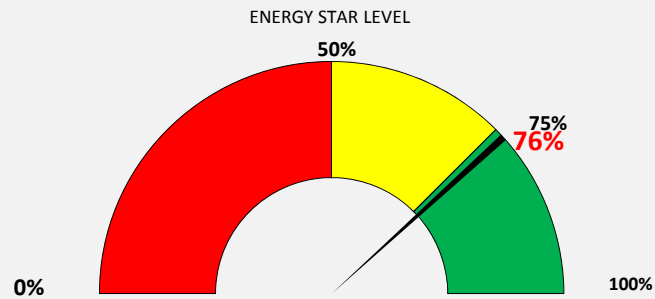


MONTHLY UTILITY EFFICIENCY BREAKDOWN AND ANALYSIS

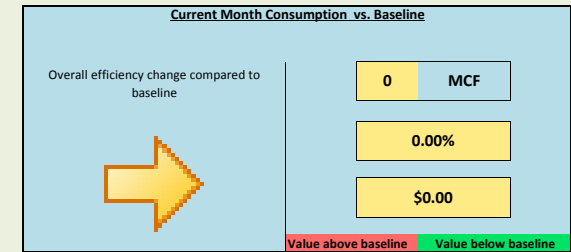
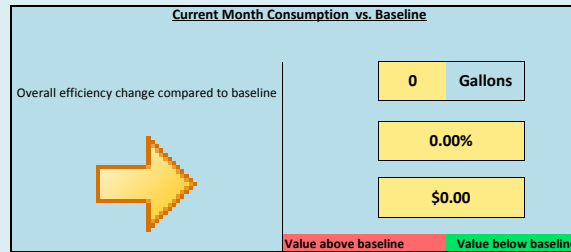
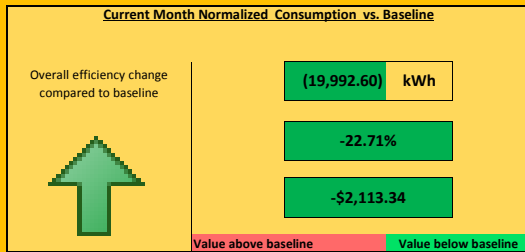


Breakdown: 50% = national average
 50% < X < 75% → above national average, but room for improvement
 X > 75% → approaching maximum efficiency

ELECTRICITY

WATER

GAS



Important Observations and Notes

*June 2018 normalized consumption shows a reduction of 22.71% compared to 2013 base line. This leads to reduction 19,992 kWh and \$2,113.34
 **Current year Maximum kW has decreased by 117 kW compared to last year.
 ***Energy Star is at 76%.

Important Observations and Notes

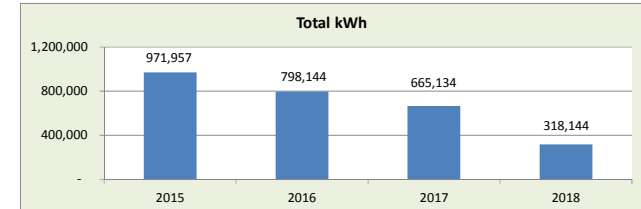
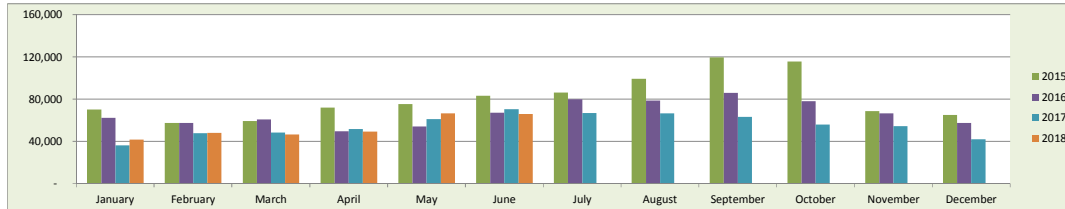
Important Observations and Notes

Site Name: Royal ISD - Stem Academy
 Site Address: 2500 Durkin
 ESI ID #: 1008901042787085352100
 Meter #: i89587751
 Building Type: School
 Building Size (sq. ft.): 73,844

