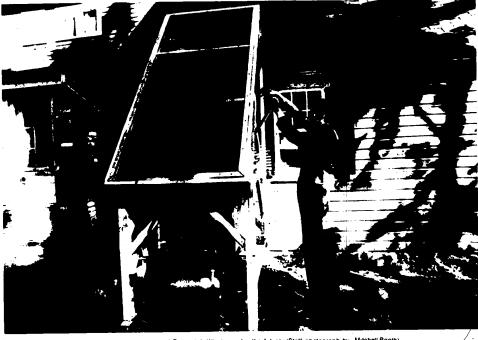
The Charge of the Country BUSINESS

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Thursday, September 11, 1975

Gas reserves are running short ...winter is coming; meanwhile, the sun is shining



Joseph M. Salvaggio and Richard J. Wlack ponder the future (Staff photograph by Mitchell Booth)

Is this the time and place for solar heat?

By DAN McCUSH

If solar energy is the wave of the future, it has been a liricky wave tocatch. Bulky, expensive to install, generally marginal economically, it remains a recurrent dream of engineers
who look up at the sun and see a free,
inexhaustible source of energy.
Propped up in the back yard of a
bouse on a side street next downtown
Britishapin looking some plang like a
cold frame for early sudamer vegetables, is one such dream.

RICHARD J WIACK art Joseph M. Salvaggio are very cautious drea-

Salvaggio are very cantous dreamers
Wack is a former aerospace endmers. Salvaggio a physicist. Both
work on automotive design today
after space work larged in long island for Wiack and academic research palled on Salvaggio. Together
they make up most of Scripio Solar
Systems, one of about 40° amail rewarch firms now working the US
on solar energy.
The timing is right for us now
diving that to say wide-applied use of

solar heat is probably 10 years in the future. The timing he refers to is in part a willingness of small, independant companies to develop and market systems competitively with more grandous efforts of the government and big business.

"It's a small market. Without the volume, we are in as good a position as anyone," Salivaggo said "Overhead kills the larger companies now, and we can pick up the volume as we grow."

and we can pick up the volume as we many and we can pick up the volume as we may be seen that the seen and th

gas system, and will save about \$100 a month on gas bills, according to Sal-

gas system, and will save about \$100 a morth on gas bills, according to Salvaggio. It should amortize itself in \$-10 years, and you can use the collection to roof your cabana. An entire house could be heated with a \$6,000-\$7.000 installation, which would still require a backup heating system about 30 per cent of the time. There is nothing basically new in the system, but the details and costing are seen as a potertial to entire the market account than others in the same, field.

The sersing unit alone is being marketed in two models, at \$200 and a stripped version at \$200 The collector panels are approximately \$8-12 per square foot and ready-to-install modules are being developed, according to Wack.

**SIACK HAS a methodical precise.

WIACK HAS a methodical, precise.

WIACK HAS a methodical, precise, manner, at least partly traceable to his work on the Vanguard rocket project, one of the first United States space ventures.

But solar energy has been an sleapertially kept aliev in a kind of scientific underground.

Dating back to Archamedes, who was supposed to have set enemy ships on fire with a sort of guant magnlying glass, it was picked up as a possibility for underground commanies and heating pools in California. Recently in this been grained more soler support by a state law exempting solar installations from the lax assessmouthaneously corresponding with members of a technological commanies. The search of the state of the search of the s

est journs and tax deductions for some heating. "It's all a function of economics. That will be the determining factor." Wiack said.

THE DETROIT area has a heavy cloud cover which inhabits the effectivency of solar systems. They see their market as being better in clearer sections, even Canada. But the industrial complex surrounding the auto industry is welcome. "You can get anything you need here-there's someone building every kind of tinker toy for the auto industry. Transportation is good, it's centrally located."

MEANWHILE, the pilot unit is silently collecting heat in Wiack's back yard. Heavy shade from the oak trees keep it from working at peak efficiency. Regardless, he woke up one morning at 7:30 a.m. on an overcast day to find it had citched theelf on. It heats his garage a bit, and provides wore data.

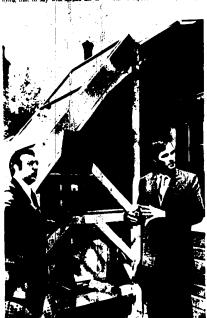
In a way, it's an article of fath Salvaggo is looking for a new home, and one Tudor design he found has the not pitched at 40 degrees.

This concidentally, it close to the utilited at approximately the correct degree of latitude of Burmangham, angle, which means if the house is placed so. Now all he needs is a place in the said arcollector on the roof will be sain.



Area firm on the moon

Without the help of wind or ran, dust particles move along the surface of the moon. The Apollo 17 Lunar Ejecta and Meteorites (LEAM) asymment in the foreground has uncovered an unexpected phenomenon of low velocity charged dust particles in sending data down to Earth. The equipment, developed by Southfield-based Bendix, and used by NASA, shows the existence of very slow moving highly charged particles on the mono surface in addition to the particles it was designed to study. The LEAM was designed to detect meteorites and ejects material, but has surprised scientists by detecting materials with a significant electrical charge.



The heater if in Wiack's backyard in Birmingham.