Town of West Hartford – West Hartford Public Schools



Plant & Facilities Services Department 17 Brixton Street, West Hartford, CT 06110 Phone: 860 561-7920 Fax: 860 561-8141



- To: All WHPS Principals & Assistant Principals
- Cc: All WHPS Plant & Facilities Services Staff
- From: Robert Palmer, Director, Plant & Facilities Services

Date: March 7, 2018

Re: WHPS Energy Summary – December 31, 2017

Here is our second WHPS Energy Summary.

We are attempting to distribute it quarterly. It contains energy use and cost information for the district as a whole, as well as for individual schools. We hope that you find the information interesting, as well as useful. Please let us know if it can be improved.

We are so close to bringing annual electricity use under 10 Million kWh - December's total was 10,106,507 kWh!

Plant & Facilities Services continues to implement selected energy conservation capital projects in both our school and town buildings, but in these tight financial times, we ask you to reinforce good energy conservation behavior.

- Treat your school like you do your home use energy wisely!
- Take home any personally-owned appliances such as toaster ovens, microwave ovens, radios, televisions, coffee pots, air conditioners, air purifiers, mini-fridges, heaters, and fans. A small electrical appliance costs WHPS an average of \$40 per year in electricity. All appliances in schools should be approved by WHPS to ensure that they are necessary, energy-efficient, and meet all electrical, fire, and safety standards.
- Turn off lights, computers, monitors, projectors, printers, and scanners when not in use or at night and on weekends/holidays.
- Unplug devices that are used infrequently to avoid phantom loads. Many devices consume power when they are turned off but still plugged in to an outlet: this is called a phantom load.
- Identify any old incandescent screw-in lightbulbs and ask your custodian for a new LED bulb.
- Start a green team or energy "police" club with your students.
- Make sure that thermostats, vents, and radiators are not covered or blocked.
- Don't leave doors or windows open in the winter.
- Report heating or cooling problems to Plant & Facilities Services rather than purchasing personal space heaters and fans.
- Make <u>realistic</u> suggestions to your custodian or Plant & Facilities Services you know your building best!

WHPS Energy Summary Highlights

Page 1

- WHPS spends almost \$2.5 million a year on electricity and natural gas. Electricity is 75% of that cost.
- Since FY09, WHPS has reduced energy costs by 27% and energy use by 9%, after adjusting for differences in weather between years.
- For the first half of FY18, WHPS energy costs and energy use are down compared to FY17, -3.1% and -0.4%, respectively.

Page 2

- Larger high schools and middle schools tend to use more energy and cost more to operate.
- As a whole, WHPS's energy cost per square foot is \$1.33. Schools range from \$1.06/SF (Morley) to \$1.58/SF (Bristow). Schools that use more electricity relative to natural gas e.g., newer and air-conditioned schools tend to have a higher cost per square foot.

Page 3

- Six (6) schools generate some portion of their electricity from solar panels. (Charter Oak also has a geothermal heating and cooling system.) One of the main considerations for solar is roof age. Aiken's 238 KW solar system was turned on in December!
- Large schools and steam-heated schools e.g., King Philip, Webster Hill, Whiting Lane, Bugbee tend to use more natural gas.
- As a whole, WHPS's weather normalized energy use per square foot is 68.7 kBtu/SF. Schools range from 33.0 kBtu/SF (Charter Oak) to 112.4 kBtu/SF (Bugbee). Older, steamheated, and spread-out, single-story schools tend to be higher energy users per square foot.
- Typically, large decreases in energy use per square foot cannot be accomplished without major capital improvement projects.

Page 4

- Green is good, red is bad indicating a decrease or increase in energy use or cost for individual schools compared to last year (FY17). Keep in mind, some things that affect these school performance metrics are beyond our control e.g., utility rates, weather.
- Braeburn, Charter Oak, Morley, and Wolcott may want to watch their energy use, as they had more red (increases) during this period, while most other schools were green (decreases). But, even those increases were small, i.e., single-digits.

More information: catherine_diviney@whps.org, 860-561-7581



December 31, 2017

West Hartford Public Schools

For 12 months ended December 31, 2017

Number of Schools	16	
Square Feet	1,836,945	
Energy Cost (\$)	\$2,448,885	100%
Electricity Cost(\$)	\$1,838,208	75%
Natural Gas Cost (\$)	\$610,677	25%
Energy Cost per Sq Ft (\$/SF)	\$1.33	
Energy Use		
Electricity (kWh)	10,106,507	
Natural Gas (CCF)	811,768	
Weather Normalized Energy Use per Sq Ft (kBtu/SF)	68.7	
Converts electricity and natural gas to thousand British thermal units (kBtu) - 3.412 kBtu/kWh and 102.6 kBtu/CCF - and accounts for differences in weather between years.		

Historical Performance

West Hartford Public Schools has been tracking energy use/cost since FY09.

Weather Normalized



Energy Cost per Sq Ft



December 31, 2017

Energy Cost by School



Energy Cost

Energy Cost per Sq Ft





December 31, 2017





Weather Normalized Energy Use per Sq Ft





December 31, 2017

Energy Use per Sq Ft is weather normalized to account for differences in weather between years

