

***FY 2017***

***ENERGY  
REPORT***

***Comparison Of Usage & Cost  
FY07 - FY17***

ISD  
60709 **Duluth**  
Public Schools

# TOTAL ENERGY COSTS COMPARISON - FY07 & FY17

SITE	SQUARE FOOTAGE * EXTERNAL GROSS	ENERGY COSTS FY 07		SITE	SQUARE FOOTAGE * EXTERNAL GROSS	ENERGY COSTS FY 17		CHANGE TO TOTAL UTILITY COST	CHANGE TO COST PER SQUARE FOOT
		TOTAL UTILITY COST	COST PER SQUARE FOOT			TOTAL UTILITY COST	COST PER SQUARE FOOT		
Central Administration Building	196,120	\$111,855.23	\$0.57	HOCHS (Admin/ALC)	196,120	\$189,923.19	\$0.97	\$78,067.96	0.40
Central High School	249,768	\$219,892.00	\$0.88	CHS/STC (Closed June 2011)-Facilities Occupies STC	249,768	\$94,411.72	\$0.38	-\$125,480.28	-0.50
Congdon Park Elementary	66,520	\$59,528.00	\$0.89	Congdon Park ES	80,961	\$67,521.00	\$0.83	\$7,993.00	-0.06
Denfeld High School	258,798	\$228,608.00	\$0.88	Denfeld HS	395,703	\$278,424.15	\$0.70	\$49,816.15	-0.18
East High School	200,340	\$140,630.00	\$0.70	Ordean East MS	230,205	\$212,283.97	\$0.92	\$71,653.97	0.22
Grant Elementary/MWES	60,074	\$68,364.00	\$1.14	Myers-Wilkins ES	102,340	\$77,219.93	\$0.75	\$8,855.93	-0.38
Homecroft Elementary	46,921	\$46,007.00	\$0.98	Homecroft ES	58,140	\$61,872.37	\$1.06	\$15,865.37	0.08
Lakewood Elementary	50,607	\$43,814.00	\$0.87	Lakewood ES	50,607	\$45,841.03	\$0.91	\$2,027.03	0.04
Lester Park Elementary	48,430	\$44,672.00	\$0.92	Lester Park ES	84,252	\$79,404.66	\$0.94	\$34,732.66	0.02
Lincoln Park Elementary/Middle	170,596	\$138,832.00	\$0.81	Lincoln Park MS	204,600	\$221,393.64	\$1.08	\$82,561.64	0.27
Lowell Elementary	98,873	\$113,629.00	\$1.15	Lowell Elementary	98,226	\$101,710.89	\$1.04	-\$11,918.11	-0.11
MacArthur Elementary	155,406	\$124,866.00	\$0.80	Laura MacArthur ES	96,617	\$90,321.97	\$0.93	-\$34,544.03	0.13
Morgan Park Middle	128,628	\$122,180.00	\$0.95	Morgan Park (Sold 2015)				-\$122,180.00	-0.95
Nettleton Elementary	99,330	\$83,681.00	\$0.84	Nettleton (Closed June 2013)	99,330	\$30,137.24	\$0.30	-\$53,543.76	-0.54
Ordean Middle	128,105	\$133,027.00	\$1.04	East HS	316,069	\$197,441.96	\$0.62	\$64,414.96	-0.41
Piedmont Elementary	47,910	\$39,561.00	\$0.83	Piedmont ES	91,968	\$87,035.22	\$0.95	\$47,474.22	0.12
Rockridge Elementary	31,038	\$32,694.00	\$1.05	Rockridge (Closed June 2011)	31,038	\$13,093.45	\$0.42	-\$19,600.55	-0.63
Secondary Technical Center Main	52,863	\$66,777.00	\$1.26	Secondary Tech Center Main (Closed June 2011)	52,863	\$21,474.34	\$0.41	-\$45,302.66	-0.86
Stowe Elementary	80,203	\$75,204.00	\$0.94	Stowe ES	80,203	\$84,598.47	\$1.05	\$9,394.47	0.12
Woodland Middle	119,920	\$152,225.00	\$1.27	Woodland Sold 2012 (property) 2013 (building)				-\$152,225.00	-1.27
<b>SUB TOTAL</b>	<b>2,290,450</b>	<b>\$2,046,046.23</b>	<b>\$0.89</b>	<b>SUB TOTAL</b>	<b>2,519,010</b>	<b>\$1,954,109.20</b>	<b>\$0.78</b>	<b>-\$91,937.03</b>	<b>-0.12</b>
<b>OTHER SITES</b>									
Garfield	37,356	\$21,381.00	\$0.57	Garfield	37,395	\$20,789.69	\$0.56	-\$591.31	-0.02
Maintenance (Facilities Mgmt)	21,190	\$23,442.09	\$1.11	CHS/STC - See Above				-\$23,442.09	-1.11
Ordean Stadium	9,963	\$8,749.00	\$0.88	Included in EHS - See Above				-\$8,749.00	-0.88
Public School Stadium (PSS)	7,562	\$20,345.50	\$2.69	Public School Stadium (PSS)	7,076	\$21,572.65	\$3.05	\$1,227.15	0.36
Transportation Center	13,675	\$17,965.00	\$1.31	Transportation/Trans Shed	13,675	\$17,708.95	\$1.29	-\$256.05	-0.02
Warming House-Congdon Park	2,581	\$2,210.00	\$0.86	Warming House Congdon (Removed 2013)				-\$2,210.00	-0.86
<b>SUB TOTAL</b>	<b>92,327</b>	<b>\$94,092.59</b>	<b>\$1.02</b>	<b>SUB TOTAL</b>	<b>58,146</b>	<b>\$60,071.29</b>	<b>\$1.03</b>	<b>-\$34,021.30</b>	<b>0.01</b>
<b>TOTAL</b>	<b>2,382,777</b>	<b>\$2,140,138.82</b>	<b>\$0.90</b>	<b>TOTAL</b>	<b>2,577,156</b>	<b>\$2,014,180.49</b>	<b>\$0.78</b>	<b>-\$125,958.33</b>	<b>-0.12</b>

