Docket Optical System - Docket Number 08-DR-01

From:

Richard Halvorson <emssinfo@yahoo.com>

To:

<docket@energy.state.ca.us>

Date:

2/29/2008 5:08 PM

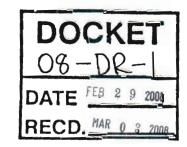
Subject:

Docket Number 08-DR-01

Attachments: 02 16 08 C Demand Detail.xls; 02 23 08 2000 to 2005 Savings per Occupied Rooms.xls

February 29, 2008

California Energy Commission Dockets Office, MS-4 Re: Docket No. 08DR-01 1516 Ninth Street Sacramento, CA 95814-5512



Please find attached 10 year hotel analysis of kWh and KW reduction using digital thermostats with sensors. The actual daily reduction was 9.2 kWh per occupied room for years 2004 and 2005. 9.2 kWh and a utility rate of \$0.15 is \$1.38 a day or \$503.70 a year per occupied room. Other hotels have been from 5 to 7 kWh per occupied room. Using 5 kWh at utility rate of \$0.15 is \$.0.75 a day or \$273.75 a year per occupied room. It has been extremely difficult to get hotels to invest in energy savings with the detailed analysis with this much savings, not to mention the rebates they would receive.

I do not have an answers why the hesitation on there part.

Very truly yours,

Richard C. Halvorson 3943 E. La Palma Avenue Anaheim, Ca 92807 714 836-1446

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	Hotels	Hotels
Number Rooms 130	With Sensors	Without Sensors
	Demand	Demand
Year 2007		
Annual Bill 8 Months	58%	51%
Annual Bill Summer 4 Months	42%	49%
Year 2006		
Annual Bill 8 Months	54%	46%
Annual Bill Summer 4 Months	46%	54%
Year 2005		
Annual Bill 8 Months	56%	50%
Annual Bill Summer 4 Months	44%	50%

2004 kWh Montly Occupancy kWh Use per occup kWh Use per # rooms Estimate Saving rm - occ % Estimate Savings

Montly Occupancy kWh Use per occup kWh Use per # rooms Estimate Saving rm - occ % Estimate Savings

First Floor

2nd Floor

3rd Floor

Summary

Annual Save and Rebate

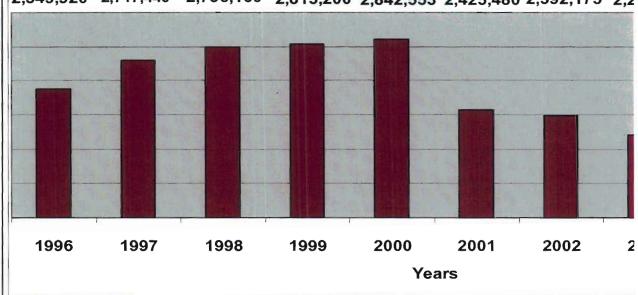
\$ 76,515.71 \$ 78,194.16 \$ 73,293.72 \$ 67,879.79

\$ 73,970.85

	Hotels	Hotels
Number Rooms 161	With Sensors	Without Sensors
	Demand	Demand
	Use	Use
Year 2007		
Annual Bill 8 Months	58%	50%
Annual Bill Summer 4 Months	42%	50%
Year 2006		
Annual Bill 8 Months	54%	46%
Annual Bill Summer 4 Months	46%	54%
Year 2005		
Annual Bill 8 Months	56%	48%
Annual Bill Summer 4 Months	44%	52%

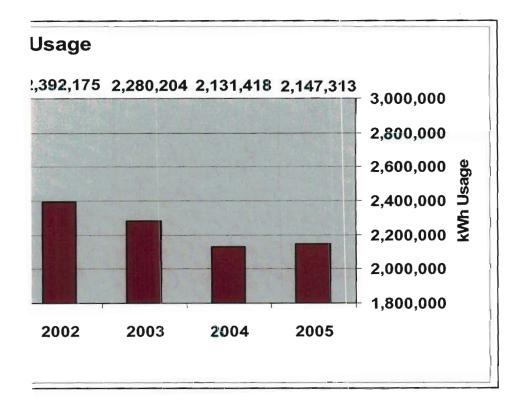
Years 1996 2005 Utility Billed kWh Usage

