



TOWN OF PERINTON

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Comparison of cost to heat a house

Electric	Gas
3413 BTU per Kw	100,000 BTU per Therm
\$0.0525 per Kw (Fairport winter rate)	\$1.33 per Therm (RG&E 12-13-05)

The following example is based on a house that had an average consumption of 190 Therm for the months of January, February and March in 2004.

Electric Heat:

$(190 \text{ Therm}) \times (100,000 \text{ BTU per Therm}) = 19,000,000 \text{ BTU}$

$(19,000,000 \text{ BTU}) \text{ divided by } (3413 \text{ BTU per Kw}) = 5567 \text{ Kw}$

$(5567 \text{ Kw}) \times (\$0.0525 \text{ per Kw}) = \mathbf{\$292.26 \text{ in electricity}}$

Gas Heat:

$(190 \text{ Therm}) \times (\$1.33 \text{ per Therm}) = \mathbf{\$252.70 \text{ in gas}}$

Remember, the 2005 price for natural gas in this example is inflated from the 2004 price due to hurricane Katrina's impact on supply. The price should come down as the supply reaches normal capacity.

Assume the price has jumped 20% over last year. The cost to heat this same home in **2004** would have been **\$201.60**.

Upgrade Gas Furnace Efficiency:

If the example house had a 78% efficient furnace and was replaced with a 92% efficient model you would save 14% on gas consumption.

$\$252.70 \text{ minus } 14\% = \mathbf{\$217.32}$ (2005 inflated price)

$\$201.60 \text{ minus } 14\% = \mathbf{\$173.37}$ (2004 price)

Remember, houses that were built for electric heat have higher standards for insulation, windows and doors. Comparing two houses of equal size does not mean they have the same energy efficiency.