energy
Barry Jensen

Protect your home from heat and cold

About 40 million single-family homes in the United States are not adequately protected from outside weather, according to Federal Energy Administration estimates.

Here are some tips to make sure yours is not one of them.

No matter how you heat or cool your home, you can reduce the load on your heating and cooling equipment by as much as 20-30 percent by investing a few hundred dollars in insulation. The benefits of insulation — lower utility costs — continue for years.

- Find out if your home needs insulation. For $10, your heating utility will conduct an energy audit. It's money well spent.
- Find out about R-values before you buy your insulation materials. Then buy the thickness of insulation that will give you the R-value you should have.

R-VALUES OR numbers are insulation efficiency ratings. The R stands for resistant to utility heat loss or summer heat gain. The higher the R number, the more effective the insulating capability.

The numbers should appear on packages of all insulation materials, mineral, glass fiber or rock wool batts or blanks, loose or loose-fill materials that are poured or blown into insulation spaces, or rigid board insulation.

If the insulation you buy doesn't have the R-value written on the package, ask the sales person to write the R-value on your receipt.

- Consider ways to increase the amount of insulation in your attic floor or top floor ceiling to at least R-33 for these places.
- If you have old insulation in your attic, you probably won't be able to judge its R-value. But if you have less than six inches of old insulation, chances are you need more to bring the insulation level up to the recommended level.

THE FEDERALLY recommended level in the Detroit area is R-33 in the ceiling and R-22 in the floor. This kind of protection would require 11 inches of glass fiber above the ceiling and six inches of glass fiber beneath the floor.

Investment costs could range from $100-$1,000. Heating and cooling savings should range from somewhere around 5 percent, if you are adding to present insulation, to as much as 30 percent if you have no insulation.

- Insulate floors over unheated spaces such as crawl spaces, garages and basements not used as living space.

Savings could amount to 8 percent on your heating and cooling costs.

- Test your windows and doors for airtightness. Move a lighted candle around the frames and sashes of your windows. If the flame dances around, you need caulking and/or weather-stripping.

IF SLIPPING a quarter under the door, if it goes through easily, you need weatherstripping.

- Caulk and weatherstrip doors and windows. It's easy to do yourself. Caulking and weatherstripping materials cost $25 for the average house (12 windows, two doors). Savings in annual energy costs could amount to 10 percent or more.
- Install storm windows. Combination screen and storm windows (triple-track glass combinations) are the most convenient and energy efficient because they can be opened easily when there is no need to run heating or cooling equipment.

Alternatives range from single pane storm windows, which have to be removed to admit outside air, to clear plastic film, which can be taped tightly to the inside of the window frames.

Savings in reduced space heating costs for any of these types of protection can amount to as much as 15 percent a year. Adding storm doors could increase these savings.

DOE grant goes to teach caulking

The U.S. Department of Energy's (DOE) Chicago Operations office has selected 50 Midwestern individuals, organizations and an Indian tribe to receive grants totaling $1.3 million for the development and demonstration of small-scale energy ideas.

The grants are designed to help spur the growth of innovation to help meet local energy needs by using local resources, manpower and ingenuity.

Appropriate technologies are small in scale, decentralized and make maximum use of inexhaustible, renewable energy sources. Appropriate technology projects normally don't require large capital expenditures and are appropriate to local cultural, economic and social conditions.

DOE HAS awarded approximately 1,000 grants nationwide during the first two rounds of the appropriate technology program in 1979 and 1980 through 19 DOE offices. This third round of grants was announced in February, and the Chicago DOE office received 1,299 applications from individuals and groups in Illinois, Indiana, Michigan, Minnesota, Ohio and Wisconsin.

Though all the grants have not been announced nationwide, approximately 500 grants will be awarded in all 50 states. More than 11,000 applications were submitted by individuals, small businesses, nonprofit groups, government agencies and schools, each with a tendency toward Thomas Edison.

THE 50 winning Midwestern projects will receive grants ranging from $1,347 to the maximum $50,000 for projects involving the development of a concept, research work on an actual device or demonstration of a technology.

Nine of the grants, totaling $247,634 are in Michigan:

Catholic Services of Wayne County, a nonprofit group in Detroit, will receive a $12,424 DOE grant. The grant will be used to conduct 10 workshops to train 300 people how to weatherize their homes and equip them with starter kits of weatherstripping, caulking and information materials.

Nelson Secord of Brighton received a $48,000 grant from DOE. Secord will develop a more efficient blade system for a commercially available wind generator and develop a resistance heating system to use excess energy produced for space heating.

Price of gasoline falls after slight rise

The average cost of all gasoline grades in Michigan fell by up to 0.4 cent per gallon after two straight weeks of slight price rises for some fuels, according to the Automobile Club of Michigan.