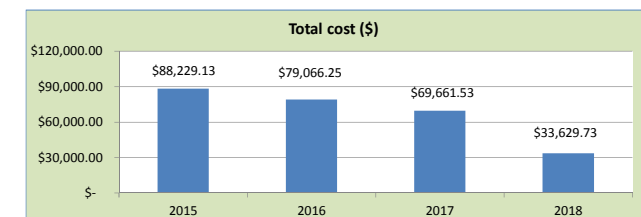
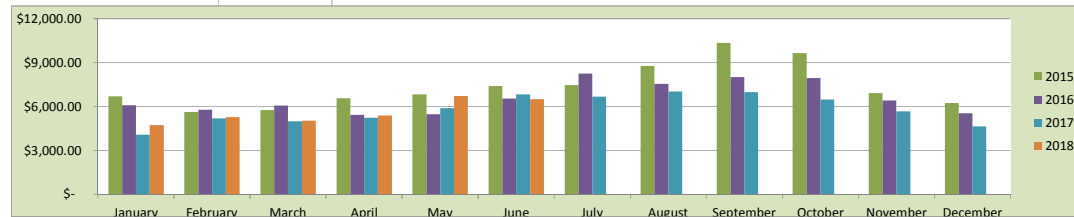


Electricity

Consumption - Kwh														
Year	January	February	March	April	May	June	July	August	September	October	November	December	Total kWh	Average
2015	70,080	57,408	59,136	72,000	75,264	83,328	86,208	99,264	119,616	115,776	68,736	65,141	971,957	80,996
2016	62,400	57,600	60,672	49,728	54,144	67,200	79,872	78,720	85,824	78,144	66,432	57,408	798,144	66,512
2017	36,288	47,808	48,384	51,840	61,248	70,464	66,816	66,624	63,214	56,064	54,336	42,048	665,134	55,428
2018	41,664	48,192	46,464	49,344	66,624	65,856							318,144	53,024

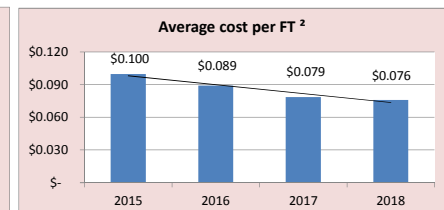
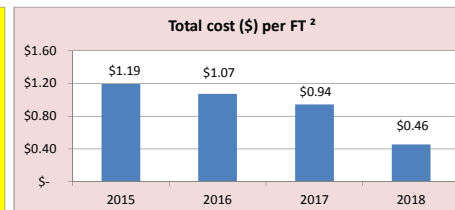
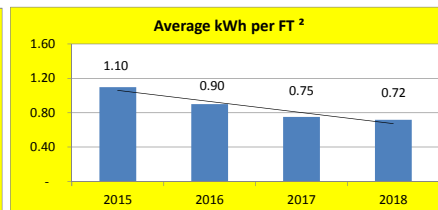
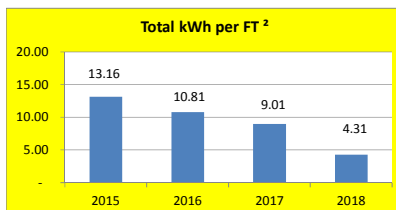


Cost - USD(\$)														
Year	January	February	March	April	May	June	July	August	September	October	November	December	Total cost (\$)	Average cost
2015	\$ 6,693.93	\$ 5,620.86	\$ 5,757.67	\$ 6,572.92	\$ 6,821.89	\$ 7,396.26	\$ 7,454.66	\$ 8,771.19	\$ 10,345.41	\$ 9,649.80	\$ 6,913.00	\$ 6,231.54	\$ 88,229.13	\$ 7,352.43
2016	\$ 6,096.16	\$ 5,789.04	\$ 6,055.74	\$ 5,425.88	\$ 5,478.97	\$ 6,538.30	\$ 8,246.25	\$ 7,541.71	\$ 8,001.11	\$ 7,940.28	\$ 6,415.43	\$ 5,537.38	\$ 79,066.25	\$ 6,588.85
2017	\$ 4,083.21	\$ 5,180.87	\$ 4,992.99	\$ 5,229.22	\$ 5,885.66	\$ 6,823.05	\$ 6,667.11	\$ 7,027.65	\$ 6,988.35	\$ 6,473.32	\$ 5,674.56	\$ 4,635.54	\$ 69,661.53	\$ 5,805.13
2018	\$ 4,721.59	\$ 5,272.00	\$ 5,029.08	\$ 5,394.66	\$ 6,709.09	\$ 6,503.31							\$ 33,629.73	\$ 5,604.96



