

Agenda Item Details

Meeting Mar 08, 2022 - REGULAR SCHOOL BOARD MEETING

Category S. Operational Services - Consent

Subject 3. Request for Acceptance of the Energy Conservation Program Quarterly Status Report

March 2022

Access Public

Type Action (Consent)

Recommended Action Acceptance of the Energy Conservation Program Quarterly Status Report March 2022

Goals GM-1 Mission Statement

GO-3 Energy Consumption Strategies

Public Content

Background Information:

The School District, through an agreement with Cenergistic - The Energy Conservation Company, implemented an Energy Conservation Program in 2008. Principals, Maintenance Coordinators, and the District Energy Manager work together to monitor and conserve energy consumption at each school site and facility. Quarterly Energy Conservation Program Status Reports have been presented to the School Board since April 2009.

The March 2022 Energy Conservation Program Quarterly Status Report summarizes the performance results of the Energy Conservation Program for the quarterly period of October 2021 – December 2021. The report reveals data on energy consumption by the District during this period. Also provided is cost avoidance data for each district facility. The information is presented to show actual energy consumed and cost avoidance to the District as a result of the implementation of energy conservation strategies.

Educational Impact:

The program is intended to reduce operational costs related to utilities, therefore increasing dollars available for other District related operational expenses.

Strategic Plan Impact:

Supports the District's Mission by providing appropriate facilities to help inspire good character and a passion for life long learning in all students, creating educated and caring contributors to the world.

Fiscal Impact:

During the quarterly period October 2021 - December 2021 the Energy Conservation Program has resulted in additional energy cost avoidance for the School District of \$1,228,621. The current rate of energy savings significantly exceeds the projected performance of the program. Since inception, the District has realized a total cumulative cost avoidance of \$63,703,919.

Recommendation:

Acceptance of the Energy Conservation Program Quarterly Status Report for March 2022.

Action Required:

1 of 2 4/8/2022, 1:09 PM

Approval of Superintendent's recommendation.

Drafted, reviewed and submitted by:

Val Kovalenko, Energy Manager Paul Rose, Executive Director for Facilities and Operations Michael Degutis, Chief of Staff

Sincerely, Tim Forson Superintendent of Schools

Energy Conservation Program Quarterly Status Report March 2022.pdf (598 KB)

Administrative Content

Our adopted rules of Parliamentary Procedure, Robert's Rules, provide for a consent agenda listing several items for approval of the Board by a single motion. Most of the items listed under the consent agenda have gone through Board subcommittee review and recommendation. Documentation concerning these items has been provided to all Board members and the public in advance to assure an extensive and thorough review. Items may be removed from the consent agenda at the request of any board member.

Workflow

Workflow Feb 24, 2022 10:00 AM :: Submitted by Cara Pacetti. Routed to Cara Pacetti for approval.

Feb 24, 2022 12:13 PM:: Approved by Cara Pacetti. Routed to Paul Rose for approval. Feb 24, 2022 12:41 PM:: Approved by Paul Rose. Routed to Miriam Testasecca for approval.

Feb 24, 2022 1:05 PM :: Approved by Miriam Testasecca. Routed to Mike Degutis for

approval.

Feb 24, 2022 3:01 PM :: Approved by Mike Degutis. Routed to Gina Fallica for approval. Feb 24, 2022 4:16 PM :: Approved by Gina Fallica. Routed to Tim Forson for approval.

Mar 2, 2022 11:50 AM :: Final approval by Tim Forson

Last Modified by Tim Forson on March 2, 2022

2 of 2 4/8/2022, 1:09 PM

ENERGY CONSERVATION PROGRAM QUARTERLY STATUS REPORT October 2021 – December 2021

EXECUTIVE SUMMARY

The March 2022 Energy Conservation Program Quarterly Status Report summarizes the performance results for the quarterly period of October 2021 – December 2021 and is comprised of the following:

