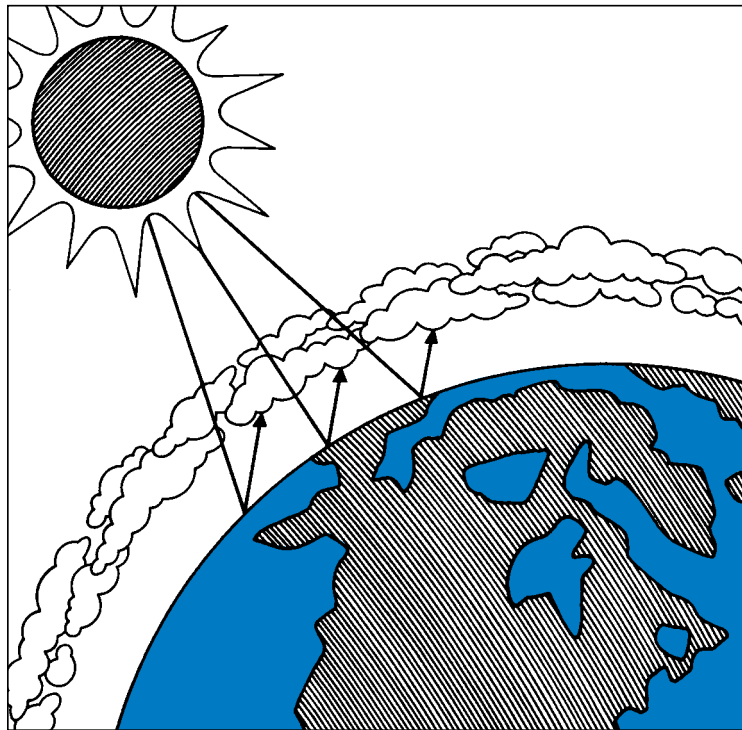


**HOW AN
ENERGY
EFFICIENT
HOME CAN
HELP THE
ENVIRONMENT**

During the last century, concern about the environment increased, as issues such as global warming and the Greenhouse Effect convinced us that the environmental threat to the Earth is real.

Earth Day 2000 launched the “millennium of the environment” in the United States. Celebrations worldwide delivered the same message: we can all help protect our planet from destructive environmental trends by taking some relatively simple steps to change the way we live.

GLOBAL WARMING AND THE GREENHOUSE EFFECT

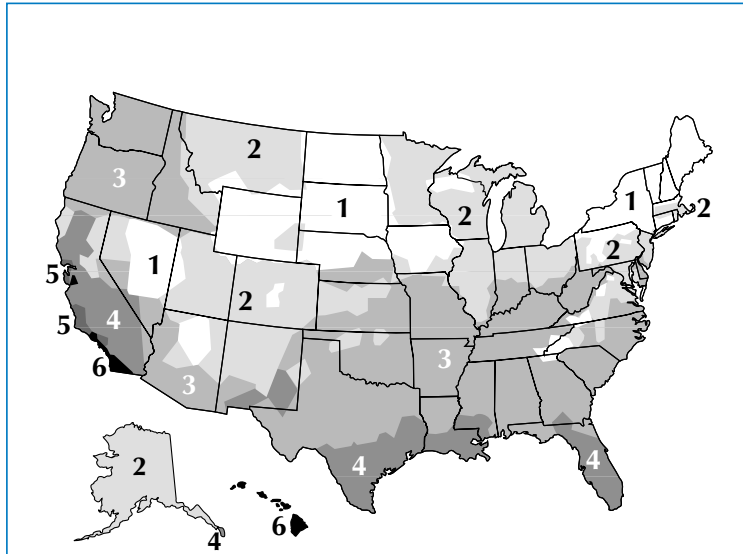


The Greenhouse Effect, a slow warming of the Earth's temperature, is caused in part by the accumulation of excess carbon dioxide in the atmosphere. Carbon dioxide is produced during the burning of fossil fuels such as coal, oil and gas we use to heat and cool our homes. The U.S. Department of Energy report that American homes spew over 150 billion tons of carbon dioxide into the atmosphere. That represented 11 percent of the United States' total carbon dioxide emissions that year.

While experts disagree on how immediate a threat global warming is to our environment, all agree that we can change how we live to help control it.

SIMPLE STEPS HOMEOWNERS CAN TAKE

One way to reduce carbon dioxide emissions and help control the Greenhouse Effect is to limit our energy consumption. Here are a few steps you can take to reduce your personal energy use without sacrificing your family's comfort:

