

R. A. Brown MS

Electrical Usage (PGE)						
	Usage (kWh)			Cost		
	2018	2022	Difference	2018	2022	Difference
JAN	79,151	53,533	25,618	\$ 7,259	\$ 6,129	\$ 1,129
FEB	81,693	49,457	32,236	7,741	5,761	1,980
MAR	100,073	49,730	50,344	9,037	5,971	3,066
APR	85,457	48,844	36,612	7,979	5,840	2,139
MAY	73,955	48,556	25,399	7,109	5,852	1,257
JUN	37,510	44,487	(6,977)	6,209	5,037	1,172
JUL	42,956	44,411	(1,455)	5,170	4,996	174
AUG	37,488	45,435	(7,947)	4,381	4,934	(552)
SEP	45,614	51,645	(6,031)	4,919	5,459	(540)
OCT	60,495	51,521	8,974	6,155	5,465	690
NOV	96,442	52,680	43,762	8,624	6,308	2,316
DEC	101,759	46,920	54,839	8,932	5,861	3,071
	842,592	587,219	255,374	\$ 83,513	\$ 67,610	\$ 15,903
	<b>Electric Use Reduction</b>		<b>30%</b>	<b>Electric Cost Savings</b>		<b>19%</b>

**Energy Use Influences**

Operations-

- Long HVAC runtimes
- Increase in filtration- equipment working harder
- Increase in outside air coming into building
- Runtimes during Spring & Summer breaks

Utility Rates-

- Electric rate increase 4.9% effective Jan 1, 2022
- NWN Gas rate increase approx 18% between 2018 and 2022

Natural Gas Heating Fuel (NWN)						
	Usage (therm)			Cost		
	2018	2022	Difference	2018	2022	Difference
JAN	5,152	6,387	(1,235)	\$ 4,372	\$ 5,796	\$ (1,423)
FEB	5,001	4,493	508	4,165	3,940	225
MAR	5,490	3,785	1,705	4,575	3,770	805
APR	3,004	3,261	(257)	2,541	3,257	(716)
MAY	386	1,745	(1,359)	(228)	1,779	(2,007)
JUN	268	702	(434)	256	737	(481)
JUL	2	142	(140)	33	176	(143)
AUG	39	140	(101)	67	174	(107)
SEP	488	228	260	439	259	180
OCT	1,910	482	1,427	1,613	492	1,121
NOV	3,841	3,618	223	3,150	4,541	(1,391)
DEC	4,862	4,815	47	4,016	5,953	(1,938)
	30,443	29,797	645	\$ 24,998	\$ 30,875	\$ (5,877)
	<b>Heating Fuel Use Reduction</b>		<b>2%</b>	<b>Heating Fuel Cost Savings</b>		<b>-24%</b>

TOTAL ENERGY PROFILE CY2018 vs CY2022						
	Usage (MBtu)			Cost		
	2018	2022	Difference	2018	2022	Difference
JAN	785	821	(36)	\$ 11,631	\$ 11,925	\$ (294)
FEB	779	618	161	11,906	9,701	2,205
MAR	890	548	342	13,612	9,741	3,871
APR	592	493	99	10,520	9,097	1,423
MAY	291	340	(49)	6,881	7,631	(751)
JUN	155	222	(67)	6,465	5,774	691
JUL	147	166	(19)	5,203	5,172	30
AUG	132	169	(37)	4,448	5,107	(659)
SEP	204	199	5	5,357	5,718	(360)
OCT	397	224	173	7,767	5,957	1,810
NOV	713	379	335	11,774	5,063	6,711
DEC	833	482	352	12,948	5,953	6,994
	5,919	4,660	1,259	\$ 108,511	\$ 86,839	\$ 21,672
	<b>Total Energy Use Reduction</b>		<b>21%</b>	<b>Total Energy Cost Savings</b>		<b>20%</b>

Energy Efficiency Improvement Factors-

- Installation of new Direct Digital Controls (DDC)
- New (upgraded) HVAC units
- New windows, skylights & seals
- New roofing
- Installation of new condensing boilers
- Some new lighting