Aiken ES sq.r1 Sq.r11 King Philip MS sq.r1 Sq.r12 Donge Sq.r12 Donge Sq.r12 Donge Sq.r12 Donge Sg.r12 Donge Dist Dist <thdis< th=""> Dist Dist</thdis<>	Current Performance by School										
For 12 months ended PT17 Dec.17 Oninge For 12 months ended PT17 Dec.17 Oninge Cost 657 287 \$140 654 Cost 657 287 \$22478 \$2477 \$2487777777 \$2487777777 \$2487777777 \$2487777777777 \$2487777777777777777777777777 \$2487777777777777777777777777777 \$248777777777777777777777777777777777777	Aiken ES		Sa Ft	58.411	King Philip MS		Sa Ft	196.257			
Cost SP7.282 SP1.712 C-64% Cost SP2.207 SP2.22 SP2.240.233 SP2.40 SP2.20 <	For 12 months ended	FY17	Dec-17	Change	For 12 months ended	FY17	Dec-17	Change			
Cost per Sp ft 51.49 61.49 60.48 Cost per Sp ft 51.25 51.25 22.95 Natural Gas (CCF) 29.645 30.323 22.95 Natural Gas (CCF) 117.214 113.245 33.06 Braeburn ES Sp ft 59.312 Morley ES Sp ft 59.312 Morley ES Sp ft 51.93 Cost 56.222 56.511 30.05 Cost Sp ft St A4 51.47 20.05 Cost 56.222 56.511 30.05 Cost Sp ft St A4 51.47 20.05 Cost 56.222 56.511 30.05 Cost or Sp ft (BullyST) 55.7 55.5 14.55 Cost or Sp ft (BullyST) 20.4960 22.49 Natural Gas (CCF) 38.105 51.3770 10.300 Norfeldt ES 57.077 13.98 For 12 months ended FY17 Dec.37 Contac 57.077 13.98 Cost or Sp ft (BullyST) 55.65 54.65 Cost or Sp ft (BullyST) 55.66 50.0 30.09 </td <td>Cost</td> <td>\$87,282</td> <td>\$81,717</td> <td>-6.4%</td> <td>Cost</td> <td>\$252,478</td> <td>\$246,293</td> <td>-2.4%</td>	Cost	\$87,282	\$81,717	-6.4%	Cost	\$252,478	\$246,293	-2.4%			
Exercisery (wm) 310,400 317,240 -6.387 Ferritive (wm) 330,400 913,440 52.29 Marunal Gas (CCF) 129,645 330,32 22.387 Natural Gas (CCF) 117,214 113,245 -3.484 Braeburn ES Sa,FI 59,412 Natural Gas (CCF) 127,214 0.1335 -0.888 Braeburn ES Sa,FI 59,312 Morley ES Sa,FI -59,11 30% Cost per Sq Ft (Bitu/SF) 51.44 51.47 20% Cost 563,210 13.65 30% Cost per Sq Ft (Bitu/SF) 55.7 56.5 1.446 Enterticity (Wm) 202,600 198,240 -2.38 Bristow MS Sa Ft (Bitu/SF) 57.7 56.5 1.446 Enterticity (Wm) 202,600 198,240 -2.38 Fristow MS Sa Ft (Bitu/SF) 57.7 56.5 1.446 Enterticity (Wm) 203,50 1.58 Cost per Sq Ft (Bitu/SF) 57.9 56.6 1.448 Enterticity (Wm) 312,629 312,851 1.08	Cost per Sg Ft	\$1.49	\$1.40	-6.4%	Cost per Sg Ft	\$1.29	\$1.25	-2.4%			
Natural Gas (CC) 117.24 113.245 30.323 2.3% Natural Gas (CC) 117.24 113.245 3.48 0.48% Braeburn ES Sq.1 59,312 Mortey ES Sq.1 56,313 Other St.18 0.28% Got S95,460 S91,727 Dec.17 Change For 12 months ended P11 Dec.17 Change Got S95,460 S91,720 Octo S91,720 Octo S01,720 Octo S03,220 S03,200 Octo S03,200 Octo S03,200 Octo S01,000 Norteldt ES S03,200 Octo S04,200 S04,20	Electricity (kWh)	340,480	317,240	-6.8%	Electricity (kWh)	934,080	913,440	-2.2%			
Energy Use pars Sq. Ft (kBtu/SF) 75.9 74.6 9.73% Energy Use pars Sq. Ft (kBtu/SF) 82.5 81.8 0.08% Braeburn ES Sq. At	Natural Gas (CCF)	29,645	30,323	2.3%	Natural Gas (CCF)	117,214	113,245	-3.4%			
Brackburr ES Spr. 4 S	Energy Use per Sq Ft (kBtu/SF)	75.9	74.6	-1.7%	Energy Use per Sq Ft (kBtu/SF)	82.5	81.8	-0.8%			
For 12 months ended PY17 Dec 17 Obsige For 12 months ended PY17 Dec 17 Obsige Cost per Sq Ft \$58,5400 \$87,172 2.0% Cost per Sq Ft \$1.03 3.0% Cost per Sq Ft \$1.44 \$1.47 \$1.05 3.0% Cost per Sq Ft \$1.03 3.0% Electricity (WMh) 372,8200 379,520 1.8% Electricity (WMh) 202,560 1.89,240 2.1% Bristow MS Sq Ft 10.30% Nortreal Electricity (WMh) 20,460 7.2% Cost per Sq Ft \$1.615 \$1.63,779 -3.4% Cost \$76,091 \$77,077 1.98 Cost per Sq Ft \$1.63 \$3.830 3.374 -3.4% Cost \$76,091 \$3.20 -3.8% Cost per Sq Ft \$1.63 \$3.830 -3.4% Cost \$56,0 0.8% Cost \$56,0 0.8% Cost \$56,0 0.8% Cost \$56,0 0.8% Cost \$58,146 \$50,00 0.8% \$50,00 0.8% <td>Braeburn ES</td> <td></td> <td>Sq Ft</td> <td>59,312</td> <td>Morley ES</td> <td></td> <td>Sq Ft</td> <td>61,593</td>	Braeburn ES		Sq Ft	59,312	Morley ES		Sq Ft	61,593			
Cost S88,460 S87,172 2.0% Cost S63,122 S65,11 3.09 Cost per Sp Ft S1.44 S1.47 2.0% Cost per Sp Ft S1.06 3.09 Natural Gas (CCF) 18,167 18,177 18,17 18,176 Cost per Sp Ft (Btur) S1.06 3.09 Natural Gas (CCF) 18,167 18,177 10,000 Norfeldt ES Sp Ft Cost per Sp Ft (Btur) Sp Ft Cost per Sp Ft S1.06 Sp Ft Cost per Sp Ft Sp Ft Cost per Sp Ft S1.05 Sp Ft Cost per Sp Ft S1.05 Sp Ft	For 12 months ended	FY17	Dec-17	Change	For 12 months ended	FY17	Dec-17	Change			
Cast per Sq. Ft S1.44 S1.47 2.0% Cost per Sq. Ft S1.03 S1.08 319.20 Iterricity (Why) 372,800 379,520 1385 Electricity (Why) 202,560 378,200 72,87 Iterrity (We per Sq. Ft (RBu/SF) 56.7 56.5 1.46 Energy Use per Sq. Ft (RBu/SF) 60.4 63.8 56.7 Bristow MS 516.77 70.80 Nortel LES 57.0 71.2 70.82 Cost 516.93 516.377 73.44% Cost 57.00 12.3 13.35 Cost per Sq. Ft 51.63 516.37 33.45 Electricity (Why) 315.269 312.851 0.08 Statural Gas (CCF) 37.83 33.374 -1.38 Natural Gas (CCF) 27.610 55.6 -0.58 Bugbee ES 59.7 70.77 Fonge For 12 months ended FV17 De-17 Change Cost per Sq. Ft 51.44 50.457 60.258 For 12 months ended FV17 De-17 Change 57.55 55.6	Cost	\$85,460	\$87,172	2.0%	Cost	\$63,232	\$65,111	3.0%			
