

Duke Energy's Smart Saver™ Programs

MEAN SAVINGS TO OUR CAROLINA CUSTOMERS

A Smart Saver™ home with a high-efficiency heating and cooling system allows you to realize hundreds or even thousands of dollars in annual energy savings.

The following table will help you determine the annual savings associated with heating a Smart Saver home. The estimates are based on the assumption that you live in an average-size home, which requires 50 million Btus per winter. Your cost per million Btus and your total winter heating costs will depend on your type of heating system and your fuel price.

Type of Heating System	Price of Fuel	Cost per Million Btus	Annual Home Heating Cost
80% efficient propane gas furnace	\$2.20/ gallon	\$30.56	\$1,528
70% efficient fuel oil furnace	\$2.20/ gallon	\$22.45	\$1,122
80% efficient natural gas furnace	\$1.28/100 cu.ft	\$16.00	\$800
95% efficient natural gas furnace	\$1.28/100 cu.ft	\$13.47	\$674
Electric furnace with no heat pump	\$.08/kWh	\$23.44	\$1,172
15-20 year old heat pump	\$.08/kWh	\$14.65	\$733
Smart Saver 14.0 SEER heat pump	\$.08/kWh	\$9.77	\$489
Smart Saver geothermal heat pump	\$.08/kWh	\$7.32	\$366

Lower your gas costs with a “dual fuel,” add-on heat pump

If your home has a gas or oil furnace that is not old enough to replace, but you need a new air conditioner, consider buying a heat pump rather than an air conditioner. Your existing furnace combined with a new heat pump will now give your home a dual fuel heating system that will save you hundreds of dollars per year. Here's how it works.

The heat pump not only cools your home in the summer, but it also works in the winter with your gas furnace to lower your gas costs. The heat pump is typically used in all winter hours above 30 degrees, which could be up to 80 percent of your total heating needs. Your less efficient gas furnace is needed only on the coldest days.

For example, suppose that you are considering adding a heat pump to an 80 percent natural gas furnace. From the preceding table, if your natural gas heating costs are \$800 per winter, a new 14 SEER heat pump would reduce your gas heating costs from \$800 to \$180 and add about \$390 to your winter electric costs. Your new heating cost, adding the gas and electric together, equals about \$570 or a **savings of about \$230 per winter!**

Your new heat pump will also replace your old air conditioner and depending on the age of your old system, could cut your air conditioning bills in half.

Note: Duke Energy reserves the right to change the Smart Saver program requirements and incentives at any time. Savings shown above are illustrative only; Duke Energy does not guarantee savings.

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