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Statistics! Boy, do we have Statistics!

With the help of Ralph Wrons (Sandia's site-wide energy manager), the Nag has compiled statistics coming pre- and post-nagging (which started in July of last year) and done some inferential statistical calculations on Building 810s energy consumption. The results are rather astounding:

1. In the months before July 2000, the average total electricity consumption in Building 810 was about 372,000 kw-hrs per month (roughly what about 600 Albuquerque homes consume in a month), with a standard deviation of about 43,000kw-hrs (95% range 353,000 - 391,000)
2. Starting in July of last year and through the end of April, the average electricity consumption of our building was 328,000 kw-hrs with a standard deviation of 41,000 kw-hrs (95% range 329,000 to 359,000 kw-hrs).
3. Thus, we've saved on average about 44,000 kw-hrs per MONTH, and over 10 months, about 450,000 kw-hrs. That is a savings of more than 200 metric TONS of CO2 not dumped into the atmosphere, and for the bean counters, something like \$25,000 (that's right!) in utility costs. For the statisticians, the p value (by standard t-test for ANOVA was $p < .02$).

But the best is yet to come. Bob Washington, building operator, has mapped out additional efficiencies that will be especially significant for the hot summer months. You shouldn't notice any difference during working hours, but we plan to stop cooling 90% of the building to freezing temperature (the standard American way of doing things) after hours. All areas requiring continuous cooling (like rooms with large computer racks) will, of course, continue to have it.

In the meantime, please continue the activities that account in largest measure for this success:

- turn off your computer and office equipment (preferably by turning off you POWER strip) when you leave at night.
- turn off lights, and close the ventian blinds on your windows if you have them (this dramatically cuts down on solar heating of the building)
- if you leave after about 4:30, turn off lights in common areas (bathrooms, hallways) and copiers or other community office equipment.

Have a great weekend. The Nag thanks you!

Respectfully,
The Energy Nag