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Case Study

Parking Garage Retro Fit - Honolulu

When Kaiser Permanente Chief Engineer, Garrett Oguma wanted to improve the lighting quality of his parking garage structure, while reducing energy and maintenance costs, he contacted Tom Brennan of Eco-Lite, in Honolulu for assistance. Tom thought that this would be an excellent opportunity to use Magnaray® as the best solution available.

Existing 150 watt HPS (174 total watts each) wall packs provided lots of glare, but not truly visible lighting (S/P ratio = .45) Many days, the lights are on 24 hours per day, because of cloudy weather. Because of the existing quantity of HPS units, it was determined to use the Magnaray® #W1PL36 (45 total watts each) adjustable flood unit, with clear lens that provides better quality lighting results (S/P ratio of lamp is 1.62).

A single fixture demonstration convinced the facility manager to make the change. Tom contacted Hawaii Electric to see if a rebate was available for this application. Once all the numbers were crunched, the utility provided a large rebate, based on their specific use!

Savings per year for electricity and maintenance costs for are \$30,427! See next page. The fixtures pay for themselves in one year (install not included) not counting the rebate. With rebate the system pays for itself in less than one year!

Before



After



Saving Energy and the Environment Since 1964

"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution; it represents the wise choice of many."

MAGNARAY[®] International

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	PRESENT LOAD	MAGNARAY[®]
Type of Fixture	High press.Sodium 150W	WIPL36
Quantity	206	206
Total Power (Watts)	35844	8240
Costs of Lamp Replacement (\$/month)	339.9	37.08
Costs of Labor (\$/month) at \$32.50 /hour	139.47	92.98
Costs of Operation (\$/month) at \$.11/hour electric rate and 24 lighting hours/day	2838.84	652.60
Yearly Cost (\$)	39818.68	9392.08
ANNUAL SAVINGS:	\$ 30426.59	

Congratulations, if you decide to use this Magnaray[®] product for your application, you will **SAVE**

16231.151 pounds of CARBON DIOXIDE

44801.292 milligrams of NITRIC OXIDE

53082.492 milligrams of SULFUR DIOXIDE

from being introduced yearly into the Earth's atmosphere in a year. Thank you for considering our products for your applications.

CUSTOMER COMMENT:

Parking Garage Retro fit, Kaiser Permanente - Honolulu

NOTE: The above information is based on actual fact, but cannot be guaranteed.
Call MAGNARAY Int. for details.
