

Eau Claire Energy Cooperative

COMPARE ENERGY COSTS - GEOTHERMAL HEAT PUMPS TO FOSSIL FUELS

| Geothermal Heat Pump (GHP) with a COP of 4.3 price/kWh | Fuel Oil 65% efficient price/gallon | LP 92% efficient price/gallon | Natural Gas 92% efficient price/therm | Cost per Million BTU | |
|-----------------------------------------------------------------|-------------------------------------------|-------------------------------------|---------------------------------------------|-------------------------|-------------------------------------------------|
| \$0.062 | \$0.38 | \$0.36 | \$0.39 | \$4.22 | |
| \$0.064 | \$0.40 | \$0.37 | \$0.40 | \$4.36 | |
| \$0.066 | \$0.41 | \$0.38 | \$0.41 | \$4.50 | |
| \$0.068 | \$0.42 | \$0.39 | \$0.43 | \$4.63 | |
| \$0.070 | \$0.43 | \$0.40 | \$0.44 | \$4.77 | |
| \$0.072 | \$0.45 | \$0.41 | \$0.45 | \$4.91 | |
| \$0.073 | \$0.45 | \$0.42 | \$0.46 | \$4.97 | * Off-Peak (Dual Fuel & Heat Storage) base rate |
| \$0.074 | \$0.46 | \$0.42 | \$0.46 | \$5.04 | Sept. 21 - May 20 |
| \$0.076 | \$0.47 | \$0.44 | \$0.48 | \$5.18 | (after NWPA Rate Credit) |
| \$0.078 | \$0.48 | \$0.45 | \$0.49 | \$5.31 | |
| \$0.080 | \$0.50 | \$0.46 | \$0.50 | \$5.45 | |
| \$0.082 | \$0.51 | \$0.47 | \$0.51 | \$5.59 | |
| \$0.084 | \$0.52 | \$0.48 | \$0.53 | \$5.72 | |
| \$0.086 | \$0.53 | \$0.49 | \$0.54 | \$5.86 | |
| \$0.088 | \$0.55 | \$0.50 | \$0.55 | \$6.00 | |
| \$0.090 | \$0.56 | \$0.52 | \$0.56 | \$6.13 | |
| \$0.092 | \$0.57 | \$0.53 | \$0.58 | \$6.27 | |
| \$0.094 | \$0.58 | \$0.54 | \$0.59 | \$6.41 | |
| \$0.096 | \$0.60 | \$0.55 | \$0.60 | \$6.54 | |
| \$0.098 | \$0.61 | \$0.56 | \$0.61 | \$6.68 | |
| \$0.100 | \$0.62 | \$0.57 | \$0.63 | \$6.81 | |
| \$0.102 | \$0.63 | \$0.59 | \$0.64 | \$6.95 | |
| \$0.104 | \$0.64 | \$0.59 | \$0.65 | \$7.06 | |
| \$0.106 | \$0.66 | \$0.61 | \$0.66 | \$7.22 | |
| \$0.107 | \$0.66 | \$0.61 | \$0.67 | \$7.29 | * General Purpose base rate |
| \$0.108 | \$0.67 | \$0.62 | \$0.68 | \$7.36 | Sept. 21 - May 20 |
| \$0.110 | \$0.68 | \$0.63 | \$0.69 | \$7.52 | (after NWPA Rate Credit) |
| \$0.112 | \$0.69 | \$0.64 | \$0.70 | \$7.63 | |
| \$0.114 | \$0.71 | \$0.65 | \$0.71 | \$7.77 | |
| \$0.116 | \$0.72 | \$0.67 | \$0.73 | \$7.90 | |
| \$0.118 | \$0.73 | \$0.68 | \$0.74 | \$8.04 | |
| \$0.120 | \$0.74 | \$0.69 | \$0.75 | \$8.18 | |
| \$0.122 | \$0.76 | \$0.70 | \$0.76 | \$8.31 | |
| \$0.124 | \$0.77 | \$0.71 | \$0.78 | \$8.45 | |

| Fuel GHP/COP of 4.3 | BTU Heat Content |
|------------------------|------------------|
| Fuel Oil | 14,676/kWh |
| LP | 140,000/gal |
| Natural Gas | 91,500/gal |
| | 100,000/therm |

Example: If you are comparing a geothermal heat pump with a COP of 4.3, at \$0.073/kWh (7.3 cents/kWh), to a 65% efficient fuel oil system, you would have to buy fuel oil at \$0.45/gal., or less, to have as low an operating cost as the geothermal heat pump.

* ECEC rates subject to change at any time

For more information on the NWPA Rate Credit go to www.ecec.com or call ECEC at 715-832-1603

