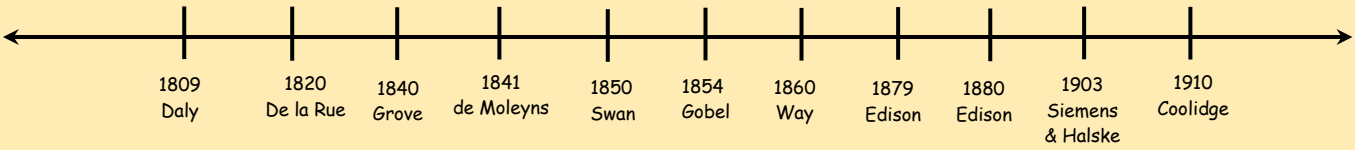
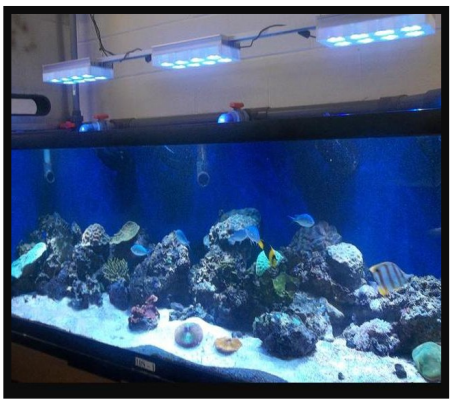
DesMoines PUBLIC SCHOOLS

ENERGY REPORT CARD

JANUARY 2013

TIMELINE OF THE LIGHT BULB





LED

For more information:

1. Who invented the first lightbulb?
2. What does the acronym LED represent?
3. How do LED bulbs earn an ENERGY STAR® rating?

LED Light Donation

The aquarium science class here at Central recently received a big donation of LED lights. Thanks to Aqua Illumination, the class is now helping Central's 'green' initiative. The company donated 22 modules, after first promising 9. Not only did Aqua Illumination donate these LED lights, they also installed all the aircraft cable hanging systems and digital controllers.

The cost of each module would usually be $500, along with the labor costs, and the cost of the fixtures, would bring the total to around $14,000. The new light fixtures will save the aquarium science around $15,000 annually.

Each light module consumes 90 watts of electricity, which replaces the previously installed 250 watt metal Halide lights. For 22 lights, that is 3,250 watts saved every hour. These lights run 365 days a year for 12 hours a day. Another advantage of the lights is they run cool while operating, which could slightly lessen the air conditioning bill. These lights will last the class for 10 to 15 years, without being replaced. No lights to replace will also reduce how many light bulbs are being thrown away.

These LED lights are used to grow coral and provide light for a natural type setting for the fish. Contrary to the previously installed lights, the LED light's intensity can be adjusted. They can also program the light settings to benefit the fish.

Zachary Cook, Lincoln High School
Jared Herzog, Lincoln High School

BEFORE

LED	
Reduced Energy	Current lighting - 400 watts LED lighting - 75 to 100 watts
Reduced Maintenance	Typical lifespan - 50,000 hours
Better Light Quality	More natural color - not yellow
Less Light Pollution	

AFTER

DMPS utilizes LED lighting to enhance lighting at building/parking areas as well as to reduce energy costs and lessen the impact of light pollution

SITE ENERGY USAGE

JULY 2012 – NOVEMBER 2012

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

SCORECARD

TOUCHDOWN		1st and Goal		OFFSIDE	
Site	% Chg	Site	% Chg	Site	% Chg
Hoover/ Meredith	-28.80%	Roosevelt	3.80%	Aviation Lab	29.10%
Moore (Scavo)	-15.80%	Lincoln	0.80%	Kurtz	12.30%
Central Academy	-9.40%				
North	-8.90%	Callanan	10.80%		
Van Meter	-8.00%				
Walker Street	-5.40%	Brubaker	10.40%	McCombs GH	39.50%
Central Campus	-3.20%	Perkins	9.70%	Brody*	29.50%
East	-1.40%	Pleasant Hill	8.60%	Merrill*	20.40%
		Cattell	7.30%	Hoyt	17.50%
Hiatt	-53.30%	Woodlawn	7.10%	Harding*	13.50%
McCombs	-39.90%	Madison	6.70%	Weeks	12.10%
Goodrell	-13.80%	Hanawalt	6.50%		
		South Union	5.90%	Samuelson	24.90%
Studebaker	-72.30%	Stowe	4.80%	River Woods	21.60%
Lovejoy	-38.70%	Park Avenue	4.20%	Findley	15.30%
Jefferson	-25.60%	Garton	1.70%	Wright	11.70%
Moulton	-23.90%	Hubbell	1.40%		
Casady	-23.20%	Greenwood	0.60%	Walnut Street	22.70%
Howe	-22.20%				
Monroe	-14.10%	Dean Operations	7.50%		
Edmunds	-12.30%	Welcome Center	4.70%		
Morris	-12.10%	Prospect	0.60%		
Oak Park	-9.90%				
McKinley	-9.60%				
King	-8.20%				
Carver	-7.20%				
McKee	-6.60%				
Capitol View	-6.50%				
Jackson	-2.80%				
Mitchell	-2.60%				
Windsor	-2.30%				
Smouse	-2.00%				
Phillips	-1.80%				
Willard	-0.90%				
Cowles	-0.80%				
Hillis	-0.20%				
CNC	-16.70%				

Blue indicates ENERGY STAR® labeled buildings

* Buildings under construction during same time period last year

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