

Utility Bill Information

Socastee Elem	<u>8/17/17 - 9/1/17</u>	<u>9/1/17 - 10/1/17</u>	<u>10/1-17 - 11/1/17</u>	<u>11/1/17 - 12/1/17</u>	<u>12/1/17 - 1/1/18</u>
Days	15	30	31	30	31
Consumption (KWH)	64,200	122,120	61,840	40,480	40,484
Bill	\$8,528.35	\$11,919.03	\$6,984.66	\$7,193.67	\$6,767.43
Avg Consump/Day (KWH/DAY)	4,280.00	4,070.67	1,994.84	1,349.33	1,305.94
Sq Ft = 120,230					
Total Consump/Sq Ft (KWH/SQ FT)	0.533976545	1.01571987	0.514347501	0.336688015	0.336721284

St. James Intermed	<u>8/17/17 - 9/1/17</u>	<u>9/1/17 - 10/1/17</u>	<u>10/1-17 - 11/1/17</u>	<u>11/1/17 - 12/1/17</u>	<u>12/1/17 - 1/1/18</u>
Days	15	30	31	30	31
Consumption (KWH)	110,080	153,400	98,800	56,960	70,360
Bill	\$15,623.00	\$17,893.39	\$12,329.71	\$8,595.57	\$10,293.13
Avg Consump/Day (KWH/DAY)	7,338.67	5,113.33	3,187.10	1,898.67	2,269.68
Sq Ft = 170,918					
Avg Consump/Sq Ft (KWH/SQ FT)	0.644051533	0.897506407	0.578054974	0.333259224	0.411659392

Ten Oaks Middle	<u>8/2/17 - 9/1/17</u>	<u>9/2/17 - 10/3/17</u>	<u>10/4/17 - 11/2/17</u>	<u>11/3/17 - 11/30/17</u>	<u>12/1/17 - 12/29/17</u>	<u>12/30/17 - 1/31/18</u>
Days	31	32	30	28	29	33
Consumption (KWH)	98,208	78,624	81,216	50,112	58,176	87,264
Bill	\$13,617.71	\$11,565.10	\$10,992.34	\$7,154.62	\$7,504.77	\$10,610.00
Avg Consump/Day (KWH/DAY)	3,168.00	2,457.00	2,707.20	1,789.71	2,006.07	2,644.36
Sq Ft = 170,918						
Avg Consump/Sq Ft (KWH/SQ FT)	0.574591324	0.460010063	0.47517523	0.293193227	0.340373746	0.51056062

River Oaks Elem School	<u>7/28/17 - 8/28/17</u>	<u>8/29/17 - 9/28/17</u>	<u>9/29/17 - 10/30/17</u>	<u>10/31/17 - 11/29/17</u>	<u>11/30/17 - 12/29/17</u>	<u>12/30/17 - 1/30/18</u>
Days	32	31	32	30	30	32
Consumption (KWH)	79,872	90,624	88,320	62,976	58,752	80,640
Bill	\$12,288.83	\$12,685.16	\$11,322.44	\$8,794.94	\$11,291.20	\$14,987.84
Avg Consump/Day (KWH/DAY)	2,496.00	2,923.35	2,760.00	2,099.20	1,958.40	2,520.00
Sq Ft = 103,083						
Avg Consump/Sq Ft (KWH/SQ FT)	0.774831932	0.87913623	0.856785309	0.610925177	0.569948488	0.782282239

River Oaks Portables	<u>7/28/17 - 8/25/17</u>	<u>8/26/17 - 9/28/17</u>	<u>9/29/17 - 10/30/17</u>	<u>10/31/17 - 11/29/17</u>	<u>11/30/17 - 12/29/17</u>	<u>12/30/17 - 1/29/18</u>
Days	29	34	32	30	30	31
Consumption (KWH)	12,640	14,960	10,400	5,120	5,440	7,120
Bill	\$1,483.03	\$1,731.89	\$981.04	\$491.27	\$517.68	\$666.08
Avg Consump/Day (KWH/DAY)	435.86	440.00	325.00	170.67	181.33	229.68
Sq Ft = ?	N/A	N/A	N/A	N/A	N/A	N/A
Avg Consump/Sq Ft (KWH/SQ FT)	N/A	N/A	N/A	N/A	N/A	N/A

Utility Bill Information

Socastee Elem (Sq Ft = 120,230)	<u>8/17/17 -9/1/17</u>	<u>9/1/17 -10/1/17</u>	<u>10/1-17 - 11/1/17</u>	<u>11/1/17 - 12/1/17</u>	<u>12/1/17 - 1/1/18</u>
Days	15	30	31	30	31
Building Consumption (KWH)	64,200	122,120	61,840	40,480	40,484
Utility Buy-Back (KWH)	29,292	Info Not Provided	25,358	20,978	15,410
Net Consumption (KWH)	34,908	N/A	36,482	19,502	25,074

St. James Intermed (Sq Ft = 170,918)	<u>8/17/17 -9/1/17</u>	<u>9/1/17 -10/1/17</u>	<u>10/1-17 - 11/1/17</u>	<u>11/1/17 - 12/1/17</u>	<u>12/1/17 - 1/1/18</u>
Days	15	30	31	30	31
Building Consumption (KWH)	110,080	153,400	98,800	56,960	70,360
Utility Buy-Back (KWH)	55,800	Info Not Provided	50,009	40,594	32,938
Net Consumption (KWH)	54,280	N/A	48,791	16,366	37,422

Ten Oaks Middle (Sq Ft = 170,918)	<u>8/2/17 -9/1/17</u>	<u>9/2/17 -10/3/17</u>	<u>10/4/17 - 11/2/17</u>	<u>11/3/17 - 11/30/17</u>	<u>12/1/17 - 12/29/17</u>	<u>12/30/17 - 1/31/18</u>
Days	31	32	30	28	29	33
Building Consumption (KWH)	98,208.00	78,624.00	81,216.00	50,112.00	58,176.00	87,264.00
Utility Buy-Back (KWH)	61,632.00	59,136.00	47,040.00	37,728.00	6,528.00	36,990.00
Net Consumption (KWH)	36,576.00	19,488.00	34,176.00	12,384.00	51,648.00	50,274.00

River Oaks Elem School (Sq Ft = 103,083)	<u>7/28/17 - 8/28/17</u>	<u>8/29/17 - 9/28/17</u>	<u>9/29/17 - 10/30/17</u>	<u>10/31/17 - 11/29/17</u>	<u>11/30/17 - 12/29/17</u>	<u>12/30/17 - 1/30/18</u>
Days	32	31	32	30	30	32
Building Consumption (KWH)	79,872	90,624	88,320	62,976	58,752	80,640
Utility Buy-Back - N/A						

Assumptions/Givens

1. All information taken from utility bills.
2. Too many variables (days in period, building square footage, weather, etc.). To compare, must find a common unit such as Avg Consumption/Day and KWH/SQ FT.
3. Systems have not been Commissioned so efforts to maximize efficiency are on-going.
4. Net Position Definition = Must generate at least 1 KWH more than consumed on annual basis.
5. There will always be an utility bill.
6. Multiple utilities involved so terms and billing periods vary.

Questions to Address

1. Are new schools more energy efficient?
2. Are new schools net positive?