- Electric Cost Avoidance Summary by Building (4th Quarter 2021): The District realized a total electric cost avoidance for this quarterly period of \$1,228,621 (or a 43.1% cost avoidance from the baseline period).
- 4th Quarter Electric Cost Savings Summary (4th Quarter 2021): This reflects the monthly summary of total electric cost avoidance for the period October 2021 December 2021.
- Greenhouse Gas Reduction: Greenhouse Gas Emissions Equivalent for this quarterly period reduced CO² by 5,625 metric tons. This is equivalent to 1,172 passenger cars not driven for one year.
- (YTD) Monthly Utilities Cost Avoidance (Through 4th Quarter 2021): This reflects the monthly summary of water, sewer and electric cost avoidance for the period January 2021 December 2021.
- Energy/Utilities Consumption YTD Summary: Summary breakdown for electricity, water and sewer for January 2021 December 2021 period. Between all tracked utilities, the District realized a total cost avoidance for this year of \$4,515,251. Cost avoidance is calculated by comparing current year's data against 2008 Baseline adjusted to current conditions.
- Total Cost Avoidance Summary by Commodity (October 2008 December 2021): This reflects the total cost avoidance since the implementation of the program. <u>Total cumulative cost avoidance of \$63,703,919.</u>

During the period of October 2021 – December 2021 there were over 150 energy audits performed at District facilities. The results of these audits demonstrate continued efforts by employees to reduce energy use.

Our district continues to show a high regard for good stewardship and reducing the overall energy consumption. Many thanks to principals, school site managers and our facilities staff district-wide for a very successful fourth quarter of 2021.

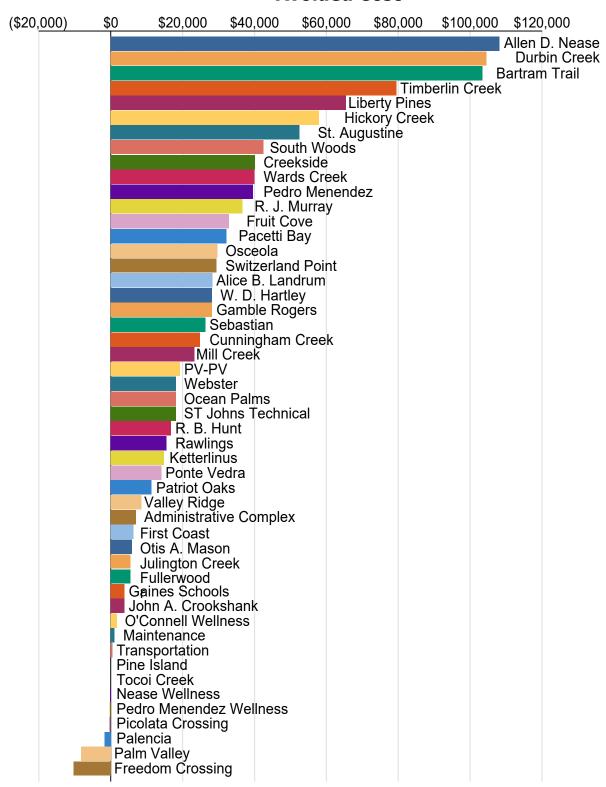
Electric Cost Avoidance Summary By Building

