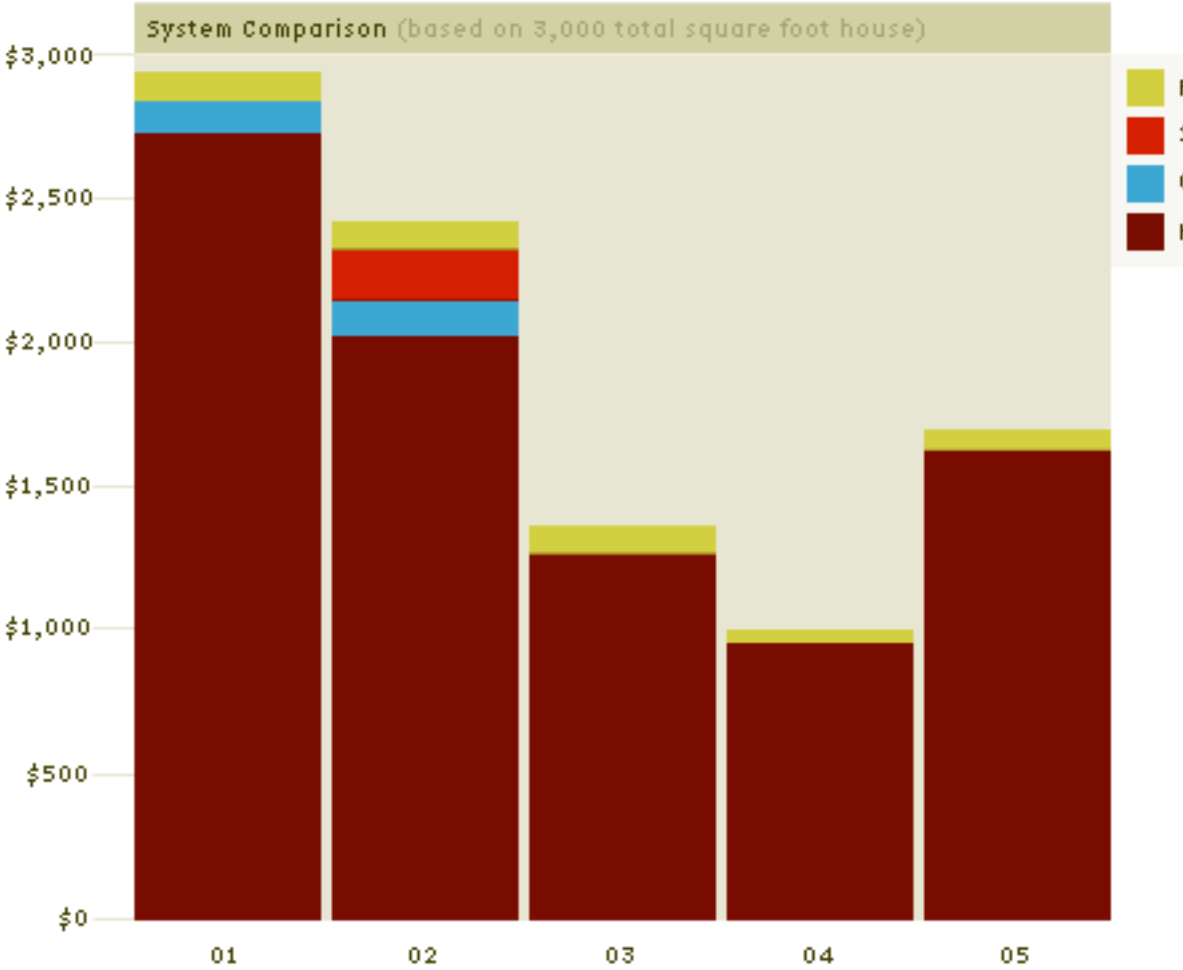





# Cost Savings

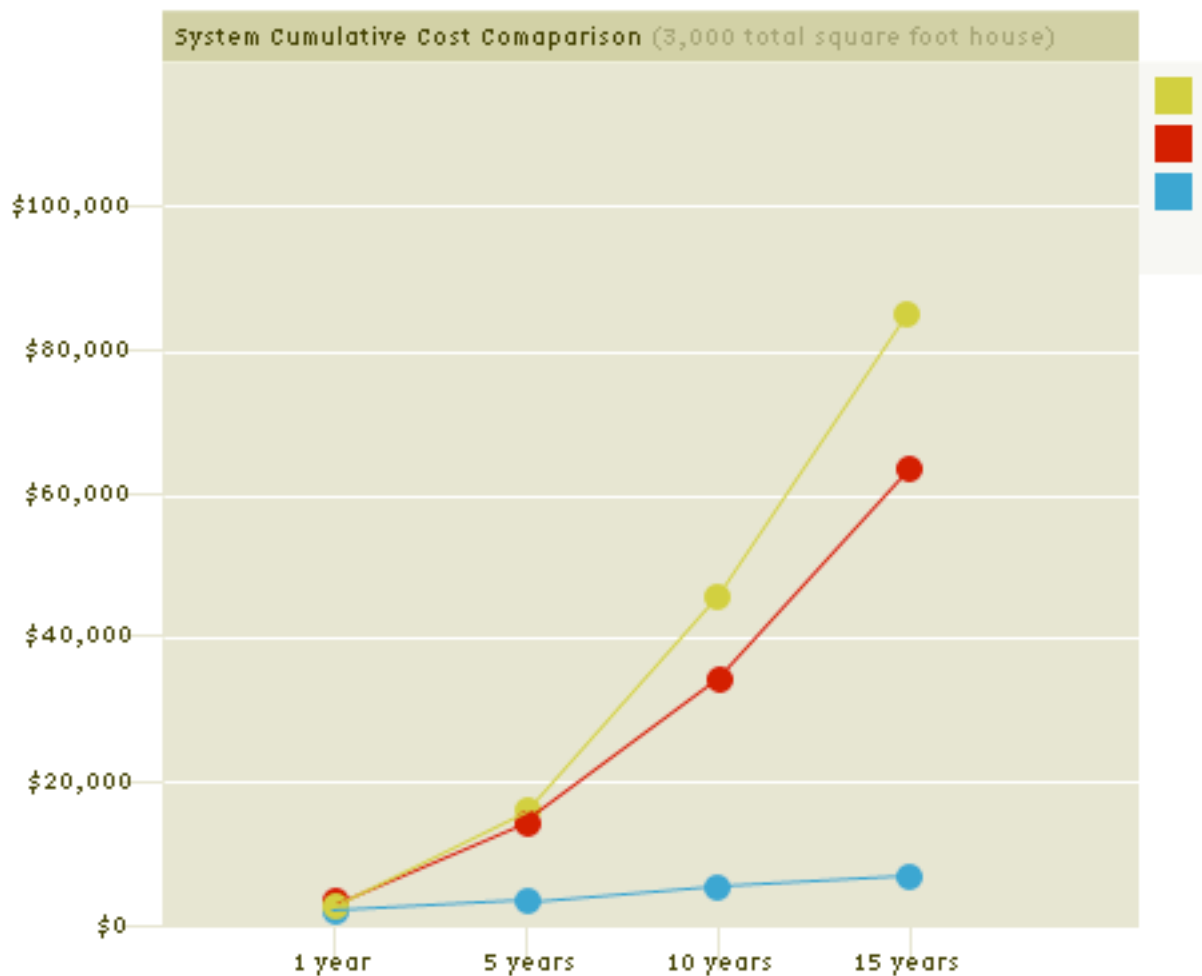
One of the reasons we believe in the use of geothermal heating and cooling is the incredible savings to the customer over conventional fossil fuels. To illustrate the possible savings, we have calculated the costs for a 3,000 square foot home using four different heating and cooling scenarios. We hope you find the results as dramatic as we did.



This first chart compares the annual cost of four systems. The first system uses standard cooling and a propane furnace for heat. The second system maintains the use of standard cooling, but switches to a natural gas furnace for heating. The third system utilizes the efficiency of an FHP Geothermal heat pump on a .05 electric rate, using the hot water recovery option. The fourth system uses the same components and hot water recovery of the third system, on a .033 electric rate. Look below for a breakdown in heating and cooling costs for each system. Which bill would you rather pay?

Annual Operating Cost Estimate							
01	Propane Furnace \$1.75 GAL 90+ Effic.	5	\$2,867	\$101	\$0	\$2,968	\$247
02	Natural Gas Furnace @ \$1.35 90+ Efficiency	5	\$2,048	\$101	\$144	\$2,293	\$191
03	FHP Geothermal HP ON .069 ELEC	5	\$532	\$12	\$0	\$545	\$45
04	FHP Geothermal HP ON .035 ELEC	6	\$279	\$10	\$0	\$290	\$24
