

### Heating Cost Comparison Chart (Winter 2012-13; South Carolina)

	Propane		Natural Gas		Heat Pump (Air-Source)		Heat Pump (Geothermal)		Electric Resistance		Heating Oil	
	Avg. Efficiency		Avg. Efficiency		HSPF****		COP		Avg. Efficiency		Avg. Efficiency	
Efficiency	0.78		0.78		7.30		3.3		0.95		0.78	
Fuel Cost	<b>2.66</b> \$/gal.*		<b>0.9773</b> \$/therm**		<b>0.0822</b> \$/kwh***		<b>0.0822</b> \$/kwh***		<b>0.0822</b> \$/kwh***		<b>3.79</b> \$/gal.*-*	
Heat Value	91,500 BTU/gal		100,000 BTU/therm						3,413 BTU/kwh		138,000 BTU/gal	
Therm Capacity	1.093 gal/therm		1 therm/therm		13.70 kwh/therm		8.88 kwh/therm		29.30 kwh/therm		0.7246 gal/therm	
Cost/Therm	<b>3.73</b> \$/therm		<b>1.25</b> \$/therm		<b>1.13</b> \$/therm		<b>0.73</b> \$/therm		<b>2.54</b> \$/therm		<b>3.52</b> \$/therm	
Winter Heating Cost*-**	\$ 2,982		\$ 1,002		\$ 901		\$ 584		\$ 2,028		\$ 2,817	

\* U.S. Energy Administration, average Lower Atlantic Region (NC) residential propane spot price, 11/12/2012 (note: local pricing trends closely to LAR spot pricing)

\*\* Source: Piedmont Natural Gas, effective 11/1/2012, SC residential standard rate

\*\*\* Source: Duke Energy, effective 10/1/2012, all-electric RE schedule residential rate (avg. for over and under 1,000 kWh rates)

\*\*\*\* Typical 7.7 HSPF air-source heat pump (per DOE a 7.7 HSPF correlates to 7.3 actual in GSP and Midlands, SC)

\*- U.S. Energy Administration, average Lower Atlantic Region (NC) residential heating oil spot price, 11/16/2012

\*-\*\* 800 therms of total seasonal heat which would be required for average construction 3,000 sq. ft. home in GSP

Notes: 1 therm = 100,000 Btu

