

Marriott Hotel-Guam USES System Performance Results – Summation T-2 (3 units)

DM II Pro Data Logger recording graphs Timed Interval Samplings Results: Averaged between 12:30 to 12:50 Aug 25, 2012

Graph Title	USES System OFF (12:30 to 12:40 PM)	USES System ON (12:40 to 12:50 PM)	Change/ Savings
Real Power	130,000 Watts	115,000 Watts	- 15,000 Watts
Apparent Powe	r 155,000 Volt Amps	115,000 Volt Amps	- 40,000 Volt Amps
Current	181 Amps	135 Amps	- 46 Amps
Reactive Power	80,000 VAR	15,000 VAR	- 65,000 VAR
Voltage	280Volts	281Volts	+ 1 Volts
Power Factor	.85	.995	+ 14

KWH and Demand as billed by the Utility Company is based on all above factors.

50% of Real Power Savings plus 50% of Apparent Power Savings totaled together = Total kWh typically billed

15,000 Watts / 2 = 7,500 Watts 40,000 VA / 2 = <u>20,000</u> VA

Total 27,500 = 27.5 kWh / 3 units = approx. 9.16 kWh per USES unit.

9.16 kWh x (4) USES units (normal number of USES units running) = 36.64 kWh

Anticipated savings resulting from all above changes is 32 to 36 kWh reduction. = 34 as a conservative average.

If we take the 34 kWh conservative average and divide by (4) USES units then the average becomes 8.5 kWh per USES unit.

2. Actual new projected monthly savings results based on the recorded information from graphs.

Daily: 34 kWh x 24 hours x 30 days = 24,480 kWh

(2) USES off: (2) USES units x 8.5 kWh each x 10 hours x 30 days = 5,100 kWh

24,480 kWh

- 5,100 kWh

19,380 Kwh Total 19,380 kWh x .28 = \$5,426.40/mo. x 12 = \$65,116.80/Yr. (Monthly/Annual savings T-2 only)

All Three Services Summation

kWh reductions

T-1 48,348 kWh

T-2 19,380 kWh

T-3 30,398 kWh

Total 98,126 kWh \times .28 = \$27,475.28/month \times 12 months = \$329,703.36 Annually

Toll-free: (855) 38-GREEN (384-7336) Hawaii Saipan: (670) 23-GREEN (234-7336) Saipan

info@1stGreenSolutions.com

www.1stGreenSolutions.com

Authorized Power Shaver Distributor