





Clean Energy for the 21st Century



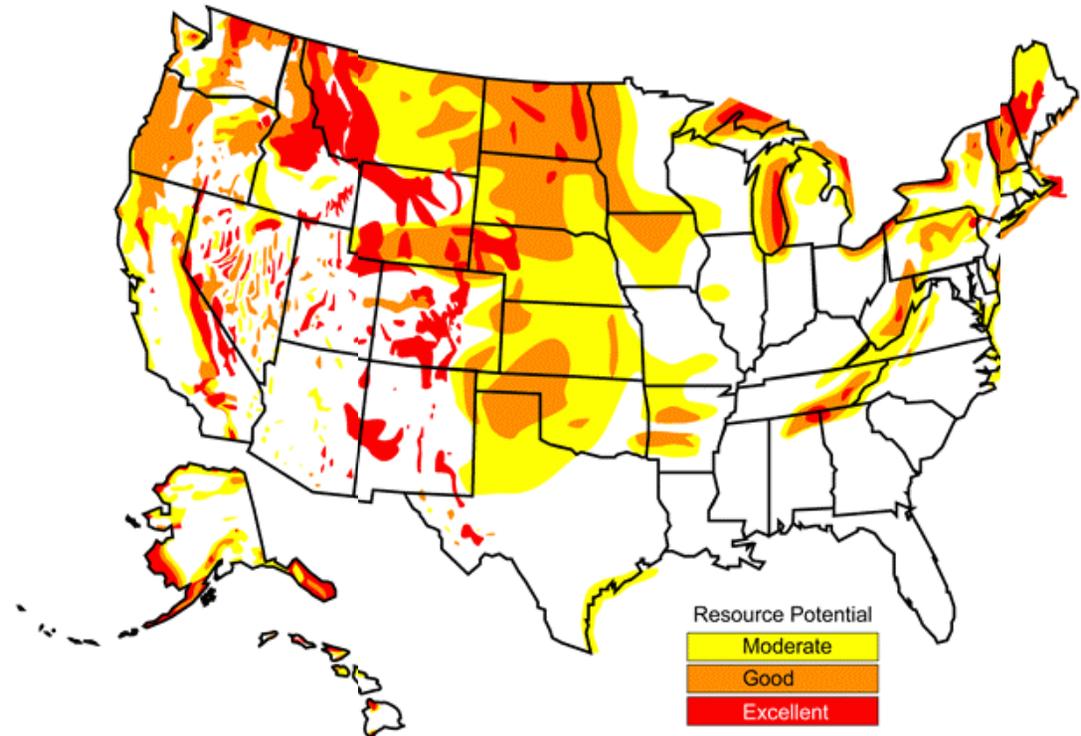
Drivers

- Energy: *Balance our National Energy Portfolio*
- Environment: *Limit the impacts of power production*
- Economics: *Capture Domestic and International Markets*



Wind Energy Resources

Rank	State
1	North Dakota
2	Texas
3	Kansas
4	South Dakota
5	Montana
6	Nebraska
7	Wyoming
8	Oklahoma
9	Minnesota
10	Iowa
11	Colorado
12	New Mexico
13	Idaho
14	Michigan
15	New York
16	Illinois
17	California



World Class Wind Potential

Germany's Potential: 100 GW

North Dakota's Potential: 250 GW

Source: AWEA



Wind Energy: New Cash Crop

1979: 40 cents/kWh

**2000:
4-6 cents/kWh**

- Increased Turbine Size
- R&D Advances
- Manufacturing Improvements



NSP 107 MW Lake Benton wind farm
4 cents/kWh (unsubsidized)

**2003:
2.5-4.5 cents/kWh**



Goals

Announced
June 1999



“Wind energy has been the fastest growing source of energy in the world during the past decade and now represents a major economic opportunity for the United States.

Wind Powering America will help us promote regional economic development, increase America’s energy security, and protect our environment for generations to come.”

Bill Richardson, Secretary of Energy

- 5% of nation’s electricity by 2020
- Double the states with 20 MW installed to 16 by 2005, and then to 24 by 2010
- 5% of Federal electricity use by 2010 (1,000 MW)



National Benefits

- \$60 billion in capital investment in rural America over 20 years
- \$1.2 billion in new income for farmers, Native Americans, and rural landowners over 20 years
- 35 million tons of carbon displaced in 2020
- 80,000 permanent jobs by 2020





Guiding Principles

- Regionally-Based
- Focus on Priority Areas
- Leverage Resources and Replicate Results
- Coordinated Activities





Strategic Thrusts

- Federal Green Power Purchases
- Rural Economic Development
- Power Partnerships
- State-level Support
- Outreach & Technical Support

