

2022-2023 ANNUAL ENERGY REPORT

Buildings & Grounds



Factors Affecting Energy Usage





WEATHER DATA

Heating & Cooling Degree Day Comparisons

Year		2018-2019			2019-2020			2020-2021			2021-2022			2022-2023	
Month	Heating	Cooling	Total												
July	0	285	285	0	319	319	0	370	370	3	274	277	0	285	285
August	1	281	282	2	211	213	3	270	273	0	332	332	0	260	260
September	74	108	182	22	67	89	100	19	119	15	51	66	89	78	167
October	437	20	457	467	9	476	498	1	499	203	27	230	379	7	386
November	918	0	918	918	0	918	550	5	555	742	0	742	656	0	656
December	1007	0	1007	970	0	970	1021	0	1021	910	0	910	1080	0	1080
January	1353	0	1353	1072	0	1072	1141	0	1141	1372	0	1372	1019	0	1019
February	1139	0	1139	1071	0	1071	1258	0	1258	1082	0	1082	926	0	926
March	991	0	991	782	0	782	721	0	721	861	0	861	888	0	888
April	550	0	550	622	0	622	477	5	482	584	0	584	477	18	495
May	334	9	343	337	35	372	258	64	322	222	71	293	237	18	255
June	89	67	156	36	188	224	3	234	237	34	188	222	44	122	166
Totals	6893	770	7663	6299	829	7128	6030	968	6998	6028	943	6971	5795	788	6583

Degree days are based on the assumption that when the outside temperature is 65°F, we don't need heating or cooling to be comfortable. Degree days are the difference between the daily temperature mean, (high temperature plus low temperature divided by two) and 65°F. If the temperature mean is above 65°F, we subtract 65 from the mean and the result is *Cooling Degree Days*. If the temperature mean is below 65°F, we subtract the mean from 65 and the result is *Heating Degree Days*.



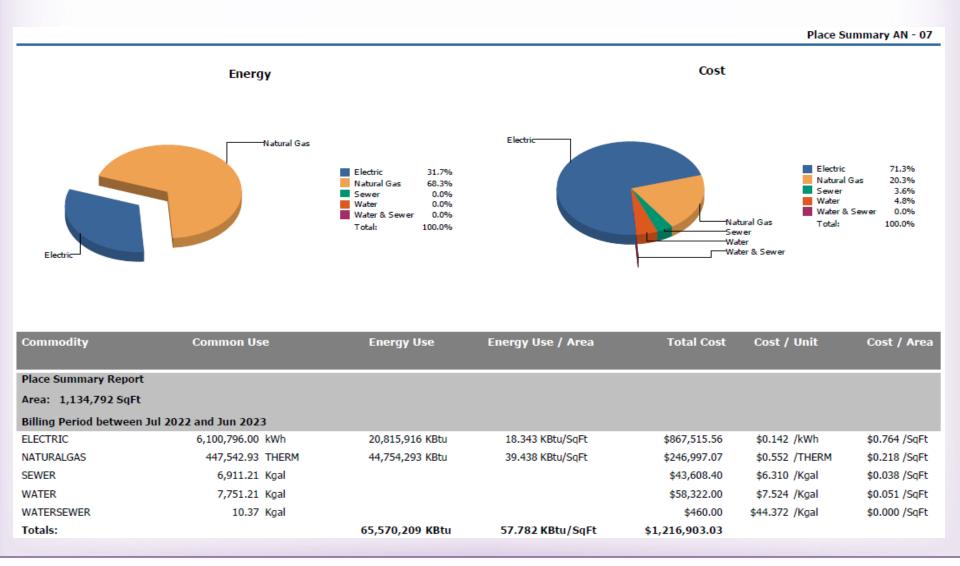
FACILITY REQUESTS (IN HOURS)

Site	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
Oconomowoc High School Main Campus	14,890	17,269	17,269	11,139	16,698	18,616	13,838
Oconomowoc High School East Campus	N/A	N/A	287	211	229	130	440
Nature Hill Intermediate School	4,065	4,407	4,498	3,950	4,557	5,034	4,626
Silver Lake Intermediate School	4,433	4,586	4,613	2,184	3,260	2,637	2,997
Meadow View Elementary School	1,731	2,924	3,008	2,670	4,188	3,339	2,585
Ixonia Elementary School	250	922	957	846	800	636	1,092
Summit Elementary School	2,220	1,971	2,164	1,566	2,254	2,407	2,484
Greenland Elementary School	1,364	1,512	1,474	1,390	1,188	1,066	2,077
Park Lawn Elementary School	1,848	1,611	1,657	1,071	1,436	1,546	1,595
OASD Total	30,801	35,202	35 <mark>,</mark> 927	25,027	34,610	35,411	31,734

*Disclaimer – There are many variables that have an effect on facility scheduling requests and reports. This makes it difficult to get an accurate comparison from year to year or even school to school. These reports have been gone through and edited by the B&G Dept. to make them as accurate as possible.



2022-2023 DISTRICT OVERVIEW





2022-2023 Cost Comparisons

Total Cost Per Building: 1 Year @

2

Oconomowoc High School \$357,168	Nature Hill Intermediate School \$129,331	New Meadow View Elem \$116,428	s	Summit Elementary School \$77,748		
	Silver Lake Intermediate School \$126,870	Park Lawn Elementary School \$55,437	OCONOMOWOC HIGH SCHOOL EAS CAMPUS \$53,225		Ixonia Elementary School \$44,584	
		Greenland Elementary School \$54,619	Old Meadow View Elementary School \$27,323	Athle Fields \$24,6	5	



FIVE YEAR COMPARISON **ELECTRIC USF**

Place Current 2019 2020 2021 2022 2023 Change % vs. Change vs. Floor Area Last Year Last Year Usage in: KWH Athletic Fields 5,000 SaFt 103,510 91,960 100,241 57,646 9,017 15.6 66,663 Greenland Elementary School 299,819 259,075 -10.1 63,242 SqFt 352,410 286,420 288,092 -29,017 Grounds Facility 13,293 692 5.5 5,000 SqFt 15,021 12,371 13,467 12,601 Ixonia Elementary School -15.8 49,839 SqFt 245,520 209,280 245,660 280,730 236,448 -44,282 Nature Hill Intermediate School -9.2 123,017 SqFt 859,416 720,944 876,419 791,977 718,735 -73,242 New Meadow View Elementary 117,000 SqFt 447,864 672,033 712,647 640,147 -72,500 -10.2 OCONOMOWOC HIGH SCHOOL 48,000 SqFt 373,122 378,041 399,933 458,708 452,371 -6,337 -1.4 EAST CAMPUS Oconomowoc High School 352,881 SqFt 2,522,359 2,230,035 2,474,197 2,527,782 2,171,594 -356,188 -14.1 Old Meadow View Elementary 89,618 SqFt 332,760 159,600 164,711 119,307 86,191 -33,116 -27.8School Park Lawn Elementary School 74,409 SaFt 354,424 272,601 339,076 319,605 270,295 -49,310 -15.4Physical Development Center 5.000 SqFt 104,572 110,645 92,961 95,460 62,013 -33,447 -35.0 Silver Lake Intermediate School 790,938 666,046 886,685 816,900 -151,939 -18.6 123,017 SqFt 664,961 Summit Elementary School 78,069 SaFt 481,899 404,454 550,660 493,231 459,010 -34,221 -6.9 1,134,092 SqFt 6,535,951 5,990,261 7,115,862 6,974,686 6,100,796 -873,890 -12.5

