3	3	w			
vanity w4 a19	100 w	1	3 7 / 1095	Lodge 7	bathroom	LED Decorative Vanity W3, 27W, 3000K	27 w	1	1	73 w			
vanity w4 a19	100 w	1	3 7 / 1095	Lodge13	living room/kitchen	LED Decorative Vanity W3, 27W, 3000K	27 w	1	1	73 w			
vanity w3 a19	180 w	1	5 7 / 1825	Lake Nacimiento Rentals	cottage 20 bathroom	LED Decorative Vanity W3, 27W, 3000K	27 w	1	1	153 w			
vanity w4 a19	240 w	1	3 7 / 1095	Lodge 8	bathroom	LED Decorative Vanity W3, 27W, 3000K	27 w	1	1	213 w			
vanity w4 a19	240 w	1	3 7 / 1095	Lodge 2	living room/kitchen	LED Decorative Vanity W3, 27W, 3000K	27 w	1	1	213 w			
vanity w4 a19	240 w	1	3 7 / 1095	Lodge 1	living room/kitchen	LED Decorative Vanity W3, 27W, 3000K	27 w	1	1	213 w			
deco lb w3 a19	75 w	1	5 7 / 1825	Lodge 2	living room/kitchen	LED Decorative Lowbay, 4000K,4100K,3000K,3500K,5000K	38 w	1	1	37 w	49.3%	67.53	\$20.84
deco lb w3 a19	75 w	1	5 7 / 1825	Lodge 1	living room/kitchen	LED Decorative Lowbay, 4000K,4100K,3000K,3500K,5000K	38 w	1	1	37 w	49.3%	67.53	\$20.84
lb w1 a19	60 w	1	3 7 / 1095	Lodge18	bottom floor bedroom	LED Decorative Lowbay, 4000K,4100K,3000K,3500K,5000K	38 w	1	1	22 w	36.7%	24.09	\$7.44
lb w1 a19	75 w	1	3 7 / 1095	Lodge 8	loft	LED Decorative Lowbay, 4000K,4100K,3000K,3500K,5000K	38 w	1	1	37 w	49.3%	40.52	\$12.51
10in can w 1 mr 16	42 w	1	1 7 / 365	Lodge 13	living room/kitchen	LED 10" Can Downlight, 3000K,3500K,4000K,4100K, UNV, REC	30 w	1	1	12 w	28.6%	4.38	\$1.35
wp w 1 a19	120 w	1	11 7 / 4100	Lake Nacimiento Rentals	cottage 20 ext light	LED Wallpack, CCT, UNV, PH	15.52 w	1	1	104 w	87.1%	428.33	\$132.21
4ft lin w2 t12	72 w	1	8 7 / 2920	Lake Nacimiento	General store break room 2	LED 4' Linear Fixture, 4000K, UNV, SMT	18 w	1	1	54 w	75.0%	157.88	\$48.67
8ft lin w2 t12	123 w	1	8 5 / 2086	Lake Nacimiento	General store office	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w	1	1	85 w	69.1%	177.29	\$54.72
8ft lin w2 t12	123 w	2	4 7 / 1460	Lake Nacimiento	General store back store room	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w	2	2	170 w	69.1%	248.20	\$76.61
8ft lin w2 t12	123 w	8	12 7 / 4380	Lake Nacimiento	General store main area	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w	8	8	680 w	69.1%	2,978.40	\$919.33
	w		/			Fan Motor Controller	w	1		w		801.15	\$247.29
	w		/			Fan Motor Controller	w	1		w		534.10	\$164.86
	w		/			Fan Motor Controller	w	1		w		267.05	\$82.43
Cooler	w		/		Larkin 2-Fan Unit	EC Motor 1/15 HP Cooler,	w	2		w	16.1%	494.00	\$152.48
Cooler	w		/		Trenton 3-Fan Unit	EC Motor 1/15 HP Cooler,	w	3		w	29.2%	741.00	\$228.72
Freezer	w		/		Larkin 1-Fan Unit	EC Motor 1/15 HP Freezer	w	1		w	23.5%	206.00	\$63.58
8ft lin w2 t12	123 w	1	8 7 / 2920	Lake Nacimiento	General store break room 1	8" T8 LED Tube Type B, 4000K	64 w	1	2	59 w	48.0%	172.28	\$53.18
4ft lin w2 t12	72 w	2	4 7 / 1460	Lake Nacimiento	General store bike and game storage	4" T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	21 w	2	4	102 w	70.8%	148.92	\$45.97
	w		/				w			w			
Totals		195	Ave: 2979				w	217		5,820 w	60.1%	15,503.76	\$4,785.47

5,820	Estimated Watts Saved	Total Project Cost	\$52,467.41	Approximate Energy Savings Per Month	\$398.79
15,504	Estimated Annual kWh Saved	Total After Rebate/Incentive Project Cost	\$52,467.41	Estimated Energy Savings Per Year	\$4,785.47
1.9	Estimated Avg Annual Res Powered by Savings	****Estimated Program Payback Period Yrs.	9.88	**Estimated Total Savings Over 5 Years	\$26,976.12
12	Estimated Annual CO2 Savings (MT)			** Estimated Total Savings After 10 Years	\$63,076.26
3,377,270	Estimated Btu Savings Per Month			Estimated Energy Rebate	\$0.00
60.1%	Estimated Average Electrical Savings			Estimated IRS Tax Deduction 179D Available	\$8,473.20
				***Estimated Federal Tax Savings	\$2,965.62
10.96	Estimated Payback Period Yrs. - No Rebates, Tax Deductions or Bulb Replacement Savings			Estimated Bulb Replacement Savings Per Year	\$67.30
10.20	Estimated Payback Period Yrs. Fully Comprehensive^			^^ Estimated Bulb Replacement Savings Per Avg. Est. Life of LED	\$10,939.92
				Estimated Loan Payment	\$394.03

*** 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 9.88 year loan at 0% interest OAC, actual may vary.

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