

CLASSIFIED ADS

15¢ a word
(10-word minimum)

676-9228

Wind power
machines past
Model T stage

Wind power machines that convert wind into electricity are moving into an advanced state of design, says an Oregon State University engineering professor who has received a \$42,732 National Aeronautics and Space Administration grant to write a handbook for the structural dynamic analysis and design of wind turbines.

"We're past the Model T and the Model A stages," says Robert W. Thresher, who has been part of OSU's pioneer work in wind power since it began in 1971. In 1976-77, he was program manager for innovative systems in the Wind Systems Branch of the U.S. Department of Energy.

The handbook that will come from Thresher's NASA grant "hopefully will further wind power machine developments, without an Edsel along the way."

The three 300-foot MOD (model) 2 wind turbines that are now being put in place in the Goodnoe Hills area near Goldendale, Wash., will be the largest in the world, Thresher noted. They also incorporate many of the innovative design and development features that have come from governmentally-sponsored studies and from the work of private contractors and constructors.

The MOD-2 is extremely flexible in comparison with some earlier models, the engineer observed. "We've found out that it's better to let the turbine do some bending with the winds rather than sitting like the Rock of Gibraltar. The flexibility and resiliency relieve some of the wind stress. The rotor even teeters back and forth to relieve wind loads on the system."

The operational data that come from the MOD-2s will help answer questions about design, the effectiveness of clustering wind power machines into "wind farms," and most importantly--costs.

"The wind is free. Wind machines that convert the wind into power are expensive, however," Thresher emphasizes.

The three MOD-2s, for example, will cost about \$3.5 million each. They are being built by Boeing for the Bonneville Power Administration. Each of the 300-foot-blade turbines will produce a maximum of 2,500 kilowatts of power, enough to serve 600 homes on the average.

But mass production and marketing of wind machines will bring the costs down dramatically, Thresher observed. "For example, Boeing estimates that with mass production the cost of a MOD-2 could be reduced to about \$2 million."

"By 1985 or 1987, we ought to know how much of an impact wind power can have nationally," says Thresher. He figures wind power could make about the same contribution to the U.S. electrical energy mix of the future as hydroelectric (water-produced power) has in the past--5-10 percent of the national total.

"Cost is the key," Thresher stressed. The MOD-2 projections figure costs of around 4 cents a kilowatt hour, he points out. "That sounds extremely good for most parts of the country. But in the Pacific Northwest, with hydro, we're still below 3 cents a kilowatt hour."

Fuel oil costs alone on the East Coast now are in the 5-6 cents per kilowatt hour range, according to Thresher. "So wind power is becoming cost competitive. If the wind turbine costs can be cut and if the machines perform well--without excessive wear and

maintenance--the way will be open for wind power to become a worthwhile part of the energy picture, particularly in areas like the Northwest.

The Northwest has been blessed above other parts of the country in hydroelectric resources. And it has some of the top wind power sites identified so far in the country too, it was noted.

OSU atmospheric scientists have led the way in the identification of wind power sites. Thresher pointed out. Their "wind prospecting" work was responsible in large measure for the decision to put the MOD-2s in southeastern Washington, he added.

Another generation of advanced wind turbines is already under development at this time, according to Thresher. The MOD-5 is a large utility-sized turbine for mass electric power production, while the MOD-6 is a medium scale turbine for a variety of applications.

School lunch
menus

Ione Schools

Thurs., Oct. 30 - chili burgers, later tots, cheese strips, fruit, milk

Fri., Oct. 31 - ghosts stew, spooks and Casper sands, devil's favorite, Dracula's eyes, witches brew.

Mon., Nov. 3 - spaghetti, garlic bread, tossed salad, fruit, milk.

Tues., Nov. 4 - wiener wraps, sauerkraut, cheese strips, spinach, dessert, milk.

Wed. Nov. 5 - pot pies, cottage cheese-pineapple salad, Jello, milk.

Thurs., Nov. 6 - meat loaf, baked potatoes, green beans, strawberry shortcake, milk.

Heppner Elementary
Heppner Junior High

Thurs., Oct. 30 - School's choice.

Fri., Oct. 31 - Spook Burgers, lettuce-tomatoes-pickles, carrots O'Brien, black-orange fruit cup, pumpkin pie squares with whipped topping.