St. Johns County School Board

October 2021 - December 2021

Place BATCC Cost Actual Cost Cost Avoidance Cos
[0032] Gaines Schools at Evelyn B Hamblen Center \$12,844 \$8,982 \$3,862 30.1% [0091] Ketterlinus Elementary School \$28,834 \$14,040 \$14,794 51.3% [0161] R. B. Hunt Elementary \$31,561 \$14,755 \$16,806 53.2% [0171] R. J. Murray Middle \$59,133 \$22,499 \$36,634 62.0% [0181] St. Augustine High \$96,082 \$43,572 \$52,510 54.7% [0201] Webster Elementary \$32,405 \$14,199 \$18,205 56.2% [0231] First Coast Technical College \$59,624 \$53,329 \$6,296 10.6% [0241] Julington Creek Elementary \$65,253 \$59,759 \$5,493 8.4% [0251] Allen D. Nease High \$165,090 \$56,896 \$108,194 65.5% [0261] W. D. Hartley Elementary \$52,277 \$24,116 \$28,161 53.9% [0301] Sebastian Middle \$46,750 \$20,388 \$26,362 56.4% [0311] Alice B. Landrum Middle \$69,321 \$41,022 \$28,299 40.8% [0321] Switzerland Point Middle \$62,940 \$33,569 \$29,370 46.7% [0331] Osceola Elementary \$46,530 \$16,826 \$29,704 63.8% [0341] Mill Creek Academy \$61,802 \$38,444 \$23,359 37.8% [0351P] PV-PV Elementary \$31,718 \$12,413 \$19,304 60.9% [0351R] Rawlings Elementary \$36,305 \$20,810 \$15,495 42.7% [0361] Gamble Rogers Middle \$55,503 \$27,359 \$28,143 50.7%
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[0381] Cunningham Creek Elementary \$46,554 \$21,642 \$24,912 53.5%
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[0451] Timberlin Creek Elementary \$122,150 \$42,589 \$79,561 65.1% [0461] South Woods Elementary \$88,259 \$45.698 \$42,562 48.2%
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[0471] Patriot Oaks Academy \$52,223 \$40,902 \$11,321 21.7%
[0472] Liberty Pines Academy \$117,318 \$51,882 \$65,436 55.8%
[0481] Pacetti Bay Middle \$90,472 \$58,246 \$32,226 35.6%
[0482] Wards Creek Elementary \$84,276 \$44,255 \$40,021 47.5%
[0491] Fruit Cove Middle \$63,292 \$30,337 \$32,955 52.1%
[0492] Ponte Vedra High \$88,136 \$74,039 \$14,096 16.0%
[0493] Creekside High \$134,404 \$94,188 \$40,216 29.9%
[0501] Hickory Creek Elementary \$109,820 \$51,917 \$57,903 52.7%
[0502] Valley Ridge Academy \$52,506 \$44,041 \$8,465 16.1%
[0511] Palencia Elementary \$19,741 \$21,551 (\$1,809) -9.2%
[0521] Picolata Crossing Elementary \$15,079 \$15,494 (\$415) -2.8%
[0531] Freedom Crossing Academy \$34,818 \$45,141 (\$10,323) -29.6%
[0541] Palm Valley Academy \$25,903 \$34,217 (\$8,315) -32.1%
[0551] Pine Island Academy \$37,424 \$37,424 \$0 0.0%
[0552] Tocoi Creek High School \$38,207 \$38,207 \$0 0.0%
[9061] Fullerwood Training Center \$9,845 \$4,370 \$5,475 55.6%
[9721A] Administrative Complex \$23,120 \$16,028 \$7,093 30.7%
[9780C] Transportation at Crookshank \$4,670 \$4,246 \$424 9.1%
[9810] Maintenance Office \$3,367 \$2,252 \$1,115 33.1%
[NCLN] Nease Wellness Center \$1,070 \$1,276 (\$206) -19.3%
[OCLN] O'Connell Wellness Center \$3,089 \$1,424 \$1,664 53.9%
[PCLN] Pedro Menendez Wellness Center \$940 \$1,180 (\$240) -25.5%
[SJT_1] ST Johns Technical High School \$33,084 \$14,948 \$18,136 54.8%
Totals: \$2,848,944 \$1,620,324 \$1,228,621 43.1%

Avoided Cost



4th Quarter 2021 Electric Cost Savings

Expected Energy Cost	\$2,848,944			
Actual Energy Cost	\$1,620,324			
Program Savings	\$1,228,621			
Percent Savings	43.1%			
Other Savings	\$0			
Total Savings	\$1,228,621			



Expected Energy Cost

Anticipated expense without energy management.

Base year usage after adjustments for such variables as changes in weather, equipment, schedules, occupancy and prices.

Actual Energy Cost

Actual utility costs for electricity, gas, water, sewer, etc. obtained directly from bills.