EMPOWERING A COMMUNITY OF LEARNERS AND LEADERS

Oconomowoc Area School District

Five Year Use Comparison - YY12



FIVE YEAR COMPARISON ELECTRIC COST

Oconomowoc Area School Di	strict					Five	Year Cost Com	parison - YY10
Place	Current Floor Area	2019	2020	2021	2022	2023	Change vs. Last Year	Change % vs. Last Year
Athletic Fields	5,000 SqFt	\$17,004	\$17,872	\$20,312	\$18,946	\$21,428	2,482	13.1
Greenland Elementary School	63,242 SqFt	\$44,740	\$37,891	\$37,212	\$39,776	\$38,123	(1,654)	(4.2)
Grounds Facility	5,000 SqFt	\$1,734	\$1,605	\$1,595	\$1,596	\$1,741	145	9.1
Ixonia Elementary School	49,839 SqFt	\$33,485	\$28,956	\$35,325	\$42,402	\$38,131	(4,271)	(10.1)
Nature Hill Intermediate School	123,017 SqFt	\$107,435	\$95,106	\$111,902	\$112,894	\$113,075	181	0.2
New Meadow View Elementary	117,000 SqFt		\$57,692	\$95,391	\$105,807	\$102,205	(3,602)	(3.4)
OCONOMOWOC HIGH SCHOOL EAST CAMPUS	48,000 SqFt	\$37,814	\$37,912	\$39,593	\$47,849	\$48,479	630	1.3
Oconomowoc High School	352,881 SqFt	\$261,748	\$237,644	\$255,882	\$285,863	\$276,345	(9,518)	(3.3)
Old Meadow View Elementary School	89,618 SqFt	\$41,630	\$18,265	\$19,166	\$16,061	\$12,034	<mark>(</mark> 4,027)	(25.1)
Park Lawn Elementary School	74,409 SqFt	\$45,444	\$37,549	\$42,528	\$42,646	\$39,291	(3,354)	(7.9)
Physical Development Center	5,000 SqFt	\$19,103	\$19,319	\$17,483	\$15,603	\$12,185	(3,418)	(21.9)
Silver Lake Intermediate School	123,017 SqFt	\$96,314	\$84,333	\$103,431	\$106,901	\$99,233	(7,667)	(7.2)
Summit Elementary School	78,069 SqFt	\$62,912	\$54,336	\$70,289	\$65,809	\$65,244	(565)	(0.9)
	1,134,092 SqFt	\$769,364	\$728,480	\$850,108	\$902,153	\$867,516	(34,637)	(3.8)



FIVE YEAR COMPARISON NATURAL GAS USE

Oconomowoc Area School District Five Year Use Comparison - YY12 Place 2019 2021 2022 2023 Change % vs. Current 2020 Change vs. Floor Area Last Year Last Year Usage in: THERM Greenland Elementary School 25,437 20,209 25,203 21,599 25,421 -3,822 -15.063,242 SqFt Grounds Facility -28.6 3,261 2,946 2,219 -889 5,000 SqFt 3,112 3,108 Ixonia Elementary School 21,911 -7,287 -29.1 49,839 SqFt 21,166 16,548 25,026 17,739 Nature Hill Intermediate School 123,017 SqFt 61,876 52,639 68,957 57,543 45,596 -11,947 -20.8 New Meadow View Elementary 52,815 117,000 SqFt 50,076 52,965 44,700 -8,265 -15.6OCONOMOWOC HIGH SCHOOL 10,244 10,484 9,961 -5.0 48,000 SaFt 9,611 8,798 -523 EAST CAMPUS Oconomowoc High School 352,881 SqFt 206,315 178,396 219,840 193,463 172,972 -20,491 -10.6Old Meadow View Elementary -26.9 89,618 SqFt 43,553 37,509 41,917 38,669 28,264 -10,405 School Park Lawn Elementary School 29,037 22,990 26,283 26,207 21,947 -4,260 74,409 SaFt -16.3Physical Development Center 5,009 -1,355 5,000 SqFt 3,277 2,483 3,317 1,962 -40.8 Silver Lake Intermediate School 123,017 SaFt 68,140 59,674 74,376 75,162 53,181 -21,981 -29.2 Summit Elementary School 78,069 SqFt 27,461 32,159 32,081 27,404 -4,677 -14.6 22,851 1,129,092 SqFt 500,866 476,079 579,134 -17.6 543,446 447,543 -95,903



Oconomowoc Area School District

FIVE YEAR COMPARISON NATURAL GAS COST

Five Year Cost Comparison - YY10

Place	Current Floor Area	2019	2020	2021	2022	2023	Change vs. Last Year	Change % vs. Last Year
Greenland Elementary School	63,242 SqFt	\$12,488	\$10,650	\$14,458	\$13,784	\$12,393	(1,391)	(10.1)
Grounds Facility	5,000 SqFt	\$1,915	\$1,667	\$2,001	\$2,426	\$2,090	(336)	(13.8)
Ixonia Elementary School	49,839 SqFt	\$10,294	\$8,844	\$12,760	\$13,623	\$10,354	(3,269)	(24.0)
Nature Hill Intermediate School	123,017 SqFt	\$27,483	\$25,788	\$36,375	\$29,404	\$24,672	(4,732)	(16.1)
New Meadow View Elementary	117,000 SqFt		\$23,557	\$27,309	\$27,503	\$24,956	(2,547)	(9.3)
OCONOMOWOC HIGH SCHOOL EAST CAMPUS	48,000 SqFt	\$5,309	\$5,226	\$6,724	\$6,308	\$6,161	(148)	(2.3)
Oconomowoc High School	352,881 SqFt	\$91,116	\$81,761	\$110,421	\$99,091	\$90,594	(8,496)	(8.6)
Old Meadow View Elementary School	89,618 SqFt	\$21,080	\$19,338	\$23,247	\$20,489	\$15,849	(4,640)	(22.6)
Park Lawn Elementary School	74,409 SqFt	\$14,068	\$11,950	\$14,945	\$14,424	\$12,953	(1,471)	(10.2)
Physical Development Center	5,000 SqFt	\$2,983	\$1,870	\$1,730	\$2,748	\$1,899	(849)	(30.9)
Silver Lake Intermediate School	123,017 SqFt	\$32,479	\$28,908	\$40,364	\$37,438	\$29,742	(7,696)	(20.6)
Summit Elementary School	78,069 SqFt	\$13,379	\$11,992	\$17,726	\$17,104	\$15,332	(1,772)	(10.4)
	1,129,092 SqFt	\$232,593	\$231,551	\$308,059	\$284,343	\$246,997	(37,346)	(13.1)



