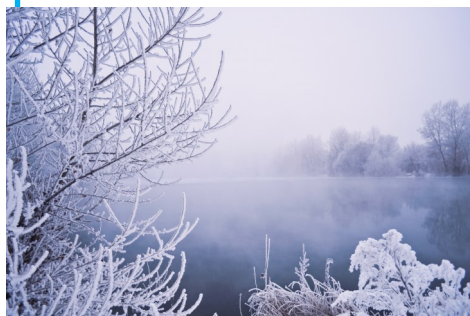


The District's energy usage for 2014-2015 is down 1% from last fiscal year, with Lincoln Rails and North leading the way in reduction once again. Let's keep up the good work and keep energy consumption down during these winter months. Flip to Page 4 to see where your building measures up.



DMPS has 62 facilities taking part in the EPA's 2014 Battle of the Buildings competition. Follow along with our progress at www.energystar.gov/BattleOfTheBuildings.



If your room is exceptionally cold, please have a custodian measure the temperature and put in a work ticket.

Unless they are district-issued, space heaters should NOT be used by any District staff for two major reasons:

- Against fire code
- Energy efficiency—the use of space heaters affects the way a building properly runs and creates problems.



Source: www.bls.gov

Fueling the Future

MidAmerican Energy

With all the talk about the increased availability and lower costs for natural gas, you may be wondering what it all means. Recent data show the impact:

- Compressed natural gas is becoming a popular fuel for the transportation sector. In the U.S., CNG refueling infrastructure has grown 60 percent since 2009, according to the American Gas Association (AGA).
- By 2015, the AGA believes shale gas extraction will account for 1.4 million jobs, \$197 billion in GDP and \$50 billion in government revenue.
- During the past year, public school districts, as well as state and local governments, saved nearly \$2 billion because of unconventional oil and natural gas development. The natural gas savings could be used to employ 5,450 additional teachers, according to HIS Global Insight.

Forecasting the Future—Here is what the experts are saying:

- The future supply of natural gas is estimated at 2,718 trillion cubic feet.
- Natural gas-fueled electricity will grow to 1.6 billion megawatt-hours by 2040 due to a 56% increase in the natural gas supply from new shale gas and other resources.
- Prices are expected to remain well below the peak market prices of the previous decade, ranging from \$4 to \$6.50 per MMBtu.

[Click here to read the full article from MidAmerican Energy.](#)



What's Happening in IESA

Iowa Energy and Sustainability is a program that teaches students everything there is to know about the environment, energy conservation, management and sustainability. This program helps students learn through hands-on and project-based work. Over the first semester, the class learned about the different energy types and their uses. While learning about energy, students go to work with their very own framed solar panels.

In the upcoming semester, the students of IESA will develop an understanding of the environment we live in today and take a look at sustainable movement. They will learn about the role of creating a sustainable lifestyle and understand the effects of their own lifestyle through

Eco-Footprints and Carbon Footprints. Students will also be taught ways to conserve and protect supplies and preserve our environment. By the end of the year, students will know the concepts of sustainable living and development. As a part of these expectations, students will be able to create an energy audit for their home that will help to find ways to improve the amount of daily energy used. Throughout this program, students will be educated with the knowledge of creating a sustainable lifestyle that will impact their everyday lives.

Megan Rutherford
Lincoln High School

Earth Day

Frannie Nielson

Every year on April 22, the earth is celebrated for its beauty and importance. Through activities and participation, people raise awareness about the earth and the events affecting it. Awareness about the effects of air and water pollutants, pesticides, and other harm toward the earth began in the 1960s. Scientists and environmentalists were concerned with events like the 1969 Cuyahoga River fire and the oil spill in Santa Barbara.

Today, Earth Day is still celebrated. Everywhere, projects are planned to improve the environment. In the past, Des Moines has scheduled an event called "Earth Day Trash Bag," where volunteers gather to collect trash and recyclables. There are also smaller events that help the environment like starting a garden or planting trees.

In IESA, the students prepare for Earth Day with an assignment. They are asked to do an upcycling project. Upcycling means to re-use discarded materials to create a product of a higher quality or value than the original. This assignment teaches the students how to waste less, which is helpful to the environment.



The Iowa Energy and Sustainability Academy class is full of project-based work. Throughout the semester, students have done many hands-on works including building a wind generator, hydrogen fuel car, recycling buildings in the area and etc. Students have learned about the different types and energy and their uses. A major project students have done this semester is building their very own solar panel. Our students have gained more knowledge about craftsmanship, mechanical skills and renewable energy.

