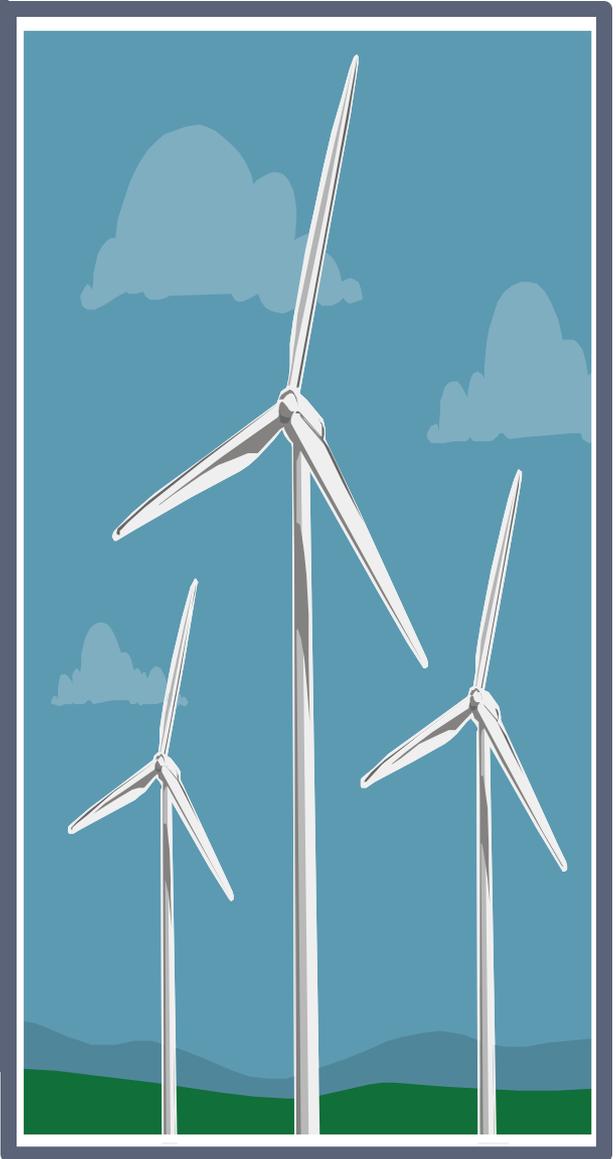


BIG WIND

**Current Facts about Wind
Energy**

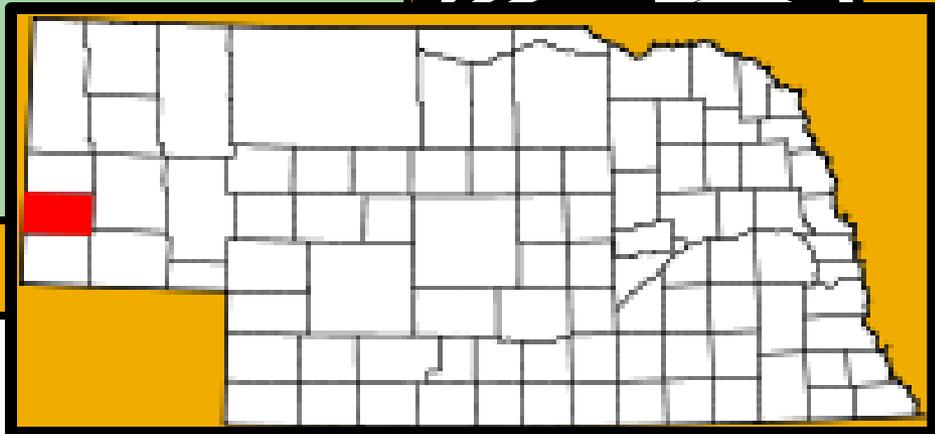
2012

Banner County Wind Energy Association



BCWEA LLC BOARD MEMBERS

- **Curtis Cloud**
- **John Robert Faden**
- **John Jones**
- **Rick Larson**
- **Tom May**
- **Lee McGowan**
- **Kelly Sandberg**
- **Dave Wolf**
- **Jim Young** **Chairman**
- **Art Olsen** **Co-Chairman**
- **Judy Stauffer** **Treasurer**
- **Karen Bahnsen** **Secretary**



Advisor

Ron Moore of Panhandle RC&D

Are you thinking of forming an association?

