

Scotia-Glenville School District  
Scotia, New York

To: Susan Swartz, Superintendent  
From: Drew Giaquinto  
Subject: Energy costs for plan year May 2021 - April 2022  
Date: October 17, 2022

Attached please find the annual analysis of energy costs per building in the Scotia-Glenville CSD for the consortium plan year May 2021 - April 2022.

Overall, energy increased by \$15,628 or 3.84% from 20/21 as decreases in Electric and Gas were offset by the increase in Oil costs. We benefit from locked in rates through a consortium bid on Gas and Electric as well as solar energy credits. Oil is purchased through the NYS state contract and varies week to week on pricing.

The prior year comparison displayed a year to year increase of \$27,183 or 7.24 %. The per square foot cost (PSF) increased to \$.64 PSF from \$.61 PSF, a slight increase. The prior year comparison displayed an increase from .57 PSF to .61 PSF.

Our annual Gas decreased slightly by \$504 after an increase in the prior year of \$5,852. Electric costs decreased by \$13,000 compared to a prior year increase of \$12,707. Oil costs at Glendaal increased \$30,000.

We have locked in gas and electric supply rates through the April 30, 2023 plan year. The transportation delivery rates are based on

Electric and Gas, Oil

NYSMEC 21-22 Plan Year (Transportation and Supplier Costs by Facility)  
 Summary of Transportation & Supplier Costs for Electric, Gas and Oil

Facility	Type	Period	Transportation		Supplier		Total	Sq. Footage	Cost per SqFt.	Incl/Decr	Incr/Decr	%
			Amount	Amount	Amount	Amount						
2021/22	2021/22	2021/22	2021	2021								
<b>Total</b>			<b>527.24</b>	<b>527.24</b>	<b>1,405.05</b>	<b>833.70</b>	<b>938.67</b>			<b>(877.81)</b>	<b>-62.48%</b>	
Beukendal Field	Electric	5/21-4/22	\$ 412.29	\$ 114.95	\$ 216.76	\$ 216.76	\$ 938.67			\$ (877.81)	-62.48%	
HS admin parking light	Electric	5/21-4/22	\$ 721.91	\$ 216.76	\$ 2,527.76	\$ 3,816.24	\$ 938.67			\$ 1,109.37	17.11%	
Bus Garage	Electric	5/21-4/22	\$ 1,288.48	\$ 85.91	\$ 372.13	\$ 458.04	\$ 458.04			\$ 239.19	14.77%	
bus garage fuel pump	Electric	5/21-4/22	\$ 372.13	\$ 659.22	\$ 1,199.50	\$ 1,858.72	\$ 1,858.72			\$ 579.08	5.86%	
Concession Stand	Electric	5/21-4/22	\$ 1,199.50	\$ 2,320.87	\$ 3,932.13	\$ 6,253.00	\$ 6,253.00			\$ 376.68	20.20%	
Concession Office	Electric	5/21-4/22	\$ 9,079.07	\$ 270.80	\$ 635.15	\$ 905.95	\$ 905.95			\$ 33,671.39	70.03%	
District Office	Electric	5/21-4/22	\$ 635.15	\$ 9,079.07	\$ 9,598.94	\$ 18,678.01	\$ 18,678.01			\$ 5,078.67	16.99%	
Field House	Electric	5/21-4/22	\$ 9,598.94	\$ 8,691.21	\$ 10,196.16	\$ 18,887.37	\$ 18,887.37			\$ 16,249.03	16.54%	
Glendaal ES	Electric	5/21-4/22	\$ 10,196.16	\$ 54,517.58	\$ 18,674.22	\$ 73,191.80	\$ 73,191.80			\$ 3,007.53	10.23%	
Glen-Worden	Electric	5/21-4/22	\$ 18,674.22	\$ 7,543.73	\$ 5,685.17	\$ 13,228.90	\$ 13,228.90			\$ 17,327.32	21.88%	
High School	Electric	5/21-4/22	\$ 5,685.17	\$ 38,320.44	\$ 0.60	\$ 0.60	\$ 0.60			\$ (6,444.73)	-100.00%	
Lincoln ES	Electric	5/21-4/22	\$ 0.60	\$ 407,019.31	\$ 0.64	\$ 407,019.31	\$ 407,019.31			\$ (54,639.65)	-100.00%	
Middle School	Electric	5/21-4/22	\$ 407,019.31	\$ 767.73	\$ 743.68	\$ 743.68	\$ 743.68			\$ (24.05)	-3.13%	
Monolith Solar company	Electric	5/21-4/22	\$ 743.68	\$ 38,320.44	\$ 0.60	\$ 0.60	\$ 0.60			\$ (128.47)	-0.34%	
Parking Lot Lighting	Electric	5/21-4/22	\$ 38,320.44	\$ 0.60	\$ 663,494	\$ 663,494	\$ 663,494			\$ 15,628.52	3.84%	
Secandaga ES	Electric	5/21-4/22	\$ 663,494	\$ 0.64	\$ 422,647.83	\$ 422,647.83	\$ 422,647.83					