FIVE YEAR COMPARISON WATER USE

Place Current 2019 2020 2021 2022 2023 Change vs. Change % vs. Floor Area Last Year Last Year Usage in: KGAL Athletic Fields 114 138 505 841 336 66.5 5,000 SqFt 1,115 Greenland Elementary School -16.4 63,242 SqFt 699 528 553 494 413 -81 Nature Hill Intermediate School 123,017 SqFt 715 544 556 678 680 2 0.2 New Meadow View Elementary 117,000 SqFt 370 520 495 31 6.7 464 OCONOMOWOC HIGH SCHOOL 48,000 SqFt 179 136 138 188 186 -2 -1.2 EAST CAMPUS 7.9 Oconomowoc High School 352,881 SqFt 3,098 2,658 2,649 3,308 3,570 262 Park Lawn Elementary School -5.5 709 519 620 598 565 -33 74,409 SqFt

EMPOWERING A COMMUNITY OF LEARNERS AND LEADERS

9

396

289

5,563

13

450

418

6,055

56

586

434

7,311

24

543

435

7,751

21

557

421

7,514

5,000 SqFt

123,017 SqFt

78,069 SqFt

989,635 SqFt

Oconomowoc Area School District

Physical Development Center

Silver Lake Intermediate School

Summit Elementary School

Five Year Use Comparison - YY12

-32

-43

1

440

-57.1

-7.4

0.3

6.0



FIVE YEAR COMPARISON WATER COST

Oconomowoc Area School District

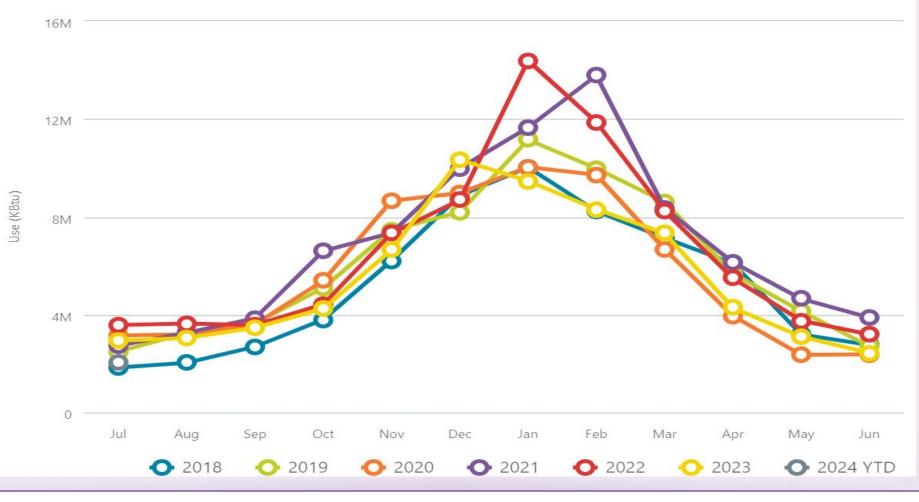
Five Year Cost Comparison - YY10

Diana	Cumunt	2010	2020	2021	2022	2022	Change	Ohanaa 0/ ees
Place	Current Floor Area	2019	2020	2021	2022	2023	Change vs. Last Year	Change % vs. Last Year
Athletic Fields	5,000 SqFt	\$5,877	\$2,609	\$2,474	\$4,712	\$5,957	1,244	26.4
Greenland Elementary School	63,242 SqFt	\$3,047	\$2,518	\$2,815	\$3,927	\$4,029	102	2.6
Nature Hill Intermediate School	123,017 SqFt	\$4,081	\$3,535	\$3,594	\$5,585	\$6,090	505	9.0
New Meadow View Elementary	117,000 SqFt		\$2,583	\$3,097	\$4,374	\$5,000	626	14.3
OCONOMOWOC HIGH SCHOOL EAST CAMPUS	48,000 SqFt	\$1,475	\$1,521	\$1,537	\$2,482	\$2,641	159	6.4
Oconomowoc High School	352,881 SqFt	\$11,982	\$10,481	\$10,553	\$18,004	\$20,399	2,394	13.3
Park Lawn Elementary School	74,409 SqFt	\$3,096	\$2,491	\$2,830	\$4,353	\$4,665	312	7.2
Physical Development Center	5,000 SqFt	\$162	\$119	\$130	\$376	\$324	(52)	(13.8)
Silver Lake Intermediate School	123,017 SqFt	\$3,501	\$3,045	\$3,227	\$5,223	\$5,528	305	5.8
Summit Elementary School	78,069 SqFt	\$2,456	\$2,020	\$2,455	\$3,386	\$3,690	304	9.0
	989,635 SqFt	\$35,676	\$30,923	\$32,712	\$52,423	\$58,322	5,899	11.3