**IT CAN BE DONE ---
YOU JUST MIGHT BE THE PERSON TO DO IT!**



Make the choice to educate yourself.

- **Talk to people to find out if there is an interest and/or a need.**
- **Contact your RC and D.**
- **Contact your county elected officials.**
- **Each organization is unique and responds to their own situation.**
- **Be yourself.**

- **Get energized. Get organized.**
- **Set purposes and goals.**
- **Have a timetable.**
- **Make a commitment.**
- **Decide to be respectful of one another.**
- **Start small and grow.**

BIG WIND LIVES IN NEBRASKA

Nebraska is in the top five!

Top 10 States for Wind Energy Potential



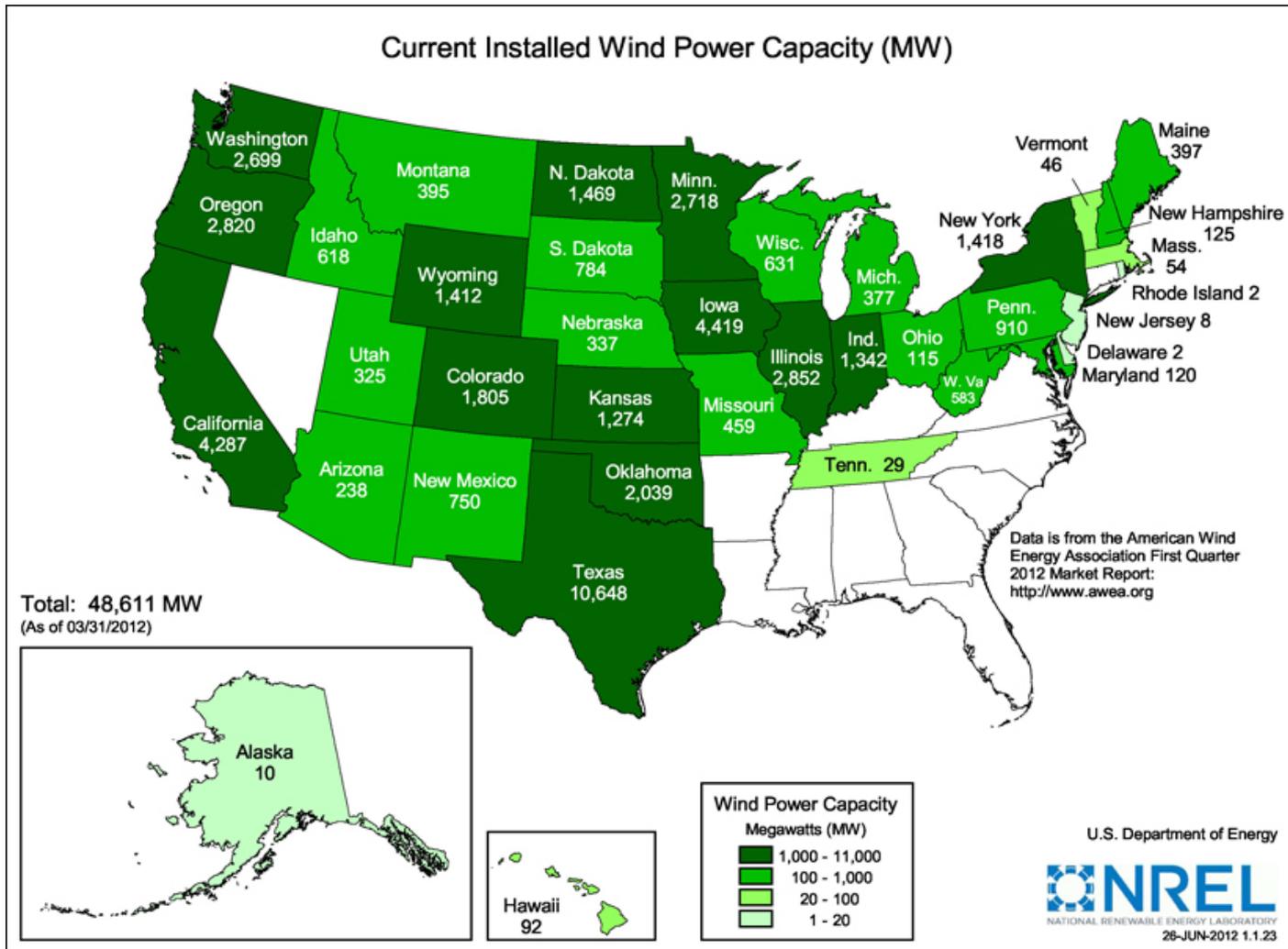
Nebraska Wind Energy Resource: 3,540,370 GWh at 80 meters hub heights

