

What's the Buzz?

Could you imagine a day without electricity? Hubbell IB World School's 4th grade students learned what it would be like. According to Tim Schott, Principal at Hubbell, their fourth grade students studied an IB unit that is about how energy is harnessed, used, and conserved. So, as one way to jump start that inquiry all of their fourth graders went a day without any electricity at school.

Did You Know?

The U.S. Department of Energy (DOE) website has K-12 lessons and activities about energy efficiency and renewable energy for K-12 students. Visit their website at www.eere.energy.gov/education/.

ENERGY STAR® has an interactive page for "Bring Your Green to Work" with ENERGY STAR at www.energystar.gov and a kids link at www.energystar.gov/kids.

You can also find lots of useful information and lesson plans on the National Energy Education Development Project (NEED) website at www.need.org.

In support of Energy Awareness Month, you can visit the DMPS website to print or download media from ENERGY STAR and MidAmerican Energy. You can also click on the image (below or on our website) for the ENERGY STAR campaign Change the World, Start with ENERGY STAR to take the ENERGY STAR pledge.



Click the image or visit www.energystar.gov to take the pledge.

October is Energy Awareness Month



Five Reasons Why Teaching About Energy is Essential

- Educating the public, including students, about the economic and environmental importance of energy use is one of the best ways to help curb energy waste.
- Helping students understand all aspects of a particular energy source — its availability, benefits, and monetary, environmental, and social costs — will help them make informed decisions about energy at home and at work.
- Interest in the development of renewable energy sources is of high priority. Teachers who learn about the energy-efficient innovations can integrate news about new emerging technologies into their curriculum.
- Studying energy is an excellent way to introduce students to science concepts and processes included in the National Science Education Standards.
- Implementing energy-efficient lesson plans at an early stage of child development will provide long-term benefits, such as an increase in awareness and lower energy usage over time.

ENERGY STAR® & DMPS

"The annual energy bill to run America's primary and secondary schools is a staggering \$6 billion — more than is spent on textbooks and computers combined." Schools that are ENERGY STAR-qualified meet strict energy performance standards set by the EPA and use less energy, are less expensive to operate, and causes fewer greenhouse gas emissions than their peers.



To qualify for the ENERGY STAR®, a building must score in the top 25 percent based on EPA's National Energy Performance Rating System. For details on how the rating system works, visit www.energystar.gov. To determine the performance of a facility, EPA compares energy use among other, similar types of facilities accounting for differences in operating conditions, regional weather data, and other important considerations. For more information on ENERGY STAR for buildings, visit www.energystar.gov.

DMPS schools that have earned the ENERGY STAR label:

- | | | | | |
|-----------------|-------------------------|---------------|-------------------|-----------------|
| 1. Brubaker | 9. Goodrell | 16. Howe | 24. McKinley | 32. Samuelson |
| 2. Callanan | 10. Greenwood | 17. Hoyt | 25. Monroe | 33. South Union |
| 3. Capitol View | 11. Hanawalt | 18. Hubbell | 26. Morris | 34. Stowe |
| 4. Carver | 12. Harding | 19. Jefferson | 27. Moulton | 35. Weeks |
| 5. Cattell | 13. Hiatt | 20. King | 28. Oak Park | 36. Windsor |
| 6. Cowles | 14. Hillis | 21. Lovejoy | 29. Perkins | 37. Wright |
| 7. Findley | 15. Hoover/
Meredith | 22. Madison | 30. Pleasant Hill | |
| 8. Garton | | 23. McKee | 31. River Woods | |

It doesn't matter how old the school building is, with building upgrades and energy conservation strategies, all our schools can qualify for the ENERGY STAR. Central Campus has qualified and is in the application process .