Five Year Energy Use Trend

5 Year Monthly Use Trend

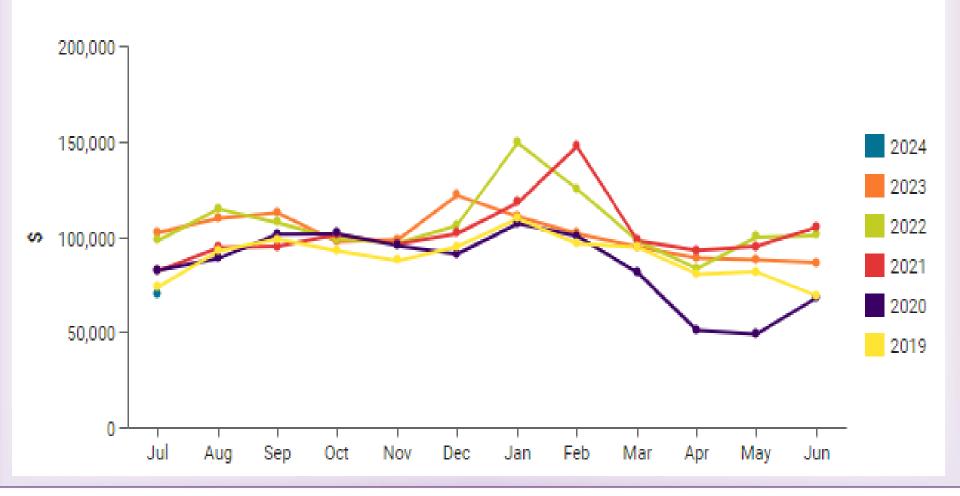




Five Year Energy Cost Trend

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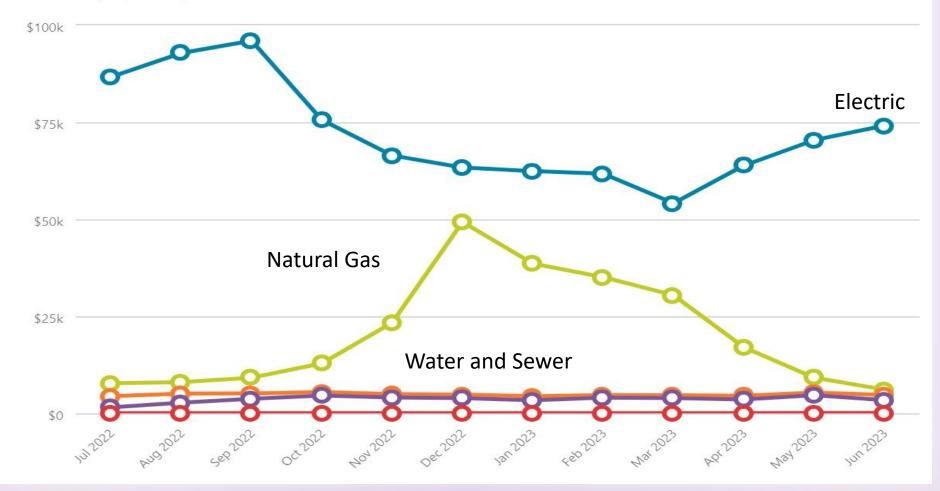
5 Year Monthly Cost Trend @





Commodity Spending Trend

Commodity Spending Trend





TEN YEAR SKYWARD UTILITIES COMPARISON (ACTUAL)

2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
\$1,164,209	\$1,129,218	\$1,041,728	\$1,069,991	\$1,010,991

2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
\$1,145,893	\$1,025,611	\$1,201,430	\$1,314,732	\$1,285,059

*TOTALS INCLUDE DISTRICT-WIDE NATURAL GAS, ELECTRICITY, WATER, SEWER AND GARBAGE DISPOSAL COSTS FOR THE FISCAL YEAR

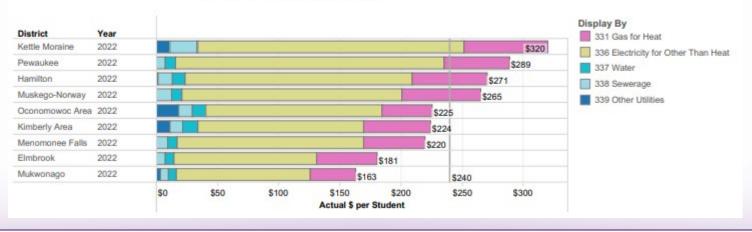


2022-2023 PEER DISTRICTS UTILITY COMPARISONS

Line Item Spending Comparison Note: "Total Operating Expense" is all expenses from funds 10 & 27 Source: Budget and Annual Reports per DPI Display By District Year 331 Gas for Heat Kettle Moraine 2022 2.13% 336 Electricity for Other Than Heat Pewaukee 2022 2.04% 337 Water Hamilton 2022 1.86% 338 Sewerage Muskego-Norway 2022 1.82% 339 Other Utilities Kimberly Area 2022 1.71% Menomonee Falls 2022 1.45% Oconomowoc Area 2022 1.39% Mukwonago 2022 1.21% Elmbrook 2022 1.10% 1.63% 0.20% 0.40% 0.60% 0.80% 1.00% 1.20% 1.40% 1.60% 1.80% 2.00% 2.20% Percent of Operating Expense

Line Item Spending Comparison

Note: "Total Operating Expense" is all expenses from funds 10 & 27 Source: Budget and Annual Reports per DPI





2022-2023 Energy Efficiency Projects

- Tune-ups and preventative maintenance on district boilers
- Tune-ups and preventative maintenance on district chillers
- Preventative maintenance on other district equipment
- Cleaning of air handling unit coils
- Incorporated energy efficiency into projects as applicable



Kelly Holtzman, Greg Maroo and students from the OHS AP Environment Science class presented at the 102nd State Education Convention. They spoke about the success of winning their first Renew our Schools energy savings competition. Kelly Holtzman and the AP Environmental Science students won \$2,500 winning the Renew Our Schools competition for the second year in a row! The students reduced energy usage by 8.25% at OHS during the competition period. The prize money will be used for another energy reduction project at OHS.



Wisconsin K-12 Energy Education Program (KEEP) College of Natural Resources University of Wisconsin - Stevens Point

Renewing Our Schools: Engaging Students in Energy Conservation

WASB Annual conference January 19, 2023















THE FUTURE OF OUR ENERGY PROGRAM



- Increase visibility of our program
- Continue to identify efficiencies in operations
- Focus on shutdowns to achieve greater savings
- Continue developing an "energy conservation culture"
- Continue to support and collaborate with the OHS Green Team started in 2019-20 by Kelly Holtzman.
- Energy efficiencies in future facility planning, capital projects and site specific projects.
- Continue to investigate future energy savings opportunities and funding options.
- Utilize ClocWorks dataWrangler software for Fund 50 & Fund 80 utility allocations.





TEAM WORK

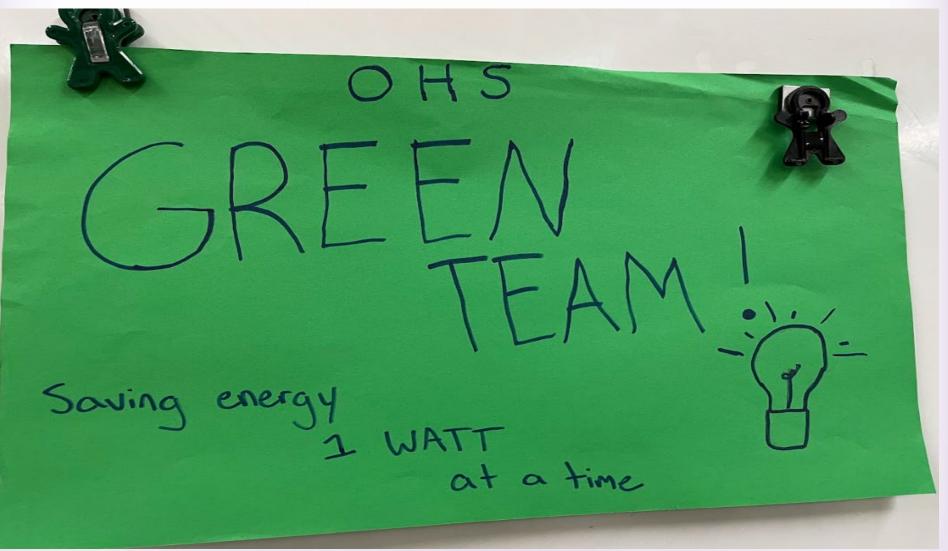
The success of the program depends on everyone!

Special thanks go to:

- School Board for proactively implementing and supporting our program
- **Community** for supporting our energy program
- Buildings and Grounds Staff for executing changes in the heating and cooling systems and monitoring our energy use
- **Teachers** for continuing to assist in our efforts for energy conservation
- Principals and Staff for coordinating efforts in their schools



Questions?





