

Equip Your Pickup To Run On Water?

"For only \$75 you can convert your car, pickup or tractor to run on hydrogen extracted from water. Burns like gas and the exhaust's so clean you can breathe it."

So says Joe Brysacz, an engineer from London, Ohio, who maintains that hydrogen is the fuel of the future. He's already made believers out of hundreds who have seen his hydrogen-powered pickup in operation.

With two pressure regulators, a solenoid, valves and some tubing, Brysacz converted his pickup to run on hydrogen. He did it primarily to draw public attention to the possibilities of hydrogen as "the fuel of the future."

"The problem is to begin producing it for use," says Brysacz, who submitted a proposal to his Congressmen and the Department of Energy (DOE) several years ago for a plant to produce and distribute hydrogen fuel. His plan was rejected and several months ago he resubmitted the proposal but hasn't received a reply. He's now decided to drum up his own support.

"Hydrogen is an indestructible, 100% recyclable fuel. The instant it's

burned, it turns back to water vapor which the engine exhausts. No harmful gasses or particulates are released into the air we breathe," he maintains. Water, natural gas and coal can all be used to make hydrogen, says Brysacz who wants to set up production plants to make it.

"There's energy being wasted in hydroelectric dams that could be used, but they're government-operated and the government isn't interested. Off-peak electrical production could be used since hydrogen can be stored and electricity can't.

"One problem with hydrogen is that it's highly explosive and dangerous to carry in a moving vehicle in gaseous form. However, cryogenic tanks could be used to carry it in liquid form. They're so tough it would take a 10-ton truck to crush one."

Brysacz's proposal to the DOE asked for help to build a production plant, and a manufacturing facility to make tanks and set up distribution.

"Cars could easily be converted to dual fuel use," he told FARM SHOW. "You'd pull up to a hydrogen distribution center and exchange your



Brysacz talks to farmers who crowded around his hydrogen-powered pickup at a recent farm show.

empty tank for a full one. Our company would own the tanks and rent them to you. One tank — with about 5 cu. ft. of liquid hydrogen — would give you around 400 miles of driving. You could still burn gasoline."

In his converted pickup, Brysacz stores hydrogen in a metal gaseous tank at about 2,000 lbs. pressure. He runs that out to a regulator that drops the pressure to 15 lbs., then through a solenoid to another regulator that drops the pressure to 8 lbs. From there it runs into the carburetor, through a hole just above the butterfly valve.

Unless you have a good supply of hydrogen, Brysacz doesn't recommend converting your cars and trucks. He paid \$8.63 for 200 cu. ft., only enough for around 20 miles on

the road. "I did it only for demonstration purposes," he says.

"Hydrogen can be produced for less cost than gasoline — we showed that in our proposal. All the government officials said was that they have insufficient funds," Brysacz laments. He's asking for \$110 million to get a hydrogen production plant underway and claims that "seed money would be enough to start a profitable industry that could pay it's own way. They're spending billions on solar and nuclear. Hydrogen could replace them both."

For more details, contact: FARM SHOW Followup, Joe Brysacz, Ecological Engineering Company, 10560 State Route 665, S.E., London, Ohio 43140 (ph 614 852-9949).

"THE OPEC KILLER"

New Portable Farm Still

Farmers at the recent Sunbelt Exposition in Moultrie, Ga., stood in line to see the "OPEC Killer", an alcohol still on wheels that's designed to produce 300 gal. of alcohol a week. It's fueled by wood, crop residues or conventional fossil fuels.

The OPEC Killer is one of several stills that have been introduced since our roundup of the first factory-made stills, featured in the July-August issue (Vol. 3, No. 4) of FARM SHOW.

Several of the new-style "OPEC Killer" stills, manufactured by United International Co., Buena Vista, Ga., already are in use on farms, says John Daniel, the firm's marketing consultant. The firm is set up to produce about 300 units a year.

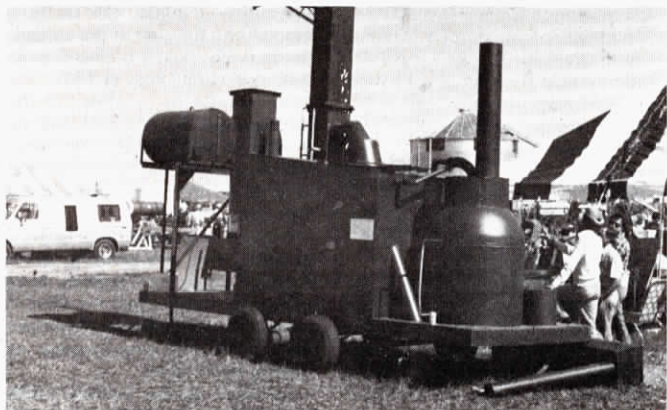
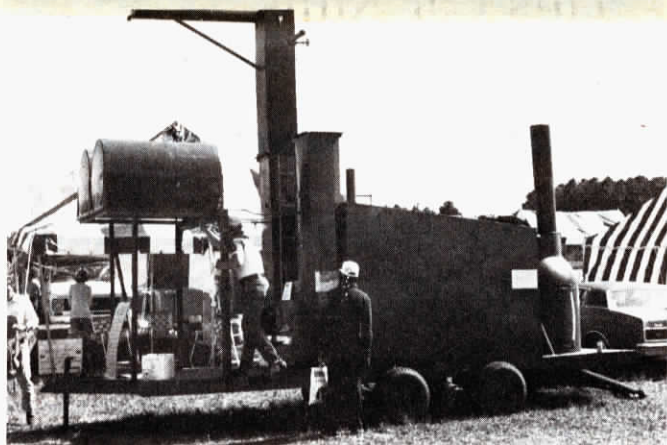
"Our current production model turns out 300 gal. of 190 proof ethyl alcohol a week from two batches of corn or other crop mash. We plan to make larger units in the future," Daniel told FARM SHOW.

The still rides on an 8 by 20-ft. 4-wheeled trailer rigged for over-the-road travel. Batches are mixed and fermented at the front of the trailer, and the burner — designed to be fired with wood, trash or residue — sits at the rear.

"Because it's portable, neighboring farmers can share one unit, or coops can buy them to rent out to members," points out Daniel.

The OPEC Killer is priced at \$14,500. Price per gallon of alcohol produced depends on cost of the crop, and the fuel used to fire it. Daniel notes that the company's farmer/customers are burning the 190 proof alcohol undiluted in their gas-powered tractors with little or no adjustments.

For more information, contact: FARM SHOW Followup, United International, P.O. Box 11, Buena Vista, Ga. 31803 (ph 912 649-7444).



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