Electricity (kWh) 372,820 379,520 1.8% Electricity (kWh) 22,660 1.98,260 7.28 Energy Use par Sq Ft (kBtu/SF) 55.7 56.5 1.4% Energy Use par Sq Ft (kBtu/SF) 60.4 56.8 57.8 Bristow MS Sq Ft 03.900 Norfeldt ES Sq Ft 62.8 55.7 For 12 norths ended FV17 Dee:17 Change For 12 norths ended FV17 Dee:17 Change Cost par Sq Ft 51.63 51.63 31.4% Cost par Sq Ft 51.21 51.23 13.93 Electricity (kWh) 674,958 620.472 -8.13 Electricity (kWh) 315.269 312.851 -0.89 Stargy Use par Sq Ft (kBtu/SF) 5.7 56.6 2.22% Energy Use pr Sq Ft (kBtu/SF) 65.6 -0.89 Brigt Dee ES 5.9 Sq Ft 62.87 Sedgwick MS Sq Ft 17.80 -0.89 Cost par Sq Ft 51.45 S1.44 2.34% Cost par Sq Ft S1.44 -3.44% -0.44% Co	Cost per Sq Ft	\$1.44	\$1.47	2.0%	Cost per Sq Ft	\$1.03	\$1.06	3.0%			
Natural Gas (CC) 13.167	Electricity (kWh)	372,800	379,520	1.8%	Electricity (kWh)	202,560	198,240	-2.1%			
Energy Use per Sq Ft (LBtur/SF) 55.7 56.5 1.04% Energy Use per Sq Ft (LBtur/SF) 60.4 63.8 55.8 Bristow MS Sq Ft 103.000 Norfeldt ES Sq Ft 62.846 Bristow MS S169.555 S153.779 -3.4% Cost consts ended P117 Dec17 Change Cost per Sq Ft S1.68 S15.88 Cost per Sq Ft S1.21 S1.23 S1.28 -0.8% Cost per Sq Ft S1.83 0.33.74 -1.3% Natural Gas (CC) S1.66 65.0 -0.8% Bergy Use per Sq Ft (LBtur/SF) 55.5 S1.77 Change For 12 months ended P117 Dec17 Change For 12 months ended P117 Dec17 Change For 12 months ended P117 Dec17 Change Cost S90.937 S91.730 0.95% Cost per Sq Ft S1.46 S1.46 S2.48,40 S2.44,40 S2.44,40 -3.4% Cost S90.937 S91.730 0.95% Cost per Sq Ft S1.46 S1.46	Natural Gas (CCF)	18,167	18,176	0.0%	Natural Gas (CCF)	27,679	29,660	7.2%			
Bristow MS Sq. Ft 103,900 Norfeldt ES Sq. Ft 62,846 for 12 months ended P17 Dec.17 Change For 12 months ended P17 Dec.17 Change Cost S160,505 S163,779 A346 Cost per Sq. Ft S1.21 S170,071 1.38 Cost per Sq. Ft S1.63 S1.83 A3474 Cost per Sq. Ft S1.21 A0.88 Electricity (kWh) G74,058 G20,472 A3.48 Electricity (kWh) S152,66 A0.88 Bugbee ES S7,9 S56,6 A.228 Energy Use per Sq. Ft (kBtu/SF) G5,6 A.384 Cost S90,937 S91,730 O905 Cost S23,440 S23,449 A3.48 Cost S90,937 S91,730 O905 Cost S23,440 S23,449 A3.48 Cost S90,937 S91,730 O905 Cost S23,440 S23,449 A3.48 Cost S90,937 S91,750 S61,61 S90,852 S90,710 O90,86	Energy Use per Sq Ft (kBtu/SF)	55.7	56.5	1.4%	Energy Use per Sq Ft (kBtu/SF)	60.4	63.8	5.6%			
For 12 months ended FV12 Dec.17 Change For 12 months ended FV12 Dec.17 Change Cost per Sq Ft \$169,565 \$163,779 -3.4% Cost per Sq Ft \$1.21 \$1.23 1.3% Cost per Sq Ft \$1.63 \$1.58 6204,72 -8.1% Electricity (KWh) 315,269 312,851 0.0.8% Bugbee ES \$7.9 \$5.6.6 -2.2% Energy Use per Sq Ft (kBtu/SF) 65.6 65.0 0.9% Cost mis sended FV17 Dec.17 Change For 12 months ended FV17 Dec.17 Change Cost per Sq Ft \$1.45 \$1.46 0.9% Cost per Sq Ft \$2.63,440 \$254,449 3.4% Cost per Sq Ft \$1.45 \$1.46 0.9% Cost per Sq Ft \$5.5 5.5.1 0.0% Natural Gas (CCF) \$34,549 \$2.872 -3.3% Natural Gas (CCF) \$5.9,55.1 0.7% Cost per Sq Ft \$113,029 \$116,329 \$113,029 \$116,523 \$2.9% \$2.9% \$2.9%	Bristow MS		Sq Ft	103,900	Norfeldt ES		Sq Ft	62,846			
Cost \$169,565 \$163,779 3.34% Cost cost \$76,091 \$77,077 \$1.398 Cost per Sq Pt \$1.63 \$51.68 -3.4% Cost per Sq Pt \$1.21 \$1.23 1.398 Electricity (kWh) 674.958 620.472 -8.1% Electricity (kWh) 315,269 312,810 -0.8% Natural Gas (CCF) 33.830 33.374 -1.3% Natural Gas (CCF) 27.510 26.550 -3.8% Bugbee ES Sq rt 62.23% Sedgwick MS Sq rt 179,850 For 12 months ended FV17 Dec.17 Change For 12 months ended FV17 Dec.17 Change Cost S90,937 S91,730 0.9% Cost S263,440 524,4489 -3.4% Cost S90,937 S91,730 0.9% Cost \$263,440 524,4489 -3.4% Cost S91,450 0.9% Cost \$263,440 \$254,4489 -3.4% Cost S0,414 Gatz -3.48% Sint	For 12 months ended	FY17	Dec-17	Change	For 12 months ended	FY17	Dec-17	Change			
Cost per Sq Ft \$1.63 \$1.58 23.4% Cost per Sq Ft $$1.21$ $$1.21$ $$1.26$ $$1.3\%$ Electricity (kWh) 67.958 $620,472$ -8.136 Electricity (kWh) $315,269$ $312,851$ 0.8% Natural Gas (CCF) $27,610$ $22,550$ -3.8% Seq Ft 5.6 6.50 -0.3% Bugbee ES Sq Ft $62,357$ Gedgwick MS Seq Ft $79,800$ For 12 months ended FV17 Dec.17 Change For 12 months ended FV17 Dec.17 Change $78,406$ 31.42 -3.4% Gost S203,410 321,640 31.42,720 -2.3% Electricity (kWh) $1.059,600$ $1.067,100$ 0.7% Charter Oak ES Sq Ft 83.438 Smith ES Sq Ft 65.29 65.27 66.329 For 12 months ended FV17 Dec.17 Change For 12 months ended FV17 Dec.17 Change Cost S 113,029 S116,323 2.9\%	Cost	\$169,565	\$163,779	-3.4%	Cost	\$76,091	\$77,077	1.3%			
Electricity (kWh) 315,269 312,851 electricity (kWh) 315,269 312,851 electricity (kWh) Natural Gas (CCF) 33,830 33,374 -1.3% Natural Gas (CCF) 27,610 26,550 -3.8% Bugbee ES Sq.Ft 62,837 Sedgwick MS Sq.Ft 179,850 For 12 months ended FY17 Dec-17 Change For 12 months ended FY1 Dec.34 254,449 -3.4% Cost 50,937 59,173 0.9% Cost 51,446 51,442 -3.4% Electricity (kWh) 321,680 314,720 2.23% Electricity (kWh) 1,059,600 1,07,100 0.7% Natural Gas (CCF) 54,549 52,872 -3.13 Natural Gas (CCF) 57,555 56,203 2.3% Charter Oak ES Sq.Ft 83,458 Smith ES Sq.Ft 66,329 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost per 5q Ft 51,30 51,30 2.3% 2.3% Cost per 5q Ft 51,33 51,36 2.3%	Cost per Sq Ft	\$1.63	\$1.58	-3.4%	Cost per Sq Ft	\$1.21	\$1.23	1.3%			