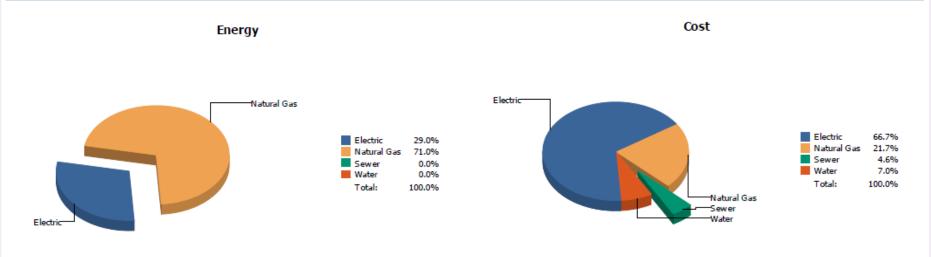
OASD HISTORICAL COST PER SQUARE FOOT

Historical Cost/Sq. Ft (Electric & Gas)	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
Oconomowoc High School Main Campus	\$1.09	\$1.04	\$0.91	\$1.00	\$0.90	\$1.03	\$1.08	\$1.04
Oconomowoc High School East Campus	N/A	N/A	N/A	\$0.90	\$0.91	\$0.96	\$1.06	\$1.14
Nature Hill Intermediate School	\$0.98	\$0.94	\$1.00	\$1.09	\$0.98	\$1.21	\$1.15	\$1.12
Silver Lake Intermediate School	\$0.96	\$0.94	\$1.03	\$1.04	\$0.92	\$1.17	\$1.16	\$1.05
Meadow View Elementary School (New)	N/A	N/A	N/A	N/A	\$0.69	\$1.05	\$1.03	\$1.09
Meadow View Elementary School (Old)	\$0.79	\$0.75	\$0.71	\$0.70	\$0.42	\$0.47	\$0.40	\$0.31
Ixonia Elementary School	\$1.03	\$1.01	\$1.09	\$0.87	\$0.76	\$0.97	\$1.06	\$0.97
Summit Elementary School	\$1.12	\$1.05	\$1.02	\$0.98	\$0.84	\$1.13	\$1.04	\$1.03
Greenland Elementary School	\$0.79	\$0.79	\$0.88	\$0.90	\$0.77	\$0.82	\$0.84	\$0.80
Park Lawn Elementary School	\$0.69	\$0.66	\$0.68	\$0.80	\$0.66	\$0.77	\$0.84	\$0.70
OASD	\$1.00	\$0.98	\$0.94	\$0.98	\$0.85	\$1.02	\$1.02	\$0.98
OASD Square Footage	955,477	955,477	955,477	1,017,788	1,134,788	1,134,788	1,134,788	1,134,788



2022-2023 GREENLAND ELEMENTARY

Place Summary AN - 07

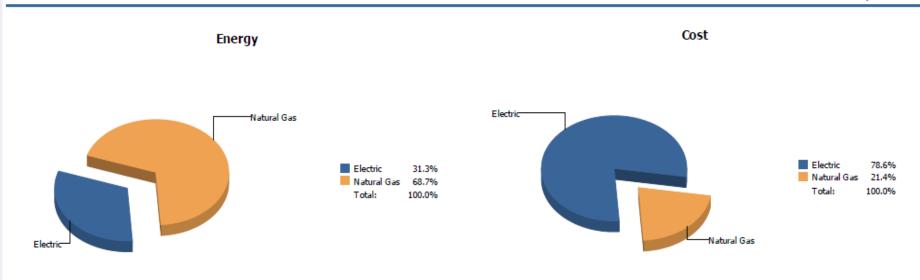


Commodity	Common Use	Energy Use	Energy Use / Area	Total Cost	Cost / Unit	Cost / Area
Place: [GRN] Greenland Eler	nentary School [BUILDING]					
Area: 63,242 SqFt						
Billing Period between Jul 202	2 and Jun 2023					
ELECTRIC	259,075.00 kWh	883,964 KBtu	13.977 KBtu/SqFt	\$38,122.55	\$0.147 /kWh	\$0.602 /SqFt
NATURALGAS	21,598.70 THERM	2,159,870 KBtu	34.152 KBtu/SqFt	\$12,393.13	\$0.574 /THERM	\$0.195 /SqFt
SEWER	413.00 Kgal			\$2,649.87	\$6.416 /Kgal	\$0.041 /SqFt
WATER	413.00 Kgal			\$4,028.63	\$9.755 /Kgal	\$0.063 /SqFt
Totals:		3,043,834 KBtu	48.130 KBtu/SqFt	\$57,194.18		



2022-2023 IXONIA ELEMENTARY

Place Summary AN - 07

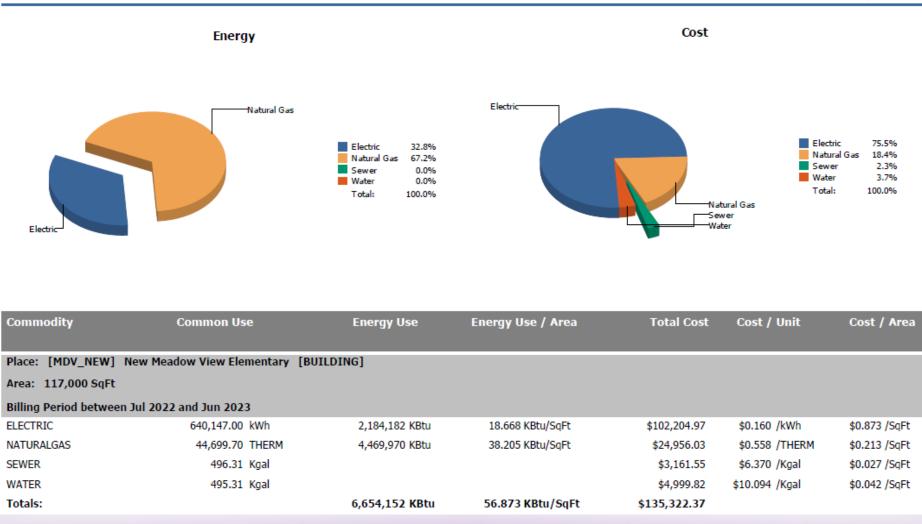


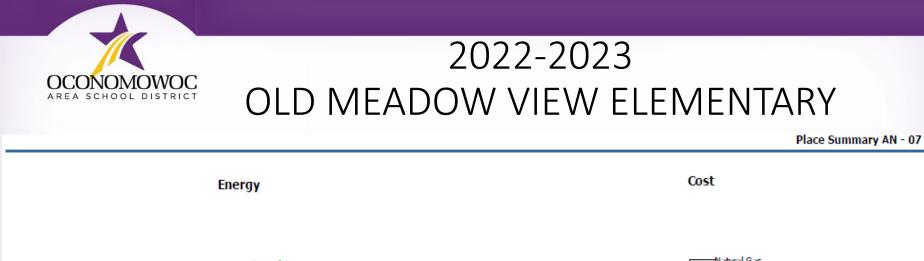
Commodity	Common Use	Energy Use	Energy Use / Area	Total Cost	Cost / Unit	Cost / Area
Place: [IXO] Ixonia Ele	mentary School [BUILDING]					
Area: 49,839 SqFt						
Billing Period between Ju	I 2022 and Jun 2023					
ELECTRIC	236,448.00 kWh	806,761 KBtu	16.187 KBtu/SqFt	\$38,130.94	\$0.161 /kWh	\$0.765 /SqFt
NATURALGAS	17,739.40 THERM	1,773,940 KBtu	35.593 KBtu/SqFt	\$10,354.46	\$0.584 /THERM	\$0.207 /SqFt
Totals:		2,580,701 KBtu	51.781 KBtu/SqFt	\$48,485.40		

