

Is wind power really GREEN?

The proposed Antelope Ridge Wind Factory will have **164 towers, 40 stories tall and will destroy 47,000 acres sensitive wildlife habitat.**

Materials used in the factory will be:

- **4,723 tons** of non-biodegradable fiberglass blades
- **139,400 gallons** of petroleum-based oil
- **66,155 cubic yards** of concrete *
- **46,000 tons** of steel and rebar

*Did you know?

Concrete production is one of the most energy intensive of all manufacturing processes and accounts for **5-10% of the world's CO₂ emissions?**

How is this green?

In Baotou, China, where neodymium is extracted, a vast man-made lake of foul-smelling **radioactive** waste, five-miles wide, has been created from the by-product. It has killed farmland for miles around, made thousands of people ill and put one of China's key waterways in jeopardy. One of the **largest users is a top-capacity wind turbine that uses 4,400 lbs.** of the neodymium-based permanent magnet material.

"Wind power is a technological, economic and environmental failure." John Droz, Physicist

The wind does not always blow, therefore, wind power. . .

. . . is an **intermittent** source of energy;

✦ requires a continual backup of gas, coal and hydro power in "spinning reserve";

✦ causes ramping up and down of backup sources resulting in a **decrease of up to 45% of their efficiency;**

✦ creates the necessity of **additional gas and coal plants to be built to back up to wind power.**

= higher utility costs and increased CO₂ emissions

NEWS BULLETIN

Tax Dollars Gone With the Wind

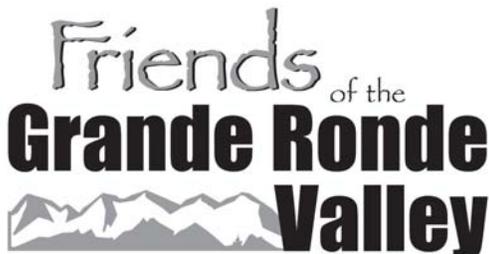
With the federal, state and local tax grants, credits and programs, Oregon taxpayers are paying for wind energy that is all going out of state.

FACT: Of all the thousands of wind towers erected throughout the world, not one fossil-fuel plant has been closed as a result of wind power.

Taxpayers subsidize wind power at \$23.34 per MWH, natural gas at 25¢ per MWH, coal at 44¢, and hydro power at 67¢.

If wind energy is *really* green, where is the proof?

Number of states with Renewable Portfolio Standard—29
Number of states that require proof that renewable sources save CO₂ emissions—0



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The Friends of the Grande Ronde Valley is a grassroots organization whose goal is to save our pristine state, our irreplaceable way of life and our right to say how our tax dollars are spent. Your participation and generous donations help us educate the public with the facts about the impacts of wind power. We welcome you to join us.

The Friends of the Grande Ronde Valley ☆☆Energy Challenge☆☆

With all the 10's of thousands of wind towers that are scheduled to be erected throughout the US, it has been estimated that they will only provide less than 3% of our energy production.*

CONSERVE 3%

&

PREVENT

**our wildlife ▪ health ▪ environment ▪ economy
from being thrown to the wind!**

Since wind's potential contribution is so small, modest conservation would avoid the adverse impacts of wind energy development, according to National Wind Watch.

TAKE THE FGRV CHALLENGE!

A few tips on how to conserve energy . . .

- ◆ Reduce your usage of what you already operate.
- ◆ Plug your appliances and electronic equipment into a smart strip and when you're not using them, simply turn off the smart strip.
- ◆ Wash your clothes in cold water.
- ◆ Run only full loads in your dishwasher and washing machine.
- ◆ Air dry dishes rather than using heated drying cycle.
- ◆ Lower the thermostat on your hot water heater to 120°.

“Energy efficiency is still the best buy. . .” NW Power Council

*In the U.S., the Energy Information Administration (EIA) of the U.S. Department of Energy projects that wind's share of electricity production will be less than *one* percent in 2030. <http://www.eia.doe.gov/oiaf/aeo/index.html>