



***Harshaw Trane***

# **Breathitt County Schools**

Consultation Report

February 2019



## ■ EXECUTIVE SUMMARY

### Since We Last Met

- Savings this quarter are **\$89,089** compared to **\$89,863** this time last year
- Helpdesk has been used to provide remote technical service **16** times avoiding truck rolls and associated operational costs.
- Ensured all areas were unoccupied properly at SMS.

### Good News

**ENERGY USAGE**

The district achieved

**\$843,616**

in energy cost avoidance since June 2016

**OPERATIONAL COST REDUCTION**

The district has avoided

**\$16,640**

in operational costs through IS Helpdesk

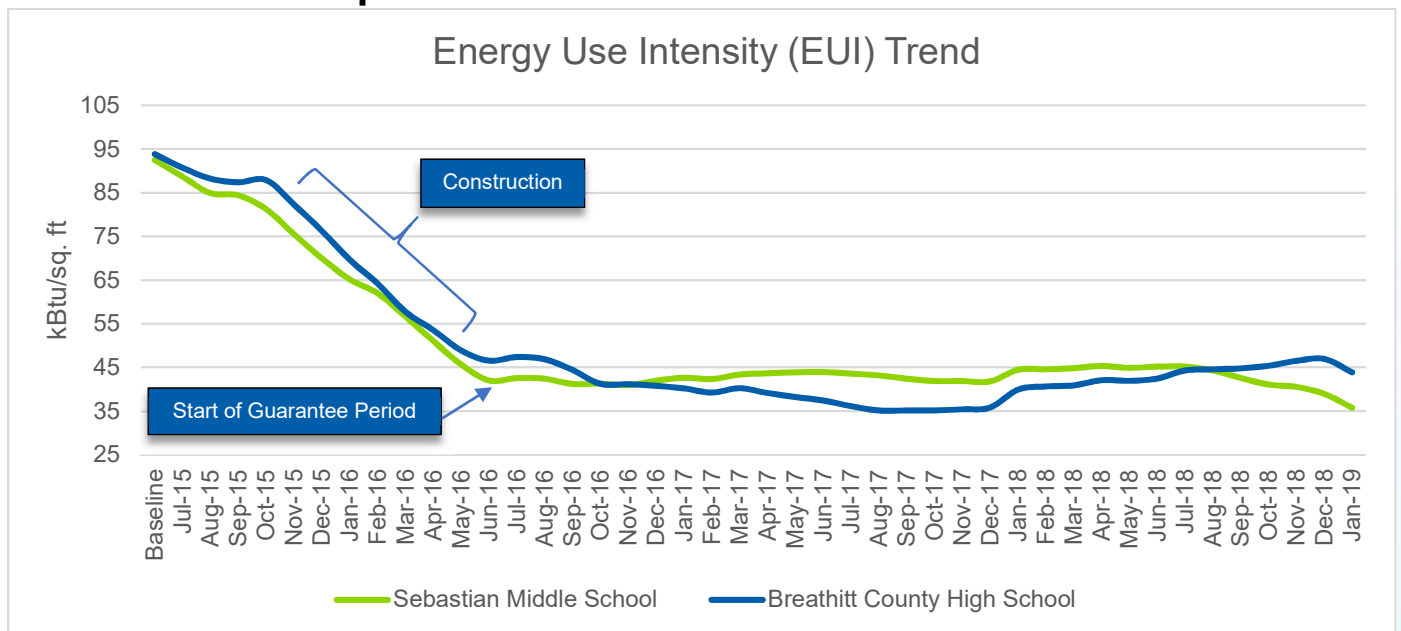
**TOTAL COST AVOIDANCE**

The district achieved

**\$860,256**

in total cost avoidance since June 2016

### Performance Snapshot



### Top Areas of Focus

**ENERGY**

Review SMS Schedules

Review HS Gym AHUs for Proper Economization Operation

**EQUIPMENT PERFORMANCE**


EPA Regulation Update Regarding Refrigerant Leaks

<https://www.epa.gov/section608>

**CRITICAL ALARM MANAGEMENT**

Review Critical Alarming Parameters

## ■ ENERGY PERFORMANCE

 ENERGY STAR	ENERGY STAR Tracker		
	School	Baseline (after changes)	Jan-19
	Breathitt HS	49	82
	Sebastian MS	46	76

\*EPA has temporarily suspended certification for all commercial buildings in the U.S.

