

# ELK RAPIDS SCHOOLS

## ENERGY EFFICIENCY - Details

The following shows efforts towards recognizing and addressing rising energy costs within the district. Further down, the energy efficiency project is outlined.

- 1 Fall 2006 - District learns that electricity rate increases are coming in January 2007
- 2 2/14/07 - Energy Essentials Seminar attended by Business Mgr, Facilities & Tech Director
- 3 2/28/07 - Via grant-funded program State performs IEE (Introductory Energy Evaluation)
- 4 April 2007 - Results of IEE shared with buildings through staff meetings
- 5 5/31/07 - District employees solicited to describe room environment. 27 responded
- 6 July 2007 - Building security lighting is rewired. Bathroom and lounge sensors installed
- 7 8/22/07 - Launched a proposal request to 3 qualified firms to perform an in-depth study
- 8 9/7/07 - Deadline for "study" proposals. Each evaluated by Facilities & Finance Committee
- 9 10/22/07 - Board approves Sheren Energy Services proposal to perform energy study
- 10 1/28/08 - F&F Committee discusses findings with Sheren. Presentation given at Board Mtg

### *Energy Efficiency Project (Sheren Study)*

#### *Selected Recommendations*

- Energy Management System
- Lighting Conversions in gym and multi-purpose rooms
- Variable Frequency Drivers - air handlers
- Variable Frequency Drivers - on comfort heating pumps
- Upgrade domestic hot water heating
- Compressor replacement for freezers & coolers (Food Svc)

\$	150,147	<b>High School (108,639 sq ft);</b> <b>2006 energy star score of 31 (out of 1 to 100)</b>  SAVINGS (heating & elect) = <span style="float: right;"><b>17,244</b></span> per year	
	98,271	<b>Cherrland Middle School (62,000 sq ft)</b> <b>2006 energy star score of 38 (out of 1 to 100)</b>  SAVINGS (heating & elect) = <span style="float: right;"><b>13,194</b></span> per year	
	67,282	<b>Lakeland Elementary (44,617 sq ft)</b> <b>2006 energy star score of 33 (out of 1 to 100)</b>  SAVINGS (heating & elect) = <span style="float: right;"><b>8,637</b></span> per year	
	64,643	<b>Mill Creek Elementary (43,985 sq ft)</b> <b>2006 energy star score of 41 (out of 1 to 100)</b>  SAVINGS (heating & elect) = <span style="float: right;"><b>10,103</b></span> per year	
		380,343 Project Estimate <span style="float: right;"><b>1,980</b></span> per year 9,800 Engineering study 13,857 Contingency	
\$	404,000	TOTAL FOR ENERGY EFFICIENCY	<b>\$ 51,158 Annual Savings</b>