**CHANGE TO SQUARE FOOTAGE TIMELINE**

**TOTAL ENERGY COST SAVINGS**

**-\$125,958.33**

**TOTAL INCREASE TO SQUARE FOOTAGE FROM FY7 TO FY17: 194,379 SQUARE FEET**

SQUARE FOOTAGE IS REPORTED AS EXTERNAL GROSS SQUARE FOOTAGE

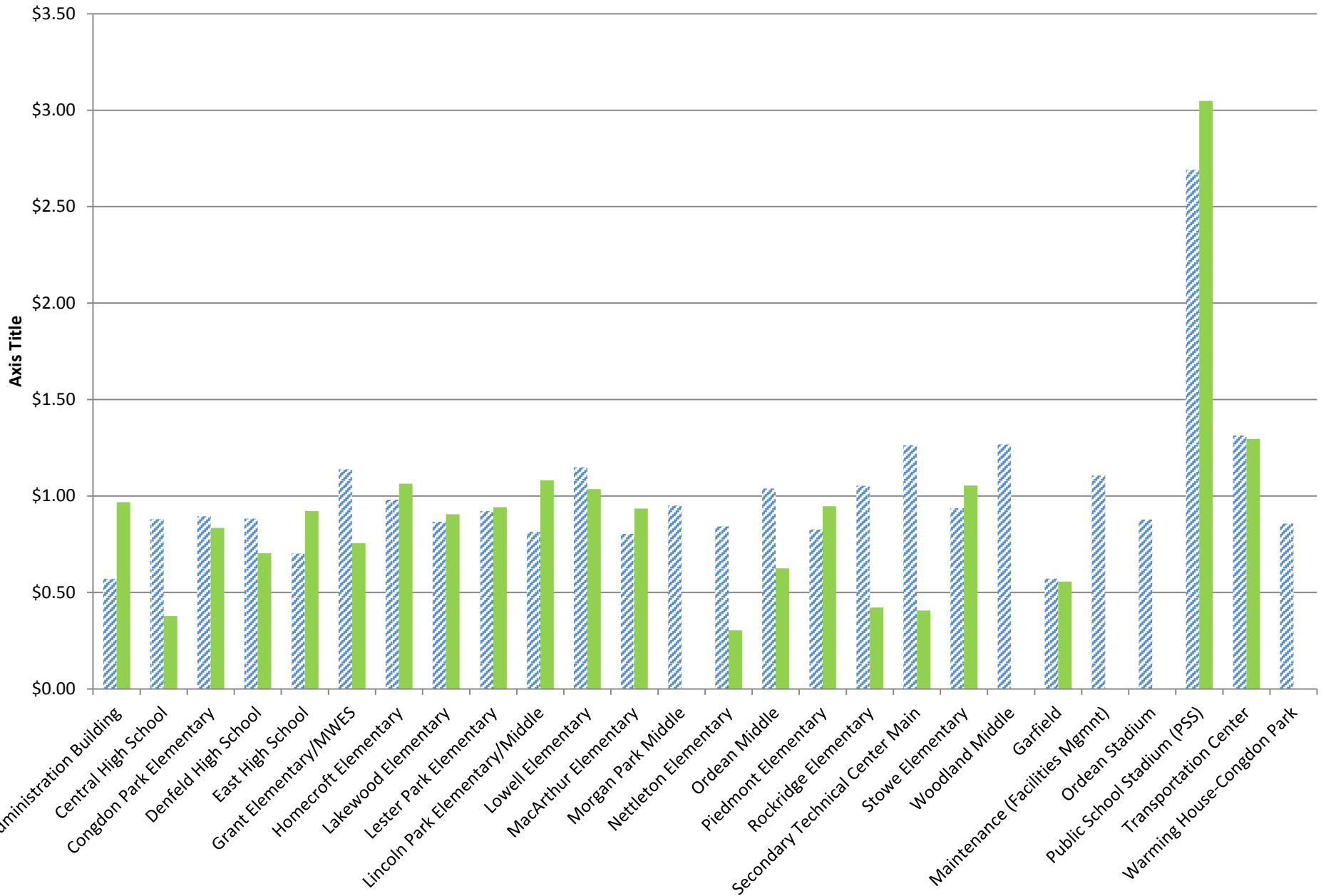
**ADDITIONS/NEW CONSTRUCTION - INCREASE TO SQUARE FOOTAGE**

- 2009 - HOMECROFT ELEMENTARY SCHOOL - ADDITION
- 2010 - DENFELD HIGH SCHOOL - ADDITION
- 2010 - EAST HS (CONVERSION FROM ORDEAN EAST MIDDLE SCHOOL)
- 2010 - ORDEAN EAST MS (CONVERSION FROM EAST HIGH SCHOOL)
- 2010 - LAURA MACARTHUR ES - DEMOLISHED & NEW CONSTRUCTION

- 2010 - LESTER PARK ES - DEMOLISHED & NEW CONSTRUCTION
- 2010 - PIEDMONT ES - DEMOLISHED & NEW CONSTRUCTION
- 2010 - LINCOLN PARK ES - SOLD & NEW CONSTRUCTION ON NEW LOCATION
- 2011 - MYERS WILKINS ELEMENTARY SCHOOL - ADDITION
- 2012 - CONGDON PARK ELEMENTARY SCHOOL - ADDITION

# ENERGY COSTS COMPARISON - COST BY SQUARE FOOT - FY07 & FY17

FY07 FY17



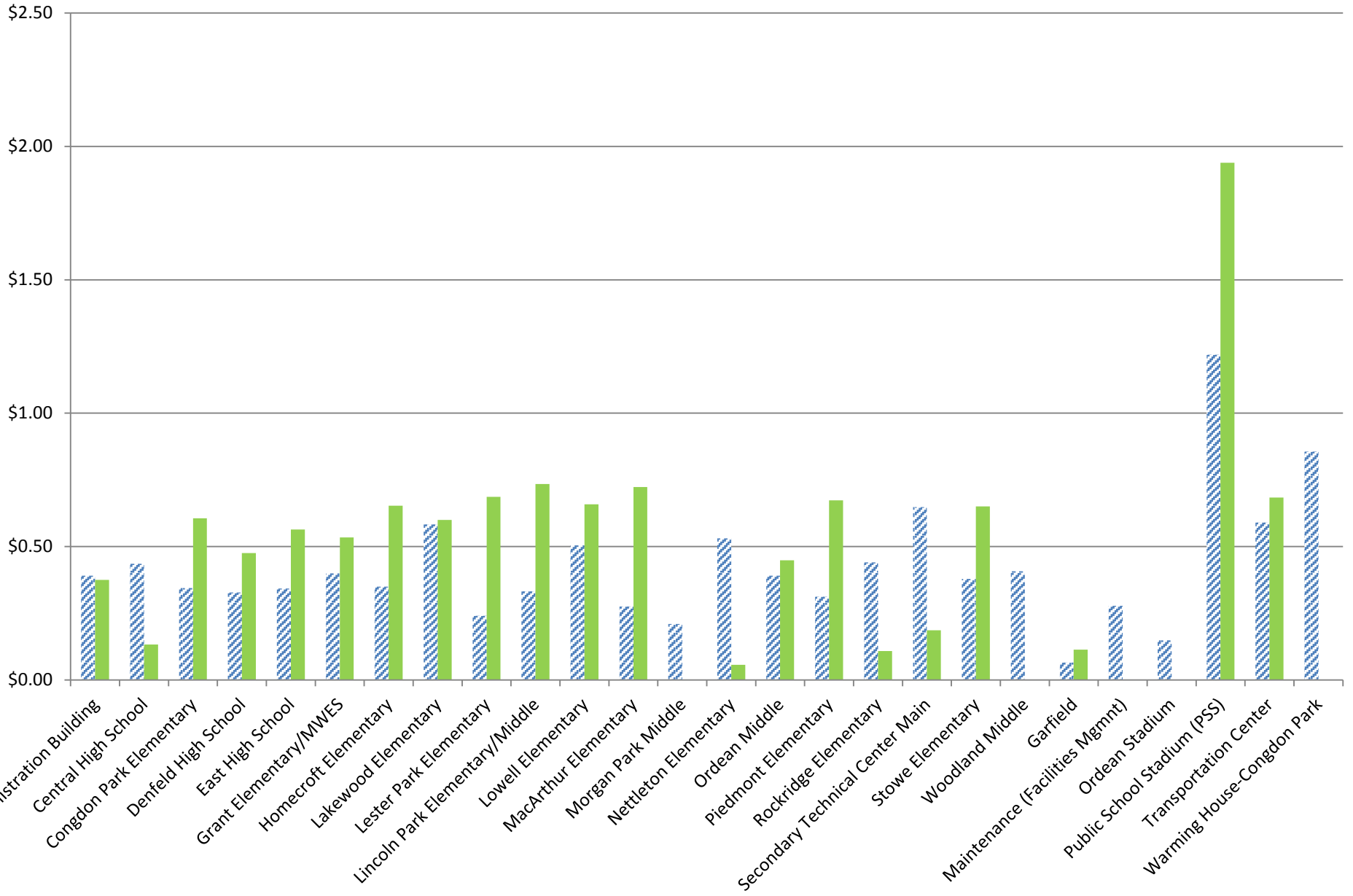
# COMPARISON OF ELECTRICITY USAGE - FY07 & FY17