2,549,920 2,717,440 2,796,160 2,815,200 2,842,553 2,425,480 2,392,175 2,2



	Year kWh Utility Recorded	Base Year 2000 2,842,553	2001 2,425,480
	Annual kWh reduction Annual % reduction	0%	417,073 15 %
0.146	Current Utility Rate		
	Base Year	\$ 415,012.74	\$ 354,120.08
	Annual \$\$ reduction		\$ 60,892.66
	All Available Rooms	109,800	109,500
	Room Daily kWh Savings		3.81
	Room Daily \$\$\$ Savings		\$ 0.56
30	Room Monthly \$\$\$ Savings		\$ 16.91
365	Room Annual \$\$\$ Savings		\$ 202.98
300	All Room Annual \$\$\$ Savings		\$ 60,892.66

	Annual Room Savings	\$	202.98
	All Occupied Rooms 80,744		73,656
	Occupied Daily kWh Savings		5.66
	Occupied Daily \$\$\$ Savings	\$	0.83
30	Occupied Monthly \$\$\$ Savings	\$	25.15
365	Occupied Room Annual \$\$\$ Savings	\$	301.75
300	All Occupied Room Annual \$\$\$ Savings	\$	90,525.50
	Annual Room Savings per Occupied Room	n \$	301.75



450,378	562,349	711,135	695,240
16%	20%	25%	24%
2002	2003	2004	2005
2,392,175	2,280,204	2,131,418	2,147,313

\$ 349,257.55 \$ 332,909.78 \$ 311,187.03 \$ 313,507.70 \$ 65,755.19 \$ 82,102.95 \$ 103,825.71 \$ 101,505.04

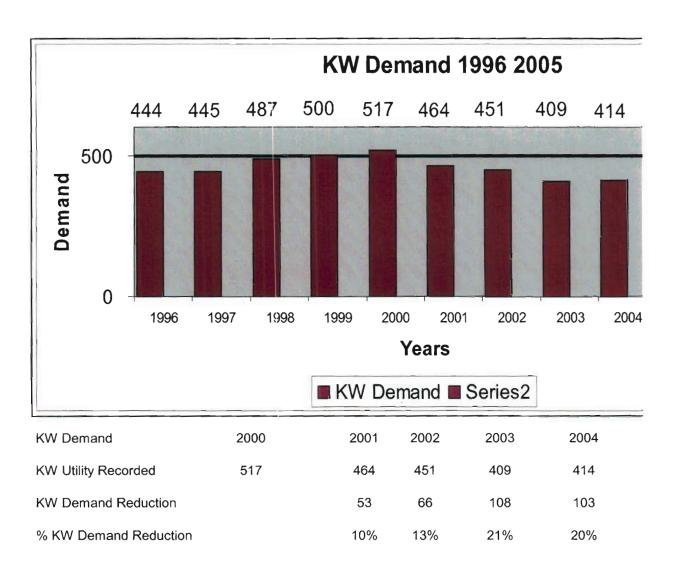
Savings All Rooms

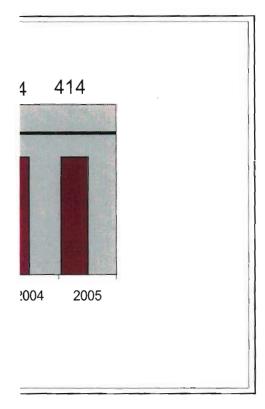
	109,500		109,500		109,500	109,500	
Annual Per Room Save	6.35		6.49		5.14	4.11	
	0.93	\$	0.95	\$	0.75	\$ 0.60	\$
	28.20	\$	28.84	\$	22.81	\$ 18.27	\$
	338.35	\$	346.09	\$	273.68	\$ 219.18	\$
\$ 338.35	101,505.04	\$	103,825.71	\$	82,102.95	\$ 65,755.19	\$

\$ 219.18 \$ 273.68 \$ 346.09 \$ 338.35

Savings Occupied Rooms

	83,932	80,743	78,829	71,799	
Annual Per Room Save	8.28	8.81	7.13	6.27	
	1.21	\$ 1.29	\$ 1.04	\$ 0.92	\$
	36.79	\$ 39.11	\$ 31.68	\$ 27.86	\$
	441.42	\$ 469.35	\$ 380.16	\$ 334.28	\$
\$ 441.42	132,426.27	\$ 140,803.73	\$ 114,047.79	\$ 100,282.64	\$
	441.42	\$ 469.35	\$ 380.16	\$ 334.28	\$





20%