

Pittsville School District Financial Summary

Scenario #1

Facility	Sc #1	FIM Code	Facility Improvement Measures	Annual Savings			Est. Focus Incentive	Estimated Cost	Simple Payback
				Utility	O&M	Total			
Pittsville School		C	Energy Management System and Controls						
	X	C.4	- Vending Machine Controls	\$199	\$0	\$199	\$200	\$2,340	10.7
Campus Wide		TRS	Technical Resource Services						
	X	TRS.1	- Baseline Development	\$0	\$0	\$0		\$7,311	
	X	TRS.2	- Annual M&V and Preventative Maintenance Services	\$0	\$0	\$0		\$5,982	
		C	Energy Management System and Controls						
	X	C.1	- Energy Management and DDC - Base Project	\$5,377	\$0	\$5,377	\$2,976	\$0	-0.6
	X	C.5	- Energy Management and DDC - EMS Upgrade Siemens	\$0	\$0	\$0		\$231,382	
		E	Electrical System Improvements						
	X	E.1	- Variable Speed Drives/Ventilation Control	\$370	\$0	\$370	\$75	\$7,073	18.9
		F	Facility Improvements						
		L	Lighting System Improvements						
High School	X	L.1	- Lighting Retrofit	\$5,293	\$660	\$5,953	\$3,000	\$107,176	17.5
		M	Mechanical System Improvements						
	X	M.1a	- Heat Pump System Upgrade - Cooling Tower Replacement	\$0	\$500	\$500	\$0	\$102,359	204.7
	X	M.2	- Gymnasium De-stratification Fans	\$375	\$0	\$375	\$0	\$16,648	44.4
		P	Plumbing Efficiency Improvements						
	X	P.1	- Plumbing Efficiency Improvements	\$660	\$920	\$1,580	\$0	\$12,869	8.1
		S	Structural Improvements						
	X	S.1	- Building Envelope/Air Leakage	\$1,292	\$0	\$1,292	\$0	\$10,183	7.9
		C	Energy Management System and Controls						
	X	C.1	- Energy Management and DDC - Base Project	\$2,792	\$0	\$2,792	\$1,556	\$0	-0.6
	X	C.5	- Energy Management and DDC - EMS Upgrade Siemens	\$0	\$0	\$0	\$0	\$259,772	
		L	Lighting System Improvements						
	X	L.1	- Lighting Improvements	\$7,489	\$660	\$8,149	\$3,992	\$168,709	20.2
		M	Mechanical System Improvements						
Elementary School	X	M.1	- Boiler Plant Replacement	\$902	\$500	\$1,402	\$4,500	\$174,751	121.4
		P	Plumbing Efficiency Improvements						
	X	P.1	- Plumbing Efficiency Improvements	\$2,614	\$920	\$3,534	\$0	\$29,833	8.4
		S	Structural Improvements						
	X	S.1	- Building Envelope/Air Leakage	\$1,648	\$0	\$1,648	\$0	\$18,610	11.3
	X	S.2	- Roof Replacement	\$1,693	\$0	\$1,693	\$819	\$274,951	161.9
		C	Energy Management System and Controls						
	X	C.1	- Energy Management and DDC - Base Project	\$3,584	\$0	\$3,584	\$1,808	\$45,018	12.1
	X	C.2	- Energy Management and DDC - Enhanced Scope	\$0	\$0	\$0	\$0	\$0	
	X	C.3	- Energy Management and DDC - Recommissioning	\$0	\$0	\$0	\$0	\$0	
	X	C.6	- Energy Management and DDC - Enhanced Monitoring	\$0	\$0	\$0	\$0	\$50,832	
		E	Electrical System Improvements						
	X	E.1	- Variable Speed Drives - Gym (AHU-1, AHU-2)	\$1,856	\$0	\$1,856	\$850	\$16,471	8.4
	X	E.2	- Variable Speed Drives - Auditorium (AHU-7)	\$1,010	\$0	\$1,010	\$750	\$8,535	7.7
	X	E.3	- Variable Speed Drives - Music (AHU-8)	\$1,360	\$0	\$1,360	\$250	\$7,234	5.1
		L	Lighting System Improvements						
	X	L.1	- Lighting Improvements	\$4,459	\$660	\$5,119	\$1,710	\$88,287	16.9
		M	Mechanical System Improvements						
	X	M.1	- Heating System Improvements - 3-Way to 2-Way Valves	\$1,013	\$0	\$1,013	\$611	\$16,290	15.5
		P	Plumbing Efficiency Improvements						
	X	P.1	- Plumbing Efficiency Improvements	\$1,067	\$920	\$1,987	\$0	\$17,318	8.7
		S	Structural Improvements						
	X	S.1	- Building Envelope/Air Leakage	\$1,841	\$0	\$1,841	\$0	\$18,636	10.1
		PDC&B	Project Development, Commissioning & Bonds						
	X	PDC&B	Project Development, Commissioning & Bonds					\$110,431	
Financial Impact			Project Summary						
	X		Scenario #1 Total	\$46,894	\$5,740	\$52,634	\$22,897	\$1,806,662	33.9