05	Electric Off-Peak Storage .03 ELEC	4	\$1,226	\$44	\$0	\$1,269	\$106
	System Description	Fuel Rate Set				Total Operating Cost	Average Monthly Cost

Annual cost charts are helpful, but they don't give the full picture of what a heating and cooling system will really cost you over time. For a cumulative cost comparison of that same 3,000 square foot home, see the chart below:



Using the same four systems, observe how much different the savings makes over five, ten, and even fifteen years!

Annual Operating Cost Estimate				
System Description	1 year	5 years	10 years	15 years
01 Propane Furnace \$1.75 GAL 90+ Efficiency	\$2,968	\$17,920	\$45,400	\$86,340
02 Natural Gas Furnace @ \$1.35 90+ Efficiency	\$2,293	\$13,655	\$34,120	\$64,170
03 FHP Geothermal HP ON .035 ELEC	\$290	\$1590	\$3,560	\$5,970

Finally, let's take these cost figures and apply them to an actual home using the

geothermal system. This home contains 3,400 square feet of living space. As you can see, the savings are substantial. If you would like more information on heating and cooling your home more efficiently, please call or e-mail us today!

**FACTS:**

Heating, Cooling, and hot water savings of 40-80%

Actual operational cost for 1st year - \$286.00

**FHP Geothermal Heat Pump system utilizing:**

Heats basement slab with radiant heating (Wirsbo)

Forced air upstairs

Air conditioning

Hot Water recovery system