

NEWS OF ENERGY

The Eyes Have It: Protein

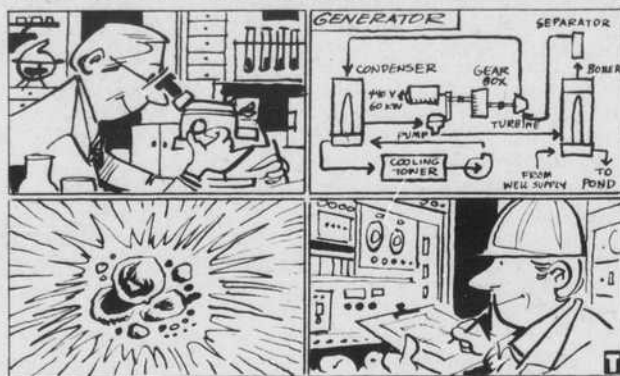
Geothermal researchers are convinced that heat from hot water deep inside the earth could be used to dry waste products from potato crop processings (such as the eyes and peelings) or dewater the end-of-process slurries, to convert these wastes into practical high protein food materials. The resulting product would be suitable as a food for animals, fish or even humans in protein-deficient parts of the world.

But that's just a part of the newly emerging geothermal picture. With the technical and engineering support from the EG&G Idaho division of EG&G Inc., a private research and technical services organization, the U.S. Department of Energy (DOE) is also exploring the geothermal potential for reducing U. S. dependence on foreign oil and gas.

Under construction at a DOE site in Idaho is a \$6.68 million Thermal Loop Facility that will use geothermal water to drive a \$970,500 turbine generator system.

In still another project, test equipment developed by the EG&G Energy Measurements Group's Los Alamos Operation is probing the feasibilities of extracting energy from hot dry rock of the earth's crust, in a New Mexico demonstration program being conducted by DOE's Los Alamos Scientific Laboratory (LASL).

This program is based on the concept that man can



GEOTHERMAL ENERGY MAY BE USED TO convert potato waste, sugar beet pulp and alfalfa into high-protein food.

create his own geothermal reservoirs by circulating water through hot dry rock whose energy would be used to generate electricity.

Scientists plan to start with a comparatively small thermal heat extraction experiment, then scale up to a larger system, and then possibly to a 100 Megawatt experiment requiring drilling to a depth of 12,500 feet where hot rock temperatures can rise to 250 degrees C. Such a system could conceivably generate about 10 million watts of electricity, or enough to meet the requirements of a medium-sized city.

As for the food wastes processing projects, EG&G says the process being investigated in Idaho would convert dried potato waste into a high-protein food for animals and fish. Later, the processing system will be

used with sugar beet pulp and alfalfa.

Potato leftovers are now used to fertilize land and feed livestock, but the leftovers are too heavy to be transported far. Dried potato waste weighs only one-tenth of its liquid form, making it easier to ship and to market more profitably. Dried potato waste could sell for around \$300 a ton.

The DOE/EG&G program is part of a concerted effort to find other profitable uses for moderate and low temperature geothermal resources.

The project has the potential for stimulating widespread use of geothermal energy. Geothermal waters and rocks have remained virtually untapped as an enormous source of energy beneath much of the country.

Las Vegas Dealers

- *Nov. 11 Reno - 5:30
- Nov. 16 at Tucson
- *Nov. 19 Fresno - 5:30pm
- *NOV. 25 Salt Lake -5:30pm
- **Nov. 26 Tucson -5:30pm
- Nov. 28 at Fresno
- Nov.29 at Reno
- Nov. 30 at Tri-Cities
- **Dec. 3 Fresno -5:30pm
- **Dec. 5 Tri-Cities -7:30pm
- Dec. 6 at Fresno
- **Dec. 10 Tucson -5:30pm
- **Dec. 13 Montana -7:30pm
- **Dec. 15 Reno -7:30pm
- **Dec. 16 Salt Lake -5:30pm
- Dec. 21 At Tucson
- Dec. 26 at Tri-Cities
- Dec. 29 at Reno
- *Jan 6 Montana -5:30pm
- *Jan. 7 Fresno -5:30pm
- Jan. 9 at Salt Lake
- Jan. 10 at Montana
- *Jan. 14 Tucson -5:30pm
- Jan. 16 at Salt Lake
- Jan. 17 at Montana
- *Jan. 20 Salt Lake -5:30pm
- Jan. 26 at Tucson
- Jan. 27 at Reno

1978-79 Schedule

- **Jan. 29 Tucson - 7:30pm
- **Jan. 31 Tri-Cities -7:30pm
- **Feb. 2 Reno -7:30
- **Feb. 3 Fresno -5:30pm
- Feb. 4 at Montana
- Feb. 6 at Salt Lake
- Feb. 9 at Tri-Cities
- Feb. 11 at Montana
- Feb. 14 at Fresno
- **Feb 16 Tri-Cities -7:30pm
- **Feb. 18 Salt Lake -5:30pm
- Feb. 20 at Tucson
- *Feb.24 Montana -5:30pm
- *Feb. 25 Tri-Cities -5:30pm
- Feb. 27 At Salt Lake
- *Mar. 4 Montana -5:30pm
- Mar. 5 at Fresno
- Mar. 7 at Montana
- Mar. 8 at Salt Lake
- Mar. 10 at Tri-Cities
- *Mar. 11 Tucson -5:30pm
- *Mar. 12 Fresno -7:30pm
- Mar. 14 at Tucson
- *Mar. 19 Tri-Cities -7:30pm
- Mar. 23 at Reno
- Mar. 24 at Tri-Cities
- **Mar. 25 Salt Lake -5:30pm.
- Mar. 26 at Fresno
- **Mar. 27 Montana -7:30pm
- **Mar. 29 Reno -7:30pm

* = Games scheduled at Chapparal
 ** = Games scheduled at Convention Center
 *on.-Fri. home games 7:30pm
 Sat.-Sun. hone games 5:30pm

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