Natural Gas (CCF) 33,830 33,374 1.13% Natural Gas (CCF) 27,610 26,550 0.98 Energy Use per Sq Ft (kBtu/SF) 57.9 56.6 -2.28 Energy Use per Sq Ft (kBtu/SF) 65.6 65.0 -0.98 Bugbee ES Sq Ft 52.857 Sedgwick MS Sc Ft 179,850 -0.98 Cost S90,937 S91,730 0.95% Cost 5263,440 5254,489 -3.48 Cost or Sq Ft S1.45 S1.46 0.95% Cost per Sq Ft S1.45 51.46 -3.48 Electricity (kWh) 321,680 314,720 -2.23% Electricity (kWh) 1.059,600 1.067,100 0.75% Natural Gas (CCF) 54,549 52,872 -3.13% Natural Gas (CCF) 57,555 56,203 -2.3% For 12 months ended F117 Dec-17 Change For12 months ended F17 Dec.17 Change Cost 592,352 590,444 -2.1% Cost S113,029 S113,622 2.95% Cost per Sq Rt	Electricity (kWh)	674,958	620,472	-8.1%	Electricity (kWh)	315,269	312,851	-0.8%			
Energy Use per Sq Ft (kBtu/SF) 57.9 56.6 9-2.3% Energy Use per Sq Ft (kBtu/SF) 65.6 65.0 9-0.9% Bugbee ES Sq Ft 62.877 Sedgwick MS Sq Ft 179.850 Cost per Sq Ft \$14.85 \$14.85 \$14.85 \$14.85 \$263.440 \$254.448 \$-3.4% Electricity (kWh) 321.680 314.720 -2.2% Electricity (kWh) 1.059.600 1.067.100 0.07% Natural Gas (CCF) 54.549 52.872 -3.1% Natural Gas (CCF) 55.5 55.1 -0.7% Charge Bergy Use per Sq Ft (kBtu/SF) 113.5 112.4 -1.0% Energy Use per Sq Ft (kBtu/SF) 55.5 55.1 -0.7% Charler Oak ES Sq Ft 83.458 Smtht ES Sq Ft 66.329 Cost per Sq Ft \$1.335 \$1.39 2.9% Cost per Sq Ft \$1.33 2.3% Cost per Sq Ft \$2.33 \$29.44 2.1% Cost per Sq Ft \$1.33 \$2.39 Cost per Sq Ft \$2.3.33 2.3% Cost per Sq F	Natural Gas (CCF)	33,830	33,374	-1.3%	Natural Gas (CCF)	27,610	26,550	-3.8%			
Bugbee ES sq Pt 52,857 Sedgwick MS sq Pt 179,850 For 12 months ended FV17 Dec-17 Change For 12 months ended FV17 Dec-17 Change Cost \$50,937 \$91,730 0.09% Cost per Sq Ft \$263,440 \$254,449 -3.4% Cost per Sq Ft \$1.45 \$1.46 0.9% Cost per Sq Ft \$1.46 \$1.42 -3.4% Electricity (kWh) 321,680 314,720 -2.2% Electricity (kWh) 1.065,100 0.07% Natural Gas (CCF) 54,549 52,827 -3.3% Smith ES 55.5 55.51 -0.7% Charge For 12 months ended FV17 Dec-17 Change For 12 months ended FV17 Charge Cost \$92,352 \$90,444 -2.1% Cost \$113,029 \$116,323 2.9% Cost per Sq Ft \$1.3.3 2.36 -2.1% Cost \$1.45 3.1.36 -2.1% Cost \$92,353 23.90,63 -2.3%	Energy Use per Sq Ft (kBtu/SF)	57.9	56.6	-2.2%	Energy Use per Sq Ft (kBtu/SF)	65.6	65.0	-0.9%			
For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$90,937 \$91,730 0.9% Cost \$263,440 \$254,489 -3.4% Cost per Sq Ft \$1.46 \$1.46 \$1.46 \$1.46 \$1.42 -3.4% Electricity (kWh) 321,680 314,720 -2.2% Electricity (kWh) 1,059,600 1,067,100 0.7% Natural Gas (CCF) 54,549 52,872 -3.1% Natural Gas (CCF) 57,555 55,203 -2.3% Energy Use per Sq Ft (kBtu/SF) 113.5 112.4 -1.0% Energy Use per Sq Ft (kBtu/SF) 55.5 55.1 -0.7% Cost \$113,029 \$116,323 2.9% Cost \$92,332 \$90,444 -2.1% Cost per Sq Ft \$1.35 \$1.39 2.9% Cost \$92,332 \$90,444 -2.1% Electricity (kWh) 659,273 638,994 -3.1% Electricity (kWh) 42,416 422,400 2.4% Natural Gas (C	Bugbee ES		Sq Ft	62,857	Sedgwick MS		Sq Ft	179,850			
Cost \$90,37 \$91,720 0.9% Cost \$263,440 \$254,489 $= 3.4\%$ Cost per Sq Ft \$1.45 \$1.46 \$1.472 $= 2.3\%$ Cost per Sq Ft \$1.46 \$1.42 $= 3.4\%$ Electricity (kWh) 321,680 314.720 $= 2.2\%$ Electricity (kWh) 1,055,1000 1,067,100 0.7% Natural Gas (CCF) 54,549 52,872 $= 3.4\%$ Natural Gas (CCF) 57,555 55,203 $= 2.3\%$ Energy Use per Sq Ft (kBtu/SF) 113.5 112.4 $= 1.0\%$ Energy Use per Sq Ft (kBtu/SF) 55.5 55.1 $= 0.7\%$ Cost \$113,029 \$116,323 2.9% Cost = \$92,352 \$90,444 $= 2.1\%$ Cost per Sq Ft \$51.35 \$1.39 2.3% Cost per Sq Ft \$1.39 \$1.3.63 \$2.3% Electricity (kWh) 659,273 638,994 $= 3.1\%$ Electricity (kWh) 412,416 422,400 2.4% Natural Gas (CCF) 2,530 Electricity (kWh) 42.36% Cost \$10.668 </th <th>For 12 months ended</th> <th>FY17</th> <th>Dec-17</th> <th>Change</th> <th>For 12 months ended</th> <th>FY17</th> <th>Dec-17</th> <th>Change</th>	For 12 months ended	FY17	Dec-17	Change	For 12 months ended	FY17	Dec-17	Change			
Cost per Sq Ft \$1.45 \$1.46 9.36 Cost per Sq Ft \$1.46 \$1.42 9.347 Electricity (kWh) 321,680 314,720 -2.28 Electricity (kWh) $1,059,600$ $1,067,100$ 0.776 Natural Gas (CCF) 54,549 52.872 -3.1% Natural Gas (CCF) $57,555$ 55.5 55.5 -0.786 Chatter Oak ES Sq Ft 83,458 Smith ES Sq Ft $66,329$ For 12 months ended FV17 Dec-17 Change For 12 months ended FV17 Dec-17 Change Cost \$113,029 \$116,323 2.9% Cost per Sq Ft \$1.39 \$1.36 -2.1% Cost \$113,029 \$116,323 2.9% Cost per Sq Ft \$1.39 \$1.36 -2.1% Change for 12 months ended FV17 Dec-17 Change For 12 months ended FV17 Dec.17 Change Cost \$113,029 \$1.35 \$1.39 2.9% Cost per Sq Ft \$1.35 \$1.36 -2.3% Electricity (kWh) 6059,273 638,994 -3.1% Hebe	Cost	\$90,937	\$91,730	0.9%	Cost	\$263,440	\$254,489	-3.4%			