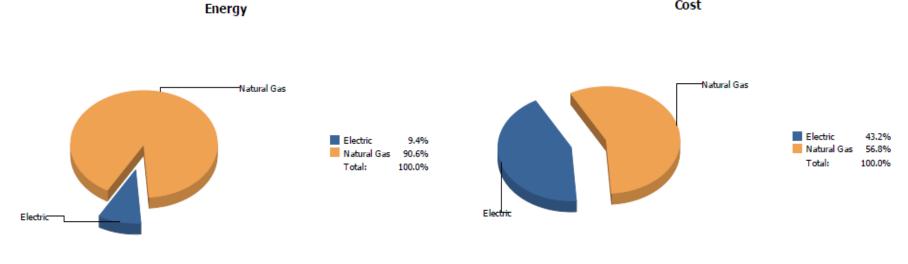


2022-2023 NEW MEADOW VIEW ELEMENTARY

Place Summary AN - 07





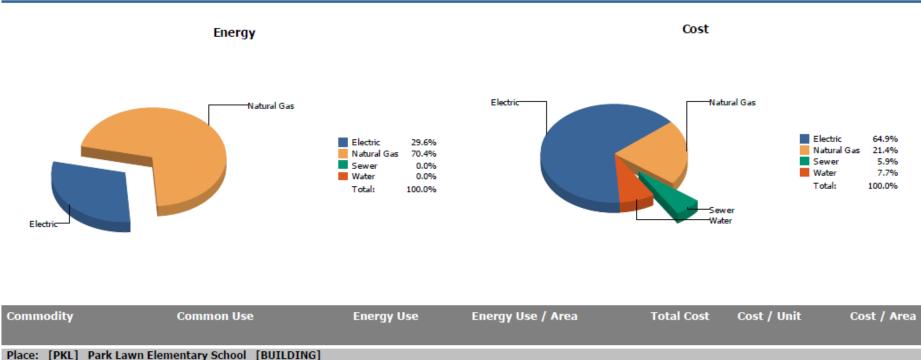


Commodity	Common Use	Energy Use	Energy Use / Area	Total Cost	Cost / Unit	Cost / Area
Place: [MDV_OLD] Old	Meadow View Elementary Schoo	[BUILDING]	_			
Area: 89,618 SqFt						
Billing Period between Ju	ul 2022 and Jun 2023					
ELECTRIC	86,191.00 kWh	294,084 KBtu	3.282 KBtu/SqFt	\$12,034.12	\$0.140 /kWh	\$0.134 /SqFt
NATURALGAS	28,263.60 THERM	2,826,360 KBtu	31.538 KBtu/SqFt	\$15,849.21	\$0.561 /THERM	\$0.176 /SqFt
Totals:		3,120,444 KBtu	34.819 KBtu/SqFt	\$27,883.33		



2022-2023 PARK LAWN ELEMENTARY

Place Summary AN - 07



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Area: 74,409 SqFt

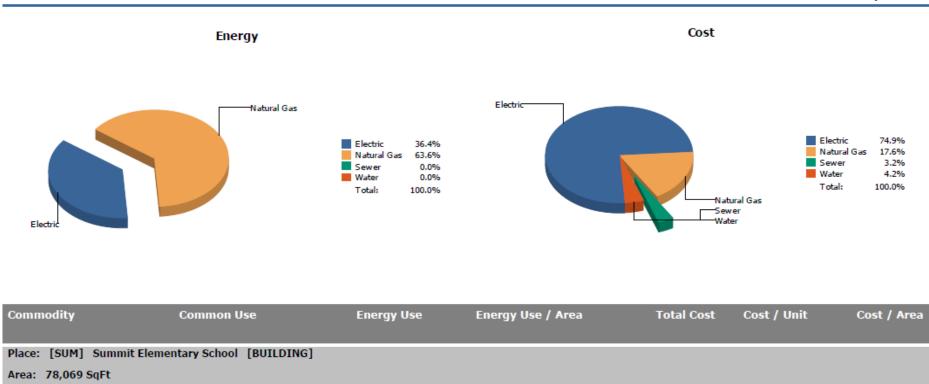
Billing Period between Jul 2022 and Jun 2023

ELECTRIC	270,295.00 kWh	922,247 KBtu	12.394 KBtu/SqFt	\$39,291.34	\$0.145 /kWh	\$0.527 /SqFt
NATURALGAS	21,946.80 THERM	2,194,680 KBtu	29.495 KBtu/SqFt	\$12,953.44	\$0.590 /THERM	\$0.174 /SqFt
SEWER	565.00 Kgal			\$3,588.32	\$6.351 /Kgal	\$0.048 /SqFt
WATER	565.00 Kgal			\$4,665.19	\$8.257 /Kgal	\$0.062 /SqFt
Totals:		3,116,927 KBtu	41.889 KBtu/SqFt	\$60,498.29		



2022-2023 SUMMIT ELEMENTARY

Place Summary AN - 07



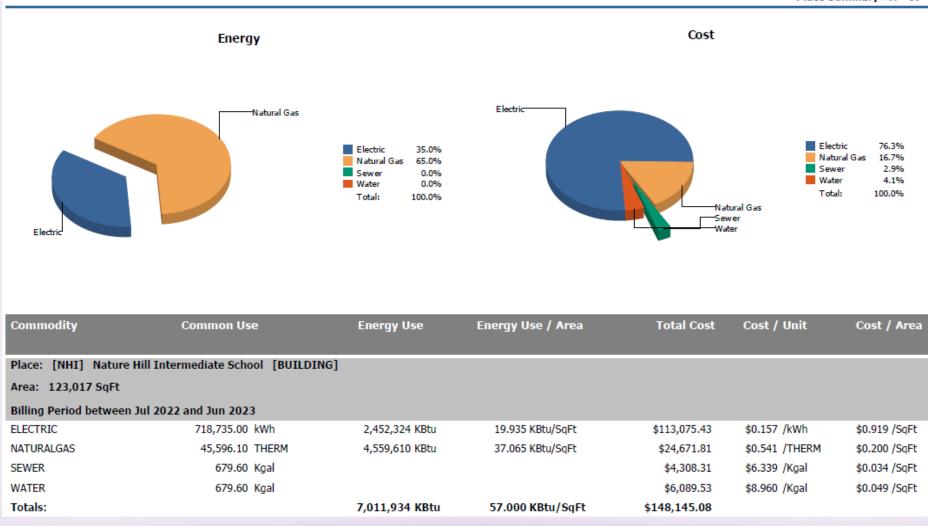
Billing Period between Jul 2022 and Jun 2023