Nebraska's wind resource is ranked 3rd in the US.

According to a resource assessment from the National Renewable Energy Lab, Nebraska's wind resource could provide the state's current electricity needs 120 times over.

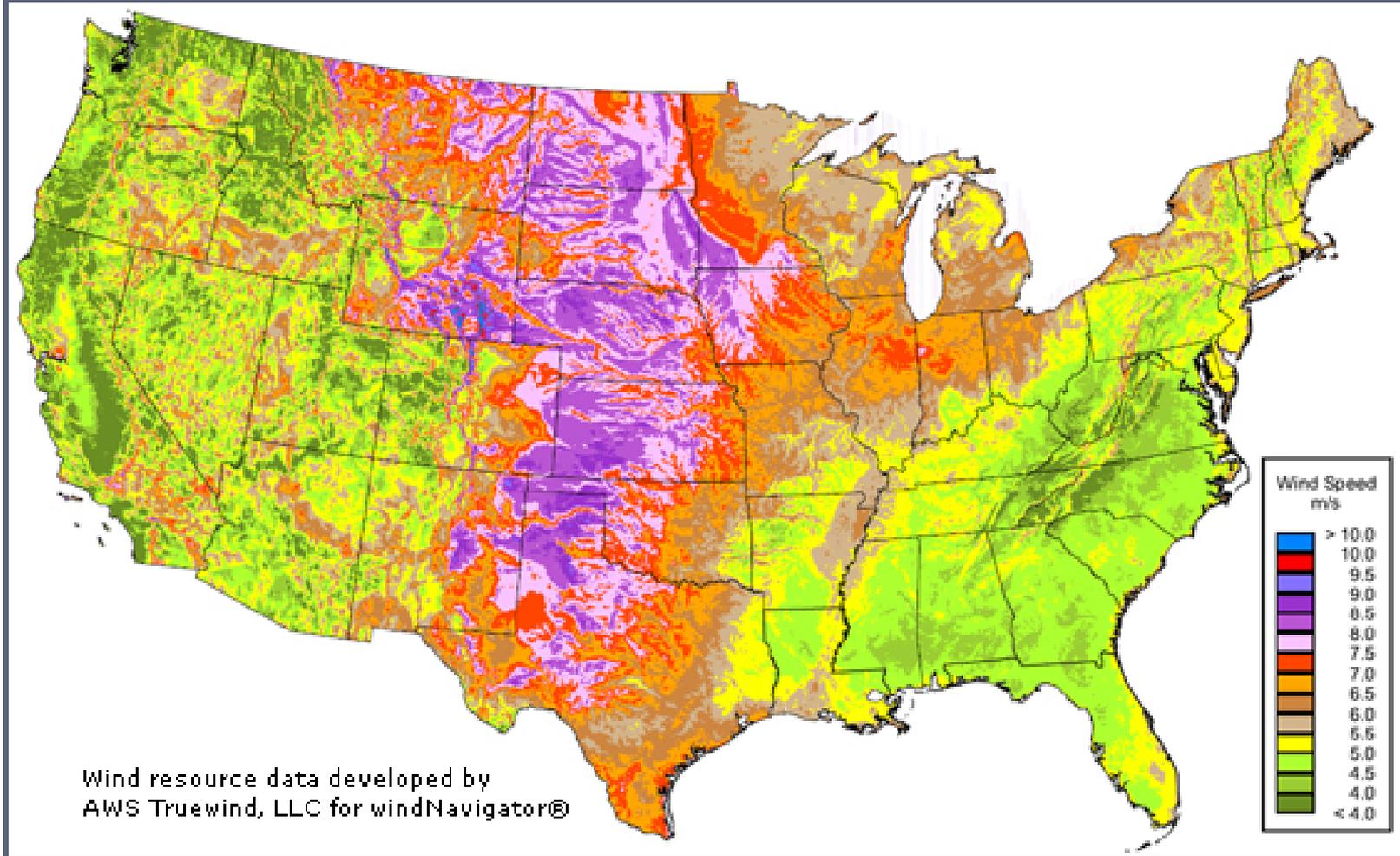
Source: AWEA 2012

**Nebraska is ranked 3rd in wind energy potential
and yet we are not in the top 20 for wind energy production.
In fact, we are behind Maine in production.
This is a new map from June of 2012**