Check It Out



From our Iowa Energy and Sustainability Academy (IESA) students:

IESA is off to a great start already! In September, to go along with our water section that we had been covering, the class went on a field trip to Water Works. We learned that our drinking water doesn't only come from the Des Moines and Raccoon Rivers, but also comes from the ground; rain falls and is treated through the ground's filtering. It falls into pipes and is treated in the microbiology lab and some other labs to get the water free of micro-organisms and bacteria. My personal favorite thing that we got to see was the microbiology lab. The class was able to view amoebas and other various microscopic creatures swimming around on a screen that was hooked up to the microscope.

~Courtney Wright, North High School

Down at Central Campus the new Iowa Energy and Sustainability Academy has been hard at work learning about the ways we clean our water and now starting out a biome unit. They attended a field trip to Des Moines Water Works, where they toured the facilities. But that's not all they do. The IESA class has officially made a new recycling program for Central Campus. In class they learn about our environment and the way the Earth keeps its balance. The program does not have very many students but are very welcoming to anyone who wants to join. Mr. Beall, a former Lincoln biology teacher, is in charge of this wonderful academy. IESA will be taking many field trips. This is an amazing chance to get to see sustainability in action. This is a very hands-on type of class. You learn so much about the environment and the world around us. So if you're thinking about joining, don't be shy. It's a great opportunity to get yourself informed.

~Written by Sara Jo McAninch, IESA Student

ENERGY REPORT CARD

YEAR-TO-DATE SITE ENERGY USAGE REPORT

July 1, 2010 – August 31, 2010

Percentage change as compared to the same time period from previous year
Ranked Lowest to Highest Energy User (measured in kBtu/sq ft)

Site	Total Energy	% Chg	kBtu/Sq Ft	Site	Total Energy	% Chg	kBtu/Sq Ft
Wright	23	-20%	1	Phillips	185	18%	4
McKee	40	54%	1	Hubbell	207	28%	4
Scavo @ Moore [■]	54		1	Willard	225	9%	4
McCombs				Oak Park	247	5%	4
Greenhouse	25	44%	2	Garton	276	-5%	4
Aviation Lab	30	-4%	2	Capitol View	286	-23%	4
Mitchell [■]	60		2	Brubaker	297	14%	4
Howe	73	116%	2	Monroe	331	7%	4
Cowles	76	22%	2	Weeks	466	4%	4
Casady	87	-22%	2	Callanan	476	22%	4
Hillis	115	12%	2	Lovejoy	162	-1%	5
Samuelson	127	9%	2	Jefferson	206	23%	5
Stowe	131	14%	2	McKinley	252	9%	5
Windsor	146	37%	2	Merrill	458	3%	5
Dean Oper Cntr [◆]	200		2	Hoyt	466	19%	5
Harding	235	-22%	2	Moulton	667	13%	5
Lincoln South	244	38%	2	Roosevelt [●]	1,282		5
Madison	123	35%	3	East	1,726	2%	5
Findley	135	3%	3	Central Campus [●]	2,091		5
Cattell	136	-13%	3	Welcome Center	39	2%	6
Perkins	146	5%	3	Edmunds	289	-6%	6
Hanawalt	149	4%	3	Smouse	310	41%	6
King	173	45%	3	Central Academy	527	10%	6
Morris	178	-9%	3	McCombs	558	7%	6
Park Ave	197	-18%	3	Hoover/Meredith	1,674	-9%	6
Greenwood	198	24%	3	Lincoln	1,763	2%	6
South Union	207	-4%	3	East Academy	391	74%	7
Hiatt	311	-40%	3	River Woods	440	7%	7
Carver	316	-2%	3	River Plaza	98	23%	8
Goodrell	369	6%	3	Studebaker	366	58%	8
North	675	-14%	3	Van Meter	474	15%	8
Pleasant Hill	139	16%	4	Brody	845	-5%	9
Jackson [■]	172		4	Walnut Street	1,121	-5%	10
Downtown School	183	-6%	4				

- Building under construction comparison year 2009-10
- ◆ Building unoccupied part of comparison year 2009-10
- Building occupied during renovations

Visit www.dmps.k12.ia.us for more details of the district's energy mission and building performance.
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.



Recognized by the U.S. EPA for the superior energy management of our schools

2010