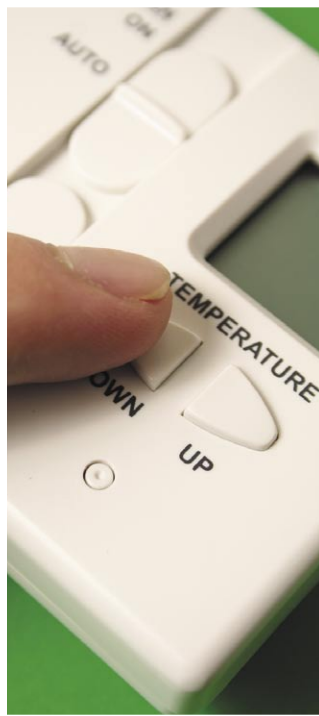
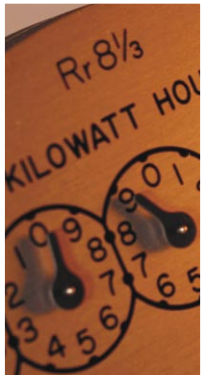


## THE 10 MOST EFFECTIVE WAYS TO SAVE ENERGY IN YOUR HOME



**SERVING THE NORTHEAST**  
Based in Greenfield, Massachusetts, NESEA's territory includes 10 Northeastern states: Connecticut, Delaware, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island and Vermont.

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### NEED EXPERT HELP? Go To The SUSTAINABLE GREEN PAGES

NESEA's SUSTAINABLE GREEN PAGES is the Northeastern USA's best green business directory. It includes hundreds of energy experts offering sustainable living and commercial energy solutions in over 30 specialties. Go to [NESEA.ORG](http://NESEA.ORG) and find the right expert to realize your green goals, or look for the SUSTAINABLE GREEN PAGES in the fall issue of NESEA's NORTHEAST SUN Magazine.

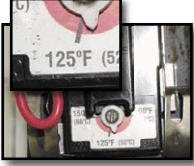
### NESEA.ORG


### THE 10 MOST EFFECTIVE WAYS TO SAVE ENERGY IN YOUR HOME


Here are 10 steps listed by increasing cost that could reduce your home energy use without sacrifice.


The typical American household can save over 30% by using ENERGY STAR<sup>®</sup> practices and products. The projected savings are average values and could vary widely in individual situations. See pie chart on back for residential energy use categories.





- 


**Water Heater.** Set your water tank thermostat to 122 degrees and add an insulation blanket. Insulate your hot water pipes as well. Save up to 7% of your water heating bill.
- 

**Lighting.** Replace incandescent lamps with compact fluorescent lamps. By replacing your home's five most frequently used light fixtures or the bulbs in them with ENERGY STAR<sup>®</sup> models, you can save more than \$65 each year.
- 

**Phantom Loads.** Eliminate phantom loads with power strips and timers. Many appliances are on when we think they are off. Save up to 14% in the other electrical category.
- Programmable Thermostat.** With proper use, ENERGY STAR<sup>®</sup> programmable thermostats can save about \$150 every year in energy costs.
- 

**Air Seal Your House.** Air seal gaps and holes in your house. Start with your basement sills, then pipes, wires and lights through the attic floor. Next, seal your walls, windows, doors and electrical outlets. You can save up 10% of your energy bill by sealing and insulating using ENERGY STAR<sup>®</sup> practices and products. To capture the most savings, use a professional. You will reduce your bill even more.
- 

**Appliance Efficiency.** Look for the ENERGY STAR<sup>®</sup> label on home appliances—from refrigerators, clothes washers, and dishwashers, to room air conditioners, dehumidifiers, and air cleaners. By choosing appliances with the ENERGY STAR<sup>®</sup> label, you can save \$75 a year in energy costs while saving the environment.
- 

**Attic Insulation.** For very cold Northeastern climates, 14 inches of blown cellulose insulation is recommended to achieve R-49. Savings vary depending upon how much insulation is already in place. An energy audit will tell you what you need.
- Wall Insulation.** Consider insulating your walls if you have not already done so. This is difficult in an existing home and requires a contractor. Savings may be significant, but vary widely.
- 

**Basement Walls.** Insulate your exposed exterior basement walls. Think of this area as one giant single-pane window without the solar gain. The photo shows 2" sheet insulation bonded to a basement wall and held in place with 1/2" concrete backer board like that used in bathrooms. Flashing is installed to cover the top. This is a major project and requires a professional. Save 5-20% on space heating.
- Heating System.** Heating and cooling costs amount to over half the home's total energy bill. Depending on where you live, replacing your old heating and cooling equipment with ENERGY STAR<sup>®</sup> qualified equipment and sealing your ducts can cut your energy bill by as much as 10-20%.

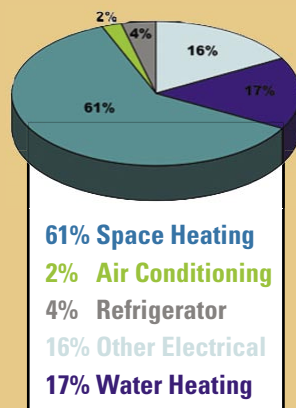


## NESEA

For over three decades, NESEA and its chapters have served as a source of inspiration and an exceptional resource for the leaders of a sustainable energy future. We urge you to join us as a NESEA member.

NESEA is a membership organization dedicated to the widespread acceptance and use of sustainable energy in the Northeast. At its core, NESEA is a multi-disciplinary group of practitioners committed to whole systems thinking as the central framework for addressing energy issues. Joined by consumer advocates, these practitioners have worked effectively to pioneer energy-efficient buildings and clean energy solutions, to share their knowledge and to recognize innovation.

## RESIDENTIAL ENERGY USE



This pie chart shows how energy is used in the average Northeastern home. It's easy to see where to get the best return on investment. Concentrate on high-use areas first.

Track your energy bills to see how your efforts are shrinking your energy consumption. Keep in mind that rising energy rates may affect your figures. Calculating your home's Energy Use Index (EUI) will give you a solid benchmark independent of rates. Go to the ENERGY STAR® website and search for "Calculate Your Savings," then click on "Energy-Intensive Calculator." Once there, enter your interior square footage and choose "Lodging" for business type.

## GET AN ENERGY AUDIT

A comprehensive energy audit will show you where to direct your efforts in your home. Many electric utilities offer subsidized energy audits.

## NESEA CHAPTERS

Your NESEA membership automatically includes local chapter affiliation:

- Boston Area Solar Energy Association
- Building for Social Responsibility (VT)
- Cape & Islands Renewable Energy Collaborative
- Central New Jersey Sustainable Energy Association
- GreenHome NYC
- Maine Solar Energy Association
- New Hampshire Sustainable Energy Association
- Philadelphia Solar Energy Association
- Rhode Island Solar Energy Association
- Solar Energy Association of Connecticut
- Springfield Area Sustainable Energy Association (MA)
- Sustainable Delaware
- UMASS Lowell Solar Energy Association
- Western New York Sustainable Energy Association

**Interested in starting a NESEA chapter?  
Call us! 413-774-6051**

## DONATIONS

Help advance our mission through your financial support of NESEA. Our 501(c)3 non-profit status makes your gift tax deductible. Contact our office at 413-774-6051 or at [NESEA.ORG](http://NESEA.ORG).

This brochure was written by Pete Talmage, PE, President, Energy & Design, a NESEA member and US EPA's ENERGY STAR® Program.

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NESEA is the largest regional chapter of the American Solar Energy Society (ASES).