

Cost comparison data page

Typical Residential Annual Energy Costs

Electric vs Natural Gas Water Heating

	Natural Gas	Electric
Hourly Input Rating (KWh)		12.03
Hourly Input Rating (Therms)	0.41045	
Energy Factor	0.58	0.90
Energy consumption/hr (KWh, Therms)	0.7	13
Price/Kwh, Price/therm	\$1.01	\$0.09
Energy Consumption/year (KWh,Therms)	261	4,857
Energy Cost/Year	\$262	\$458

Propane vs Natural Gas Water Heating

	Natural Gas	Propane
Hourly Input Rating (BTU's)	41,045	41,045
Energy Factor	0.62	0.62
Energy Consumption (therms/hour)	0.66	0.66
Price/Gallon		\$2.87
Price/therm	\$1.01	\$3.14
Energy Consumption (therms/year)	241.60	241.60
Energy Cost/Year	\$243	\$759

Typical Residential Annual Energy Costs

Electric vs Natural Gas Clothes Drying

	Natural Gas	Electric
Energy Factor	2.67	3.01
Energy consumption (MMBtu/Yr)	3.8	3.3
Energy consumption (Kwh, Therms/Yr)	38.0	967.20
Price/Kwh, Price/therm	\$1.01	\$0.09
Energy Cost/Year	\$38	\$91

Propane vs Natural Gas Clothes Drying

	Natural Gas	Propane
Energy Factor	2.67	2.67
Energy consumption (MMBtu/Yr)	3.8	3.8
Energy consumption (Kwh, Therms/Yr)	38.0	38.0
Price/Gallon	-	\$2.87
Price/therm	\$1.01	\$3.14
Energy Cost/Year	\$38	\$119

Cost comparison data page (continued)

Typical Residential Annual Energy Costs

Electric vs Natural Gas Cooking

	Natural Gas	Electric
Energy Factor	5.80	10.9
Energy consumption (MMBtu/Yr)	3.3	1.8
Energy consumption (Kwh, Therms/Yr)	33.0	527.50
Price/Kwh, Price/therm	\$1.01	\$0.09
Energy Cost/Year	\$33	\$50

Propane vs Natural Gas Cooking

	Natural Gas	Propane
Energy Factor	5.8	5.8
Energy consumption (MMBtu/Yr)	3.3	3.3
Energy consumption (Kwh, Therms/Yr)	33.0	33.0
Price/Gallon	-	\$2.87
Price/therm	\$1.01	\$3.14
Energy Cost/Year	\$33	\$104

Energy costs shown are typical, but individual results and costs will vary according to your usage.

Natural Gas vs Electric notes for all charts:

Includes energy costs only. Does not include equipment, installation or maintenance cost. Customer service charges could also apply, which vary by provider. Electricity-Average Retail Price for Residential Customers in Tennessee for February 2011. Monthly Natural gas price for Residential Customers in Tennessee for March 2011. Source: U.S. EIA

Comparable electric and natural gas tank models to get first hour rating between 60-80 gallons. Conversion from therms to KWh: 1 therm= 29.308 KWh.

Water Heater cost methodology adopted from Gama Certified Efficiency Rating document on water heating equipment.

Dryer and Cooktop comparison source: American Gas Association Energy Analysis based on ~2000 sq ft home.

Natural Gas vs Propane notes for all charts:

Includes energy costs only. Does not include equipment, installation or maintenance cost. Customer service charges could also apply, which vary by provider.

Comparable propane and natural gas models (5.8 EF Cooking, 2.67 EF Dryer, 0.62 EF Water Heating)

Monthly Propane Price for Residential Customers in U.S for March 2011. Monthly Natural gas price for Residential Customers in Tennessee for March 2011. Source: U.S. EIA

Conversion factor of 0.9133 is used to convert price/gallon to price/therm. Water Heater cost methodology adopted from Gama Certified Efficiency Rating document on water heating equipment.

Dryer and Cooktop comparison source: American Gas Association Energy Analysis based on ~2000 sq ft home.