SITE	FY07			SITE	FY17			CHANGE TO ELECTRICITY COST	CHANGE TO COST PER SQUARE FOOT
	ELECTRICITY/ kWh	TOTAL COST	COST PER SQUARE FOOT		ELECTRICITY/ kWh	TOTAL COST	COST PER SQUARE FOOT		
Central Administration Building	1,153,144	\$76,690	\$0.39	HOCHS (Admin/ALC)	650,645.51	\$73,689.04	\$0.38	-\$3,001.19	-\$0.02
Central High School	1,682,496	\$108,856	\$0.44	CHS/STC (Closed June 2011)-Facilities Occupies STC	339,696.00	\$33,358.66	\$0.13	-\$75,497.34	-\$0.30
Congdon Park Elementary	311,520	\$22,945	\$0.34	Congdon Park ES	445,527.37	\$49,055.22	\$0.61	\$26,110.22	0.26
Denfeld High School	1,384,600	\$85,005	\$0.33	Denfeld HS	1,875,168.00	\$188,309.72	\$0.48	\$103,304.72	0.15
East High School	958,020	\$68,766	\$0.34	Ordean East MS	1,269,651.29	\$129,944.85	\$0.56	\$61,178.85	0.22
Grant Elementary/MWES	337,064	\$24,014	\$0.40	Myers-Wilkins ES	495,485.37	\$54,731.08	\$0.53	\$30,717.08	0.14
Homecroft Elementary	225,840	\$16,410	\$0.35	Homecroft ES	339,997.16	\$37,966.53	\$0.65	\$21,556.53	0.30
Lakewood Elementary	432,888	\$29,537	\$0.58	Lakewood ES	248,239.51	\$30,380.30	\$0.60	\$843.30	0.02
Lester Park Elementary	147,396	\$11,670	\$0.24	Lester Park ES	522,956.32	\$57,849.56	\$0.69	\$46,179.56	0.45
Lincoln Park Elementary/Middle	762,560	\$56,706	\$0.33	Lincoln Park MS	1,427,161.63	\$150,286.55	\$0.73	\$93,580.55	0.40
Lowell Elementary	752,640	\$49,878	\$0.50	Lowell Elementary	541,747.20	\$64,659.68	\$0.66	\$14,781.68	0.15
MacArthur Elementary	616,634	\$42,873	\$0.28	Laura MacArthur ES	639,549.74	\$69,914.80	\$0.72	\$27,041.80	0.45
Morgan Park Middle	386,538	\$27,037	\$0.21	Morgan Park (Sold 2015)				-\$27,037.00	-\$0.21
Nettleton Elementary	716,737	\$52,724	\$0.53	Nettleton (Closed June 2013)	48,926.00	\$5,680.12	\$0.06	-\$47,043.88	-\$0.47
Ordean Middle	712,160	\$50,122	\$0.39	East HS	1,261,247.94	\$141,926.60	\$0.45	\$91,804.60	0.06
Piedmont Elementary	194,179	\$14,969	\$0.31	Piedmont ES	559,246.73	\$61,932.05	\$0.67	\$46,963.05	0.36
Rockridge Elementary	183,424	\$13,689	\$0.44	Rockridge (Closed June 2011)	28,503.00	\$3,363.20	\$0.11	-\$10,325.80	-\$0.33
Secondary Technical Center Main	492,480	\$34,244	\$0.65	Secondary Tech Center Main (Closed June 2011)	80,640.00	\$9,875.99	\$0.19	-\$24,368.01	-\$0.46
Stowe Elementary	417,300	\$30,370	\$0.38	Stowe ES	446,241.80	\$52,194.69	\$0.65	\$21,824.69	0.27
Woodland Middle	688,080	\$48,837	\$0.41	Woodland Sold 2012 (property) 2013 (building)				-\$48,837.00	-\$0.41
<b>SUB TOTAL</b>	<b>12,555,700</b>	<b>\$865,342.23</b>	<b>\$0.38</b>	<b>SUB TOTAL</b>	<b>11,220,630.55</b>	<b>\$1,215,118.63</b>	<b>\$0.48</b>	<b>\$349,776.40</b>	<b>0.10</b>
<b>OTHER SITES</b>									
Garfield	31,800	\$2,444	\$0.07	Garfield	36,290.50	\$4,249.98	\$0.11	\$1,805.98	0.05
Maintenance (Facilities Mgmt)	75,402	\$5,899	\$0.28	CHS/STC - See Above				-\$5,899.00	-\$0.28
Ordean Stadium	17,464	\$1,483	\$0.15	Included in EHS - See Above				-\$1,483.00	-\$0.15
Public School Stadium (PSS)	121,920	\$9,218	\$1.22	Public School Stadium (PSS)	112,268.74	\$13,713.30	\$1.94	\$4,495.30	0.72
Transportation Center	99,369	\$8,071	\$0.59	Transportation/Trans Shed	72,638.93	\$9,347.00	\$0.68	\$1,276.00	0.09
Warming House-Congdon Park	22,601	\$2,210	\$0.86	Removed 2013				-\$2,210.00	-\$0.86
<b>SUB TOTAL</b>	<b>368,556</b>	<b>\$29,325.00</b>	<b>\$0.32</b>	<b>SUB TOTAL</b>	<b>221,198.17</b>	<b>\$27,310.28</b>	<b>\$0.47</b>	<b>-\$2,014.72</b>	<b>0.15</b>
<b>TOTAL</b>	<b>12,924,256</b>	<b>\$894,667.23</b>	<b>\$0.38</b>	<b>TOTAL</b>	<b>11,441,828.72</b>	<b>\$1,242,428.91</b>	<b>\$0.48</b>	<b>\$347,761.68</b>	<b>0.11</b>