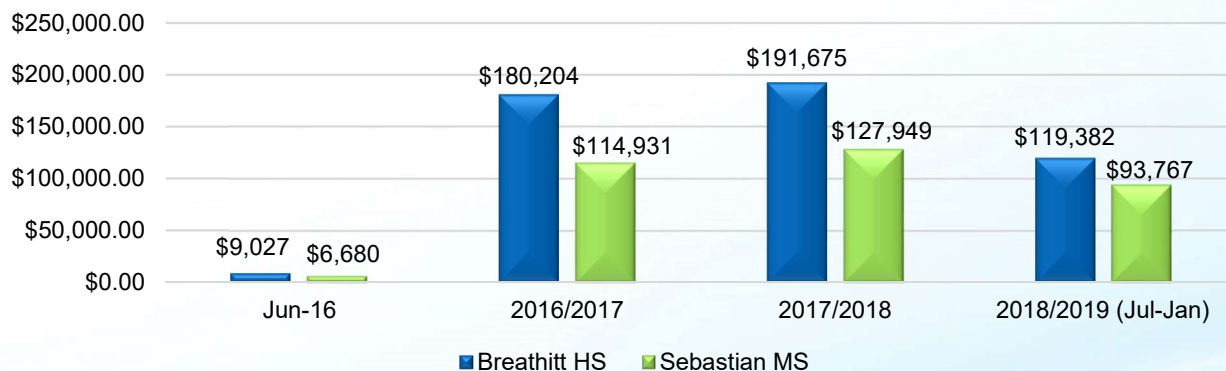
## Energy Consumption Compared to Base Use

School	Total Electric Consumption (kWh)		
	Baseline	Since June 2016	% Change
Breathitt HS	5,538,397	1,925,461	-65%
Sebastian MS	4,154,666	1,222,800	-71%
<b>Total</b>	<b>9,693,063</b>	<b>3,148,261</b>	<b>-68%</b>
School	Total Nat. Gas Consumption (ccf)		
	Baseline	Since June 2016	% Change
Breathitt HS	149,274	76,492	-49%
Sebastian MS*	0	19,240	-
<b>Total</b>	<b>149,274</b>	<b>95,732</b>	<b>-36%</b>

