

Monday, 9.26.11

Dear Teachers, Staff, Students, Principals, Custodians, and Administration--

Hello all, Please take a moment to read and share the attached press release from Superintendent Young regarding the launch of CGSI--Cambridge Green Schools Initiative. Also, we have completed several successful energy-efficiency projects in collaboration with DPW, NStar, and Prism Energy. Savings data is below.

Have a great week. -Kristen

- Tip of the Week: When printing large text files, reduce font size to save paper and ink. **Why?** *Because this saves energy and valuable resources.*
- Walk / Ride Days (Green Streets Initiative): Next Walk/Ride Days is **THIS FRIDAY**, September 30th. *Bike, walk, or use public transportation.* <http://www.gogreenstreets.org/>
- Summary of Schools' Energy-Efficiency Projects – Usage and Cost Savings
 - The Cambridge Public School Department in partnership with DPW, the DOER Green Communities Grant Program, NSTAR Electric, and Prism Energy has implemented over the past two years and continues to implement energy efficiency projects to reduce usage and save money. The focus has been on implementing energy efficiency activities by means of Lighting and HVAC Measures. Lighting upgrades have consisted primarily of the installation of high efficiency lamps, ballasts and occupancy sensors by means of retrofitting existing lighting fixtures. HVAC projects have related to the installation and upgrade of heating and cooling mechanisms and DDC (direct digital control) systems that allow for more control over systems being turned on/off, and temperature control, thus enabling greater energy savings.
 - Over the past two years the City has completed the following energy efficiency projects with the schools. The Longfellow School installed a high efficiency condensing boiler. The new boiler replaced inefficient and failing equipment. The Baldwin School, Haggerty School, Kennedy-Longfellow School, and Peabody School have installed high efficiency lighting and occupancy sensors. The new lights use 20%-50% less electricity than the old ones, and occupancy sensors, installed where appropriate, add to the savings by turning off lights when rooms are vacant. Rooms are brighter too, due both to the color of the new lamps and because output from old bulbs decreases over the years. Specifically, Peabody School has a total yearly estimated savings of 87,207 kWh / \$13,081.02; Kennedy Longfellow School: 169,888 kWh / \$25,483.20; Haggerty School: 77,978 kWh / \$11,696.65; Baldwin School: 61,139 kWh / \$9,170.78. All together, these projects total an estimated **yearly savings of 396,212 kWh and \$59,431.65.**
 - At present, the schools are almost complete with a district-wide DDC integration, which allows for a centralized and more efficient means of digitally controlling HVAC systems within the schools from remote locations. With the finished implementation of this

project, the schools will now have a total yearly estimated savings of the following amounts: Cambridgeport School: 11,842 kWh / \$1,746; Graham & Parks School: 16,600 kWh / \$2,490; King and Amigos School: 34,721 kWh / \$5,208; King Open School: 8,395 kWh / \$1,259; Baldwin School: 9,169 kWh / \$1,375; Kennedy-Longfellow School: 17,981 kWh / \$2,697; Morse School 10,486 kWh / \$1,573; Tobin School: 33,646 kWh / \$5,047; Peabody School: 28,336 kWh / \$4,251. All together, this project totals an estimated **yearly savings of 171,176 kWh and \$25,646.**

- Upcoming projects, some of which have just begun, include lighting retrofits to the War Memorial Recreational Building (part of the high school), the Morse School, and the Solomon Garage (office/media/student building). Specifically, these projects will result in a total yearly estimated savings of the following amounts: War Memorial: 185,000 kWh / \$27,750.06 (will prevent 286,751 lbs/year of CO₂); Morse School: 117,840 kWh / \$17,675.99 (will prevent 182,652 lbs/year of CO₂); Solomon Garage: 11,054 kWh / \$1,658.03 (will prevent 17,133 lbs/year of CO₂). All together, this project totals an estimated **yearly savings of 313,894 kWh and \$47,084.08.**
- *Together, these projects total on estimated yearly savings of 881,282 kWh and \$132,161.73.*

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