Pittsville School District Financial Summary

Scenario #2

Facility	Sc #1	FIM Code	Facility Improvement Measures	Annual Savings			Est. Focus Incentive	Estimated Cost	Simple Payback
				Utility	O&M	Total			
Pittsville School		C	Energy Management System and Controls						
	X	C.4	- Vending Machine Controls	\$199	\$0	\$199	\$200	\$2,340	10.7
Campus Wide		TRS	Technical Resource Services						
	X	TRS.1	- Baseline Development	\$0	\$0	\$0		\$7,311	
	X	TRS.2	- Annual M&V and Preventative Maintenance Services	\$0	\$0	\$0		\$5,982	
		C	Energy Management System and Controls						
	X	C.1	- Energy Management and DDC - Base Project	\$5,377	\$0	\$5,377	\$2,976	\$0	-0.6
	X	C.5	- Energy Management and DDC - EMS Upgrade Siemens	\$0	\$0	\$0		\$231,382	
		E	Electrical System Improvements						
	X	E.1	- Variable Speed Drives/Ventilation Control	\$370	\$0	\$370	\$75	\$7,073	18.9
		L	Lighting System Improvements						
	X	L.1	- Lighting Retrofit	\$5,293	\$660	\$5,953	\$3,000	\$107,176	17.5
		M	Mechanical System Improvements						
	X	M.1a	- Heat Pump System Upgrade - Cooling Tower Replacement	\$0	\$500	\$500	\$0	\$102,359	204.7
	X	M.2	- Gymnasium Destratification Fans	\$375	\$0	\$375	\$0	\$16,648	44.4
		P	Plumbing Efficiency Improvements						
	X	P.1	- Plumbing Efficiency Improvements	\$660	\$920	\$1,580	\$0	\$12,869	8.1
		S	Structural Improvements						
	X	S.1	- Building Envelope/Air Leakage	\$1,292	\$0	\$1,292	\$0	\$10,183	7.9
		C	Energy Management System and Controls						
	X	C.1	- Energy Management and DDC - Base Project	\$2,792	\$0	\$2,792	\$1,556	\$0	-0.6
	X	C.5	- Energy Management and DDC - EMS Upgrade Siemens	\$0	\$0	\$0	\$0	\$259,772	
		L	Lighting System Improvements						
	X	L.1	- Lighting Improvements	\$7,489	\$660	\$8,149	\$3,992	\$168,709	20.2
		M	Mechanical System Improvements						
	X	M.1	- Boiler Plant Replacement	\$902	\$500	\$1,402	\$4,500	\$0	-3.2
	X	M.3b	- AHU Replacement - West AHU 1965 Wing	\$3,158	\$2,000	\$5,158	\$1,354	\$1,826,484	353.8
		P	Plumbing Efficiency Improvements						
	X	P.1	- Plumbing Efficiency Improvements	\$2,614	\$920	\$3,534	\$0	\$29,833	8.4
		S	Structural Improvements						
	X	S.1	- Building Envelope/Air Leakage	\$1,648	\$0	\$1,648	\$0	\$18,610	11.3
	X	S.2	- Roof Replacement	\$1,693	\$0	\$1,693	\$819	\$274,951	161.9
		C	Energy Management System and Controls						
	X	C.1	- Energy Management and DDC - Base Project	\$3,584	\$0	\$3,584	\$1,808	\$45,018	12.1
	X	C.2	- Energy Management and DDC - Enhanced Scope	\$0	\$0	\$0	\$0	\$0	
	X	C.3	- Energy Management and DDC - Recommissioning	\$0	\$0	\$0	\$0	\$0	
	X	C.6	- Energy Management and DDC - Enhanced Monitoring	\$0	\$0	\$0	\$0	\$50,832	
		E	Electrical System Improvements						
	X	E.1	- Variable Speed Drives - Gym (AHU-1, AHU-2)	\$1,856	\$0	\$1,856	\$850	\$16,471	8.4
	X	E.2	- Variable Speed Drives - Auditorium (AHU-7)	\$1,010	\$0	\$1,010	\$750	\$8,535	7.7
	X	E.3	- Variable Speed Drives - Music (AHU-8)	\$1,360	\$0	\$1,360	\$250	\$7,234	5.1
		L	Lighting System Improvements						
	X	L.1	- Lighting Improvements	\$4,459	\$660	\$5,119	\$1,710	\$88,287	16.9
		M	Mechanical System Improvements						
	X	M.1	- Heating System Improvements - 3-Way to 2-Way Valves	\$1,013	\$0	\$1,013	\$611	\$16,290	15.5
		P	Plumbing Efficiency Improvements						
	X	P.1	- Plumbing Efficiency Improvements	\$1,067	\$920	\$1,987	\$0	\$17,318	8.7
		S	Structural Improvements						
	X	S.1	- Building Envelope/Air Leakage	\$1,841	\$0	\$1,841	\$0	\$18,636	10.1
		PDC&B	Project Development, Commissioning & Bonds						
	X	PDC&B	Project Development, Commissioning & Bonds					\$134,643	
Financial Impact			Project Summary						
	X		Scenario #2 Total	\$50,052	\$7,740	\$57,792	\$24,251	\$3,482,606	59.8