<b>AVG COST PER UNIT (kWh)</b> 2007 - \$0.7    2017 - \$0.11    57.142% INCREASE				<b>TOTAL ELECTRICITY (kWh) USAGE REDUCTION</b> <b>-1,482,427.28</b>		
<b>TOTAL ENERGY COST SAVINGS</b>		<b>ELECTRICITY</b> <b>\$347,761.68</b>	<b>GAS/OIL/STEAM</b> <b>-\$445,385.46</b>	<b>WATER/SEWER/STORM</b> <b>-\$28,334.54</b>	<b>-\$125,958.33</b>	

# ELECTRICITY COMPARISON - COST PER SQ FOOT - FY07 & FY17

FY07 FY17



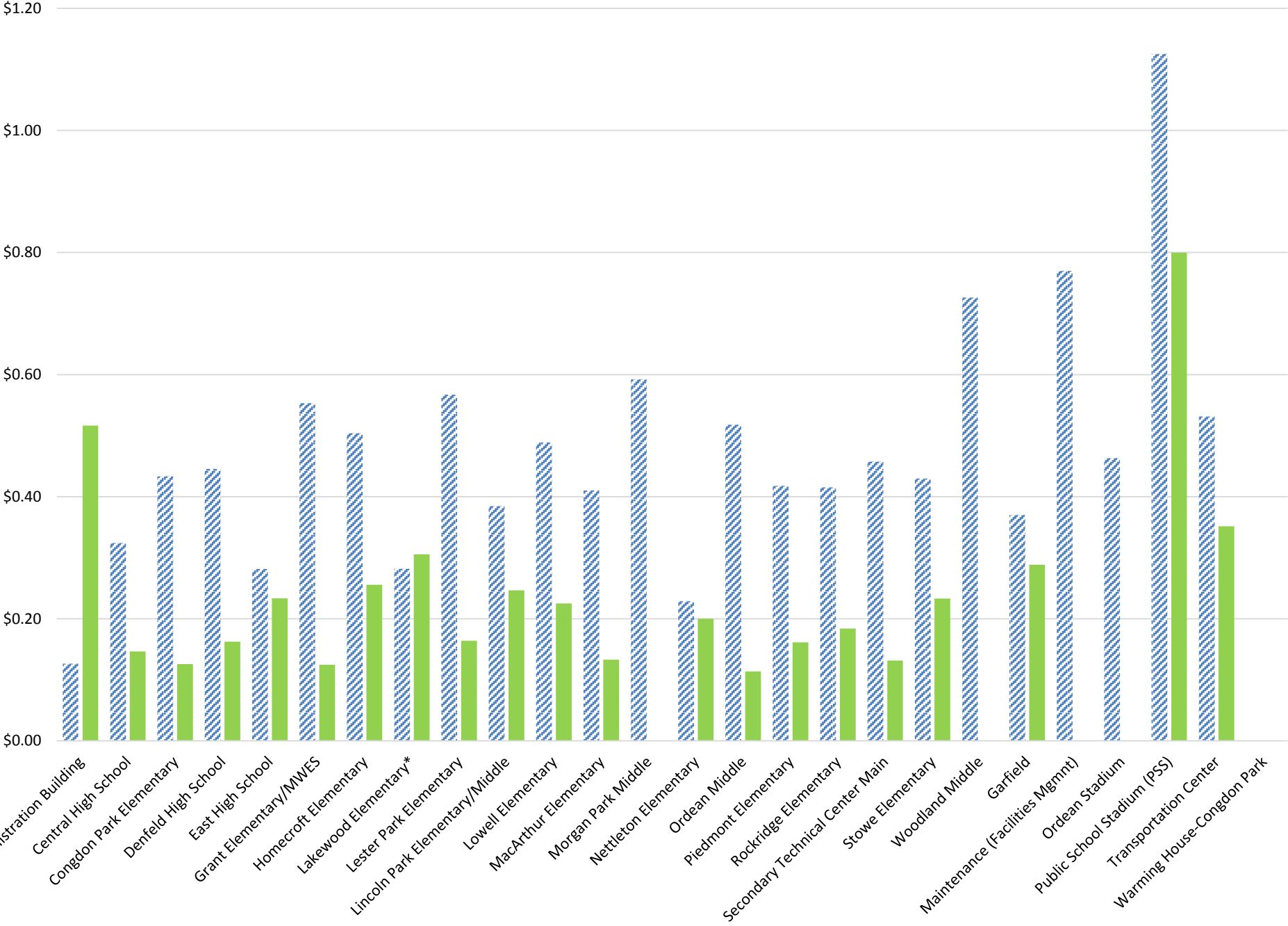


# COMPARISON OF NATURAL GAS/HEATING OIL/STEAM - FY07 & FY17

SITE	FY07			SITE	FY17			CHANGE TO GAS/OIL/STEAM COST	CHANGE TO COST PER SQUARE FOOT
	GAS/CCF OIL/GALS STEAM/LBS	TOTAL COST	COST PER SQUARE FOOT		GAS/CCF OIL/GALS STEAM/LBS	TOTAL COST	COST PER SQUARE FOOT		
Central Administration Building	2,895,234	\$24,811	\$0.13	HOCHS (Admin/ALC)	5,097,422.05	\$101,259.45	\$0.52	\$76,448.45	0.39
Central High School	102,444	\$81,000	\$0.32	CHS/STC (Closed June 2011)-Facilities Occupies STC	62,008.00	\$36,613.41	\$0.15	-\$44,386.59	-\$0.18
Congdon Park Elementary	35,053	\$28,838	\$0.43	Congdon Park ES	17,009.81	\$10,179.46	\$0.13	-\$18,658.55	-\$0.31
Denfeld High School	151,410	\$115,309	\$0.45	Denfeld HS	112,579.27	\$64,259.27	\$0.16	-\$51,049.73	-\$0.28
East High School	73,265	\$56,400	\$0.28	Ordean East MS	93,843.81	\$53,779.47	\$0.23	-\$2,620.53	-\$0.05
Grant Elementary/MWES	41,467	\$33,225	\$0.55	Myers-Wilkins ES	21,570.69	\$12,767.30	\$0.12	-\$20,457.70	-\$0.43
Homecroft Elementary	25,280	\$23,653	\$0.50	Homecroft ES	25,310.88	\$14,863.77	\$0.26	-\$8,789.23	-\$0.25
Lakewood Elementary*	7,000	\$14,277	\$0.28	Lakewood ES	9,955.85	\$15,460.73	\$0.31	\$1,183.73	0.02
Lester Park Elementary	34,039	\$27,459	\$0.57	Lester Park ES	23,272.24	\$13,820.79	\$0.16	-\$13,638.21	-\$0.40
Lincoln Park Elementary/Middle	83,862	\$65,627	\$0.38	Lincoln Park MS	88,447.78	\$50,462.95	\$0.25	-\$15,164.05	-\$0.14
Lowell Elementary	55,390	\$48,362	\$0.49	Lowell Elementary	38,039.75	\$22,102.02	\$0.23	-\$26,259.98	-\$0.26
MacArthur Elementary	82,551	\$63,746	\$0.41	Laura MacArthur ES	21,864.40	\$12,841.12	\$0.13	-\$50,904.88	-\$0.28
Morgan Park Middle	95,504	\$76,153	\$0.59	Morgan Park (Sold 2015)				-\$76,153.00	-\$0.59
Nettleton Elementary	27,600	\$22,728	\$0.23	Nettleton (Closed June 2013)	33,997.00	\$19,885.90	\$0.20	-\$2,842.10	-\$0.03
Ordean Middle	85,680	\$66,351	\$0.52	East HS	62,065.35	\$35,990.18	\$0.11	-\$30,360.82	-\$0.40
Piedmont Elementary	23,818	\$20,013	\$0.42	Piedmont ES	25,404.86	\$14,835.90	\$0.16	-\$5,177.10	-\$0.26
