

PTAC Cleaning Energy Consumption Study

The Energy Management Department of the La Quinta Hotel Corporation compared the energy usage and cost savings one week before and one week after Fibercare cleaned their PTAC units.

Occupancy and outside temperature were similar prior to and after cleaning.

Study details:

Location: Lewisville, Texas

Total PTAC units cleaned: 106

Number of energy panels read: 4

Energy measurement used: Kilowatt hours

Cost per kilowatt hour: 9.5 cents

Before

	Reading	KWH	cost/KWH	Cost
Panel 1 - B2	1142	4296	\$0.095	\$408.12
Panel 2 - C2	1448	4344	\$0.095	\$412.68
Panel 3 - F2	1197	3591	\$0.095	\$341.15
Boiler Room Panel	1528	4584	\$0.095	\$435.48
Totals		16815	\$0.095	\$1,597.43

After

	Reading	KWH	cost/KWH	Cost
Panel 1 - B2	1135	3405	\$0.095	\$323.48
Panel 2 - C2	1132	3396	\$0.095	\$322.62
Panel 3 - F2	1164	3492	\$0.095	\$331.74
Boiler Room Panel	1014	3042	\$0.095	\$288.99
Totals		13335	\$0.095	\$1,266.83

The results:

Savings of 3480 kilowatt hours per week.

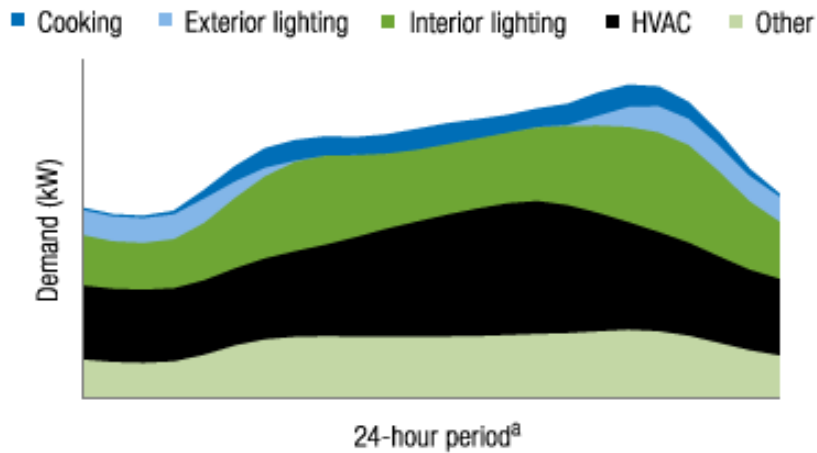
Dollar savings of \$330.60 per week, or \$17,191.20 per year.

Adjusting for re-accumulation of debris over time, expected dollar savings is projected at \$10,000 to \$15,000 per year.



Energy Bill Components for a Typical Commercial Facility

Electricity bills for commercial facilities typically feature a consumption component and a demand component. The consumption component is based on the amount of electricity (in kWh) that the building consumes during a month. The demand component is the peak demand (in kW) occurring within the month or, for some utilities, during the previous 12 months.



Notes: kW = kilowatt.

a. 24-hour period = midnight to midnight.

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