School District of Pittsville EXAMPLE ENERGY EFFICIENCY EXEMPTION FINANCING PLAN

LEVY YEAR	YEAR DUE	EXISTING FUND 39 DEBT SERVICE	G.O. SCHOOL IMPROVEMENT BONDS Dated December 1, 2014 (First interest 4/1/15)				LESS: ESTIMATED UTILITY/OPER. SAVINGS (A)	NET DEBT SERVICE	NET MILL RATE (B)	FUND 39+EEE DEBT LEVY EXISTING PLUS NEW	COMBINED MILL RATE (B)
2013	2014	\$309,130	PRINCIPAL (3/1)	INTEREST (3/1 & 9/1)	TOTAL	EST. SAVINGS (A)	NET DEBT SERVICE	MILL RATE (B)	\$	\$	
				\$1,810,000							
				EST. AVG= 3.00%							
2014	2015		\$105,000	\$43,675	\$148,675	(\$52,634)	\$96,041	\$0.31	\$309,130	\$1.01	
2015	2016		\$100,000	\$49,650	\$149,650	(\$54,213)	\$95,437	\$0.31	\$96,041	\$0.31	
2016	2017		\$100,000	\$46,650	\$146,650	(\$55,839)	\$90,811	\$0.30	\$95,437	\$0.30	
2017	2018		\$105,000	\$43,575	\$148,575	(\$57,515)	\$91,060	\$0.30	\$90,811	\$0.30	
2018	2019		\$110,000	\$40,350	\$150,350	(\$59,240)	\$91,110	\$0.30	\$91,060	\$0.30	
2019	2020		\$110,000	\$37,050	\$147,050	(\$61,017)	\$86,033	\$0.28	\$91,110	\$0.30	
2020	2021		\$115,000	\$33,675	\$148,675	(\$62,848)	\$85,827	\$0.28	\$86,033	\$0.28	
2021	2022		\$120,000	\$30,150	\$150,150	(\$64,733)	\$85,417	\$0.28	\$85,827	\$0.28	
2022	2023		\$125,000	\$26,475	\$151,475	(\$66,675)	\$84,800	\$0.28	\$85,417	\$0.28	
2023	2024		\$125,000	\$22,725	\$147,725	(\$68,675)	\$79,050	\$0.26	\$84,800	\$0.28	
2024	2025		\$130,000	\$18,900	\$148,900	(\$70,736)	\$78,164	\$0.26	\$79,050	\$0.26	
2025	2026		\$135,000	\$14,925	\$149,925	(\$72,858)	\$77,067	\$0.25	\$78,164	\$0.26	
2026	2027		\$140,000	\$10,800	\$150,800	(\$75,043)	\$75,757	\$0.25	\$77,067	\$0.25	
2027	2028		\$145,000	\$6,525	\$151,525	(\$77,295)	\$74,230	\$0.24	\$75,757	\$0.25	
2028	2029		\$145,000	\$2,175	\$147,175	(\$79,614)	\$67,561	\$0.22	\$74,230	\$0.24	
			\$1,810,000	\$427,300	\$2,237,300	(\$978,935)	\$1,258,365	\$0.27	\$1,567,494	\$0.22	
								AVERAGE		IMPACT	
										(\$0.70)	

NOTE: State aid is ignored due to District's relatively neutral tertiary aid factor (5.74% as of July, 2014 DPI estimate).
 (A) Estimated savings per 9/17/14 Honeywell schedule.
 (B) Mill rate based on 2013 Equalized Valuation (TID-OUT) of \$305,754,953 with annual growth of 0.00%.