Heppner High

Thurs., Oct. 30 - Hot turkey sands, mashed potatoes, fruit salad, graham crackers, milk.

Friday, Oct. 31 - Trick or Treat

Next week's lunch menu was not available at press time.

PUBLIC NOTICE

NOTICE OF INTENTION TO
ACT UPON AN ORDINANCE
TO ISSUE PORT OF MORROW
POLLUTION CONTROL
REVENUE BONDS

PUBLIC NOTICE is hereby given that the Board of Port Commissioners of the Port of Morrow will meet on the 13th day of November, 1980, at 200 Nelson Square, Boardman, Oregon at 1:00 p.m. for the purpose of acting upon an ordinance authorizing the issuance of not to exceed \$7,000,000 Port of Morrow Pollution Control Revenue Bonds, (Pacific Northwest Generating Company Project) of the Port of Morrow, Oregon, for the purpose of refinancing its existing Pollution Control Revenue Bonds (Pacific Northwest Generating Company Project) Interim Series 1979A, financing any additional costs of the pollution control facilities and paying all costs of issuance incident thereto.

This notice is published pursuant to the requirements of ORS 777.565. By order of the Board of Port Commissioners dated the

MID COLUMBIA
LIVESTOCK EXCHANGE INC.

Complete & profitable
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Cattle Sales
Tuesday, Oct. 21, 1629 Head Cattle
Friday, Oct. 24, Total Livestock 586-428 Cattle

The market was steady on all
classes of livestock, with good
demand and buyer support.

Please contact us if we can be
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your livestock.

Sale Every Friday--1 p.m.

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ROCKY WEBB, MGR.

New Yard Phone No.: 503-298-4464

Home Phone 503-483-2315

PUBLIC NOTICE

11th day of September, 1980.
Gene L. Allen, Secretary
Board of Port Commissioners
Port of Morrow, Oregon
Published: Oct. 23, 30, 1980

LEGAL NOTICE

The Columbia Basin Electric Cooperative, Inc. announces that it is making an application for a loan from the Rural Electrification Administration which will provide improvement of the electric system. Construction will consist of the conversion of 7.0 miles of single phase line to three phase line in the Ruggs-Hardman area, the conversion of the City of Condon from 24KV to 7.2-12.5KV and the connection of additional consumers in all areas of the system.

If there are any comments on the environmental aspects of the proposed construction, they should be submitted to the cooperative within thirty (30) days of the publication of this notice. Additional information may be obtained at the cooperative's office at 171 Linden Way, Heppner, Oregon 97836.

Published: Oct. 30, 1980

PUBLIC NOTICE

A copy of the 1980 Survey of Local Government Finances, a Census Revenue Sharing Form, for the City of Heppner is available for public inspection at Heppner City Hall from 9:00 a.m. to 12 noon and 1:00 p.m. to 5:00 p.m. Monday through Friday.

Marshall Lovgren
City Administrator
Published: October 30, 1980

PUBLIC NOTICE

The City of Heppner Planning Commission will hold a public hearing on November 10, 1980 at 8:00 p.m. at Heppner City Hall. They will consider a Conditional Use permit requesting that a church be allowed on the property located at the corner of Chase Street and Skyline Drive, Tax Lot 3400.

John Shaw
Planning Comm. Chairman
Published: October 30, 1980

Cards of
Thanks 1

We wish to express our sincere thanks for all our blessings during my recent illness. To all those who visited me, sent cards, gifts, food and flowers we are especially grateful.

How great were the nurses and staff with their loving care.

To Dr. McGuire and Dr. Gifford - what can I say but a big thank you.

Frank and Hazel Hamlin

Help Wanted 4

BOARDMAN CORRESPONDENT - Community oriented person wanted to write Boardman-area news for the Gazette-Times. No experience necessary. Call 1-676-9228 for more information.

IONE CORRESPONDENT - Community oriented person wanted to write Ione-area news for the Gazette-Times. No experience necessary. Call 676-9228 for more information.

Wanted 6

Wanted: Lots of community support for Heppner High School's music Department. Attend the Gong show, Nov. 10, 7:30 p.m. 10-30-1c.

Wanted to buy: Bear and wolf traps or any parts, also early model radios, outside speakers and tubes. Write: Glen Bricker, 1030 N 11th, Cottage Grove, OR 97424; phone 942-3717. 10-23-4p.