Rockridge Elementary	14,420	\$12,885	\$0.42	Rockridge (Closed June 2011)	9,071.00	\$5,709.53	\$0.18	-\$7,175.47	-\$0.23
Secondary Technical Center Main	27,320	\$24,183	\$0.46	Secondary Tech Center Main (Closed June 2011)	11,330.00	\$6,950.27	\$0.13	-\$17,232.73	-\$0.33
Stowe Elementary	39,170	\$34,481	\$0.43	Stowe ES	32,045.74	\$18,688.12	\$0.23	-\$15,792.88	-\$0.20
Woodland Middle	111,911	\$87,073	\$0.73	Woodland Sold 2012 (property) 2013 (building)				-\$87,073.00	-\$0.73
<b>SUB TOTAL GAS</b>	<b>1,110,184</b>	<b>\$887,486.00</b>	<b>\$0.43</b>	<b>SUB TOTAL GAS</b>	<b>677,860.58</b>	<b>\$393,749.45</b>	<b>\$0.17</b>	<b>-\$493,736.55</b>	<b>-\$0.26</b>
<b>OTHER SITES</b>									
Garfield	16,340	\$13,825	\$0.37	Garfield	18,099.00	\$10,785.00	\$0.29	-\$3,040.01	-\$0.25
Maintenance (Facilities Mgmt)	19,052	\$16,315	\$0.77	CHS/STC - See Above				-\$16,315.00	-\$0.86
Ordean Stadium	4,352	\$4,617	\$0.46	Ordean Stadium (Included in EHS - See Above)				-\$4,617.00	-\$1.06
Public School Stadium (PSS)	9,200	\$8,509	\$1.13	Public School Stadium (PSS)	9,055.03	\$5,658.39	\$0.80	-\$2,850.61	-\$0.30
Transportation Center	7,900	\$7,267	\$0.53	Transportation/Trans Shed	7,608.31	\$4,808.53	\$0.35	-\$2,458.47	-\$0.29
Warming House-Congdon Park	0	\$0	\$0.00	Removed 2013				\$0.00	0.00
<b>SUB TOTAL GAS</b>	<b>56,844</b>	<b>\$50,533.00</b>	<b>\$0.55</b>	<b>SUB TOTAL GAS</b>	<b>34,762.33</b>	<b>\$21,251.91</b>	<b>\$0.37</b>	<b>-\$29,281.09</b>	<b>-\$0.18</b>
<b>TOTAL GAS</b>	<b>1,167,028</b>	<b>\$938,019.00</b>	<b>\$0.44</b>	<b>TOTAL GAS</b>	<b>712,622.92</b>	<b>\$415,001.36</b>	<b>\$0.18</b>	<b>-\$523,017.64</b>	<b>-\$0.26</b>
<b>TOTAL STEAM</b>	<b>2,895,234</b>	<b>\$24,811.00</b>	<b>\$0.13</b>	<b>TOTAL STEAM</b>	<b>5,097,422.05</b>	<b>\$101,259.45</b>	<b>\$0.52</b>	<b>\$76,448.45</b>	<b>0.39</b>
<b>TOTAL HEATING OIL</b>	<b>7,000</b>	<b>\$14,277.00</b>	<b>\$0.28</b>	<b>TOTAL HEATING OIL</b>	<b>9,955.85</b>	<b>\$15,460.73</b>	<b>\$0.31</b>	<b>\$1,183.73</b>	<b>0.02</b>
<b>AVG COST PER SQ FOOT</b>								<b>TOTAL GAS/HEATING OIL/STEAM COST REDUCTION</b>	
2007 - \$0.46    2017 - \$0.24 <b>47.826% DECREASE</b>								<b>-\$445,385.46</b>	
<b>TOTAL ENERGY COST SAVINGS</b>			<b>ELECTRICITY</b>	<b>GAS/OIL/STEAM</b>		<b>WATER/SEWER/STORM</b>		<b>-\$125,958.33</b>	
			<b>\$347,761.68</b>	<b>-\$445,385.46</b>		<b>-\$28,334.54</b>			
<b>STEAM/LBS</b>			<b>HEATING OIL/GALLONS</b>			*Includes \$130/propane			

