EARTHWELL ENERGY SERVICES

4443 Old Springfield Rd
Vandalia, OH 45377 937-387-0363

Simple Annual Energy Cost Savings Worksheet

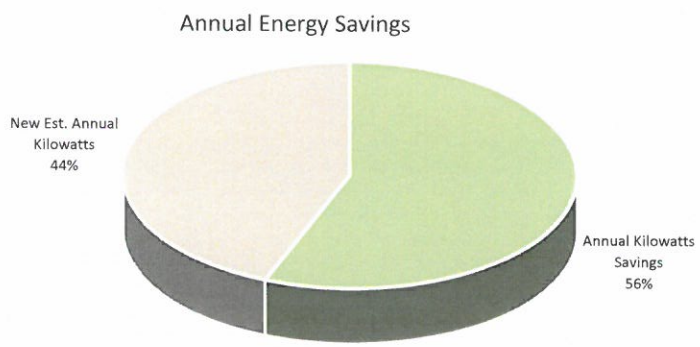
10/23/2013

Project: Anna Local School - All

Blended Rate 0.0992 $/KWH

Item	Description	Qty	Fixture Type	Existing	Going to	Original Fixture Wattage	Replacement Fixture / Wattage	Watts Saved per Fixture	Total Watts Saved	Total Kilowatts Saved	Hours of Operation	Days	Total Annual Kilowatts Saved
1	HS Halls	105	2X4	3LP	2LP LED Retro	78	37	41	4305	4.305	16	242	16668.96
2	HS Halls	1	2X2	2LP	2LP LED Retro	30	20	10	10	0.01	16	242	38.72
3	Stairs	11	2X4	3LP	2LP LED Retro	78	37	41	451	0.451	16	242	1746.272
4	Cafeteria	20	2X4	4LP	3LP LED Retro	104	55	49	980	0.98	16	242	3794.56
5	Kitchen	13	2X4	4LP	3LP LED Retro	104	55	49	637	0.637	16	242	2466.464
6	Kitchen	1	2X2	2LP	2LP LED Retro	30	20	10	10	0.01	16	242	38.72
7	Auditorium	20	CAN	90W Dimmable	GE Par 38	90	36	54	1080	1.08	12	242	3136.32
8	Auditorium	10	CAN	250 W MH	75 W 12" LED Retro	275	75	200	2000	2	12	242	5808
9	Auditorium	4	CAN	175W MH	75 W 12" LED Retro	195	45	150	600	0.6	12	242	1742.4
10	Room 111	15	1X4 Egg Crate	2LP	New Led Wrap	52	37	15	225	0.225	16	242	871.2
11	Room 112	18	1X4 Egg Crate	2LP	New Led Wrap	52	37	15	270	0.27	16	242	1045.44
12	Industrial Arts	28	1X4 W Reflectors	2 LP	2LP LED Retro	52	37	15	420	0.42	16	242	1626.24
13	Industrial Arts	5	1X4 W Reflectors	1 LP	1LP LED Retro	26	18.5	7.5	37.5	0.0375	16	242	145.2
14	Room 108	10	2X4	4LP	3LP LED Retro	104	55	49	490	0.49	16	242	1897.28
15	Room 212	31	1X4 Egg Crate	2LP	New Led Wrap	52	37	15	465	0.465	16	242	1800.48
16	Room 213	23	2X4	4LP	3LP LED Retro	104	55	49	1127	1.127	16	242	4363.744
17	213 office	3	2X4	4LP	3LP LED Retro	104	55	49	147	0.147	16	242	569.184
18	(2) 213 Practice Room	4	2X4	4LP	3LP LED Retro	104	55	49	196	0.196	16	242	758.912
19	Room 209 & Super Off	21	2X4	4LP	3LP LED Retro	104	55	49	1029	1.029	16	242	3984.288
20	Maint	10	2X4	4LP	3LP LED Retro	104	55	49	490	0.49	16	242	1897.28
21	HS Poles West	6	Outside	400W	LED Retro	458	147	311	1866	1.866	10	365	6810.9
22	HS Poles North	4	Outside	400W	LED Retro	458	147	311	1244	1.244	10	365	4540.6
23	Outside Wall Pack	4	Wall Pack	400W	LED Retro	458	128	330	1320	1.32	10	365	4818
24	Outside Wall Pack	6	Wall Pack	250W	LED Retro	275	75	200	1200	1.2	10	365	4380
25	Elementary Poles Single	12	Outside	400W	LED Retro	458	147	311	3732	3.732	10	365	13621.8
26	Elementary Poles Double	2	Outside	400W	LED Retro	916	147	769	1538	1.538	10	365	5613.7
									25869.5	25.8695			94,184.66

Original Annual Kilowatts	167,824.56
Annual Kilowatts Savings	94,184.66
New Est. Annual Kilowatts	73,639.89



Annual Energy Saving	$	9,345.94
5 years Saving	$	46,729.72
10 Year Saving	$	93,459.44

Notes: Days based on 5.5 Days * 44 Weeks - Outside 365 days

Blended Rate Based on Oct 2013 Billing

Additional Energy Saving not captured above.

1) Auditorium is currently run about 12 hours a day because the current cans take so long to start up. New LED Replacement will be able to be turn on and off instantly. Current usage of space is about 2 hours.

2) Bulb life is 25% to 35% longer than T8 bulb

*This tool is an estimate of energy saving. Actual results will vary based on usage and not guaranteed.