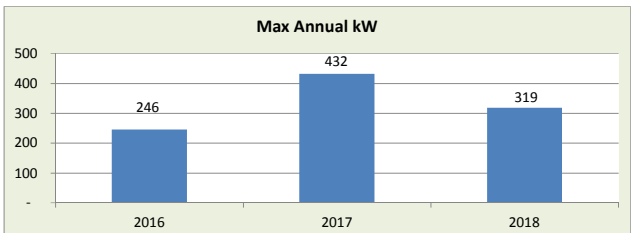
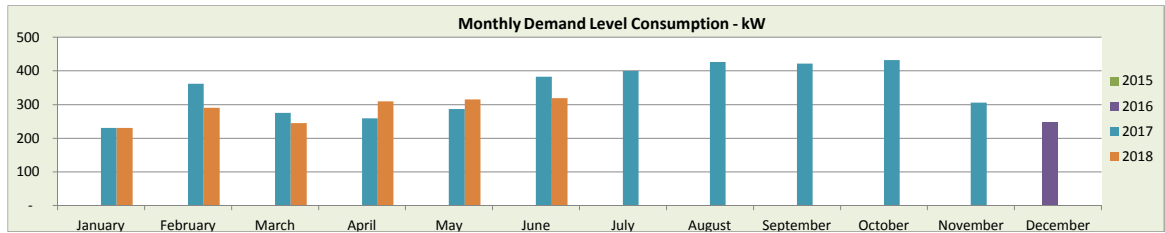
Consumption per FT ² (kWh)														
Year	January	February	March	April	May	June	July	August	September	October	November	December	Total kWh per FT ²	Average kWh per FT ²
2015	0.95	0.78	0.80	0.98	1.02	1.13	1.17	1.34	1.62	1.57	0.93	0.88	13.16	1.10
2016	0.85	0.78	0.82	0.67	0.73	0.91	1.08	1.07	1.16	1.06	0.90	0.78	10.81	0.90
2017	0.49	0.65	0.66	0.70	0.83	0.95	0.90	0.90	0.86	0.76	0.74	0.57	9.01	0.75
2018	0.56	0.65	0.63	0.67	0.90	0.89							4.31	0.72

Cost per FT ²														
Year	January	February	March	April	May	June	July	August	September	October	November	December	Total cost (\$) per FT ²	Average cost per FT ²
2015	\$ 0.091	\$ 0.076	\$ 0.078	\$ 0.089	\$ 0.092	\$ 0.100	\$ 0.101	\$ 0.119	\$ 0.140	\$ 0.131	\$ 0.094	\$ 0.084	\$ 1.19	\$ 1.10
2016	\$ 0.083	\$ 0.078	\$ 0.082	\$ 0.073	\$ 0.074	\$ 0.089	\$ 0.112	\$ 0.102	\$ 0.108	\$ 0.108	\$ 0.087	\$ 0.075	\$ 1.07	\$ 0.89
2017	\$ 0.055	\$ 0.070	\$ 0.068	\$ 0.071	\$ 0.080	\$ 0.092	\$ 0.090	\$ 0.095	\$ 0.095	\$ 0.088	\$ 0.077	\$ 0.063	\$ 0.94	\$ 0.79
2018	\$ 0.064	\$ 0.071	\$ 0.068	\$ 0.073	\$ 0.091	\$ 0.088							\$ 0.46	\$ 0.76

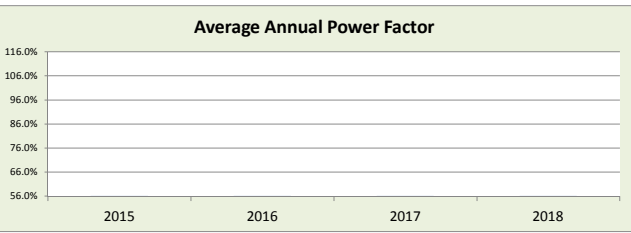
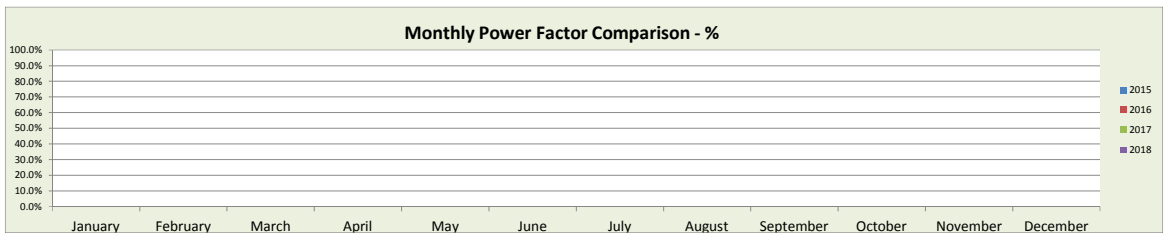