IESA also strives to better the environment by recycling both buildings, Central Campus and Central Academy, once a week. Recycling is a student-lead activity which teaches us responsibility and collaboration and gives us an opportunity to contribute in helping the environment. Each week, we do an average of 1,000 pounds of paper and bottles. In addition to doing bottles and paper, we also recycle electronics such as digital cameras and ink toner.

Alexis Cam
Lincoln High School



ENERGY REPORT CARD

SITE ENERGY USAGE REPORT: November 2014

Percentage change compared to same time period of previous year

*kBtu/SqFt for period of Nov. 2013-Nov. 2014

Site	Total Energy (MBtu)	kBtu/SqFt*	% Chg	ENERGY STAR Score		Site	Total Energy (MBtu)	kBtu/SqFt*	% Chg	ENERGY STAR Score	
Lincoln Rails	519	N/A	-45.4%	66		Weeks	504	51.4	2.6%	*94	
North	1,096	65.2	-43%	*82		Brubaker	226	32	2.9%	*94	
Van Meter	554	106.1	-18.8%	33		Callanan	473	41.8	3.6%	*91	
McKinley	230	56.9	-12.5%	*82		Walnut Street	773	75.8	3.8%	32	
McKee	78	18.5	-10.2%	*98		River Woods	354	62.6	4.9%	*79	
Windsor	137	28.8	-9.5%	*92		Roosevelt	1,904	84.7	5.5%	54	
Central Campus	3,359	75.4	-8.6%	*79		Morris	167	25.9	5.5%	*97	
Lincoln	2,386	78.1	-8.4%	*77		McCombs	454	45.7	6%	*92	
Jefferson	134	35.2	-8.2%	70		Prospect	656	N/A	6.3%	N/A	
Smouse	690	123.2	-7.9%	45		Stowe	160	46.7	6.6%	69	
East	2,832	85.9	-7.1%	66		Studebaker	156	45.2	8%	*80	
Madison	144	40.2	-6.4%	*94		Woodlawn	121	23.4	8.2%	N/A	
Perkins	144	29.8	-6.3%	*95		Mitchell	105	37.8	8.3%	68	
Jackson	124	31.4	-4.7%	*96		Dean Operations Center	420	N/A	8.5%	N/A	
Cattell	204	50.3	-4.5%	*96		Cowles	195	45.5	8.9%	59	
Findley	151	32.6	-4.1%	*91		South Union	187	32.1	10.1%	*94	
Edmunds	134	21	-3.1%	*96		Wright	116	38.3	10.3%	*78	
Howe	125	36.5	-2.9%	*78		Willard	310	49.5	13.2%	*85	
King	110	25.6	-2.5%	*97		CNC	1,414	N/A	13.6%	N/A	
Greenwood	184	30.8	-2.3%	*91		Pleasant Hill	104	25.8	13.6%	*96	
Hanawalt	139	35.1	-1.5%	*91		Merrill	634	55.1	13.7%	*96	
Central Academy	494	43.7	-1.4%	74		Phillips	276	N/A	14.6%	*75	
Park Avenue	192	32.4	-0.9%	*95		Goodrell	321	29.8	15.8%	*94	
Lovejoy	148	43.9	-0.6%	*76		Hiatt	377	34.2	16.1%	*84	
Aviation Lab	87	N/A	-0.2%	N/A		Moore (Scavo)	370	N/A	24.9%	*75	
Oak Park	190	34.9	-0.1%	*89		Brody	814	69.8	28.5%	*80	
Hubbell	279	54.5	0.4%	*83		Moulton	962	66.9	38.2%	*85	
Capitol View	330	46.3	0.4%	*95		Welcome Center	55	N/A	41.6%	N/A	
Monroe	488	62.3	1.2%	*82		Samuelson	212	37.8	43.4%	*85	
Hoyt	666	65.8	1.4%	*91		Walker Street	277	N/A	57.5%	38	
Carver	210	25.2	1.7%	*93		Garton	308	51	57.5%	59	
Harding	556	42	2.1%	*92		Hillis	250	31.5	75.7%	*94	
Hoover/Meredith	1,900	64.4	2.2%	*80		*Only buildings with a score of 75 or higher are eligible to apply for ENERGY STAR certification.					

- Increase in energy use
- Maintained usage within 10%
- Decrease in energy usage

Visit www.dmschools.org for more details of the district's energy mission and building performance. Do you want to share your ideas for saving energy or helping our environment? Or want to let us know about your projects? Tell us about it! Email Michelle.Chalkey@dmschools.org