ELECTRIC	459,010.00 kWh	1,566,142 KBtu	20.061 KBtu/SqFt	\$65,243.71	\$0.142 /kWh	\$0.835 /SqFt
NATURALGAS	27,403.70 THERM	2,740,370 KBtu	35.102 KBtu/SqFt	\$15,332.46	\$0.560 /THERM	\$0.196 /SqFt
SEWER	435.20 Kgal			\$2,785.55	\$6.401 /Kgal	\$0.035 /SqFt
WATER	435.20 Kgal			\$3,690.20	\$8.479 /Kgal	\$0.047 /SqFt
Totals:		4,306,512 KBtu	55.163 KBtu/SqFt	\$87,051.92		



2022-2023 NATURE HILL INTERMEDIATE

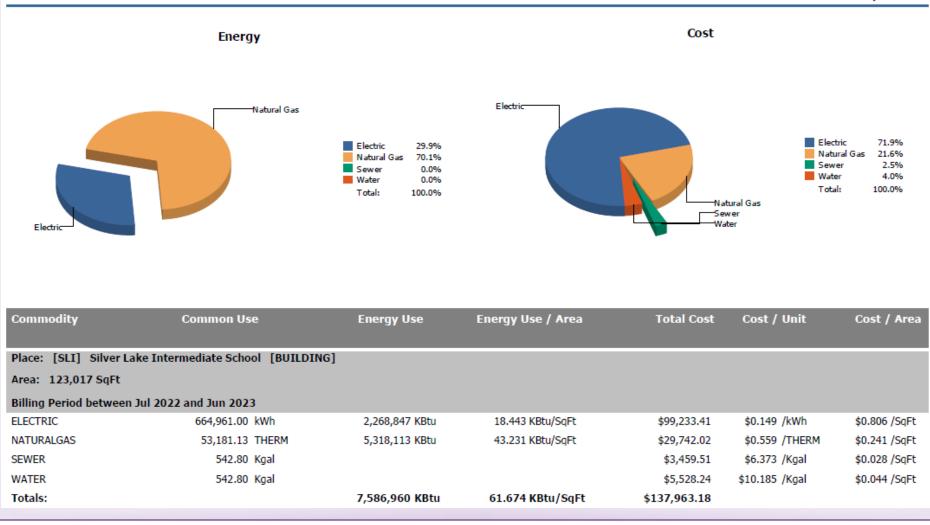
Place Summary AN - 07





2022-2023 SILVER LAKE INTERMEDIATE

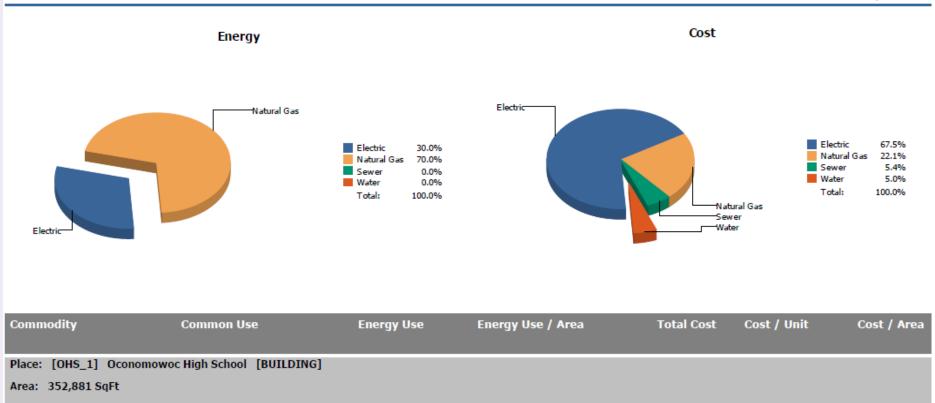
Place Summary AN - 07





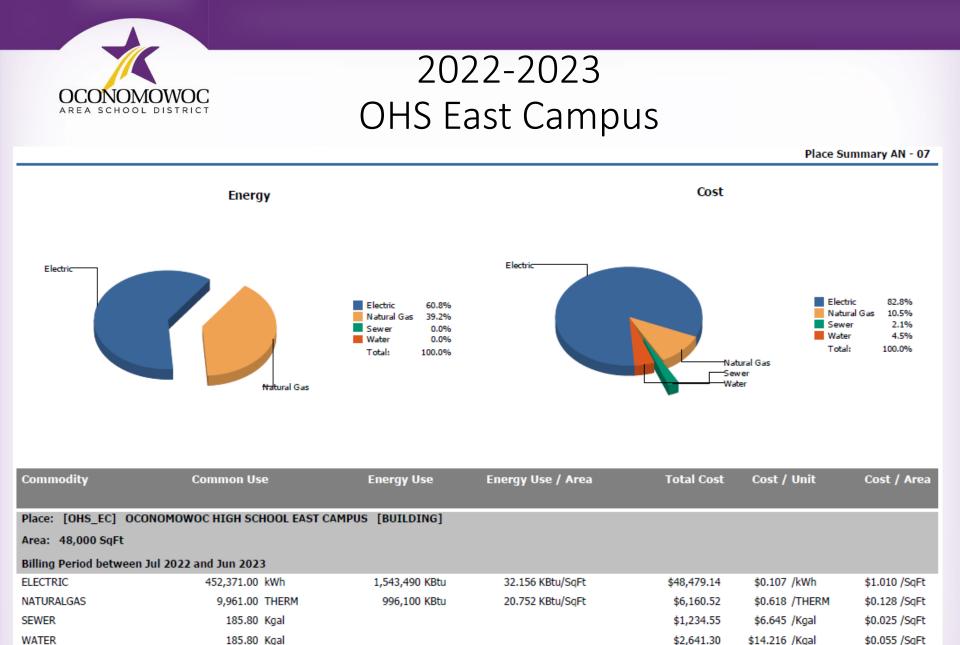
2022-2023 OCONOMOWOC HIGH SCHOOL

Place Summary AN - 07



Billing Period between Jul 2022 and Jun 2023

ELECTRIC	2,171,594.00 kWh	7,409,479 KBtu	20.997 KBtu/SqFt	\$276,345.03	\$0.127 /kWh	\$0.783 /SqFt
NATURALGAS	172,971.80 THERM	17,297,180 KBtu	49.017 KBtu/SqFt	\$90,594.30	\$0.524 /THERM	\$0.256 /SqFt
SEWER	3,569.50 Kgal			\$22,174.74	\$6.212 /Kgal	\$0.062 /SqFt
WATER	3,569.50 Kgal			\$20,398.52	\$5.715 /Kgal	\$0.057 /SqFt
Totals:		24,706,659 KBtu	70.014 KBtu/SqFt	\$409,512.59		



