Readington Middle School Case Study

Readington, Hunterdon County, NJ Jodi Bettermann, Energy Efficiency Coordinator

Readington School District

- Located in Hunterdon County, Central New Jersey
- * Suburban location
- * Includes four schools: two K-3 schools, one 4-5th grade school and one 6-8th grade middle school
- * Approximately 1700 students in district

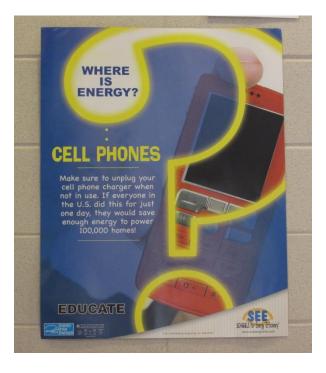
Energy Program history

- * June 2011 performed LGEA audit of facilities
- * October 2012 joined Schools for Energy Efficiency (SEE) program
- Hired district Energy Efficiency Coordinator and formally began energy program
- * September 2015 received Sustainable Jersey for Schools certification for all district schools

Energy Awareness Campaign

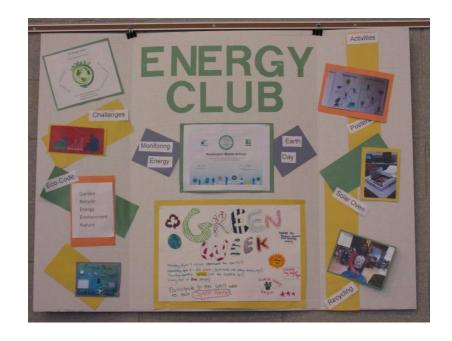






Staff & Student Involvement

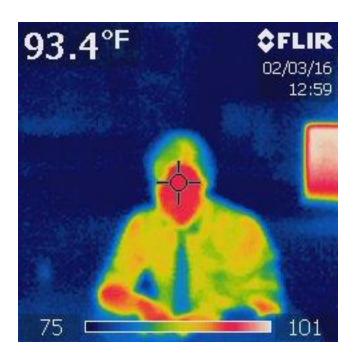




Energy Education

6th Grade Science class Infrared light investigation





Energy Tracking

YEAR 3 ENERGY SAVINGS: Dec. 2014 - Nov. 2015					
BUILDING	% CHANGE ELECTRIC	% CHANGE NAT GAS	% CHANGE TOTAL ENERGY (BTU)	% CHANGE ELECTRIC DEMAND	AVOIDED COST
Holland Brook School	-21%	-2%	-10%	-6%	\$35,276
Readington Middle School	-17%	-16%	-17%	-13%	\$37,715
Three Bridges School	-20%	0%	-7%	-15%	\$13,162
Whitehouse School	-20%	10%	-2%	-15%	\$12,898
Grand Total	-20%	-4%	-10%	-11%	\$99,050

Energy Efficiency Project

- * November 2013 December 2014 window and door replacement project at Readington Middle School
- * Was identified in the LGEA audit
- * Energy tracking and management allowed us to see the energy savings in the building

Readington Middle School Window Replacement Project

Before After





Readington Middle School Window Replacement Project

Before After





Energy Efficiency Actions

- * Energy Audit LGEA
- Energy Tracking and Management
 - Input information from utility bills into energy tracking software
- Building Efficiency Measures
 - Window project closed building envelope
 - * Baseline energy use data before project
 - Energy use data after project completion

Summary

- * Window replacement project and behavior modification resulted in decrease in energy usage at Readington Middle School
- * Energy Use Intensity (EUI) decreased by 3%

Thank you.

Questions? Contact Jodi Bettermann at jbettermann@readington.k12.nj.us