Facility	Type	Period	Transportation Amount	Supplier Amount	Total	Sq. Footage	Cost per SqFt.	20/21	20/21	Incl/(decr)				
Middle School	Electric	5/21-4/22	\$ 29,276.53	\$ 42,740.52	\$ 72,017.05	149,425	\$ 0.48	\$ 55,512.47	\$ 0.37	\$ 16,504.58				
Parking Lot Lighting	Electric	5/21-4/22	\$ 538.82	\$ 204.86	\$ 743.68			\$ 767.73	\$ 0.10	\$ (24.05)				
Solar meters	Electric	5/21-4/22	\$ 19.65	\$ -	\$ 19.65			\$ 6,444.73	\$ 0.10	\$ (6,444.73)				
Monolith Solar company								\$ 54,639.65		\$ (54,620.00)				
Sacandaga ES	Electric	5/21-4/22	\$ 9,450.21	\$ 10,641.56	\$ 20,091.77	63,524	\$ 0.32	\$ 20,091.77	\$ 0.32	\$ -				
Totals			\$ 92,001.29	\$ 139,614.80	\$ 231,616.09	663,494	\$ 0.35	\$ 244,837.65	\$ 0.37	\$ (13,221.56)				
										\$ -5.40%				
Beukendal Field	Gas	5/21-4/22	\$ 1,844.72	\$ 1,472.84	\$ 3,317.56	7,000	\$ 0.47	\$ 3,007.43	\$ 0.43	\$ 310.13				
Bus Garage	Gas	5/21-4/22	\$ -	\$ -	\$ -			\$ 4,541.23	\$ 0.48	\$ (341.39)				
Concession Stand	Gas	5/21-4/22	\$ 2,282.41	\$ 1,917.43	\$ 4,199.84	9,500	\$ 0.44	\$ 1,158.87	\$ -	\$ 176.66				
District Office	Gas	5/21-4/22	\$ 764.79	\$ 570.74	\$ 1,335.53			\$ -	\$ -	\$ -				
Field House	Gas	5/21-4/22	\$ 7,736.52	\$ 8,344.22	\$ 16,080.74	47,367	\$ 0.34	\$ 14,539.65	\$ 0.31	\$ 1,541.09				
Glendaal ES	Gas	5/21-4/22	\$ 15,543.76	\$ 25,729.28	\$ 41,273.04	46,971	\$ 0.14	\$ 44,944.04	\$ 0.15	\$ (3,671.00)				
High School	Gas	5/21-4/22	\$ 9,181.42	\$ 9,988.16	\$ 19,169.58	297,618	\$ 0.46	\$ 18,383.61	\$ 0.44	\$ 785.97				
Lincoln ES	Gas	5/21-4/22	\$ 10,297.51	\$ 14,201.39	\$ 24,498.90	42,089	\$ 0.16	\$ 23,676.16	\$ 0.16	\$ 822.74				
Middle School	Gas	5/21-4/22	\$ 8,257.84	\$ 9,842.36	\$ 18,100.20	149,425	\$ 0.16	\$ 18,228.67	\$ 0.29	\$ (128.47)				
Parking Lot Lighting	Gas	5/21-4/22	\$ 55,908.97	\$ 72,066.42	\$ 127,975.39	63,524	\$ 0.28	\$ 128,479.66	\$ 0.19	\$ (504.27)				
Sacandaga ES	Gas	5/21-4/22	\$ -	\$ -	\$ -	663,494	\$ 0.19	\$ -	\$ -	\$ (504.27)				
Totals			\$ 55,908.97	\$ 72,066.42	\$ 127,975.39	663,494	\$ 0.19	\$ 128,479.66	\$ 0.19	\$ (504.27)				
										\$ -0.33%				
Glendaal ES (Oil heat)	Oil	5/20/4/21	\$ 63,076.00	\$ 63,076.00	\$ 126,152.00	47,367	\$ 1.33	\$ 33,702.00	\$ 0.71	\$ 29,374.00				
Totals			\$ 63,076.00	\$ 63,076.00	\$ 126,152.00	663,494	\$ 0.64	\$ 407,019.31	\$ 0.61	\$ 15,648.17				
										\$ 3.84%				
Bus Garage		Sq. Footage	21/22	20/21	19/20	18/19	17/18	16/17	15/16	14/15	13/14	12/13	11/12	10/11
District Office			\$ 7,000	\$ 9.93	\$ 0.78	\$ 1.04	\$ 1.43	\$ 1.58	\$ 1.83	\$ 2.35	\$ 2.38	\$ 3.52	\$ 4.25	
Glendaal ES			\$ 1,10	\$ 1.04	\$ 1.06	\$ 1.46	\$ 1.48	\$ 1.51	\$ 1.66	\$ 2.41	\$ 4.04	\$ 4.83	\$ 4.64	
Glendaal ES			\$ 47,367	\$ 1.02	\$ 0.69	\$ 1.55	\$ 0.83	\$ 0.86	\$ 1.47	\$ 2.11	\$ 2.18	\$ 1.98	\$ 2.02	
Glendaal ES			\$ 46,971	\$ 0.64	\$ 0.52	\$ 0.76	\$ 0.73	\$ 0.71	\$ 0.78	\$ 0.90	\$ 0.87	\$ 1.42	\$ 1.62	