# NATURAL GAS/OIL/STEAM COMPARISON - COST PER SQ FT - FY07 & FY17

FY07 FY17



# COMPARISON OF WATER/SEWER/STORM USAGE - FY07 & FY17

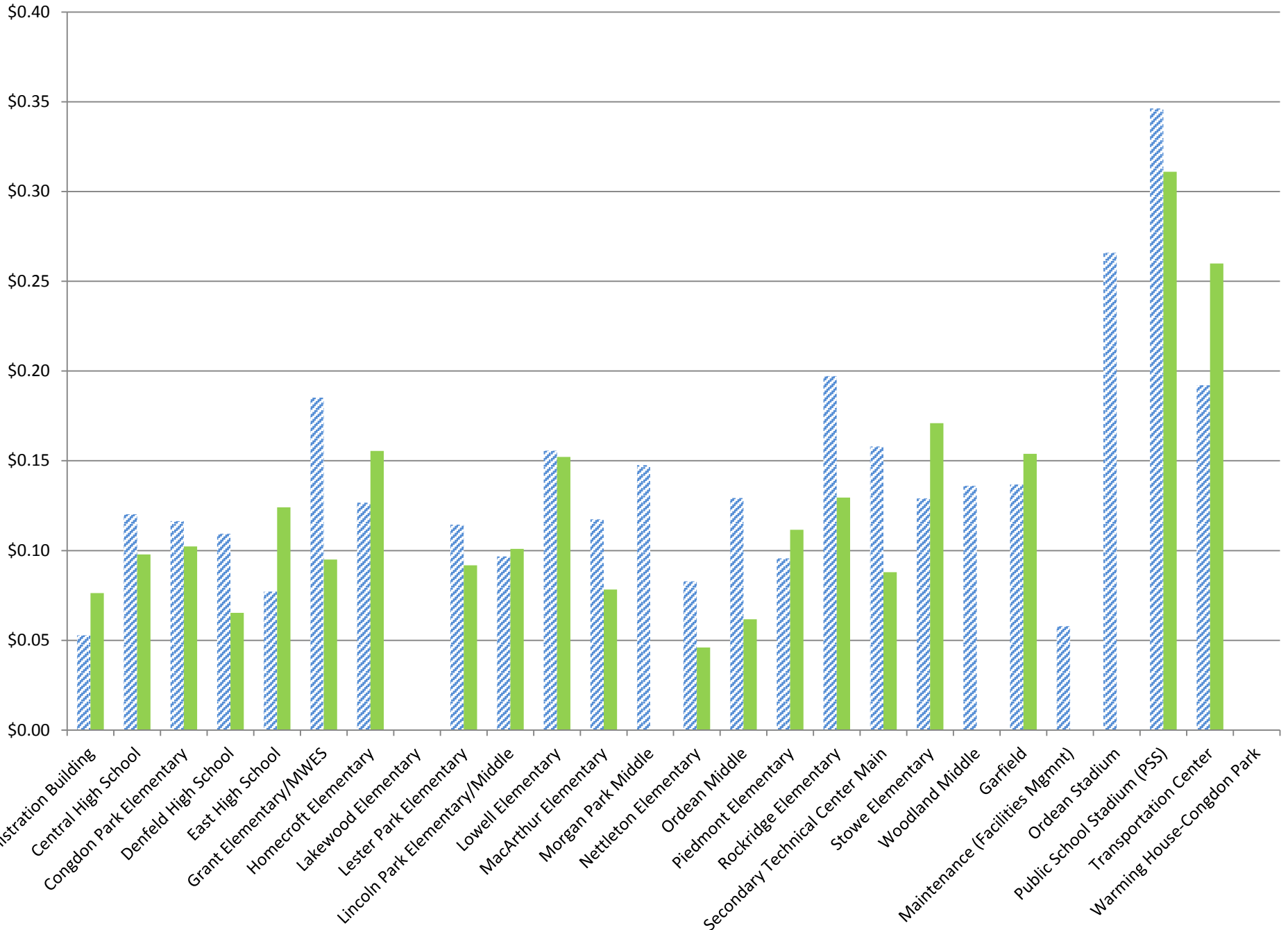
SITE	FY07			SITE	FY17			CHANGE TO WATER SEWER STORM COST	CHANGE TO COST PER SQUARE FOOT
	WATER SEWER STORM kGAL	TOTAL COST	COST PER SQ FT		WATER SEWER STORM kGAL	TOTAL COST	COST PER SQ FT		
Central Administration Building	732	\$10,354	\$0.05	HOCHS (Admin/ALC)	494.01	\$14,974.70	\$0.08	\$4,620.70	\$0.02
Central High School	2,425	\$30,036	\$0.12	CHS/STC (Closed June 2011)-Facilities Occupies STC	85.27	\$24,439.65	\$0.10	-\$5,596.35	-\$0.02
Congdon Park Elementary	795	\$7,745	\$0.12	Congdon Park ES	600.36	\$8,286.33	\$0.10	\$541.33	-\$0.01
Denfeld High School	3,132	\$28,294	\$0.11	Denfeld HS	1,039.86	\$25,855.16	\$0.07	-\$2,438.84	-\$0.04
East High School	1,295	\$15,464	\$0.08	Ordean East MS	1,384.64	\$28,559.66	\$0.12	\$13,095.66	\$0.05
Grant Elementary/MWES	1,472	\$11,125	\$0.19	Myers-Wilkins ES	496.10	\$9,721.56	\$0.09	-\$1,403.44	-\$0.09
Homecroft Elementary	384	\$5,944	\$0.13	Homecroft ES	322.35	\$9,042.07	\$0.16	\$3,098.07	\$0.03
Lakewood Elementary	0	\$0	\$0.00	Lakewood ES	262.02	\$0.00	\$0.00	\$0.00	\$0.00
Lester Park Elementary	881	\$5,543	\$0.11	Lester Park ES	554.75	\$7,734.31	\$0.09	\$2,191.31	-\$0.02
Lincoln Park Elementary/Middle	2,092	\$16,499	\$0.10	Lincoln Park MS	1,805.79	\$20,644.14	\$0.10	\$4,145.14	\$0.00
Lowell Elementary	1,545	\$15,389	\$0.16	Lowell Elementary	522.70	\$14,949.19	\$0.15	-\$439.81	\$0.00
MacArthur Elementary	2,403	\$18,247	\$0.12	Laura MacArthur ES	544.05	\$7,566.05	\$0.08	-\$10,680.95	-\$0.04
Morgan Park Middle	2,478	\$18,990	\$0.15	Morgan Park (Sold 2015)				-\$18,990.00	-\$0.15
Nettleton Elementary	910	\$8,229	\$0.08	Nettleton (Closed June 2013)	49.37	\$4,571.22	\$0.05	-\$3,657.78	-\$0.04
Ordean Middle	1,863	\$16,554	\$0.13	East HS	1,872.15	\$19,525.18	\$0.06	\$2,971.18	-\$0.07
Piedmont Elementary	411	\$4,579	\$0.10	Piedmont ES	554.42	\$10,267.27	\$0.11	\$5,688.27	\$0.02
Rockridge Elementary	576	\$6,120	\$0.20	Rockridge (Closed June 2011)	1.50	\$4,020.72	\$0.13	-\$2,099.28	-\$0.07
Secondary Technical Center Main	864	\$8,350	\$0.16	Secondary Tech Center Main (Closed June 2011)	0.00	\$4,648.08	\$0.09	-\$3,701.92	-\$0.07
Stowe Elementary	692	\$10,353	\$0.13	Stowe ES	377.49	\$13,715.66	\$0.17	\$3,362.66	\$0.04
Woodland Middle	1,896	\$16,315	\$0.14	Woodland Sold 2012 (property) 2013 (building)				-\$16,315.00	-\$0.14
<b>SUB TOTAL</b>	<b>26,846</b>	<b>\$254,130.00</b>	<b>\$0.11</b>	<b>SUB TOTAL</b>	<b>10,966.83</b>	<b>\$228,520.95</b>	<b>\$0.09</b>	<b>-\$25,609.05</b>	<b>-\$0.02</b>
<b>OTHER SITES</b>									
Garfield	446	\$5,112	\$0.14	Garfield	185.61	\$5,754.72	\$0.15	\$642.72	\$0.02
Maintenance (Facilities Mgmt)	104	\$1,228	\$0.06	CHS/STC - See Above				-\$1,228.09	-\$0.06
Ordean Stadium	410	\$2,649	\$0.27	Included in EHS - See Above				-\$2,649.00	-\$0.27
Public School Stadium (PSS)	407	\$2,619	\$0.35	Public School Stadium (PSS)	150.12	\$2,200.96	\$0.31	-\$417.54	-\$0.04
Transportation Center	122	\$2,627	\$0.19	Transportation/Trans Shed	66.88	\$3,553.42	\$0.26	\$926.42	\$0.07
Warming House-Congdon Park	0	\$0	\$0.00	Removed 2013				\$0.00	\$0.00
<b>SUB TOTAL</b>	<b>1,489</b>	<b>\$14,234.59</b>	<b>\$0.15</b>	<b>SUB TOTAL</b>	<b>402.61</b>	<b>\$11,509.10</b>	<b>\$0.20</b>	<b>-\$2,725.49</b>	<b>\$0.04</b>
<b>TOTAL</b>	<b>28,335</b>	<b>\$268,364.59</b>	<b>\$0.11</b>	<b>TOTAL</b>	<b>11,369.44</b>	<b>\$240,030.05</b>	<b>\$0.09</b>	<b>-\$28,334.54</b>	<b>-\$0.02</b>