Auto Club's weekly "fuel gauge" survey of 300 major-brand stations along main travel routes shows no lead gasoline down 0.2 cent from last week to an average $1.456 per gallon (38.4 cents per liter). It ranges from $1.306 to $1.619 (34.5 to 42.7 cents per liter).

Regular at those stations averages $1.401 per gallon (37 cents per liter), 0.3 cent below last week. Prices range from $1.249 to $1.569 (33 to 41.4 cents per liter).

At self-serve stations checked, no-lead gasoline averages $1.394 per gallon (36.8 cents per liter), down 0.3 cent and 7.2 cents below the statewide full-serve cost. Self-serve regular averages $1.316 per gallon (34.7 cents per liter), down 0.2 cent and 8.5 cents below the statewide cost.

In the Detroit area, a check of 100 stations shows no-lead averaging $1.453 per gallon (38.6 cents per liter), down 0.1 cent from last week. Prices run from $1.367 to $1.679 (36 to 44.3 cents per liter).

Where Quality, Service and Education Come First
Professional Keyboard
• Grands
• Consoles
• Uprights
• Organs
• Guitars
• Instructions
• Sheet Music
• Piano Tuning
• Piano Moving
689-1700
TROY
3921 Rochester Rd.

ENDS SATURDAY
Skiers
The gigantic summer ski and ski-wear sale ends Sat. at all BAVARIAN VILLAGE SKI SHOPS. The best ski buys of the year. Don't miss out.
Bavarian Village SKI SHOPS

The Family Computer Center
Features Personal Computers
ATARI
THE MOST ADVANCED MICRO COMPUTER AVAILABLE TO AN AVERAGE FAMILY
But don't let that scare you . . . . . with ATARI—
• Your 4 year old can learn basic mathematics
• Grandma can learn a foreign language
• Many can experience greater success than the businessman, doctor or lawyer
• You can get complete, easy & inexpensive information
• Features the family. Entertainment at home. Access to data bases. Keep kids off the streets. Operate a small business. Operate a cost with your local school curriculum.
FREE Atari Computer • Drawing August 31st
ISN'T IT TIME YOU OWNED YOUR OWN FAMILY COMPUTER SYSTEM?
ATARI® It's not the most expensive—BUT IT IS THE BEST!
Prices start at $350.00 • Free Education Included.
An Exciting New Division of
The Doll Hospital & Toy Soldier Shop
3947 12 Mile Rd. • Berkley
543-0115
(Mile. east of Greenfield)

CLASSIC BREUER CHAIR IN NATURAL OR WALNUT
Sidechair
$49
Armchair
$69
hillside furniture

Don't Lose the real value of your Antiques
In case of fire or theft, your valuables won't be covered unless they are itemized, appraised and in the hands of your insurance carrier.
For only $5 per item, no limit, you can be sure that your antiques are valued by a member of the Antique Appraisers Guild of America, the authority in antiques.
For more detailed information, call or write
Antique Appraisals, Ltd.
(313) 354-0460

Serving Detroit and Suburbs for 13 Years
Be Safe & Secure with Charles Door Co. SUMMER SPECIAL ON STEEL REPLACEMENT DOORS
Includes:
2 locks-deadbolt and entry
small peep
Installation $289.00
Offer Expires Sept. 7, 1981
Charles Door Co.
535-5160

Everything you need
HYLIGHT
TOWN APARTMENTS
The Hylight TOWN APARTMENTS

SALE OF
EASY-TO-INSTALL TRACK LIGHTING
TRACK LIGHTING
BY LIGHTOLIER
MANUFACTURERS CLOSEOUT
PREVIOUSLY SOLD FOR $162.00
SPECIAL SALE PRICE!
$49.95
ONLY IN PACKAGES TO SELL
INCLUDES ALL THIS:
• FOUR FOOT TRACK WITH CONDUCTOR AND FITTINGS
• TWO TRACK HEADS & COMPLETE WIRING
Michigan Chandelier Co.
you'll see us in a better light

Tradition House Presents Our...
Ethan Allen
SUMMER SALE
SAVE 10% to 20%
on our entire Ethan Allen Collection
Great in the classic beauty and heritage comfort of an Ethan Allen living room... at special savings now! You'll save on sofas, chairs, sleepers and recliners covered to order in your choice of over 100 exquisite fabrics. You'll also save on a superb selection of occasional pieces and wall units, dining rooms, bedroom and family rooms. Hurry in!
Member Interior Design Society
Extra Sale Special!
Tradition House
Your Ethan Allen Gallery
9000 EAST EIGHT MILE at MOUND RD. PHONE 999-8812