Conservation could lighten heat needs

Conservation and solar energy mea-sures can cut home heating costs in half in cold-winter Michigan, according to researchers at the University of Michigan's Institute for Social Reseach

to researchers at the University of the Michigan's Institute for Social Reseach (ISRI). Solar technology, they explain, can reduce the effective heating season in Michigan from six or seven months to three or four months. Mark Berg, Paul Ray and Mark Hasett of the ISR's Energy Policy forup have just completed a study of the potential benefits and costs of solar energy and conservation in Michigan for the Energy Administration of the Michigan Department of Commence. The researchers conclude that control the Commence of th

CONSERVATION MAKES it possi-le to obtain a large percentage of the emaining energy needs from solar enble to obtain a large percentage of the remaining energy needs from solar en-ergy systems. The report examines many of the different types of solar technologies. However, it gives greatest emphasis

to designs.

"Solar sunspaces and greenhouses in many cases can provide appreciable amounts of heat to homes (as well as additional living space), but even where these designs are not practical, there are other solar designs which are relatively inexpensive and provide useful quantities of heat to a well-insulations."

THE ISR STUDY led to these major

In Michigan, the greatest poten-

The researchers conclude that conservation measures that emphasize increased efficiency could reduce a typical home's energy needs by up to 60 percent.

ing of natural gas prices over the next 10-15 years will make aggressive conservation and low-cost solar very at 10-15 years will make aggressive conservation and low-cost solar very at 10-15 years will energy savings from the existing home (cetrofil) market are much larger than from the new construction market over the next 20 years: five times larger for conseavation, 11 times larger for solar systems.

• For the state as a whole, the potential energy savings from conservation measures are three times greater than the savings from use of solar technology. Conservation is the most cost-effective step a homeowner can take and always a first step on the way toward cost-effective solar applications.

"THE SOLAR system is more costeffective in Michigan because it can
outribute almost vives as much usable heat due to the longer heating season. Consequently, it can pay for itself
in about half the time it would take in a
more temperate region.
Michigan imports most of its
recassingly expensive energy, and the
traditional balance of trade has shifted
seatered. Michigan creating as nanero. The study compared the energy needs of a hypothetical 1,550 square-foot house of conventional construction in Ann Arbor with the same structure in Atlanta, Ga. Actual weather statistics for the two areas were used in the comparison.

BOTH HOUSES, with typical pre-oil embargo constructions used existing conservation strategies to reduce cur-rent energy use by as much as 60 per-

cent.
The hypothetical houses were next equipped with extensive passive and active solar energy systems.
In Georgia, these solar installations could theoretically provide 100 percent of the remaining heating needs. In

against Michigadi, viceding an direct prelated reduction in Jobs and growth, the study says. An estimated \$6.2 billion left the Michigan economy last year in payment for imported energy. 'That's over 7 percent of the gross state product, up from about 2 percent in 1972. The U-M analysts suggest that conservation and solar energy offer one valuable way to reduce that drag by promoting more efficient use of imported energy.

"WEARE TALKING about one-time investments compared to year-after-year drains on money from within the state," they explain. 'Our analyses show that conservation and solar energy combined could cut Michigan's beat-

Michigan, they could provide 79 per-

heating season by several months.

against Michigan, creating an energy-related reduction in jobs and growth,

of their present size within the next two to three decades."

The researchers indicated strong conern over the price rises that will re-sult from natural gas deregulation, not-ing that "the impact upon poverty-level and elderly households will be very se-rious."

and elderly households will be very serious."

In response, the study examined the leashibility of making relatively low-cost investments in conservation and solar to improve the energy efficiency of low-income resideaces rather than providing ever larger amounts of government aid to pay energy bills. The researchers believe these "improved weatherization programs" may be far more cost effective over the long term than monthly aid.

THERE ARE STILL a number of barriers to using new energy technologies in Michigan — the initial high cost of solar heating systems, problems in raising capital for solar and conservation investments, cuts in government spending for conservation or alternative energy programs, reluctance or alternative energy programs, reluctance easily to make improvements in energy to make improvements in energy. Michigan, they could provide 79 per-cent.

While most retrofits would not incor-porate as large as solar system as in this theoretical analysis, a 50-percent savings from conservation measures and solar energy would be easily achievable for most houses in while well-planned conservation efforts have not yet been initiated.

While not providing all of the re-quired heat during the coldest months; solar technology, they suggest, can ef-fectively reduce the extended Michigan heating season by several months. landlords and low-income homeowners) to make improvements in energy efficiency, inadequate information about conservation and solar technologies, and the underdeveloped status of the solar industry.

As fuel costs rise and the people of

As fuel costs rise and the people of Michigan begin to gain experience with solar technology, the researchers say, many of these barriers should fade.

"Government policies on conservation and solar technology may be the most critical of the unknowns," they conclude,...

LUTTER ONTROL

Genetic Counseling?

consumer mailbag **Grace Gluskin**

Generic brands popular

I see more and more no-name items on my supermarket shelves. They seem guite a hit cheaper so I would like to try them, but I can't afford to buy anything that my family will not act.

Debbie N., Livonia Where can I get a copy?

Where can I get a copy?

Debbte N., Livonia Generics, products in plain package whose labels simply read "chocolate pudding, grape felly, vegetable oil of detergent," have increased in number on store shelves since they were introduced in the product of th

make any specific recommendations.

You may want to start by trying the unbranded cleaning products and then

I understand there is a guide of rec-reation areas for the handicapped. Where can I get a copy? Ken G., Bloomfield Hills

Ken G., Bloomfeld Hills
The new guide, "Handicapper's
Coastal Guide to Accessible Recreation
Facilities," is available free of charge
from the Michigan Department of Natural Resources, Division of Land Resources Programs, Coastal Management Programs, Box 30023, Lansing, Mf
48909.

This guide lists recreational facilities that make it easier for people with
special physical needs to enjoy the
state's Great Lake shoreline. It gives
location, a brief description and the
types of facilities accessible to disabled
individuals.

Consumer Mailbag answers your questions. Address letters to Grace R. Gluskin, Concern Detroit, 1 Northfield Plaza, Troy, MI 48098.

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Many birth defects are genetic in origin: the baby inherits the disease from one or both parents. Sometimes the disease is related to the parents' ethnic background — sickle cell anemia is more common among blacks, thalassemia is more prevalent among persons of Mediterranean descent, and Tay-Sachs disease usually strikes children of Eastern European Jewish parentage.

Do We Need

In some cases, parents can be tested to see if they carry genes which may cause diseases or birth defects.

disease, if you are from an ethnic group which is prone to a genetic disease, or if you are over the age of 35, you may want to consider genetic counseling before you decide to have

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prenatal health, or for more information on maternal/fetal medicine, write to: Sinai Hospital of Detroit, Hospital and Community Relations Department, 6767 West Outer Drive, Detroit, Michigan 48235. Or call 493-5500.