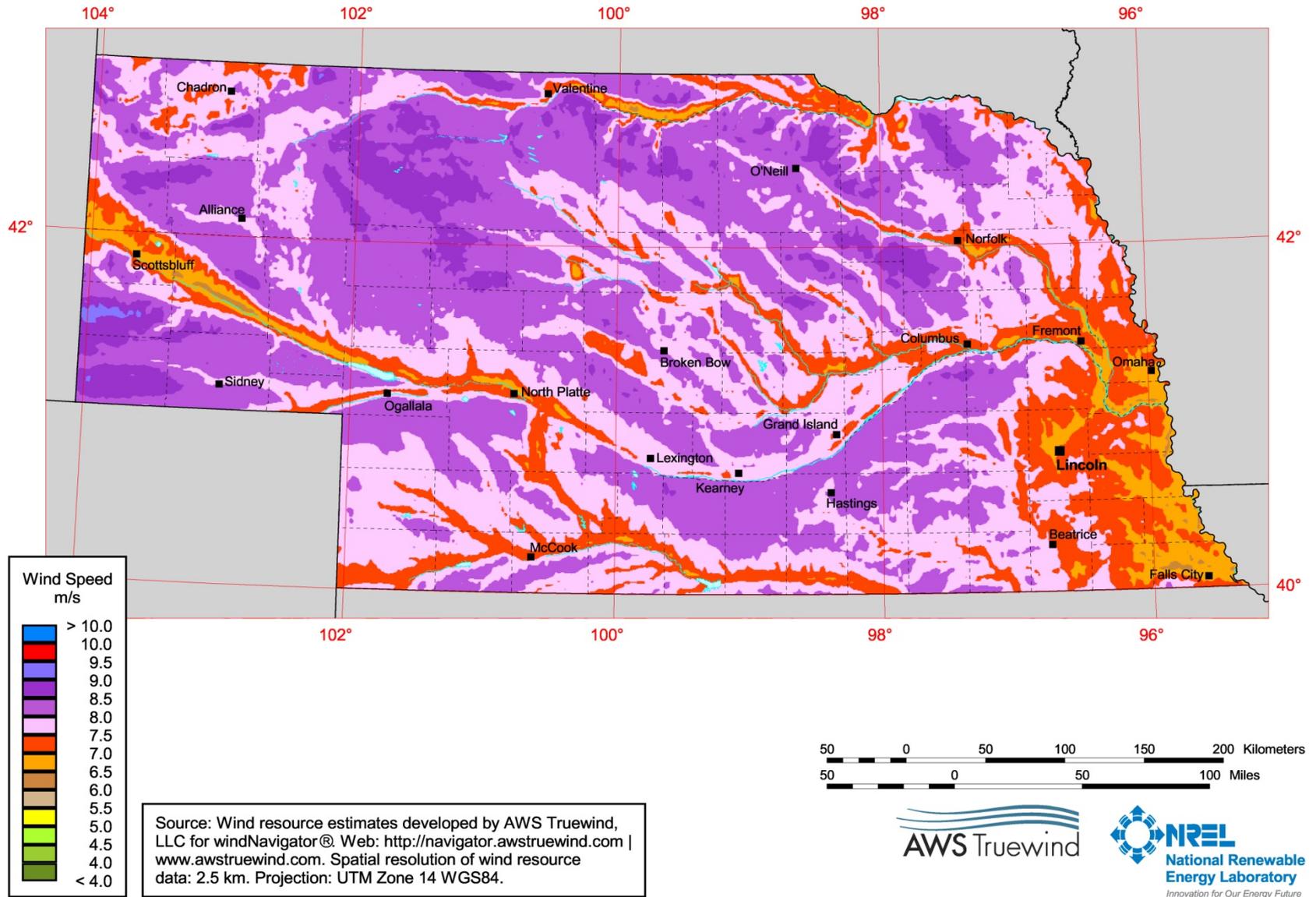


Newest Wind Resource Map from Wind Powering America.gov

February 3, 2012 - Wind speed at 80 Meters



Nebraska - Annual Average Wind Speed at 80 m



Nebraska Changes in the Wind

The calculations for Nebraska are from the US Department of Energy
They are based on 1000 MW per wind farm.
This would mean 500 towers based on a size of 2MW

There are direct impacts on people, the county, and the state:

Payments to Landowners: \$2.7 million per year

Local property tax revenue: \$3.9 million per year

Nebraska
Changes in the Wind

This is what is predicted during the construction phase for each
1000 MW that are developed!

1,634 new jobs *directly with wind energy*

\$188.5 million to local economies

This is what is predicted during the operations phase for each
1000MW that are developed!

260 new long term jobs *directly with wind energy*

\$21.2 million/year to local economies

Indirect and Induced Impacts

Construction Phase :

1664 new jobs *support – non-wind*

\$149.1 million to local economy

Operational Phase:

191 local jobs *support – non-wind*

\$18.4 million/year to local economies

