



**GEMINI ENERGY
SOLUTIONS**

Energy Audit Report

CLIENT NAME

June 2020

This report presents the results of an energy assessment conducted June 12th through June 19th and evaluation of potential improvements to reduce energy consumption and related operating cost at

CLIENT NAME
CLIENT ADDRESS

Summary of the Building's Energy Savings Potential

Implementation of all recommended measures will provide annual savings of

\$2,074 and a payback period within 64 months.



The analysis shows a high potential for energy savings which will:

- ❖ reduce your energy costs,
- ❖ increase the thermal comfort in your building, and
- ❖ give you more control of how energy is consumed.

Financial Components	Financial Overview	
Electric Life Cost Savings (\$)	\$16,539	
Implementation Cost (\$)	\$10,928	
Lighting (\$)	\$1,483	
Refrigeration (\$)	\$9,445	
HVAC (\$)	\$NaN	
Plug Load (\$)	\$NaN	
	Year	Month
Payback Period	5.3	64
Lighting Payback Period	0.15	2
Refrigeration Payback Period	~	~
HVAC Payback Period	NaN	NaN
Plug Load Payback Period	NaN	NaN

Lighting Savings

Implementation of recommended lighting measures will result in annual savings of

\$1,299

Benefits of LED bulbs include:

- ❖ Lower maintenance costs
- ❖ Less air-conditioning required
- ❖ Happier customers



Replacing all of your non-LED bulbs will cost approximately \$1,483 but will result in a minimum of \$10,339 in life savings. This equates to a payback period of approximately 2 months. The cost can be reduced to \$683 if you self-install the bulbs.

Please see the next page for specifics of each measure. Each time, after the first time, you go through the rebate/incentive process it requires an on-site review that takes a minimum of 2 weeks; therefore, to save time and energy we strongly recommend implementing all measures at once.

Financial Components		Financial Overview
Minimum Life Cost Savings (\$/yr)		\$10,339
Implementation Cost (\$)		\$1,483
Payback		
	Year	0.15
	Month	2

The savings represented in the table below reflect the maintenance and cooling costs abated because LED bulbs have a longer life and produce considerably less heat.

Measure	Location	Measure Description	Quantity	Current Energy (kWh)	Usage (hrs)	Post Energy (kWh)	Post Usage (hrs)	Energy Savings (kWh)	Life Cost Savings	Implementation Cost	Payback Period (months)
1	Bar	Long design	9	1,351.62	2,503	135.162	2,503	1,216	\$2,724	\$135	5
2	Kitchen	Chef bar lights	5	500.6	2,503	50.06	2,503	451	\$1,029	\$75	7
3	Bottom sitting area	Low ceiling decorative	2	200.24	2,503	20.024	2,503	180	\$412	\$30	7
4	Bottom sitting area	Side wall decorative	6	901.08	2,503	90.108	2,503	811	\$1,817	\$90	5
5	Back storage area	Light over spices	1	33	2,503	7	2,503	26	\$68	\$7	10
6	Back storage area	Single over fridge	1	23	2,503	5	2,503	18	\$51	\$7	14
7	Back storage area	Over dishwashing	2	200.24	2,503	30.036	2,503	170	\$390	\$24	7
8	Back storage area	Over employee rights posters	1	100.12	2,503	15.018	2,503	85	\$195	\$12	7
9	Bottom bathroom	Overhead decorative	2	73.44	612	7.344	612	66	\$166	\$30	18
10	Seal Club	Wine Cabinet	4	300.48	1,252	30.048	1,252	270	\$630	\$60	10
11	Seal Club	Overhead	11	550.88	1,252	55.088	1,252	496	\$1,198	\$165	13
12	Seal club bathroom	Overhead	2	25	306	3	306	22	\$71	\$30	40
13	Mezzanine	Directional	6	750.9	2,503	38	2,503	713	\$1,588	\$18	1

Refrigeration

Implementation of recommended refrigeration measures will result in annual savings of

\$775

Replacing all of your refrigeration will cost approximately \$10,000 more but will result in a minimum of \$6,200 in life cost savings over eight years. Replacing your refrigeration alone will not result in a financial payback.

Financial Components		Financial Overview
Minimum Life Cost Savings (\$/yr)		\$6,200
Implementation Cost (\$)		\$9,445
Payback	Year	~
	Month	~

The savings represented in the table below reflect the PG&E's most current information.

Measure	Location	Measure Description	Current Energy (kWh)	Post Energy (kWh)	Energy Savings (kWh)	Life Cost Savings	Install Cost	Rebate	Payback Period (years)
1	Back storage area	Solid Door Refrigerator	3,128	2,422	706	\$2,277	\$3,500	\$160	~
2	Bar	Bar Refrigerator	1,042	475	567	\$1,829	\$2,600	\$60	~
3	Bar	Beer Refrigerator	2,084	475	1,609	\$5,191	\$3,345	\$60	8

Heating, Ventilation, and Air-Conditioning Savings

There are no recommended HVAC measures

Water Heating Savings

There are no recommended water heating measures

Equipment

There are no recommended Equipment measures.

However, most equipment draws energy even when not in use. Thus, to reduce your energy consumption, best practices include:

- ❖ Unplug devices that are not frequently used
- ❖ Utilize [mechanical timers](#) for devices to turn-off on a schedule
- ❖ Combine mechanical timers with multi-outlet strips to reduce number of timers needed

Facility Information

RESTAURANT NAME is 2,600 square feet and includes a Bar, Kitchen, Bottom sitting area, Back storage area, Bottom bathroom, Seal Club, Seal club bathroom, and a Mezzanine. RESTAURANT NAME is Monday through Saturday from 12:00 to 20:00. This building is classified as Food Service - Restaurant.

RESTAURANT NAME is on the A-1 TOU PG&E electric rate schedule. In the one-year period from May 1st, 2019 through May 1st, 2020, RESTAURANT NAME consumed 41,224 kWh, resulting in an electrical cost of approximately \$11,000.