Electricity (kWh) 321,680 314,720 -2.2% Electricity (kWh) 1,059,600 1,067,100 0.7% Natural Gas (CCF) 54,549 52,872 -3.1% Natural Gas (CCF) 57,555 56,203 -2.3% Energy Use per Sq Ft (kBtu/SF) 113.5 112.4 -1.0% Energy Use per Sq Ft (kBtu/SF) 55.5 55.1 -0.7% Charter Oak ES Sq Ft 83,458 Smith ES Sq Ft 66,329 Cost \$113,029 \$116,323 2.9% Cost per Sq Ft \$1.39 \$1.36 -2.1% Cost per Sq Ft \$1.35 \$1.39 2.9% Cost per Sq Ft \$1.39 \$1.36 -2.1% Electricity (kWh) 659,273 638,994 -3.1% Electricity (kWh) 412,416 422,400 2.4% Natural Gas (CCF) 2.530 2.580 2.0% Natural Gas (CCF) 23,653 23,063 -2.5% Energy Use per Sq Ft (kBtu/SF) 32.7 33.0 0.9% Energy Use per Sq Ft (kBtu/SF) 60.6 -0.2% Cost Sq Ft 28,7874 Webster Hill ES Sq Ft 70.092 <td< td=""><td>Cost per Sq Ft</td><td>\$1.45</td><td>\$1.46</td><td>0.9%</td><td>Cost per Sq Ft</td><td>\$1.46</td><td>\$1.42</td><td>-3.4%</td></td<>	Cost per Sq Ft	\$1.45	\$1.46	0.9%	Cost per Sq Ft	\$1.46	\$1.42	-3.4%			
Natural Gas (CCF) 54,549 52,872 -3.1% Natural Gas (CCF) 57,555 56,033 -2.3% Energy Use per Sq Ft (kBtu/SF) 113.5 112.4 -1.0% Energy Use per Sq Ft (kBtu/SF) 55.5 55.1 -0.7% Charter Oak ES Sq Ft 83,458 Smith ES Sq Ft 66,329 For 12 months ended FV17 Dec-17 Change Cost \$92,352 \$90,444 -2.1% Cost per Sq Ft \$113,029 \$116,323 2.9% Cost per Sq Ft \$1.39 \$1.36 -2.1% Electricity (kWh) 659,273 638,994 -3.1% Electricity (kWh) 412,416 422,400 2.4% Natural Gas (CCF) 2,530 2,580 2.0% Natural Gas (CCF) 23,653 23,063 -2.5% Energy Use per Sq Ft (kBtu/SF) 32.7 33.0 0.9% Energy Use per Sq Ft (kBtu/SF) 60.7 60.6 -0.2% Cost per Sq Ft \$12.5 \$1.40 -8.0% Cost per Sq Ft \$1.45 \$1.29 -1.0.8%	Electricity (kWh)	321,680	314,720	-2.2%	Electricity (kWh)	1,059,600	1,067,100	0.7%			
Energy Use per Sq Ft (kBtu/SF) 113.5 112.4 -1.0% Energy Use per Sq Ft (kBtu/SF) 55.5 55.1 -0.7% Charter Oak ES Sq Ft 83,458 Smith ES Sq Ft 66,329 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$113.029 \$116,323 2.9% Cost \$92,352 \$90,444 -2.1% Cost \$13.39 6.5,273 638,994 -3.1% Electricity (kWh) 412,416 422,400 2.4% Natural Gas (CCF) 2,3,633 23,063	Natural Gas (CCF)	54,549	52,872	-3.1%	Natural Gas (CCF)	57,555	56,203	-2.3%			
Charter Oak ES Sq Ft 83,458 Smith ES Sq Ft 66,329 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$113,029 \$116,323 2.9% Cost \$92,352 \$90,444 -2.1% Cost or Sq Ft \$1.35 \$1.39 2.9% Cost \$92,352 \$90,444 -2.1% Cost or Sq Ft \$1.39 \$1.36 \$1.39 \$1.36 -2.1% Cost or Sq Ft \$1.39 \$1.38 Cost \$92,352 \$90,444 -2.1% Natural Gas (CCF) 2.530 2.58 2.0% Natural Gas (CCF) 23,063 -2.5% For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec.17 Change Cost \$438,901 \$403,894 -8.0% Cost \$101,668 \$90,646 -10.8% Electricity (kWh) 2.008,890 1.893,113 -5.8% Electricity (kWh) 241,500 243,200	Energy Use per Sq Ft (kBtu/SF)	113.5	112.4	-1.0%	Energy Use per Sq Ft (kBtu/SF)	55.5	55.1	-0.7%			
For 12 months ended FV17 Dec-17 Change For 12 months ended FV17 Dec-17 Change Cost \$113,029 \$116,23 2.9% Cost per Sq. Ft \$1.33 \$1.33 2.1% Cost per Sq. Ft \$1.35 \$1.39 2.3% Cost per Sq. Ft \$1.39 \$1.36 2.1% Electricity (kWh) 659,273 638,994 -3.1% Electricity (kWh) 412,416 422,400 2.4% Natural Gas (CCF) 2,530 2,580 2.0% Natural Gas (CCF) 23,653 23,063 -2.5% Energy Use per Sq. Ft (kBtu/SF) 3.0 0.9% Energy Use per Sq. Ft (kBtu/SF) 0.0 Ft 7 Oct Cost \$438,901 \$403,894 -8.0% Cost per Sq. Ft \$1.15 \$1.29 Por 17 Olange Cost \$438,901 \$403,894 -8.0% Cost per Sq. Ft \$1.45 \$1.29 Por 30 Cost \$1.52 \$1.40 -8.0% Cost per Sq. Ft \$1.45 \$1.29 Por 30	Charter Oak ES		Sq Ft	83,458	Smith ES		Sq Ft	66,329			
Cost \$113,029 \$116,323 2.9% Cost per Sq Ft \$92,352 \$90,444 -2.1% Cost per Sq Ft \$1.35 \$1.39 2.9% Cost per Sq Ft \$1.39 \$1.36 -2.1% Electricity (kWh) 659,273 638,994 -3.1% Electricity (kWh) 412,416 422,400 2.4% Natural Gas (CCF) 2,530 2,530 2,580 2.0% Natural Gas (CCF) 23,653 23,063 -2.5% Energy Use per Sq Ft (kBtu/SF) 32.7 33.0 0.9% Energy Use per Sq Ft (kBtu/SF) 60.7 60.6 -0.2% Coard HS Sq Ft 20.7% Natural Gas (CCF) 23,653 23,064 -10.8% Cost Sq St A38,901 \$403,894 -8.0% Cost \$101,668 \$90,646 -10.8% Cost or Sq Ft \$1.52 \$1.40 -8.0% Cost per Sq Ft \$1.45 \$1.29 -10.8% Electricity (kWh) 2,009,890 1,893,113 -5.8% Electricity (kWh) 241,600 248,320 2.8% </th <th>For 12 months ended</th> <th>FY17</th> <th>Dec-17</th> <th>Change</th> <th>For 12 months ended</th> <th>FY17</th> <th>Dec-17</th> <th>Change</th>	For 12 months ended	FY17	Dec-17	Change	For 12 months ended	FY17	Dec-17	Change			
Cost pr Sq Ft \$1.35 \$1.39 \$2.9% Cost pr Sq Ft \$1.39 \$1.36 \$2.19 Electricity (kWh) 659,273 638,994 -3.1% Electricity (kWh) 412,416 422,400 2.4% Natural Gas (CCF) 2,530 2,530 2.0% Natural Gas (CCF) 23,653 23,063 -2.5% Energy Use per Sq Ft (kBtu/SF) 32.7 33.0 0.9% Energy Use per Sq Ft (kBtu/SF) 60.7 60.6 -0.2% Conard HS Sq Ft 287,874 Webster Hill ES Sq Ft 70.092 For 12 months ended FY17 Dec.17 Change For 12 months ended FY17 Dec.17 Change Cost \$438,901 \$403,894 -8.0% Cost per Sq Ft S1.15 \$1.29 -10.8% Electricity (kWh) 2,009,890 1,893,113 -5.5% Electricity (kWh) 241,600 248,320 2.8% Natural Gas (CCF) 125,016 121,932 2.5% Natural Gas (CCF) 63,144 62,466 -1.1% <td< td=""><td>Cost</td><td>\$113,029</td><td>\$116,323</td><td>2.9%</td><td>Cost</td><td>\$92,352</td><td>\$90,444</td><td>-2.1%</td></td<>	Cost	\$113,029	\$116,323	2.9%	Cost	\$92,352	\$90,444	-2.1%			