<b>AVG COST PER SQ FOOT</b>				<b>TOTAL WATER/SEWER/STORM COST REDUCTION</b>			<b>-\$28,334.54</b>
<b>2007 - \$0.13</b>	<b>2017 - \$0.12</b>	<b>7.692%</b>	<b>DECREASE</b>				
<b>TOTAL ENERGY COST SAVINGS</b>		<b>ELECTRICITY</b>	<b>GAS/OIL/STEAM</b>	<b>WATER/SEWER/STORM</b>		<b>-\$125,958.33</b>	
		<b>\$347,761.68</b>	<b>-\$445,385.46</b>	<b>-\$28,334.54</b>			



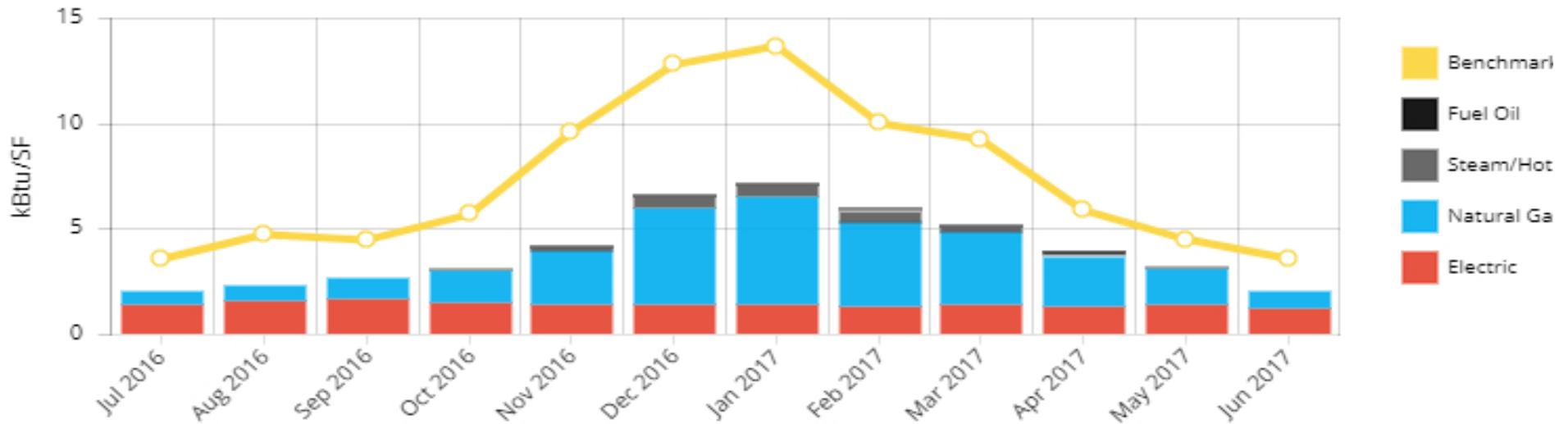
# WATER/SEWER/STORM COMPARISON - COST PER SQ FT - FY07 & FY17

     FY07   
      FY17



# BENCHMARK REPORT

## \*SF NORMALIZED

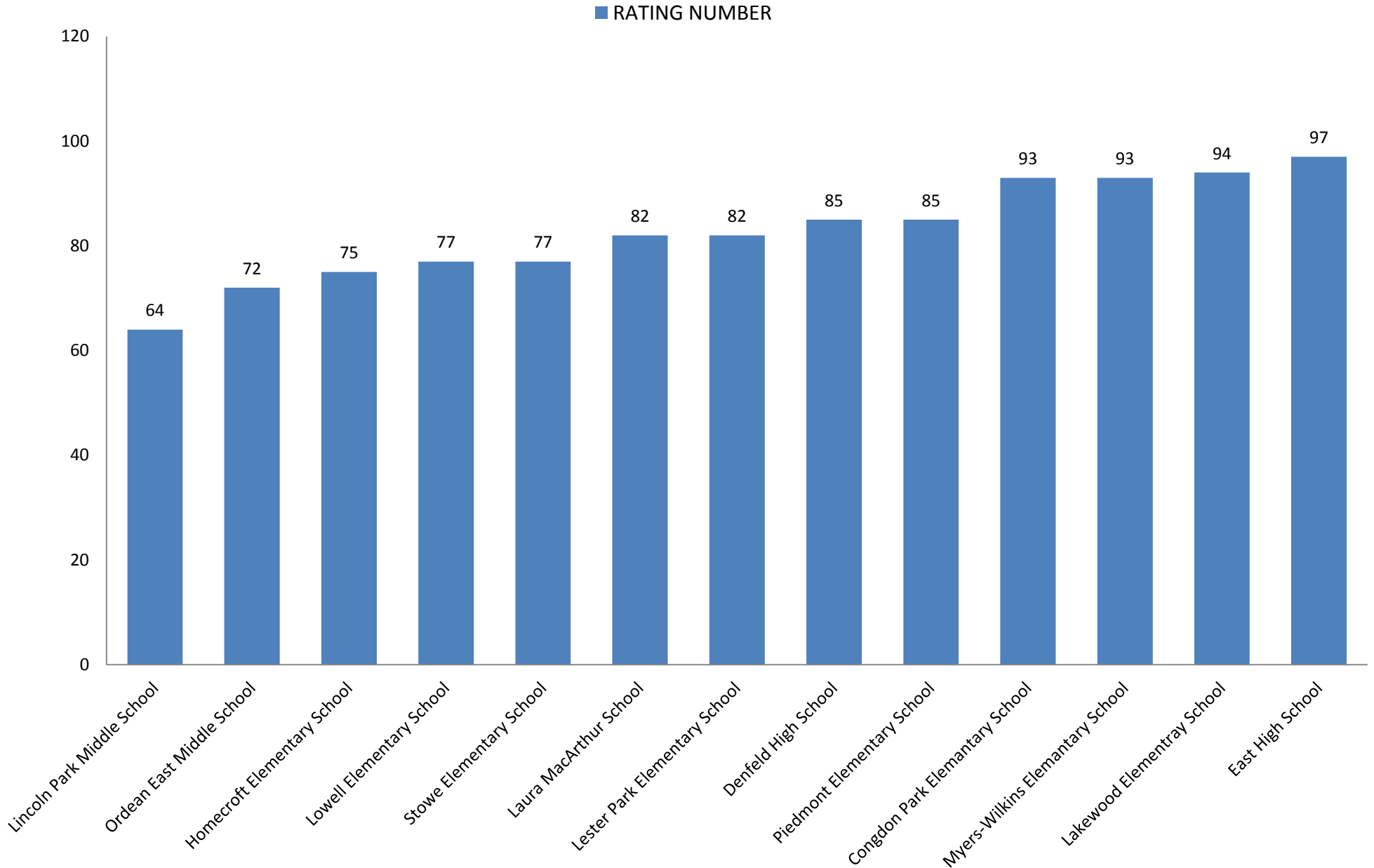


Displays benchmarking consumption (electricity, natural gas, heating oil, steam) as a line to represent the expected consumption were the site built to current energy code.

\*SF Normalized - "Normalize" consumption by square footage. This changes the units on the vertical y-axis.

# CURRENT ENERGY STAR RATING

ENERGY STAR® is a national program designed to promote energy efficiency. B3 Benchmarking automatically creates an ENERGY STAR Portfolio Manager property for each site and transfers building and meter information for the purpose





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

Climate Protection Partnership Division  
U.S. EPA 6202A  
Washington, DC 20460

OFFICE OF AIR AND RADIATION

July 03, 2017

Dave Spooner  
730 East Central Entrance  
Duluth, MN 55811

Dear Dave Spooner:

Congratulations! You have earned EPA's ENERGY STAR for Minnesota Public, K12, Duluth Public Schools, Denfeld High School [MN008282], located at 401 North 44th Avenue West, Duluth, MN 55807. This letter outlines all the ways you can promote your achievement:

**Decal and certificate:** To help you identify your building as one of America's energy all-stars, enclosed is a certificate of achievement and an ENERGY STAR certification decal that bears the well-recognized ENERGY STAR certification mark. If applicable, we've also enclosed an anniversary decal that you can affix below the main decal. We encourage you to affix the decal prominently near the exterior entrance of your building. Find instructions at [www.energystar.gov/Promote](http://www.energystar.gov/Promote).

**Promotional toolkit:** We have more than a dozen ready-to-use promotional materials for you, such as social media graphics, sample text, posters, a 30-second audio clip, and more. Find them at [www.energystar.gov/Promote](http://www.energystar.gov/Promote).

**Online store:** You can also purchase metal or glass plaques, flags, banners, and static cling decals from the ENERGY STAR online store at [www.energystar.gov/OnlineStore](http://www.energystar.gov/OnlineStore).

**Registry listing:** Your building is now listed in our registry at [www.energystar.gov/buildinglist](http://www.energystar.gov/buildinglist). If you have not already done so, please submit a photo of your building. Simply log in to Portfolio Manager, click on the building name, and follow the instructions.

