

# ENERGY REPORT CARD

January 2010

## What's the Buzz?

When Merrill Middle School's Betty Miller got her old desktop computer replaced with an energy efficient laptop computer, she had this to say — "I am one happy camper now with my new little computer. Thank you for removing what had become a huge thorn in my side!"



### Tell us about it!

Do you want to share your ideas for saving energy or helping our environment? Or want to let us know about your projects? E-mail [lisa.simpson@dmps.k12.ia.us](mailto:lisa.simpson@dmps.k12.ia.us).

## Did You Know?

"ENERGY STAR® power management features place computers (CPU, hard drive, etc.) into a low-power 'sleep mode' after a designated period of inactivity. Simply hitting a key on the keyboard or moving the mouse awakens the computer in a matter of seconds. Screen savers generally do not save energy. In fact, certain graphics-intensive screen savers can cause the computer to burn twice as much energy, and may actually prevent a computer from entering sleep mode." For more information about computers and energy, click on the ENERGY STAR logo below.

Source: [www.energystar.com](http://www.energystar.com)



## How Are We Doing?

For the first five months of this school year compared to the same period last year, the district has realized:

- **\$414,500\*** saved in avoided energy costs
- **22%** reduction in energy costs
- **15%** reduction in energy consumption

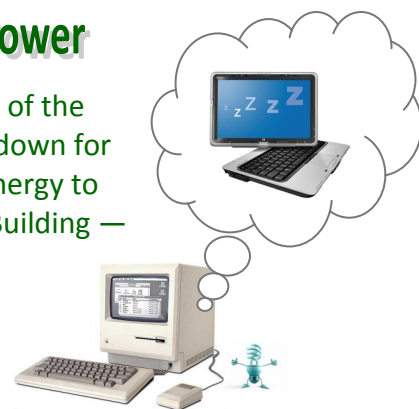
\* Based on actual monthly utility usage  
Source: LPB Utility Manager Pro/MidAmerican Energy

*Thank you for helping to conserve our energy resources.*

## Information Technology (IT) Power

"Not powering down is a big deal! If all of the world's one billion PCs were powered down for just one night, it would save enough energy to light up New York City's Empire State Building — inside and out — for more than 30 years."

Source: 1E — PC Energy Report 2009, [www.1E.com](http://www.1E.com)



The district has approximately 12,000 computers and if all of them were desktops with LCD monitors, it would cost about \$672,000 annually if run 24 hours a day, seven days per week without using sleep mode, or \$144,000 annually if run eight hours a day, five days per week and utilizing sleep mode. These statistics have made it a simple choice for the districts Technology Department to utilize power management software. The power management software shuts down computers at night and over the weekends, as well as utilizing sleep modes for periods of inactivity. In some situations, the Technology Department has upgraded to ENERGY STAR® computers and monitors or swapped desktops for laptops.

The following table illustrates typical computer equipment and its projected annual energy costs — "Permission to use this article has been granted by Tech Resources, Inc." Source: MidAmerican Energy — to view full article visit [The Business Advantage](#)

Device	Typical Operating Power (Watts)	Typical Idle Power (Watts)	Typical Sleep Power (Watts)	Annual Energy Cost		
				8 Hours/Day, 5 Days/Week, Sleep Mode	24 Hours/Day, 7 Days/Week, Sleep Mode	24 Hours/Day, 7 Days/Week, No Sleep Mode
Desktop	100	60	6	\$12	\$16	\$56
CRT Monitor	60	40	4	\$7.70	\$10	\$37
LCD Monitor	35	8	2	\$2.50	\$3.90	\$9.20
Laptop	65	15	1	\$4.60	\$5.30	\$15



“Collectively, U.S. organizations waste \$2.8 billion every year powering 108 million unused PCs. In 2009, these unused PCs are expected to emit approximately 20 million tons of carbon dioxide emissions — roughly equivalent to the impact of four million cars.”

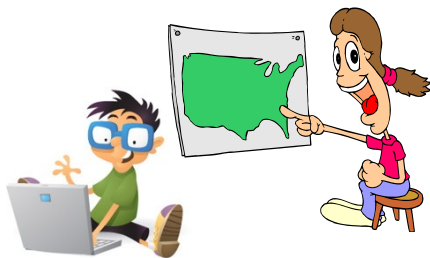
Source: 1E/Alliance to Save Energy Survey conducted by Harris Interactive™ in September 2008



Image source: greeneffect.nationalgeographic.com

Did you know that computers and other electronics are recyclable?

To learn more about e-waste, visit [www.earth911.com](http://www.earth911.com).



Kids, looking for a fun Web site? Visit [www.energyhog.org](http://www.energyhog.org).

Teachers, looking for new energy related lesson plans? Download “FREE hands-on, multidisciplinary educator lesson plans” by visiting [www.ase.org](http://www.ase.org).

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## YEAR-TO-DATE SITE ENERGY USAGE REPORT

July 1, 2009 – November 30, 2009

(measured in kBtu/sq ft)

Ranked Lowest to Highest Energy User

Site	% Chg as compared to '08-'09	kBtu/Sq Ft	Site	% Chg as compared to '08-'09	kBtu/Sq Ft
Wakonda Ste 23 ♦		1	Casady	4%	15
McKee ♦		5	Findley	-15%	15
Stowe	-13%	7	Mann—Jackson	3%	15
Hillis	-15%	7	Hiatt	-20%	16
Samuelson	-34%	8	East Academy	-18%	16
Windsor	-25%	8	McKinley	-10%	16
Facility Mgmt	-30%	8	Jefferson	-19%	16
King ■		8	Central Academy	-25%	17
South Union	-8%	9	Harding	-11%	17
Wright	-19%	9	Madison	-29%	17
Morris	-22%	9	Lincoln South	-10%	18
Perkins	-9%	9	Central Campus •	-21%	18
Greenwood	-16%	10	Hoover/ Meredith	-11%	19
McCombs			Welcome Center	-11%	19
Greenhouse	-36%	11	River Woods	-26%	19
Brubaker	-17%	11	Moulton	-28%	19
Hanawalt	-12%	11	Downtown School	-7%	20
Goodrell	-19%	11	Roosevelt •	-29%	21
Monroe	-39%	12	Hoyt	-11%	22
Hubbell	-17%	12	Lovejoy	0%	23
Oak Park	-6%	12	East	-7%	24
Carver	-5%	12	Park Ave	4%	24
Callanan	-27%	12	River Plaza	0%	24
Cattell	-10%	13	Studebaker	-18%	25
Aviation Lab	-17%	13	Lincoln	-8%	25
Willard	-16%	13	Merrill	71%	26
Capitol View	-32%	13	Edmunds	9%	26
Weeks	1%	14	McCombs	-31%	26
Howe	-1%	14	Walnut Street	-9%	28
Pleasant Hill	-9%	14	North	-2%	29
Cowles	-18%	14	Van Meter	-11%	30
Garton	-15%	14	Brody	-17%	31
Phillips	-13%	15	Smouse	-11%	32

- Building under construction prior year
- Building occupied during renovations
- ♦ Building unoccupied part of comparison YTD

Visit [www.dmps.k12.ia.us](http://www.dmps.k12.ia.us) for more details of the district’s energy mission and building performance.

Energy-related questions? E-mail [lisa.simpson@dmps.k12.ia.us](mailto:lisa.simpson@dmps.k12.ia.us).

