

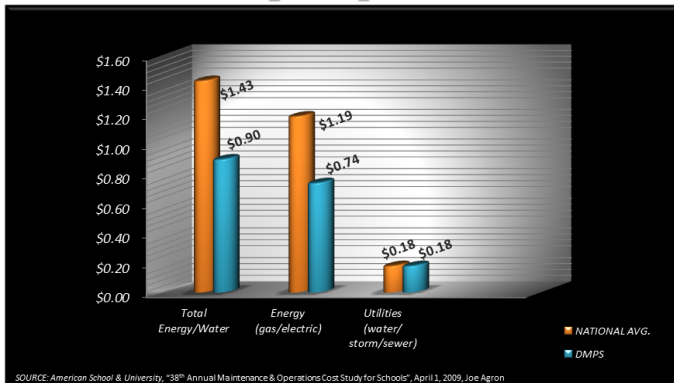


The U.S. Environmental Protection Agency (EPA) has named Des Moines Public Schools as a 2013 ENERGY STAR Partner of the Year for strategically managing and improving the energy efficiency of its entire building portfolio, which totals more than 5.5 million square feet at over 60 facilities throughout the city.

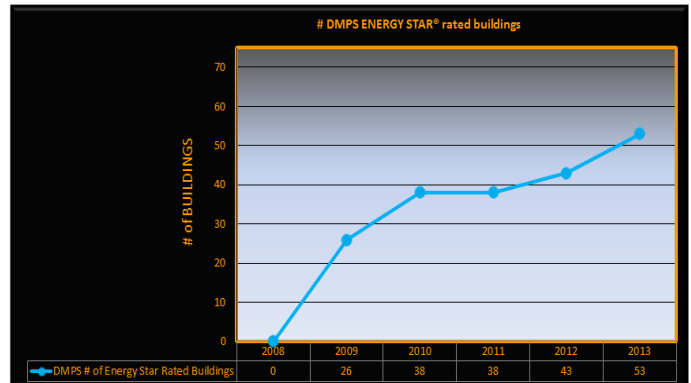
Through its partnership with the ENERGY STAR program, Des Moines Public Schools has improved its energy performance, saved money and helped to protect the environment for future generations. Des Moines Public Schools is the largest provider of public education in Iowa, with more than 32,000 students and nearly 5,000 employees.

This is the second year in a row Iowa's largest school district has earned the EPA's top award for ENERGY STAR partners. Des Moines Public Schools is also the only school district in the nation to be a repeat recipient of the award this year. Read the full article [here](#).

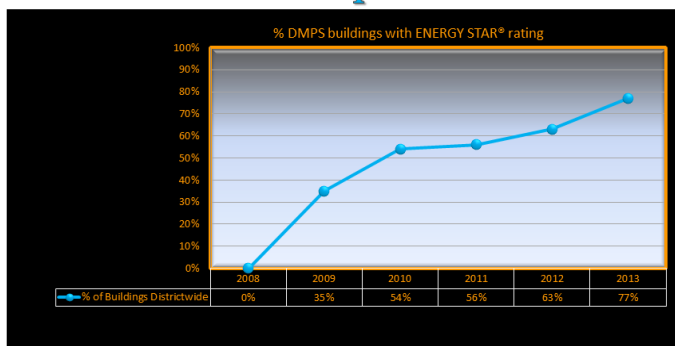
## Annual Cost per sq.ft.



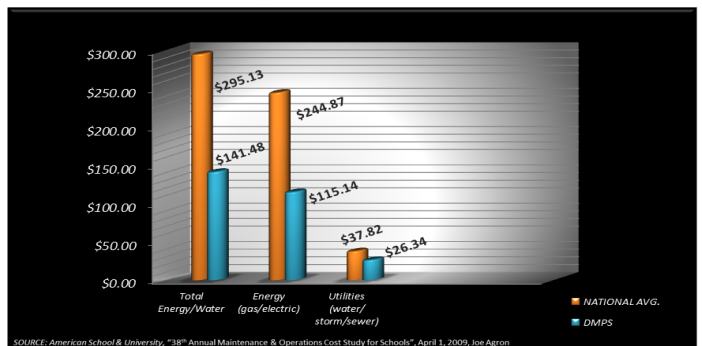
## ENERGY STAR® DMPS Report Card



## ENERGY STAR® DMPS Report Card



## Annual Cost per student





Our IESA class got a new room after winter break and we all really enjoy it. There are two classrooms and we have boards all over the rooms to keep us organized and keep us up to date on what to do. We

have pictures of all of the people and things we are doing tid bits on. We also have projectors on the ceiling so we can watch videos or do presentations. We got all new computers and they work great. There is a lot more space and we got all new furniture.

We have display cases outside of our room and each student is going to make a project to put in them. Our class is trying to go almost paperless so each student has their own flash drive now. Mr. Beall got us flash drives and mouse pads with our class logo on it which is really cool.



Our class invites anyone to come see our new room. The room number is 1606 and 1608 on the first floor.

