

Heating Water Since Time Began



Picture courtesy of SolarH₂Ot

Hot Water for Your Home

Hot water is the number two energy consumer in your home. For an average family, hot water can be 30% of a family's energy bill each month. Just two low profile solar collectors on the south side of your roof will heat enough water to fill an eighty gallon tank and meet most of the needs of a typical North Carolina family. And with the built-in electric backup, the *SolarH₂Ot* system gives you an economical solar solution for your hot water needs that will not run out of hot water even on a cloudy day.

Solar Hot Water is a Sound Decision

Both North Carolina and the US government provide significant tax benefits for homeowners and businesses that install solar hot water systems. Here's what this could mean for you.

	<u>North Carolina</u>	<u>Federal</u>
Qualifying dates	2006 or later	2006 and 2007
Qualifying Technology	Solar Hot Water and Heating	Solar Hot Water and Heating
Tax Credit	35%	30%
Maximum Tax Credit	\$1,400	\$2,000 for a Primary Residence

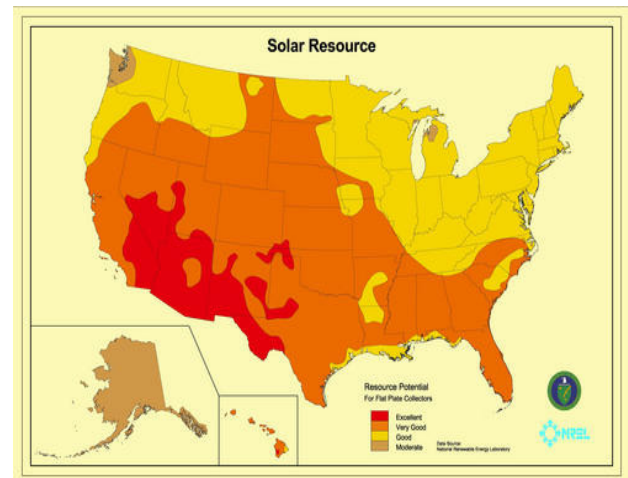
The combined effect of the North Carolina and the Federal tax credits is to reduce the cost of a typical residential solar hot water system by almost 50%. And the financials can get even better. For instance:

- If you are building a new house, you will have additional savings by not having to purchase and install a traditional hot water heater.
- The portion of your hot water that comes from the sun comes without a fuel bill for the life of the system.
- Recent reports indicate that going solar can improve the resale value of your home¹.

The cost of electricity in North Carolina has grown by 10% in the last two years². And a recent forecast says that demand for electricity far outstrips our country's plans to build additional generating capacity over the next decade³. While your electricity costs may increase, you will never see a rate increase from the sun.

How *SolarH₂Ot* works

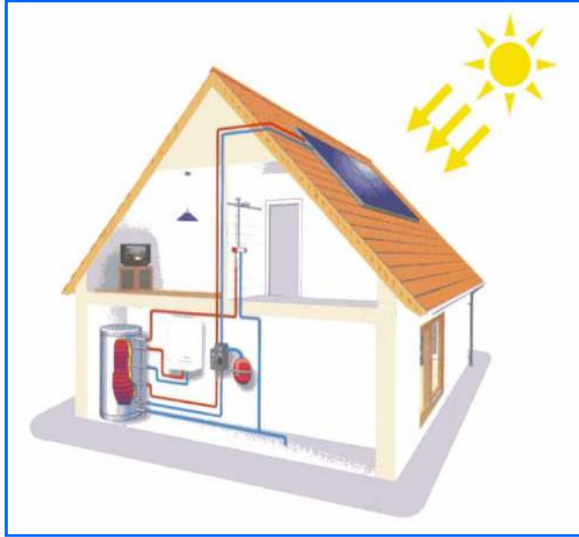
Coastal North Carolina is fortunate to have abundant solar radiation to power your solar hot water system.



Graph courtesy of Dept of Energy / National Renewable Energy Lab

A digital differential temperature controller on your *SolarH₂Ot* system will sense when the rooftop solar collectors are hot enough to heat the water in your hot water tank.

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Graphic courtesy of ESTIF

At that moment, a pump will start and a closed loop will transfer heat from the solar collectors into the heat exchanger on your hot water tank. The heat exchange will continue, as needed, throughout the day keeping your hot water at the desired temperature. A backup electric heating element is built into the hot water tank to provide additional hot water during those times when solar output alone is not enough for your hot water needs.

The *SolarH₂Ot* Advantage



New Home in Raleigh, NC, with *SolarH₂Ot* Collectors. Courtesy of SolarH₂Ot

Integrated System: Your *SolarH₂Ot* system comes with the main components already assembled. This reduces the time, complexity and cost of installation when compared with many other alternatives.

High Efficiency: *SolarH₂Ot* hot water systems are a far cry from the black painted boxes of the 1980's. A myriad of engineering innovations have taken a proven technology and increased its effectiveness through raw material upgrades and design improvements. A national overseeing body now rates solar collectors and continuously monitors quality.

Low Maintenance: No one wants to add another maintenance item to their home. Your *SolarH₂Ot* hot water system comes with freeze protection and does not have any solvents or solutions to change. Every few years you may need to add a little water but under normal operating conditions you should not have to think about it for up to 20 years. The average conventional water heater only lasts 13 years before it needs to be replaced.

Contact Us

Talk with your builder or contractor to learn more about the benefits of a *SolarH₂Ot* hot water system, or, contact RE-Align Technology, *SolarH₂Ot*'s exclusive distributor for the Wilmington and surrounding areas.

RE-Align Technology:

- Telephone: 1-910-463-1501
- Email: contactsolar@realigntech.com

To see the full *SolarH₂Ot* product line please visit: www.solarh2ot.com

Footnotes:

¹Business 2.0, New Rules of Real Estate: Go Green, a Smart Home Improvement, October 24, 2006,

²US Dept. of Energy, Energy Information Administration

³Wall Street Journal, October 16, 2006, US Electricity Demand is Outpacing New Resources, Report Warns

RE-Align Technology is a Corporate Member of the American Solar Energy Society.

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