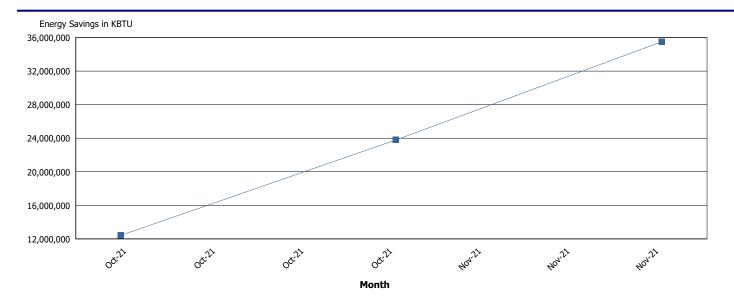
Other Savings

Additional documented savings attributable to Program activities but not the direct result of usage reductions, such as rebates, refunds, tariff changes, etc.

Program Savings

The difference between Expected and Actual Cost, calculated in accordance with the International Performance Measurement & Verification Protocol. Does not include savings attributable to reduced equipment maintenance and replacement costs and other collateral benefits. These savings can increase the program savings up to 20%.

4th Quarter 2021 Energy Savings



4th Quarter 2021 Greenhouse Gas Reduction

Energy Reduction Impact: 35,503,965 KBTU

This is equivalent to the following:

Passenger cars not driven for one year: 1,172

Tree seedlings grown for 10 years: 144,240

5,625 equiv. metric tons of CO2

YTD Monthly Cost Avoidance Summary

	2021						
	Cost Avoid \$	Cost Avoid %	* Total \$				
Jan	448,412	43.4	448,412				
Feb	353,314	38.0	353,314				
Mar	336,326	36.8	336,326				
Apr	280,250	31.3	280,250				
May	244,830	28.3	244,830				
Jun	346,952	41.4	346,952				
Jul	418,643	46.7	418,643				
Aug	384,591	32.5	384,591				
Sep	395,530	34.6	395,530				
Oct	405,744	37.3	405,744				
Nov	405,117	39.4	405,117				
Dec	495,542	45.7	495,542				
Total	4,515,251	37.9	4,515,251				

^{*} The Total \$ column is the sum of Cost Avoidance Savings and Other Savings.

Energy/Utilities Consumption Summary YTD (through 4th Quarter 2021)

	Use				Cost				
	*BATCC	Actual	Avoid	Avoid %	*BATCC	Actual	Avoid	Avoid %	Total Savings \$
Electric (KWH)	99,360,578	60,312,676	39,047,902	39.3	10,610,058	6,322,267	4,287,791	40.4	4,287,791
Water (KGAL)	1,957	995	962	49.2	18,626	9,063	9,563	51.3	9,563
Water & Sewer (KGAL)	71,098	62,598	8,499	12.0	1,184,116	985,853	198,263	16.7	198,263
Irrigation (KGAL)	20,573	17,692	2,882	14.0	86,258	66,625	19,633	22.8	19,633
Total (KBTU)	339,018,292	205,786,851	133,231,442	39.3	11,899,058	7,383,807	4,515,251	37.9	4,515,251

^{*}BATCC: Baseline adjusted to current conditions

Cost Avoidance Summary By Commodity July 2008 - December 2021

Commodity		BATCC Cost	BATCC Use	Actual Cost	Actual Use	Cost Avoidance	Cost Avoidance	Use Avoidance	Use Avoidance %
Electric	kWh	\$132,670,121	1,177,061,359	\$72,374,405	654,319,460	\$60,295,716	45.4%	522,741,899	44.4%
Water	Kgal	\$139,757	16,363	\$108,961	13,636	\$30,796	22.0%	2,727	16.7%
Water & Sewer	Kgal	\$12,143,110	828,768	\$8,765,703	616,612	\$3,377,407	27.8%	212,156	25.6%
	Totals:	\$144,952,988		\$81,249,069		\$63,703,919	43.9%		

Avoided Cost