**Anna Romeo—Lincoln HS**

Today in IESA Mr. Beall gave us the project of proving his hypothesis wrong for the Easter Islands. Mr. Beall made up the hypothesis that said "The forest was lost due to natural climate changes." Our job is to prove Mr. Beall right or wrong, well he is wrong. The hypothesis was brought up by the mystery of why Easter Island does not have trees.

After I did my research I figured out that Easter Island does not have trees because the Pacific Islanders that lived there before cut down all of the trees and did not replant any so they ran out of resources. Therefore the Pacific Islanders just left.



They left in 1888, and left all 887 statues there. You would think that if they were smart enough to build those big stone sculptures they would be smart enough to replant a tree maybe?

We are also doing a project in class where we have to bring in all different types of plastics because we are going to be doing a lab and examining them. Mr. Beall also went over all the different types of plastics and we are going to examine those in the lab too.

**Sam Munsell—Lincoln HS**

### Plastics lab in IESA

In Iowa energy and sustainability our class learned the importance of plastics. We did a plastics lab which helped us learn that there are 7 different types of plastics. Our class had to gather plastic items a few weeks before starting the lab. There are some that are good for the environment, and some that are harmful. During our lab we used a dichotomous key (divided or dividing into two sharply distinguished parts or classifications) to determine what types of plastics we were dealing with.



During our lab we used various steps to determine what types of plastics we had. Our instructor, Mr. Beall explained the steps thoroughly, these steps include:

- ◆ Gathering the plastic samples and laying them into a cup a water and observing if they sink or float. (water has a density of 1.00)
- ◆ Depending on if it sinks or floats, this helps us if we need to do a copper wire test, or a cottonseed oil test.
- ◆ Copper wire test helps determine if it's a type 3, type 6 or type 1. The copper wire test consisted of using one end of the copper wire to attach to the plastic and the other end was put into the fire. If the flame was green it was a type 3 plastic. If the flame was orange we had to do an acetone test.
- ◆ If the plastic floats in the water, we had to do the cottonseed oil test. The cotton seed oil is slightly less dense. (0.926) if the piece of plastic sinks to the bottom of the cup, it is a type 2 plastic. If the plastic partly sinks it is a type 4 plastic. If it floats in the cottonseed oil, we had to do an acetone test.
- ◆ The acetone test is where we dropped the piece of plastic in and let it sit for a second and saw whether it had a reaction or not. If it had a reaction then it was a type 6 plastic.

When our class completed the lab our instructor, Mr. Beall checked to see if we had identified the right type of plastic. There are 7 different types of plastic. We only had 6 to work with. The reason why we didn't have a type 7 plastic is because type 7 is very tough and thick. An example of a type 7 plastic is a large heavy water cooler jug. The type 7 plastic is very harmful to our environment; it is the hardest to decompose.

**Amber Noorwood & Mykayla Powell  
Lincoln High School**

**SITE ENERGY USAGE**  
**JULY 2012 – JANUARY 2013**  
 Percentage of change as compared to same time period from previous year

## SCORECARD

TOUCHDOWN		1ST AND GOAL		OFFSIDE	
Site	% Chg	Site	% Chg	Site	% Chg
Studebaker	-66.80%	Windsor	-8.00%	Findley	36.70%
Lovejoy	-31.90%	Carver	-5.60%	Brubaker	28.30%
Moulton	-16.40%	Oak Park	-5.50%	Pleasant Hill	24.50%
Morris	-15.40%	Jackson	-5.20%	Hanawalt	21.10%
Edmunds	-13.00%	King	-4.30%	River Woods	16.70%
		Casady	-3.30%	Samuelson	11.10%
Hiatt	-57.70%	McKinley	-3.10%	Cattell	11.10%
McCombs	-48.00%	Cowles	-2.80%	Park Avenue	10.00%
		Capitol View	-1.60%	Hillis	9.70%
Hoover/ Meredith	-24.60%	Monroe	-1.00%	Wright	9.30%
Moore (Scavo)	-14.80%			Phillips	7.20%
Roosevelt	-10.50%	Goodrell	-9.40%	Woodlawn	7.00%
		McCombs GH	-3.70%	Garton	6.90%
				Perkins	5.30%
		North	-8.60%	Madison	5.00%
		Walker Street	-4.90%	Smouse	4.40%
		Central Campus	-4.00%	Stowe	3.80%
		Central Academy	-2.40%	South Union	3.40%
				McKee	3.40%
		CNC	-9.40%	Hubbell	3.30%
		Prospect	-0.70%	Greenwood	2.30%
				Willard	0.30%
				Brody	19.00%
				Merrill	17.50%
				Hoyt	16.00%
				Callanan	11.20%
				Harding	7.60%
				Weeks	3.90%
				Van Meter	12.40%
				Aviation Lab	10.40%
				Kurtz	9.40%
				East	3.20%
				Lincoln	1.40%
				Dean	17.60%
				Walnut Street	17.10%
				Welcome Center	7.80%

Blue indicates ENERGY STAR® labeled buildings  
 \* Buildings under construction during same time period last year

Visit [www.dmschools.org](http://www.dmschools.org) 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: [brenda.walker01@dmschools.org](mailto:brenda.walker01@dmschools.org)