

## Energy Efficiency Program and Results

### Highlights:

- **Overall energy consumption reduced by 15%**
- **Annual savings of \$75,000**
- **Energy rider assessments of up to \$300,000 likely will be exempted for implementation of energy efficiency programs**

The school district wanted to improve energy efficiency to capture both monetary savings and to be “green” in terms of energy consumption and its related pollution.

The Buildings & Grounds committee (comprised of board members Bill Selong and Amy Huntley; Clinton Keener, Superintendent; Daryl Stumph, Director of Operation; and Dave Newsome, Maintenance Supervisor) met several times and developed a plan.

The plan evaluated energy use by recording all consumption into the Energy Star program which norms your use with similar facilities in a similar geographic area. The analysis identified a need to seek energy controls which give the district tools to use setbacks in unoccupied times and to better utilize the boilers during occupied times.

The district has reduced consumption substantially in the high use buildings namely the Middle School and the High School. Please refer to the Energy Star portfolio analysis (next page) which illustrates district wide energy reduction of 15.3% and individual building reductions of 22.7% for the high school and 15.4% for the middle school.

The high school is approaching Energy Star award status as any building that reaches a ranking of 75 qualifies as highly efficient. Overall, the district was rated 33 three years back and with the implementation of controls and increased monitoring and maintenance the district energy rating has been raised substantially to a rating of 51. The district is limited with improvement options at Normandy and Westerly as both facilities are steam heat.

The reductions will likely help the district qualify for an energy rider fee exemption. High use facilities that do not decrease consumption by 20% from now through 2025 will be accessed a fee as high as \$10,000 per year per facility for 15 years. The district savings if full exemption is reached may be as high as \$300,000.

In addition, the estimated savings in utility costs from the 15% overall district reduction in consumption is \$75,000 per year as the cumulative electric and gas costs for Bay High , Bay Middle, Normandy, and Westerly are typically \$500,000 per year.

--Daryl Stumph, Director of Operations  
January 24, 2011



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Portfolio Averages	
<b>Baseline Rating: 33</b> Facilities Included: 6	<b>Current Rating: 51</b> Facilities Included: 7
<b>Change from Baseline: Portfolio Adjusted Percent Energy Use (%): -15.3%</b> Facilities Included: 6	
Averages are weighted by Total Floor Space. More about Baselines More about Change from Baseline: Adjusted Energy Use	

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All # A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Facility Name <input type="checkbox"/>	Current Rating (1-100) <input type="checkbox"/>	Change from Baseline: Adjusted Energy Use (%) <input type="checkbox"/>	Total Floor Space (Sq. Ft.) <input type="checkbox"/>	Energy Use Alerts <input type="checkbox"/>	Current Energy Period Ending Date <input type="checkbox"/>	Eligibility for the ENERGY STAR <input type="checkbox"/>	Last Modified <input type="checkbox"/>
Bay Glenview Pre-school	54	6.6	26,340		10/31/2010	Not Eligible: Rating must be 75 or above (ENERGY STAR Eligibility Rules)	01/19/2011
Bay High School	69	-22.7	187,687		10/31/2010	Not Eligible: Rating must be 75 or above (ENERGY STAR Eligibility Rules)	01/19/2011
Bay KT Allen BOE	55	-14.4	8,091		10/31/2010	Not Eligible: Rating must be 75 or above (ENERGY STAR Eligibility Rules)	01/19/2011
Bay Maintenance Building	N/A	N/A	9,000	Less than 1 year of data;		Not Eligible: Rating must be 75 or above (ENERGY STAR Eligibility Rules)	10/26/2007
Bay Middle School	42	-15.4	144,000		11/30/2010	Not Eligible: Rating must be 75 or above (ENERGY STAR Eligibility Rules)	01/19/2011
Bay Normandy	30	-7.6	58,670		10/31/2010	Not Eligible: Rating must be 75 or above (ENERGY STAR Eligibility Rules)	01/19/2011
Bay Westerly	29	-6.2	42,221		10/31/2010	Not Eligible: Rating must be 75 or above (ENERGY STAR Eligibility Rules)	01/19/2011
Sample Facility	56	N/A	15,000	Data > 120 days old	07/31/2007	Not Eligible: Rating must be 75 or above (ENERGY STAR Eligibility Rules)	10/26/2007

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All # A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

The rating is calculated by using the last day of the latest full calendar month where all meters in the facility have meter entries; the Period Ending date reflects that particular date.