Rentals 7

For Rent: Two bedroom furnished apt. Water and garbage service furnished. No children or pets. \$140. Herman Green, 676-9171. 10-30-2p.

House for rent in Heppner. Four bedrooms, dishwasher, Franklin stove. 676-3323. 10-30-1fc.

Appartments for rent in Ione. 422-7579. 10-30-1fc.

FOR RENT - 2 bedroom apartments in Lexington. Call days 676-9456, eves. 676-9623. 9-18-1fc.

EVERGREEN TERRACE APARTMENTS New 2 bedroom apartments for rent. Call 676-5120. 3-13-1fc.

New two-bedroom apt., wood stove, washer & dryer hookup, carpet and drapes. TV hookup and water furnished. \$260 mo. John Ledbetter, 676-5312. 10-16-1fc.

Six-room house to rent, \$125 per month. Call collect, 1-771-4793. Portland. 10-16-1fc.

For Rent - Large house in Lexington. Insulated, electric heat, fireplace, oil furnace. \$200 a month. Phone 481-6872. 10-30-2c.

Two bedrm apartment - centrally located. Stove, refrigerator, heat and water furnished. \$205 per month plus cleaning deposit. 676-9721. 10-30-2c.

La Grande Livestock
John B. Kirby

MARKET REPORT - THURSDAY, OCTOBER 23, 1980

CATTLE SALABLE--893
STEERS
Under 300 lbs. 70.00 - 75.00
300 to 400 lbs. 74.00 - 77.00
400 to 500 lbs. 73.00 - 76.00
500 to 600 lbs. 72.00 - 74.00
600 to 700 lbs. 73.00 - 75.00
700 to 800 lbs. 72.00 - 73.00
Over 800 lbs. 72.00 - 73.00
Plain 50.00 - 60.00

HEIFERS
Heifers are still \$10.00 to \$12.00 below steers.
Commercial & Utility Cows 46.00 - 50.00
Canners & Cutters 40.00 - 45.00
Bulls (up \$5 from last week) 55.00 - 63.00

HOGS SALABLE--12 - Too few to test the market.

SHEEP SALABLE--41
Lambs 58.00 - 60.00

HORSES SALABLE--11
Under 1000 lbs. 37.50
Over 1000 lbs. 39.00 - 43.00

There were 44 buyers and 107 consignors representing 7 counties at today's market.

Market Trend: The market held steady to strong from a week ago, light feeders held steady, however the rising grain prices and interest rates will undoubtedly affect the feeder market. The yearling market was stronger by \$2. We had a light run of cows but the market held fully steady. Bulls were extremely strong - up \$5.

Next Sale: Thursday, October 30.

Thank you,
John B. Kirby

La Grande Livestock - A Powder River Equipment dealer

Rentals 7

For rent on 6-month lease, small two bedroom unfurnished house. Fenced yard. Washer-dryer hookup. \$135 month--first, last and \$100 deposit. Available Nov. 5, 676-9015. 10-30-5c.

ONE BEDROOM duplex with some furniture. TV hookup, water and garbage furnished. 676-9105. 10-23-1fc.

Services 8

Need entertainment? Heppner High School band and choir will provide a night of fun and frolic - Gong Show.

You can order your personalized rubber stamp or business cards from the Gazette-Times. Standard rubber stamps also available. 8-14-1fs.

FREE: Dead Animal Removal - Fast Daily Service. Call collect-567-7639. HERMISTON HIDE & TALLOW. 10-2-1fc.

Planning a wedding? The Gazette-Times has many beautiful invitations for you to choose from. Stop by and look over our pleasing selection. 8-14-1fs

RINSE-N-VAC: See us for all your carpet cleaning supplies. Coast to Coast, Heppner. 9-4-1fc.

Livestock &
Poultry 10

For Sale: Eight year old registered gelding. Well broke. 676-9731. 10-30-2c.

WILL BUY HORSES--any kind. Phone 567-6065, Hermiston. 1fc.

Farm
Equipment 11

STEEL BUILDINGS by Chris Construction Company. For immediate delivery, 50 ft. wide by 60 ft. long, 14 ft. to eaves, steel building by Scafco American. Also 24 ft. by 24 ft. garage. We will order steel buildings to your specifications. Phone 562-5006. 8-28-11c.