Nebraska Changes in the Wind

The construction phase is usually 1 - 2 years

The Operation phase is 20 years

Over this period of time the estimated total of construction and operation was calculated by The DOE at 20 years to obtain the following calculations for 1000 MW:

Economic Benefit: **\$1.1 billion**

New Local Jobs during Construction: **3,298**

New Local Long Term Jobs: **451**

WHAT IS NEBRASKA'S WIND POTENTIAL?



8000 MW

Neighbors Matter

Kimball - Scottsbluff - Morrill - Sioux - Box Butte - Dawes - Cheyenne

Wind energy resources in each county could be utilized-

Development of other energy resources in each county-

Manufacturing and assembly plants that are located near the point of use-

More jobs

Higher Paying Jobs

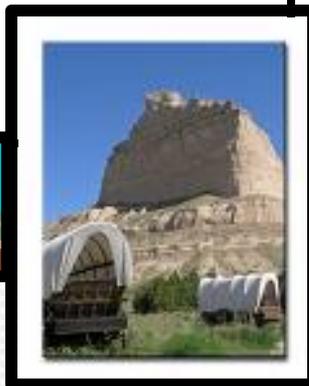
Increased Population

Younger Population

More Businesses

More Tourism

THE PANHANDLE ROCKS!



Banner County Wind Energy Association

We need help to speed up
the development of transmission lines
and the opportunity to use them.

We respect and appreciate all forms of energy.

We have solar, wind, oil, gas, geothermal,
bio-mass, and ethanol.