approved rates from the Public Service Commission. As projected in last year's update if we did experience stable usage, we should continue to result in a favorable report for the 2021-22 plan year which we did. Same comments stay true for 22/23. The new heating system at GW (2022 Capital project) continues the District's investment in energy enhancements. The last two \$100k projects have replaced a dozen exterior doors at the HS. We continue to benefit from energy enhancements at the high school and Glendaal (new boiler system, conversion to hot water from steam), MS ( new roof top units), and the last Energy Performance contract (HVAC controls, LED lighting), as well very mild-to-moderate winters. We continue since 2017-18 to benefit from the solar meters in operation at remote sites generating a \$36,000 net savings. We have seen meters being taken out of service due to the fiscal difficulties of Monolith as savings are down from the prior period of \$50,000.

For the fiscal year 2021-2022 (July-June compared to plan year 5/1-4/30), we expensed \$508,000 vs. \$470,000 in the prior year. We received a refund from the consortium of \$30,652.27 (\$71,000 prior year) in August 2022.

I have attached a summary by building of energy costs with related cost per square foot. In addition, I have broken out by building, gas, electric and oil in a similar format. An analysis of the cost per square foot by building over the past twelve years is attached. Please note the significant decrease in District Office energy costs from a high of \$4.83 PSF to the 2021 lowest cost of \$1.04 PSF and the \$1.10 PSF last year.

Please let me know if you have questions or require additional information.

Attachments