Electricity (kWh) 659,273 638,994 -3.1% Electricity (kWh) 412,416 422,400 2.4% Natural Gas (CCF) 2,530 2,500 2.0% Natural Gas (CCF) 23,653 23,063 -2.5% Energy Use per Sq Ft (kBtu/SF) 32.7 33.0 0.9% Energy Use per Sq Ft (kBtu/SF) 60.7 60.6 -0.2% Conard HS Sq Ft 287,874 Webster Hill ES Sq Ft 70.092 For 12 months ended FV17 Dec-17 Change For 12 months ended FV17 Dec-17 Change Cost \$438,901 \$403,894 -8.0% Cost per Sq Ft \$1.45 \$1.29 -10.8% Cost per Sq Ft \$1.52 \$1.40 -8.0% Cost per Sq Ft \$1.45 \$1.29 -10.8% Natural Gas (CCF) 125,016 121,932 -2.5% Natural Gas (CCF) 63,144 62,466 -1.1% Energy Use per Sq Ft (kBtu/SF) 70.7 70.0 -1.0% Energy Use per Sq Ft (kBtu/SF) 110.5 110.9 0.4% Cost per Sq Ft \$1.32 \$12.9 -2.3% Cost per Sq Ft	Cost per Sq Ft	\$1.35	\$1.39	2.9%	Cost per Sq Ft	\$1.39	\$1.36	-2.1%			
Natural Gas (CCF) 2,530 2,580 2,0% Natural Gas (CCF) 23,653 23,063 -2.5% Energy Use per Sq Ft (kBtu/SF) 32.7 33.0 0.9% Energy Use per Sq Ft (kBtu/SF) 60.7 60.6 -0.2% Conard HS Sq Ft 287,874 Webster Hill ES Sq Ft 70,092 For 12 months ended FV17 Dec-17 Change For 12 months ended FV17 Dec-17 Change Cost \$438,901 \$403,894 -8.0% Cost \$101,668 \$90,646 -10.8% Cost or Sq Ft \$1.52 \$1.40 -8.0% Cost per Sq Ft \$1.45 \$1.29 -10.8% Electricity (kWh) 2,009,890 1,893,113 -5.8% Electricity (kWh) 241,600 248,320 2.8% Natural Gas (CCF) 125,016 121,932 -2.5% Natural Gas (CCF) 63,144 62,466 -1.1% Energy Use per Sq Ft (kBtu/SF) 70.7 70.0 -1.0% Energy Use per Sq Ft (kBtu/SF) 110.5 110.9 0.4% <t< td=""><td>Electricity (kWh)</td><td>659,273</td><td>638,994</td><td>-3.1%</td><td>Electricity (kWh)</td><td>412,416</td><td>422,400</td><td>2.4%</td></t<>	Electricity (kWh)	659,273	638,994	-3.1%	Electricity (kWh)	412,416	422,400	2.4%			
Energy Use per Sq Ft (kBtu/SF) 32.7 33.0 0.9% Energy Use per Sq Ft (kBtu/SF) 60.7 60.6 0.2% Conard HS Sq Ft 287,874 Webster Hill ES Sq Ft 70,092 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$438,901 \$403,894 -8.0% Cost \$101,668 \$90,646 -10.8% Cost \$1.52 \$1.40 -8.0% Cost per Sq Ft \$1.45 \$1.29 -10.8% Electricity (kWh) 2,009,890 1,893,113 -5.8% Electricity (kWh) 241,600 248,320 2.8% Natural Gas (CCF) 125,016 121,932 -2.5% Natural Gas (CCF) 63,144 62,466 -1.1% Duffy ES Sq Ft 80,683 Whiting Lane ES Sq Ft 06,817 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$106,782 \$104,365	Natural Gas (CCF)	2,530	2,580	2.0%	Natural Gas (CCF)	23,653	23,063	-2.5%			
Conard HS Sq Ft 287,874 Webster Hill ES Sq Ft 70,092 For 12 months ended FY17 Dec.17 Change For 12 months ended FY17 Dec.17 Change Cost \$438,901 \$403,894 -8.0% Cost \$101,668 \$90,646 -10.8% Cost per Sq Ft \$1.52 \$1.40 -8.0% Cost per Sq Ft \$1.45 \$1.29 -10.8% Electricity (kWh) 2,009,890 1,893,113 -5.8% Electricity (kWh) 241,600 248,320 2.8% Natural Gas (CCF) 125,016 121,932 -2.5% Natural Gas (CCF) 63,144 62,466 -1.1% Energy Use per Sq Ft (kBtu/SF) 70.7 70.0 -1.0% Energy Use per Sq Ft (kBtu/SF) 110.5 110.9 0.4% Cost \$106,782 \$104,365 -2.3% Cost \$124,839 \$122,821 -1.6% Cost per Sq Ft \$1.32 \$1.29 \$2.3% Cost \$124,839 \$122,821 -1.6% Cost per Sq Ft <t< td=""><td>Energy Use per Sq Ft (kBtu/SF)</td><td>32.7</td><td>33.0</td><td>0.9%</td><td>Energy Use per Sq Ft (kBtu/SF)</td><td>60.7</td><td>60.6</td><td>-0.2%</td></t<>	Energy Use per Sq Ft (kBtu/SF)	32.7	33.0	0.9%	Energy Use per Sq Ft (kBtu/SF)	60.7	60.6	-0.2%			
For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$438,901 \$403,894 -8.0% Cost \$101,668 \$90,646 -10.8% Cost per Sq Ft \$1.52 \$1.40 -8.0% Cost per Sq Ft \$1.45 \$1.29 -10.8% Electricity (kWh) 2,009,890 1,893,113 -5.8% Electricity (kWh) 241,600 248,320 2.8% Natural Gas (CCF) 125,016 121,932 -2.5% Natural Gas (CCF) 63,144 62,466 -1.1% Energy Use per Sq Ft (kBtu/SF) 70.7 70.0 -1.0% Energy Use per Sq Ft (kBtu/SF) 110.5 110.9 0.4% Duffy ES Sq Ft 80,683 Whiting Lane ES Sq Ft 96,817 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$106,782 \$104,365 -2.3% Cost energy Gree Sq Ft \$1.29 \$1.27 -1.6% Cost	Conard HS		Sq Ft	287,874	Webster Hill ES		Sq Ft	70,092			
Cost \$438,901 \$403,894 -8.0% Cost \$101,668 \$90,646 -10.8% Cost per Sq Ft \$1.52 \$1.40 -8.0% Cost per Sq Ft \$1.45 \$1.29 -10.8% Electricity (kWh) 2,009,890 1,893,113 -5.8% Electricity (kWh) 241,600 248,320 2.8% Natural Gas (CCF) 125,016 121,932 -2.5% Natural Gas (CCF) 63,144 62,466 -1.1% Energy Use per Sq Ft (kBtu/SF) 70.7 70.0 -1.0% Energy Use per Sq Ft (kBtu/SF) 110.5 110.9 0.4% Duffy ES Sq Ft 80,683 Whiting Lane ES Sq Ft 96,817 For 12 months ended FV17 Dec-17 Change For 12 months ended FV17 Dec.17 Change Cost \$106,782 \$104,365 -2.3% Cost \$124,839 \$122,821 -1.6% Cost \$132 \$1.29 -2.3% Cost \$124,839 \$122,72 -1.6% Electricity (kWh) 398,720 390,240 -2.1% Electricity (kWh) 371,840 345,120 <	For 12 months ended	FY17	Dec-17	Change	For 12 months ended	FY17	Dec-17	Change			
Cost per Sq Ft \$1.52 \$1.40 -8.0% Cost per Sq Ft \$1.45 \$1.29 -10.8% Electricity (kWh) 2,009,890 1,893,113 -5.8% Electricity (kWh) 241,600 248,320 2.8% Natural Gas (CCF) 125,016 121,932 -2.5% Natural Gas (CCF) 63,144 62,466 -1.1% Energy Use per Sq Ft (kBtu/SF) 70.7 70.0 -1.0% Energy Use per Sq Ft (kBtu/SF) 110.5 110.9 0.4% Duffy ES Sq Ft 80,683 Whiting Lane ES Sq Ft 96,817 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$106,782 \$104,365 -2.3% Cost \$124,839 \$122,821 -1.6% Electricity (kWh) 398,720 390,240 -2.1% Electricity (kWh) 371,840 345,120 -7.2% Natural Gas (CCF) 56,868 53,336 -6.2% Natural Gas (CCF) 79,674 76,914 -3.5% Energy Use per Sq Ft 291,593 Wolcott ES Sq Ft 75,073	Cost	\$438,901	\$403,894	-8.0%	Cost	\$101,668	\$90,646	-10.8%			
