

Watt's Up?

Here are some Internet sites that have resources like lesson plans that you may want to use in your classroom.

[EPA Water Education](#)

[GroundWater Foundation - Education](#)

[Geology.com - Education](#)

[Project Wet](#)

[Rio Grande Interdisciplinary Curriculum](#)

(for 7th grade, but can be adapted)

[Water Footprint Network](#)

[WaterSense - EPA Partnership](#)

Click on the following link which will offer even more opportunities for energy education:

www.epa.gov.



ENERGY AWARENESS MONTH



IESA FIELD TRIP



Target Field-Alysia Vongsaly

On our trip to Minneapolis, after stopping by Mall of America the other day, we went to Target Field. Target Field is located in downtown Minneapolis. This beautiful field opened in April 12, 2010 costing \$522 Million. Target

Field is not only the Major Leagues newest ball park it is also the greenest. This field was awarded LEED silver certification by the U.S. Green Building Council. We met with an Engineer in charge of LEED, she explained the basics of LEED and how Target Field worked with saving energy, I was impressed to know how much energy they saved by the little things they did. It was an amazing experience to be in the field. I learned a lot of different things going to the Target Field, I would be glad to go watch the Twins play in this wonderful green field.

The Des Moines Public Schools (IESA) has received a \$43,000 grant from the Iowa Power Fund to support the project-based energy and environmental science class. In its second year of existence, IESA currently has 25 students enrolled in the 2-year program.

Check it out...

What's new from our students

By Annie Brown, IESA Student

October Energy Report

Walnut Iowa Wind Farms

October 8, 2011 our class visited the Walnut Iowa Wind Farms. We got to go inside one of the wind turbines (number 34 to be exact). Each turbine is approximately 263 feet tall. The smallest turbine is at the Iowa State Fair and that cost approximately 1,000,000, (million) dollars!

Working with or inside the turbines is a very dangerous job. From what we've been told it's definitely not the place to be playing games. All the workers get trained, not only to learn the ropes, but also knowing what to do if there was ever an accident. They have drills frequently.

A very famous question workers get asked frequently from students, or from anyone that's visiting is "What is the rate at which birds die from interacting with the wind turbines"? Well, the wind turbines have the lowest rate at which birds die. In one year there is approximately 10,000 to 40,000 bird deaths from interacting with wind turbines. I know that sounds like a lot but compared to other man-made structure/technology such as power lines which kills approximately 130 million-174 million per year, its not that much.

This concludes this report. Walnut Iowa Wind Farms is very fun and educational. I wouldn't mind visiting it again and learning more.



YEAR-TO-DATE SITE ENERGY USAGE REPORT

July 1, 2010 – June 30, 2011

Percentage change as compared to same time period from previous year.

Site	Total Energy (mBtu)	% Chg	Site	Total Energy (mBtu)	% Chg
Woodlawn	516	-65%	Aviation Lab	780	1%
Park Avenue	2,140	-64%	South Union	1,829	1%
Madison	1,526	-51%	Lovejoy	2,560	1%
Howe	1,229	-42%	Stowe	1,325	1%
Wright	951	-39%	CNC	13,320	1%
Garton	2,330	-29%	Greenwood	1,778	1%
Merrill	7,011	-22%	Roosevelt	30,001	2%
Windsor	1,560	-21%	Weeks	4,634	2%
Pleasant Hill	1,637	-17%	McKinley	2,548	2%
East	25,086	-14%	Brubaker	2,405	2%
Mitchell	1,012	-13%	Hoyt	7,757	3%
Brody	8,493	-13%	Callanan	4,587	4%
Walnut Street	7,492	-11%	Samuelson	1,855	4%
Cowles	2,583	-11%	Carver	2,469	4%
Central Campus	29,901	-9%	Hanawalt	1,387	5%
Goodrell	3,346	-9%	McKee	767	5%
Harding	7,570	-9%	River Woods	3,384	5%
North	22,032	-8%	Perkins	1,604	6%
Morris	1,622	-7%	Lincoln	25,705	6%
Central Academy	4,808	-7%	Hillis	1,553	8%
East Academy	3,050	-7%	King	1,413	9%
Hubbell	2,478	-6%	Van Meter	6,107	10%
Edmunds	3,702	-6%	Monroe	4,107	10%
Hiatt	7,578	-5%	Studebaker	4,007	10%
Capitol View	3,023	-5%	Prospect	8,344	11%
Hoover/ Meredith	21,359	-5%	Casady	3,160	17%
McCombs	7,806	-5%	Moore (Scavo)	3,090	18%
Willard	2,780	-4%	McCombs		
Cattell	1,877	-4%	Greenhouse	1,460	27%
Smouse	6,128	-3%	Oak Park	2,643	28%
Lincoln South	7,928	-3%	Moulton	10,315	35%
Jefferson	2,374	-2%	Findley	3,302	61%
Phillips	2,311	-1%	Oper. Center ◊	4,077	
Welcome Center	431	-1%	Jackson ◊	1,472	

■ Building under construction comparison year 2009-10
● Building occupied during renovations

◊ Building unoccupied part of comparison year 2009-10
ENERGY STAR labeled building

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 stephanie.burkhal@dmps.k12.ia.us.



Key

Increase in energy use
Maintaining energy use
Decrease in energy use