Notes:

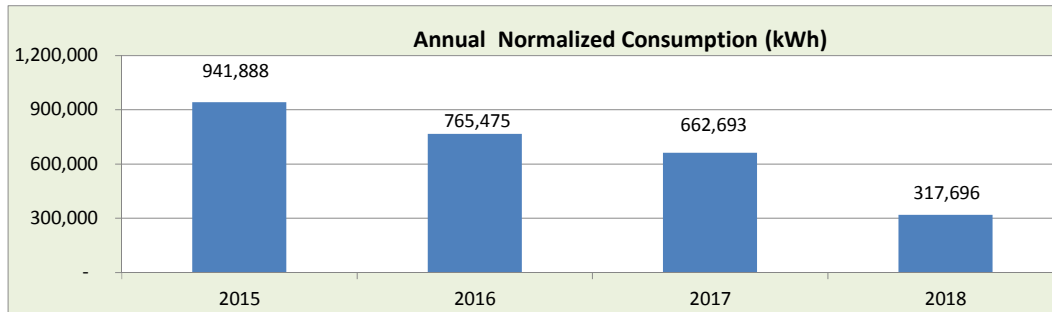
Demand Level - kW														
Year	January	February	March	April	May	June	July	August	September	October	November	December		Max Annual kW
2015														#DIV/0!
2016														246
2017		230	361	275	259	286	382	399	426	421	432	305		432
2018		230	290	244	309	315	319							319



Power Factor - %														
Year	January	February	March	April	May	June	July	August	September	October	November	December		Average Annual Power Factor
2015														#DIV/0!
2016														#DIV/0!
2017														#DIV/0!
2018														#DIV/0!



YEAR	ANNUAL CONSUMPTION & COST DATA				Rate (\$/kWh)	NORMALIZED ANNUAL CONSUMPTION & COST DATA			
	Annual Consumption (kWh)	kWh Change vs. Baseline Year	Total Cost	Cost Change vs. Baseline Year		Annual Normalized Consumption (kWh)	kWh Change vs Base Year	% Change	Cost Change vs Base Year
2015	971,957	313,589.00	\$ 88,229.13	22,743.08	\$ 0.0908	941,888	361,900.33	62.40%	\$ 32,851.40
2016	798,144	139,776.00	\$ 79,066.25	13,580.20	\$ 0.0991	765,475	185,487.03	31.98%	\$ 18,374.83
2017	665,134	6,766.00	\$ 69,661.53	4,175.48	\$ 0.1047	662,693	82,705.37	14.26%	\$ 8,661.99
2018	318,144		\$ 33,629.73		\$ 0.1057	317,696			\$ -



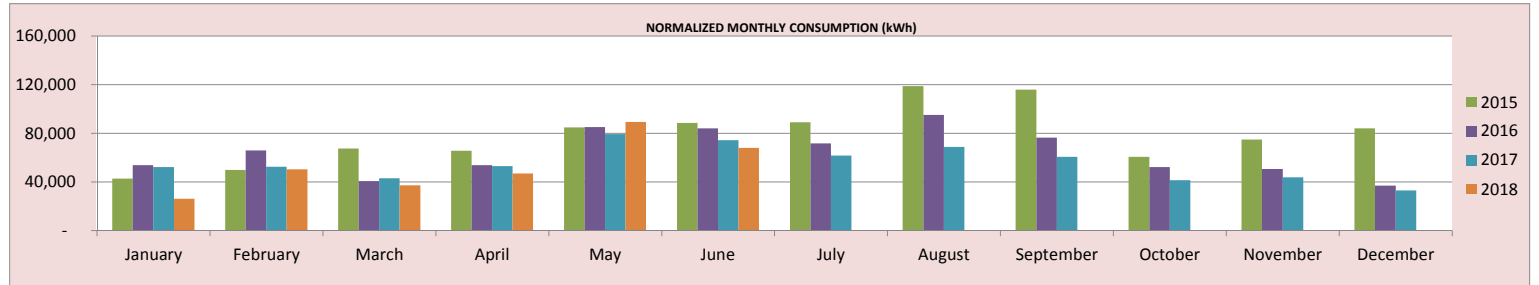
Notes:

- *June 2018 normalized consumption shows a reduction of 22.71% compared to 2013 base line. This leads to reduction 19,992 kWh and \$2,113.34
- **Current year Maximum kW has decreased by 117 kW compared to last year.
- ***Energy Star is at 76%.