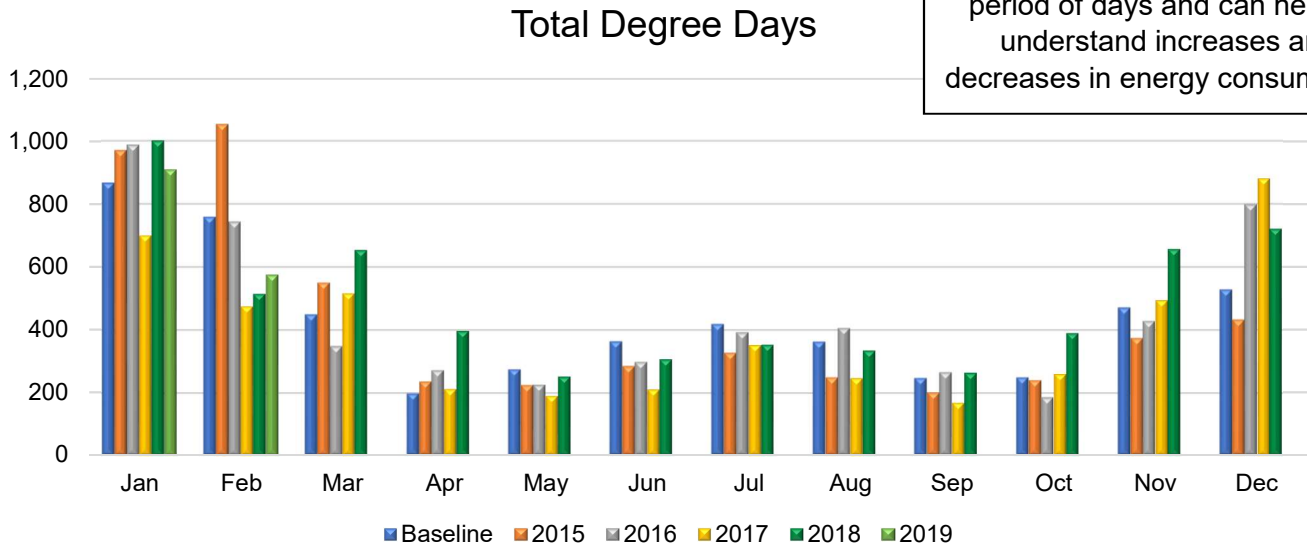
\*Gas was added in the Energy Project

School	Energy Cost Avoidance: (Jun 16 - Jan 19)			
	Electric Usage Savings (kWh)	Natural Gas Savings (CCF)	Energy Cost Avoidance (\$)	Demand Cost Avoidance (\$)
Breathitt HS	3,612,936	72,781	\$460,563	\$39,725
Sebastian MS	2,931,866	-19,240	\$308,731	\$34,596
<b>Total</b>	<b>6,544,802</b>	<b>53,542</b>	<b>\$769,295</b>	<b>\$74,321</b>
<b>Total Cost Avoidance</b>				<b>\$843,616</b>

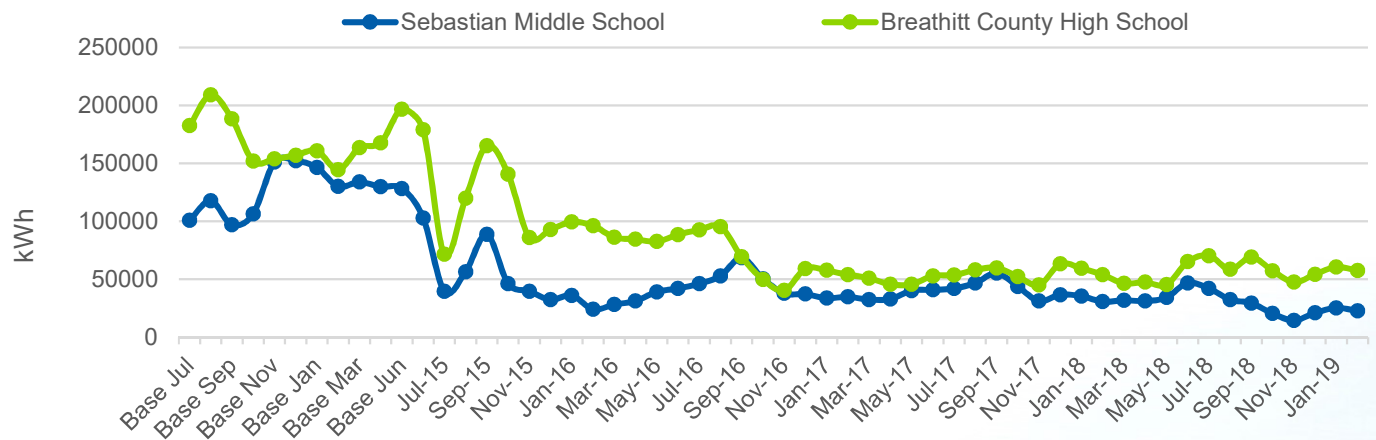
## Annual Cost Avoidance Comparison



## ENERGY PERFORMANCE



## Electric Profile



## Natural Gas Profile