Farm
Equipment 11

ACT NOW!! CHIEF 10 percent extra discount steel building sale and six cent grain bin rebate sale expires Oct. 31. Turman Aeration Equipment Co., 567-7666, Hermiston. 10-30-1c.

Miscellaneous 14

Used Soligor telephoto zoom lens with case. Zooms from 80mm to 200 mm. Fits all Canon 35mm cameras. \$110. See David Sykes, Heppner Gazette-Times, 676-9228. 10-30-1fc.

Have your RV ready for cold weather. RV anti-freeze now in stock. Pettyjohn's, 676-9157. 10-23-1c.

Sporting
Equipment 16

Still time to save on guns. Example: Win. 70A 7mm mag. reg. \$333, now \$265. Others to choose from. Pettyjohn's, 676-9157. 10-30-1c.

15-foot camp trailer--1964 Go-Lite - \$600. 376-8374. 10-30-2c.

We buy, sell and trade - New and Used Guns. Coast to Coast, Heppner. 8-28-1fc.

Fuel 17

Missed the Gong Show? Don't be a fuel. Heppner High School Auditorium is the place to be Nov. 10, 7:30 p.m.

Furniture &
Appliances 18

For Sale: Used davenport. Good condition. Call 676-9179 or see at 245 W. Baltimore St. 10-30-1p.

Small gas 4-burner stove with oven. As is - \$15. Phone 989-8586. 10-30-1c.

For Sale: one kitchen chair: one large recliner. Ph. 676-5516. 10-30-1c.

Motorcycles 19

For Sale: three wheel Honda; 676-5516. 10-30-1c.

Spooktacular Savings

Special On Fiestas

2 1980's Front Wheel Drive
4 spd 1 w/sun roof

1978 Ford F250 4x2 4 sp Nice Unit

Elk Hunter's Special

74 Chev ¾ ton 4x4, AT,

PS, PB, CLEAN UNIT

74 GMC ½ TON 4x4 AT

73 F250 FORD 4 sp 4x4 AT

Take This One
Away

HURRY THIS ONE WON'T LAST

1974 Chev. ½ ton AT, AC Low Miles

Farley Motor Co.

Heppner - 676-9486

Cars & Trucks 22

Home &
Garden 26

SURPLUS JEEPS, CARS, TRUCKS AVAILABLE THRU Government Agencies, many sell for under \$200. Call (602) 941-8025. Ext. 355 on fwy to obtain your surplus directory. 10-2-5p.

FOR SALE: 1966 - 4-wheel drive International Scout with two hoods. Runs but needs work - \$800. Call 676-9705 or 384-3944. 10-23-2p.

Real Estate 23

FOR SALE: Three bedroom split level home in Heppner. Two baths, two fireplaces, family room, patio, electric heat, central air, 2-car garage, large lot, landscaped. Call Bob Kelly, 276-6863 eves. 10-9-4c.

Spacious 5 Bedroom, Family Room, Full Finished Basement, Fireplace, Carpeting, Energy Efficient Lenox Heat Pump. On Large Corner Lot. \$55,000. By Appointment Only. Call 989-8150 after 5. 10-16-1fc.

Excellent Willow Creek Valley view, two years old, energy efficient, three bedrooms, two baths, family room with Blaze King stove, double car garage plus large deck in rear and front, fully landscaped. \$66,000. Call 676-5091. 10-9-1fc.

3 acres of mountain property with water & electricity & fence. \$8,500 - A mountain home with 6 acres water, electricity, full deck with good view. 38,500. 676-5348. 7-3-1fc.

IMMEDIATE
\$\$\$CASH\$\$\$ AVAILABLE

For Real Estate contracts, Trust Deeds & Mortgages. We also loan money. Jim Farley, Manager. 276-4723.

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When the cold wind blows! Orley's wood stoves in stock starting at \$369. Pettyjohn's, 676-9157. 10-23-1c.

We'll provide the homey atmosphere with your help. Please attend our Gong Show. \$1.30 adults; 75 cents, children.

NOW is the time to weatherize your home. Caulking, fiberglass attic insulation, window plastic. Pettyjohn's, 676-9157. 10-23-1c.

Yard Sales 28

Yard Sale: Kid's clothes, storm doors, toys, etc. 960 Fairview, Nov. 1, 10 a.m. - 3 p.m. 10-30-1c.

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GAZETTE-TIMES

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