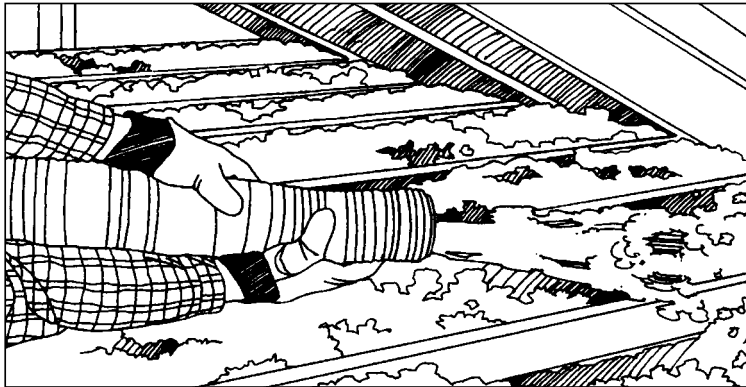


Zone	Gas	Heat Pump	Fuel Oil	Ceiling			Floor	Crawl Space (B)	Slab Edge	Basement	
				Attic	Cathedral	Wall (A)				Interior	Exterior
1	✓	✓	✓	R-49	R-38	R-18	R-25	R-19	R-8	R-11	R-10
2	✓	✓	✓	R-49	R-38	R-18	R-25	R-19	R-8	R-11	R-10
3	✓	✓	✓	R-49	R-38	R-18	R-25	R-19	R-8	R-11	R-10
4	✓	✓	✓	R-38	R-38	R-13	R-13	R-19	R-4	R-11	R-4
5	✓			R-38	R-30	R-13	R-11	R-13	R-4	R-11	R-4
5		✓	✓	R-38	R-38	R-13	R-13	R-19	R-4	R-11	R-4
6	✓			R-22	R-22	R-11	R-11	R-11	(C)	R-11	R-4
6		✓	✓	R-38	R-30	R-13	R-11	R-13	R-4	R-11	R-4

(A) R-18, R-22 and R-28 exterior wall systems can be achieved by either cavity insulation or cavity insulation with insulating sheathing. For 2" x 4" walls, use either 3-1/2" thick R-15 or 3-1/2" R-13 fiber glass insulation with insulating sheathing. For 2" x 6" walls, use either 5-1/2" thick R-21 or 6-1/4" thick R-19 fiber glass insulation.

(B) Insulate crawl space walls only if the crawl space is dry all year, the floor above is not insulated, and all ventilation to the crawl space is blocked. A vapor retarder (e.g., 4- or 6-mil polyethylene film) should be installed on the ground to reduce moisture migration into the crawl space.

(C) No slab edge insulation is recommended.



• ***Make your home energy-efficient.*** An energy-efficient home uses less energy and is more comfortable year-round. An energy-efficient home is also easy to achieve:

1) *Insulate.* By making sure your home's insulation levels meet the latest recommendations issued by the Department of Energy (DOE) and other agencies, you can cut down on your personal energy usage year-round. Proper insulation levels will also help keep your home more comfortable. Check the insulation levels in your attic, sidewalls and crawl spaces to see if they comply with the DOE recommendations. (See following chart.) Whether you install the insulation yourself or hire a contractor to do the job for you, upgrading your home's insulation levels will help reduce energy loss.

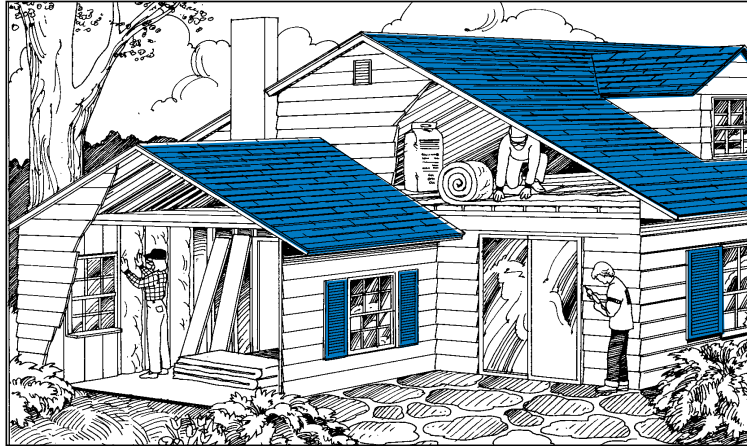
Insulation in your home offers the additional benefit of noise control. Fiber glass insulation is an excellent acoustical material that helps keep outside noise out and reduces transmission of household noise from room to room. Kitchens and bathrooms in particular can generate significant noise levels and disturb occupants of sleeping rooms. Whether you're building a new house or renovating an existing one, make sure that both the interior and exterior walls are insulated to recommended levels. Upgraded insulation levels can help soundproof and weatherize your house for optimum living quality.

Fiber glass is also environmentally responsible. In fact, the amount of recycled glass used by fiber glass insulation manufacturers in 1999 was over 1 billion pounds. This resulted in a savings of 26 million cubic feet of landfill space, helping to conserve our nation's valuable resources while stemming the flow of material entering the solid waste stream.

2) *Weatherize.* In many older homes, air leaks around windows and doors can account for up to 30 percent of a home's wasted energy. Proper caulking and weather-stripping can help increase energy savings by up to 10 percent. Both are easy to do, using inexpensive products from a hardware store or building materials retailer.

Plants are also good for the environment. A single tree can absorb up to 48 pounds of carbon dioxide a year; one acre of them consumes 2.6 tons.

By controlling the amount of energy you use, your home will be more energy-efficient and will contribute to the well-being of our planet Earth.



For more information about insulating and energy-efficient homes, write to the CertainTeed Home Institute, P.O. Box 860, Valley Forge, PA 19482, call 1-800-782-8777, or visit us on the Internet at <http://www.certainteed.com>.

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