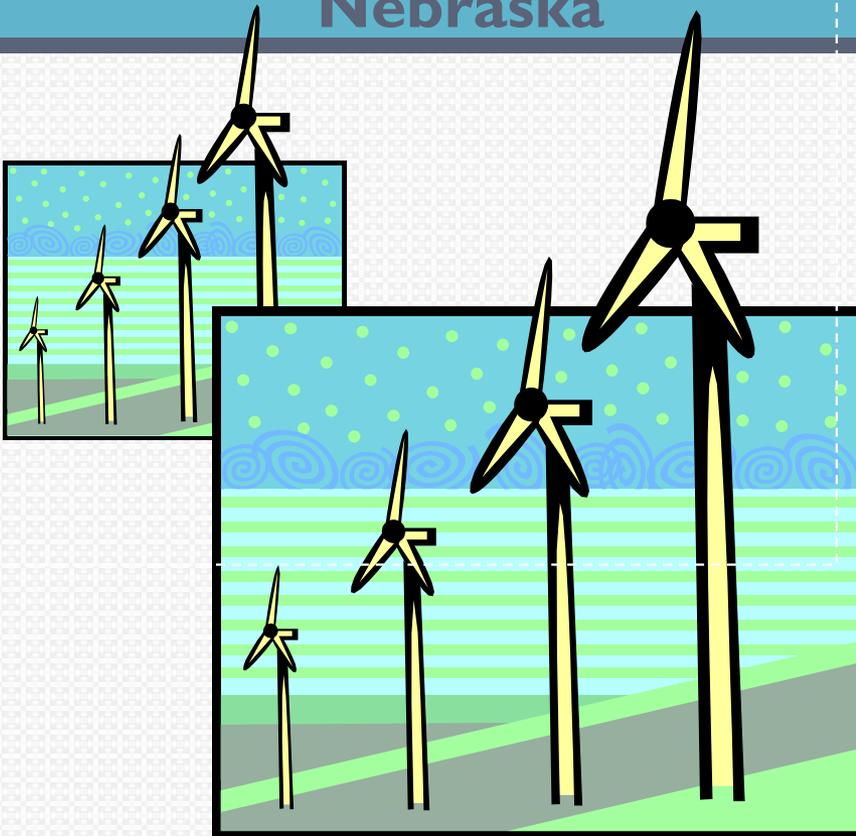
Nebraska should be the heart of energy!

Let us live up to our potential!