**ENERGY STAR logo:** We hope you will proudly use the ENERGY STAR certification logo, which was attached to your "Congratulations" email, in any materials about your building or this achievement. Before doing so, please refer to the US EPA's logo guidelines at [www.energystar.gov/LogoUse](http://www.energystar.gov/LogoUse).

Again, congratulations on your commitment to energy efficiency. We look forward to receiving your application for the ENERGY STAR again next year!

Sincerely,

A handwritten signature in black ink that reads "Jean Lupinacci".

Jean Lupinacci

Director, Commercial & Industrial Branch  
ENERGY STAR

Enclosures:  
(1) ENERGY STAR Labeled Building Award Decal



2017

In recognition of superior energy performance,  
the U.S. Environmental Protection Agency awards  
the ENERGY STAR® to

Minnesota Public, K12,  
Duluth Public Schools,  
Denfeld High School  
[MN008282]

Buildings that earn EPA's ENERGY STAR use 35 percent  
less energy and generate 35 percent fewer greenhouse  
gas emissions than similar buildings across the nation.



Jean Lupinacci  
Director, ENERGY STAR Commercial & Industrial Branch

July 03, 2017

Date



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



Climate Protection Partnership Division  
U.S. EPA 6202A  
Washington, DC 20460

OFFICE OF AIR AND RADIATION

March 06, 2017

David Spooner  
215 North 1st Avenue East  
Duluth, MN 55802

Dear David Spooner:

Congratulations! You have earned EPA's ENERGY STAR for Minnesota Public, K12, Duluth Public Schools, East High School [MN008283], located at 301 North 40th Avenue East, Duluth, MN 55804 (Registry name: Duluth East High School). This letter outlines all the ways you can promote your achievement:

**Decal and certificate:** To help you identify your building as one of America's energy all-stars, enclosed is a certificate of achievement and an ENERGY STAR certification decal that bears the well-recognized ENERGY STAR certification mark. If applicable, we've also enclosed an anniversary decal that you can affix below the main decal. We encourage you to affix the decal prominently near the exterior entrance of your building. Find instructions at [www.energystar.gov/Promote](http://www.energystar.gov/Promote).

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Again, congratulations on your commitment to energy efficiency. We look forward to receiving your application for the ENERGY STAR again next year!

Sincerely,

Jean Lupinacci

Director, Commercial & Industrial Branch  
ENERGY STAR

Enclosures:

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2017

In recognition of superior energy performance,  
the U.S. Environmental Protection Agency awards  
the ENERGY STAR® to

## Duluth East High School

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*Jean Lupinacci*

Jean Lupinacci  
Director, ENERGY STAR Commercial & Industrial Branch

March 06, 2017

Date