

Eau Claire Energy Cooperative

COMPARE ENERGY COSTS - ELECTRIC RESISTIVE HEAT TO FOSSIL FUELS HEATING COST COMPARISON

Resistive Electric Heat 100% Efficient price/kWh	Fuel Oil 80% efficient price/gallon	LP 96% efficient price/gallon	Natural Gas 96% efficient price/therm	Cost per Million BTU	
\$0.0840	\$2.76	\$2.16	\$2.36	\$24.61	* Off-Peak (Dual Fuel & Heat Storage) base rate Oct. - May billing periods
\$0.0860	\$2.82	\$2.21	\$2.42	\$25.20	
\$0.0880	\$2.89	\$2.26	\$2.48	\$25.78	
\$0.0900	\$2.95	\$2.32	\$2.53	\$26.37	
\$0.0920	\$3.02	\$2.37	\$2.59	\$26.96	
\$0.0940	\$3.08	\$2.42	\$2.64	\$27.54	
\$0.0960	\$3.15	\$2.47	\$2.70	\$28.13	
\$0.0980	\$3.22	\$2.52	\$2.76	\$28.71	
\$0.1000	\$3.28	\$2.57	\$2.81	\$29.30	
\$0.1020	\$3.35	\$2.63	\$2.87	\$29.89	
\$0.1040	\$3.41	\$2.68	\$2.93	\$30.47	* General Purpose base rate Oct. - May billing periods
\$0.1060	\$3.48	\$2.73	\$2.98	\$31.06	
\$0.1075	\$3.53	\$2.77	\$3.02	\$31.50	
\$0.1100	\$3.61	\$2.83	\$3.09	\$32.23	
\$0.1120	\$3.68	\$2.88	\$3.15	\$32.82	
\$0.1140	\$3.74	\$2.93	\$3.21	\$33.40	
\$0.1160	\$3.81	\$2.99	\$3.26	\$33.99	
\$0.1180	\$3.87	\$3.04	\$3.32	\$34.57	
\$0.1200	\$3.94	\$3.09	\$3.38	\$35.16	
\$0.1220	\$4.00	\$3.14	\$3.43	\$35.75	
\$0.1235	\$4.05	\$3.18	\$3.47	\$36.19	

<u>Fuel</u>	<u>BTU Heat Content</u>
Resistive Electric	3,413/kWh
Fuel Oil	140,000/gal
LP	91,500/gal
Natural Gas	100,000/therm

Example: If you are comparing resistive electric heat priced at \$0.084/kWh (8.4 cents/kWh), to a 96% efficient LP system, you would have to buy LP at \$2.16/gal., or less, to have as low an operating cost as the resistive electric heating system.

* ECEC rates subject to change at any time

updated Jan 2023