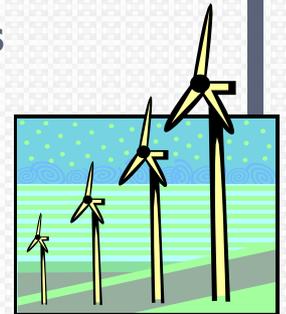


There are many changes blowing in the wind

Revitalization of Rural Nebraska

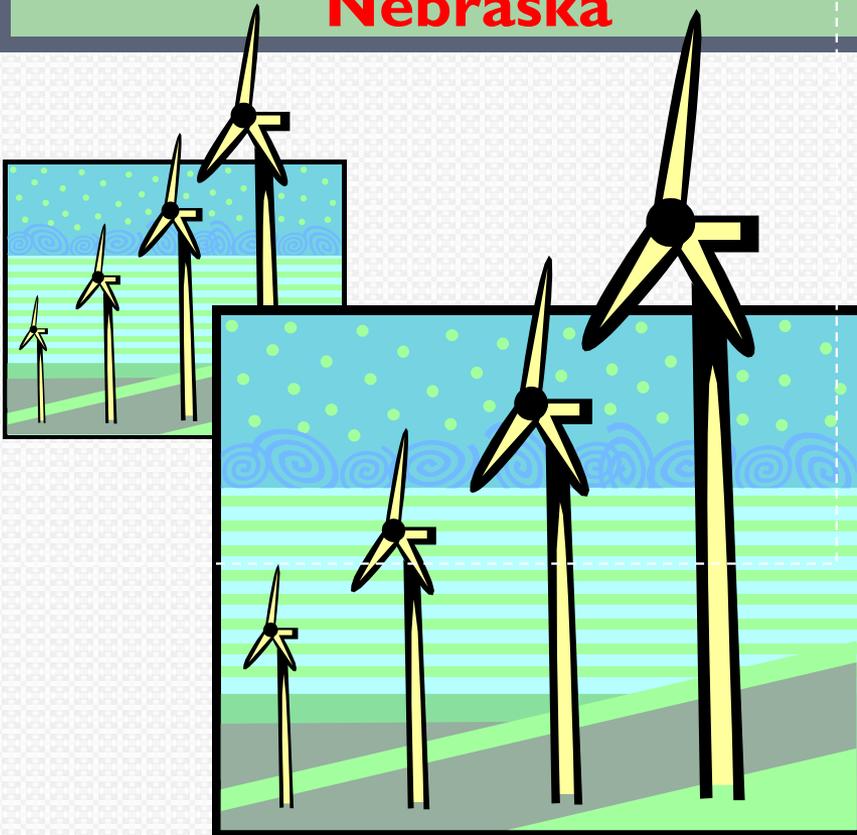


- Dignity of work
- Prosperous people
- Healthy individuals
- Generous impulses can be fulfilled
- Fewer worries
- Increased population
- Convenience



There are many changes blowing in the wind

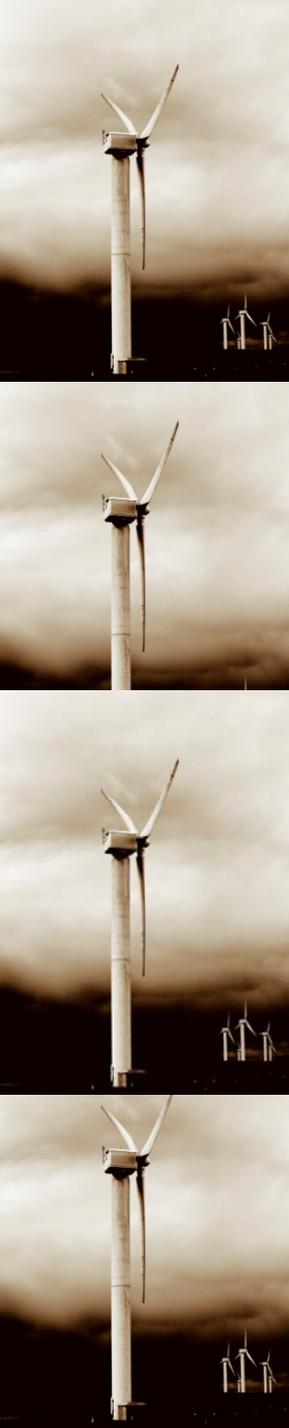
Revitalization of Rural Nebraska



We wish to do the following:

Utilize our energies

- **Protect the land**
- **Protect the landowner**
- **Protect the vulnerable**
- **Provide good jobs**
- **Improvements for our county**
- **Improvements for our state**
- **Help America by sharing our natural resources**



Dream Big

There are many components to making a dream come true.

There are obstacles to overcome; let's overcome them.
Nebraskans can do it!

Perhaps the biggest obstacle is the people who say that it cannot be.
Nebraskans can accomplish anything!

After all, our heritage is that of the pioneers who traveled on the
The Oregon Trail with great bravery into an unknown future, and that
of the Native Americans who cared so deeply for the land, and that of
the immigrants from foreign countries who left what they knew for a
chance at a better life.

Most assuredly, we who live in this place and time can travel a new path to
implement new energies to benefit all.



**...as yet, the wind is an untamed,
and unharnessed force; and quite
possibly one of the greatest
discoveries hereafter to be made,
will be the taming,
and harnessing of it.**

Abraham Lincoln

Lecture 'Discoveries and Inventions', (1860) in *Discoveries*