Total kWh saved since 2014	-381,006.89
Total savings since 2014	-\$36,742.35

YEAR	MONTHLY CONSUMPTION (kWh)											
	January	February	March	April	May	June	July	August	September	October	November	December
2015	70,080	57,408	59,136	72,000	75,264	83,328	86,208	99,264	119,616	115,776	68,736	65,141
2016	62,400	57,600	60,672	49,728	54,144	67,200	79,872	78,720	85,824	78,144	66,432	57,408
2017	36,288	47,808	48,384	51,840	61,248	70,464	66,816	66,624	63,214	56,064	54,336	42,048
2018	41,664	48,192	46,464	49,344	66,624	65,856	-	-	-	-	-	-

YEAR	NORMALIZED MONTHLY CONSUMPTION (kWh)											
	January	February	March	April	May	June	July	August	September	October	November	December
2015	42,569	49,777	67,491	65,674	84,683	88,559	89,051	118,842	115,751	60,518	74,875	84,099
2016	53,821	65,838	40,441	53,747	85,051	83,919	71,601	95,010	76,333	52,229	50,579	36,907
2017	52,217	52,293	42,863	53,016	79,219	74,289	61,629	68,684	60,610	41,286	43,643	32,944
2018	26,155	50,275	37,108	46,833	89,295	68,030						



YEAR	NORMALIZED MONTHLY CONSUMPTION CHANGE(kWh) vs Base Year											
	January	February	March	April	May	June	July	August	September	October	November	December
2015						536.53	3,653.90	17,129.13	31,448.56	(14,467.47)	23,369.95	(9,963.53)
2016	11,252.22	16,060.24	(27,049.63)	(11,927.30)	368.70	(4,103.95)	(13,795.45)	(6,703.60)	(7,969.56)	(22,756.85)	(925.76)	(57,155.30)
2017	9,648.18	2,515.59	(24,627.53)	(12,657.91)	(5,463.59)	(13,733.40)	(23,767.63)	(33,029.33)	(23,692.71)	(33,699.50)	(7,861.76)	(61,118.30)
2018	(16,413.82)	497.59	(30,382.53)	(18,840.91)	4,612.41	(19,992.60)						
Total	4,486.57	19,073.43	(82,059.68)	(43,426.12)	(482.49)	(37,293.43)	(33,909.17)	(22,603.79)	(213.71)	(70,923.82)	14,582.43	(128,237.12)

YEAR	MONTHLY CONSUMPTION PERCENTAGE CHANGE vs Base Year											
	January	February	March	April	May	June	July	August	September	October	November	December
2015						0.61%	4.28%	16.84%	37.30%	-19.29%	45.37%	-10.59%
2016	26.43%	32.26%	-40.08%	-18.16%	0.44%	-4.66%	-16.15%	-6.59%	-9.45%	-30.35%	-1.80%	-60.76%
2017	22.66%	5.05%	-36.49%	-19.27%	-6.45%	-15.60%	-27.83%	-32.47%	-28.10%	-44.94%	-15.26%	-64.98%
2018	-38.56%	1.00%	-45.02%	-28.69%	5.45%	-22.71%						

YEAR	MONTHLY COST CHANGE vs Base Year											
	January	February	March	April	May	June	July	August	September	October	November	December
2015						\$48.70	\$331.68	\$1,554.89	\$2,854.73	-\$1,313.28	\$2,121.40	-\$904.44
2016	\$1,114.67	\$1,590.97	-\$2,679.61	-\$1,181.55	\$36.52	-\$406.55	-\$1,366.61	-\$664.08	-\$789.49	-\$2,254.35	-\$91.71	-\$5,661.95
2017	\$1,010.48	\$263.47	-\$2,579.32	-\$1,325.70	-\$572.22	-\$1,438.34	-\$2,489.26	-\$3,459.26	-\$2,481.41	-\$3,529.45	-\$823.39	-\$6,401.11
2018	-\$1,735.04	\$52.60	-\$3,211.62	-\$1,991.60	\$487.56	-\$2,113.34						
Total	\$390.12	\$1,907.03	-\$8,470.54	-\$4,498.85	-\$48.14	-\$3,909.52	-\$3,524.19	-\$2,568.45	-\$416.16	-\$7,097.09	\$1,206.31	-\$12,967.50