Electricity (kWh) 2,009,890 1,893,113 -5.8% Electricity (kWh) 241,600 248,320 2.8% Natural Gas (CCF) 125,016 121,932 -2.5% Natural Gas (CCF) 63,144 62,466 -1.1% Energy Use per Sq Ft (kBtu/SF) 70.7 70.0 -1.0% Energy Use per Sq Ft (kBtu/SF) 110.5 110.9 0.4% Duffy ES Sq Ft 80,683 Whiting Lane ES Sq Ft 96,817 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$106,782 \$104,365 -2.3% Cost \$124,839 \$122,821 -1.6% Cost per Sq Ft \$1.32 \$1.29 -2.3% Cost per Sq Ft \$1.29 \$1.27 -1.6% Rergy Use per Sq Ft (kBtu/SF) 398,720 390,240 -2.1% Electricity (kWh) 371,840 345,120 -7.2% Natural Gas (CCF) 56,868 53,336 -6.2% Natural Gas (CCF) 79,674 76,914 -3.5% Energy Use per Sq Ft (kBtu/SF) 94.5 91.7 -3.0% Energy Use	Cost per Sq Ft	\$1.52	\$1.40	-8.0%	Cost per Sq Ft	\$1.45	\$1.29	-10.8%			
Natural Gas (CCF) 125,016 121,932 -2.5% Natural Gas (CCF) 63,144 62,466 -1.1% Energy Use per Sq Ft (kBtu/SF) 70.7 70.0 -1.0% Energy Use per Sq Ft (kBtu/SF) 110.5 110.9 0.4% Duffy ES Sq Ft 80,683 Whiting Lane ES Sq Ft 96,817 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$106,782 \$104,365 -2.3% Cost \$124,839 \$122,821 -1.6% Cost per Sq Ft \$1.32 \$1.29 -2.3% Cost per Sq Ft \$1.29 \$1.27 -1.6% Electricity (kWh) 398,720 390,240 -2.1% Electricity (kWh) 371,840 345,120 -7.2% Natural Gas (CCF) 56,868 53,336 -6.2% Natural Gas (CCF) 79,674 76,914 -3.5% Energy Use per Sq Ft (kBtu/SF) 94.5 91.7 -3.0% Energy Use per Sq Ft (kBtu/SF) 103.3 102.1 -1.2% Hall HS Sq Ft 291,593 Wolcott ES Sq Ft 75	Electricity (kWh)	2,009,890	1,893,113	-5.8%	Electricity (kWh)	241,600	248,320	2.8%			
Energy Use per Sq Ft (kBtu/SF) 70.7 70.0 -1.0% Energy Use per Sq Ft (kBtu/SF) 110.5 110.9 0.4% Duffy ES Sq Ft 80,683 Whiting Lane ES Sq Ft 96,817 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$106,782 \$104,365 -2.3% Cost \$124,839 \$122,821 -1.6% Cost per Sq Ft \$1.32 \$1.29 -2.3% Cost per Sq Ft \$1.29 \$1.27 -1.6% Electricity (kWh) 398,720 390,240 -2.1% Electricity (kWh) 371,840 345,120 -7.2% Natural Gas (CCF) 56,868 53,336 -6.2% Natural Gas (CCF) 79,674 76,914 -3.5% Energy Use per Sq Ft (kBtu/SF) 94.5 91.7 -3.0% Energy Use per Sq Ft (kBtu/SF) 103.3 102.1 -1.2% Hall HS Sq Ft 291,593 Wolcott ES Sq Ft 75,073 For 12 months ended FY17	Natural Gas (CCF)	125,016	121,932	-2.5%	Natural Gas (CCF)	63,144	62,466	-1.1%			
Durry ES Sq Ft 80,683 Writing Lane ES Sq Ft 96,817 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$106,782 \$104,365 -2.3% Cost \$124,839 \$122,821 -1.6% Cost per Sq Ft \$1.32 \$1.29 -2.3% Cost per Sq Ft \$1.29 \$1.27 -1.6% Electricity (kWh) 398,720 390,240 -2.1% Electricity (kWh) 371,840 345,120 -7.2% Natural Gas (CCF) 56,868 53,336 -6.2% Natural Gas (CCF) 79,674 76,914 -3.5% Energy Use per Sq Ft (kBtu/SF) 94.5 91.7 -3.0% Energy Use per Sq Ft (kBtu/SF) 103.3 102.1 -1.2% Hall HS Sq Ft 291,593 Wolcott ES Sq Ft 75,073 For 12 months ended FY17 Dec-17 Change Cost \$93,241 \$95,202 2.1% Cost per Sq Ft \$1.26 \$1.23 -2	Energy Use per Sq Ft (kBtu/SF)	70.7	70.0	-1.0%	Energy Use per Sq Ft (kBtu/SF)	110.5	110.9	0.4%			
For 12 months ended FV17 Dec-17 Change For 12 months ended FV17 Dec-17 Change Cost \$106,782 \$104,365 -2.3% Cost \$124,839 \$122,821 -1.6% Cost per Sq Ft \$1.32 \$1.29 -2.3% Cost per Sq Ft \$1.29 \$1.27 -1.6% Electricity (kWh) 398,720 390,240 -2.1% Electricity (kWh) 371,840 345,120 -7.2% Natural Gas (CCF) 56,868 53,336 -6.2% Natural Gas (CCF) 79,674 76,914 -3.5% Energy Use per Sq Ft (kBtu/SF) 94.5 91.7 -3.0% Energy Use per Sq Ft (kBtu/SF) 103.3 102.1 -1.2% Hall HS Sq Ft 291,593 Wolcott ES Sq Ft 75,073 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$366,657 \$357,823 -2.4% Cost per Sq Ft \$1.24 \$1.27 2.1% Cost per Sq Ft	Duffy ES		Sq Ft	80,683	Whiting Lane ES		Sq Ft	96,817			
Cost \$106,782 \$104,365 -2.3% Cost \$124,839 \$122,821 -1.6% Cost per Sq Ft \$1.32 \$1.29 -2.3% Cost per Sq Ft \$1.29 \$1.27 -1.6% Electricity (kWh) 398,720 390,240 -2.1% Electricity (kWh) 371,840 345,120 -7.2% Natural Gas (CCF) 56,868 53,336 -6.2% Natural Gas (CCF) 79,674 76,914 -3.5% Energy Use per Sq Ft (kBtu/SF) 94.5 91.7 -3.0% Energy Use per Sq Ft (kBtu/SF) 103.3 102.1 -1.2% Hall HS Sq Ft 291,593 Wolcott ES Sq Ft 75,073 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost per Sq Ft \$1.26 \$1.23 -2.4% Cost \$93,241 \$95,202 2.1% Cost per Sq Ft \$1.26 \$1.23 -2.4% Cost per Sq Ft \$1.24 \$1.27 2.1% Cost per Sq Ft \$1.69,4817 1,657,216 -2.2% Electricity (kWh) 378,560 387,520	For 12 months ended	FY17	Dec-17	Change	For 12 months ended	FY17	Dec-17	Change			