EMPOWERING A COMMUNITY OF LEARNERS AN	ID LEADERS
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52.908 KBtu/SqFt

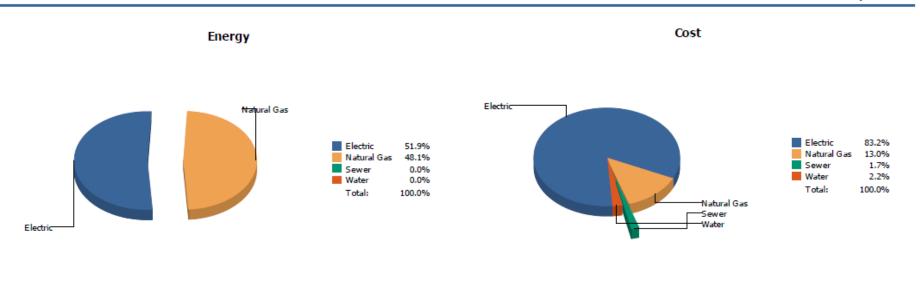
\$58,515.51

2,539,590 KBtu

Totals:



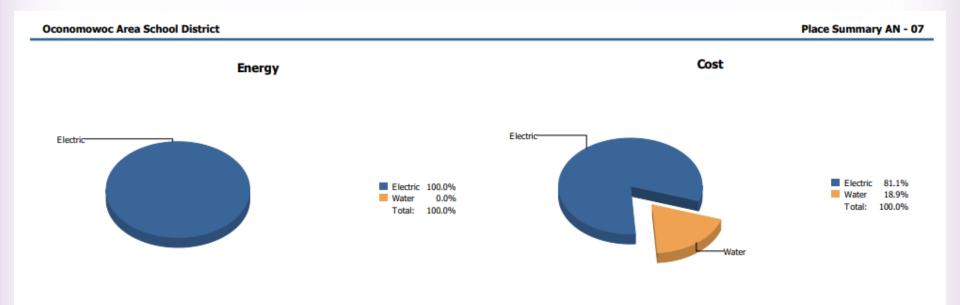
2022-2023 PHYSICAL DEVELOPMENT CENTER



Commodity	Common Use	Energy Use	Energy Use / Area	Total Cost	Cost / Unit	Cost / Area			
Place: [PDC] Physical Development Center [BUILDING]									
Area: 5,000 SqFt									
Billing Period between J	ul 2022 and Jun 2023								
ELECTRIC	62,013.00 kWh	211,588 KBtu	42.318 KBtu/SqFt	\$12,185.42	\$0.196 /kWh	\$2.437 /SqFt			
NATURALGAS	1,962.20 THERM	196,220 KBtu	39.244 KBtu/SqFt	\$1,899.22	\$0.968 /THERM	\$0.379 /SqFt			
SEWER	24.00 Kgal			\$246.00	\$10.250 /Kgal	\$0.049 /SqFt			
WATER	24.00 Kgal			\$323.79	\$13.491 /Kgal	\$0.064 /SqFt			
Totals:		407,808 KBtu	81.562 KBtu/SqFt	\$14,654.43					



2022-2023 ATHLETIC FIELDS FOREVER



		a Total Cost	Cost / Unit	Cost / Area
G]				
3.00 kWh 189,069 K	(Btu 37.814 KBtu/SqFt	\$18,331.60	\$0.331 /kWh	\$3.666 /SqFt
8.00 Kgal		\$4,277.85	\$9.995 /Kgal	\$0.855 /SqFt
189,069 8	(Btu 37.814 KBtu/Sq	Ft \$22,609.45		
1	28.00 Kgal	- 13.00 kWh 189,069 KBtu 37.814 KBtu/SqFt 28.00 Kgal	- 13.00 kWh 189,069 KBtu 37.814 KBtu/SqFt \$18,331.60 28.00 Kgal \$4,277.85	- 13.00 kWh 189,069 KBtu 37.814 KBtu/SqFt \$18,331.60 \$0.331 /kWh 28.00 Kgal \$4,277.85 \$9.995 /Kgal



POTENTIAL ENERGY REDUCTION PROJECT COST ESTIMATES

			Expected		Payback				
	a		Grants and/or		Period	Neter	Estimated Annual	Life of	
Potential Project	Site	Expected Cost	Rebates	Net Cost	(Years)	Notes:	Savings	Product	Warranty
						Installed on roof of Field House and			F
						PDC only. Age of roofing a concern. 14			5 years on
Solar Array (422.2 LW) DC System)						years of life expectancy remain. Roof			workmanship.
Solar Array (433.2 kW-DC System)		¢676 650 40	¢100.000.00		12.0	replacement costs estimated at	¢40,420,00	25.	10 years on
Option #1 (Field House & PDC Roofs)	OHS Main Campus	\$676,658.40	\$100,000.00	\$576,658.40	12.8	\$325,000.	\$40,120.00	25+ years	modules.
						Max system that can fit on OHS. Age of			5 years on
						roofing a concern. Life expectancy			workmanship.
Solar Array (1130.8 kW-DC System)						remaining range from 2-14 years. Roof			10 years on
Option #2 (Max System)	OHS Main Campus	\$1,649,837.20	\$100,000.00	\$1,549,837.20	13.6	replacements estimated at \$3.0M.	\$100,885.00	25+ years	modules.
									5 years on
									workmanship.
									10 years on
Solar Array (71.6 kW-DC System)	OHS East Campus	\$138,044.80	\$41,740.00	\$96,304.80	12.4	Roof life expectancy 27+ years.	\$6,986.00	25+ years	modules.
									5 years on
									workmanship.
									10 years on
Solar Array (146.4 kW-DC System)	Meadow View ES	\$260,738.40	\$61,568.00	\$199,170.40	12.9	Roof life expectancy 28+ years.	\$13,787.00	25+ years	modules.
Retro-Door-Kit LED Lighting Replacement									
(Interior Lighting)	OHS Main Campus	\$398,257.69	\$54,399.00	\$343,858.69	13.2		\$26,054.41	35 years	5 years
Retro-Door-Kit LED Lighting Replacement									
(Interior Lighting)	Nature Hill Intermediate	\$249,894.49	\$31,706.48	\$218,188.01	7.47		\$28,305.59	35 years	5 years
Retro-Door-Kit LED Lighting Replacement									
(Interior Lighting)	Silver Lake Intermediate	\$249,894.49	\$31,706.48	\$218,188.01	7.47		\$28,305.59	35 years	5 years

*Please be aware that the budgetary numbers were provided in early March before covid caused changes to many product and material costs.