

Off-Peak Electric Water Heating Fuel Cost Comparison

How to Use this Form: Each line represents the break-even point for the three (3) energy sources. For example, the break-even point for an electric water heater with a 70% energy efficiency rating that heats at a cost of 5.5¢ per kilowatt-hour is the same as operating a propane water heater with a 70% energy efficiency rating at a cost of \$1.04 per gallon. Paying more than \$1.04 per gallon for propane means heating with off-peak electric at 5.5¢ per kilowatt-hour is more economical.

Winter Storage Rate

Break Even Points			
Electric Rate/kWh*	Gas WH Efficiency**	L.P. Gas/Gallon	Natural Gas/Therm
5.5¢	57%	85¢	92¢
5.5¢	60%	89¢	97¢
5.5¢	70%	\$1.04	\$1.13
5.5¢	80%	\$1.19	\$1.29
5.5¢	90%	\$1.33	\$1.45

Winter Dual-Fuel Rate

Break Even Points			
Electric Rate/kWh*	Gas WH Efficiency**	L.P. Gas/Gallon	Natural Gas/Therm
6.75¢	57%	\$1.04	\$1.13
6.75¢	60%	\$1.09	\$1.19
6.75¢	70%	\$1.27	\$1.38
6.75¢	80%	\$1.46	\$1.58
6.75¢	90%	\$1.64	\$1.78

*Cost reflects the per kilowatt-hour energy charge. It does not include any applicable Power Cost Adjustment. Electric water heater used for comparison purposes is 90% efficient and is model data for 120-gallon water heater as contained in GAMA publication.

**Data on gas water heater efficiencies is from Gas Appliance Manufacturers Association (GAMA) listing.