Cost per Sq Ft \$1.32 \$1.29 -2.3% Cost per Sq Ft \$1.29 \$1.27 -1.6% Electricity (kWh) 398,720 390,240 -2.1% Electricity (kWh) 371,840 345,120 -7.2% Natural Gas (CCF) 56,868 53,336 -6.2% Natural Gas (CCF) 79,674 76,914 -3.5% Energy Use per Sq Ft (kBtu/SF) 94.5 91.7 -3.0% Energy Use per Sq Ft (kBtu/SF) 103.3 102.1 -1.2% Hall HS Sq Ft 291,593 Wolcott ES Sq Ft 75,073 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$366,657 \$357,823 -2.4% Cost \$93,241 \$95,202 2.1% Cost per Sq Ft \$1.26 \$1.23 -2.4% Cost per Sq Ft \$1.24 \$1.27 2.1% Electricity (kWh) 1,694,817 1,657,216 -2.2% Electricity (kWh) 378,560 387,520 2.4% Natural Gas (CCF) 80,691 79,936 -0.9% Natural Gas (CCF) 31,016	Cost	\$106,782	\$104,365	-2.3%	Cost	\$124,839	\$122,821	-1.6%			
Electricity (kWh) 398,720 390,240 7.2% Electricity (kWh) 371,840 345,120 7.2% Natural Gas (CCF) 56,868 53,336 6.2% Natural Gas (CCF) 79,674 76,914 -3.5% Energy Use per Sq Ft (kBtu/SF) 94.5 91.7 3.0% Energy Use per Sq Ft (kBtu/SF) 103.3 102.1 -1.2% Hall HS Sq Ft 291,593 Wolcott ES Sq Ft 75,073 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$366,657 \$357,823 -2.4% Cost \$93,241 \$95,202 2.1% Cost per Sq Ft \$1.26 \$1.23 -2.4% Cost per Sq Ft \$1.24 \$1.27 2.1% Electricity (kWh) 1,694,817 1,657,216 -2.2% Electricity (kWh) 378,560 387,520 2.4% Natural Gas (CCF) 80,691 79,936 -0.9% Natural Gas (CCF) 31,016 31,138 0.4% For ergy Use per Sq Et (kBtu/SE) 50.4 50.5 0.2% Energy Use per Sq Et (kBtu/S	Cost per Sq Ft	\$1.32	\$1.29	-2.3%	Cost per Sq Ft	\$1.29	\$1.27	-1.6%			
Natural Gas (CCF) 56,868 53,336 6.2% Natural Gas (CCF) 79,674 76,914 7-3.5% Energy Use per Sq Ft (kBtu/SF) 94.5 91.7 3.0% Energy Use per Sq Ft (kBtu/SF) 103.3 102.1 -1.2% Hall HS Sq Ft 291,593 Wolcott ES Sq Ft 75,073 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$366,657 \$357,823 -2.4% Cost \$93,241 \$95,202 2.1% Cost per Sq Ft \$1.26 \$1.23 -2.4% Cost per Sq Ft \$1.24 \$1.27 2.1% Electricity (kWh) 1,694,817 1,657,216 -2.2% Electricity (kWh) 378,560 387,520 2.4% Natural Gas (CCF) 80,691 79,936 -0.9% Natural Gas (CCF) 31,016 31,138 0.4% Fnergy Use per Sq Et (kBtu/SE) 50.4 50.5 0.2% Energy Use per Sq Et (kBtu/SE) 65.2 4.0%	Electricity (kwh)	398,720	390,240	-2.1%		371,840	345,120	-7.2%			
Heregy Ose per Sq Ft (kBtu/SF) 94.5 91.7 -3.0% Energy Ose per Sq Ft (kBtu/SF) 105.3 102.1 -1.2% Hall HS Sq Ft 291,593 Wolcott ES Sq Ft 75,073 For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$366,657 \$357,823 -2.4% Cost \$93,241 \$95,202 2.1% Cost per Sq Ft \$1.26 \$1.23 -2.4% Cost per Sq Ft \$1.24 \$1.27 2.1% Electricity (kWh) 1,694,817 1,657,216 -2.2% Electricity (kWh) 378,560 387,520 2.4% Natural Gas (CCF) 80,691 79,936 -0.9% Natural Gas (CCF) 31,016 31,138 0.4% Energy Use per Sq Et (kBtu/SE) 50.4 50.5 0.2% Energy Use per Sq Et (kBtu/SE) 62.7 65.2 4.0%	Fragme Liss per Se Et (kBtu (SE)	50,808	53,330	-0.2%		102.2	76,914	-3.5%			
For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$366,657 \$357,823 -2.4% Cost \$93,241 \$95,202 2.1% Cost per Sq Ft \$1.26 \$1.23 -2.4% Cost per Sq Ft \$1.24 \$1.27 2.1% Electricity (kWh) 1,694,817 1,657,216 -2.2% Electricity (kWh) 378,560 387,520 2.4% Natural Gas (CCF) 80,691 79,936 -0.9% Natural Gas (CCF) 31,016 31,138 0.4% Energy Lise per Sq Et (kBtu/SE) 50.4 50.5 0.2% Energy Lise per Sq Et (kBtu/SE) 62.7 65.2 4.0%		94.5	91.7	-5.0%	Malcott ES	105.5	102.1	-1.2%			
For 12 months ended FY17 Dec-17 Change For 12 months ended FY17 Dec-17 Change Cost \$366,657 \$357,823 -2.4% Cost \$93,241 \$95,202 2.1% Cost per Sq Ft \$1.26 \$1.23 -2.4% Cost per Sq Ft \$1.24 \$1.27 2.1% Electricity (kWh) 1,694,817 1,657,216 -2.2% Electricity (kWh) 378,560 387,520 2.4% Natural Gas (CCF) 80,691 79,936 -0.9% Natural Gas (CCF) 31,016 31,138 0.4% Energy Lise per Sq Et (kBtu/SE) 50.4 50.5 0.2% Energy Lise per Sq Et (kBtu/SE) 62.7 65.2 4.0%		5147	Sq Ft	291,593		5147	Sq Ft	/5,0/3			
Cost \$350,057 \$357,823 -2.4% Cost \$93,241 \$95,202 2.1% Cost per Sq Ft \$1.26 \$1.23 -2.4% Cost per Sq Ft \$1.24 \$1.27 2.1% Electricity (kWh) 1,694,817 1,657,216 -2.2% Electricity (kWh) 378,560 387,520 2.4% Natural Gas (CCF) 80,691 79,936 -0.9% Natural Gas (CCF) 31,016 31,138 0.4% Energy Use per Sq Et (kBtu/SE) 50.4 50.5 0.2% Energy Use per Sq Et (kBtu/SE) 62.7 65.2 4.0%	For 12 months ended	FY1/	Dec-17	Change	For 12 months ended	FY1/	Dec-17	Change			
Loss per sq Ft \$1.20 \$1.23 -2.4% Loss per sq Ft \$1.24 \$1.27 2.1% Electricity (kWh) 1,694,817 1,657,216 -2.2% Electricity (kWh) 378,560 387,520 2.4% Natural Gas (CCF) 80,691 79,936 -0.9% Natural Gas (CCF) 31,016 31,138 0.4% Energy Lise per Sq Et (kBtu/SE) 50.4 50.5 0.2% Energy Lise per Sq Et (kBtu/SE) 62.7 65.2 4.0%	Cost por Sa Ft	/ 61.25 مراجع	\$357,823	-2.4%	Cost por Sa Et	\$93,241 64 34	\$95,202 64 az	2.1%			
Lieculicity (kwiii) 1,034,817 1,037,210 -2.270 Electricity (kwiii) 378,500 387,520 2.4% Natural Gas (CCF) 80,691 79,936 -0.9% Natural Gas (CCF) 31,016 31,138 0.4% Energy Lise per So Et (kBtu/SE) 50.4 50.5 0.2% Energy Lise per So Et (kBtu/SE) 62.7 65.2 4.0%	Cost per sy Fl	۶1.20 1 604 917	¢1.23 ۱ ۲۲ ۲ ۵۱ ۲	-2.4%	Cost per sy FL	ې1.24 ۲۹ ۶۵۵)1.27 207 520	2.1%			
$\frac{1}{2} = \frac{1}{2} = \frac{1}$	Natural Gas (CCE)	1,094,017 80 601	1,057,210 70 022	-2.2%	Natural Gas (CCE)	310,300	207,52U 21 120	2.4%			
	Energy Use per Sa Et (kRtu/SE)	50,091	5,930 50 5	0.9%	Energy Use per Sa Et (kBtu/SE)	62 7	65.2	4.0%			