



# State Policies and Programs to Advance Distributed Wind Projects

Webinar  
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# What is the role of clean energy incentives?



- Promote renewable energy
  - Increase viability of technology
  - Increase understanding
  - Increase comfort level
  - Generate new models
- MWs vs. constituents

# The Valley of Death is not 2-D





## What's the efficient approach (MW)?



- Promote good projects
- Maximize MW for minimum bandwidth
- Replicate success
  - Learn



- Developer, owner, and operator of distributed renewable energy generators
- Focus: Hawaii, California, Colorado, Kansas, Ohio.
- Technology neutral
- Nationally recognized team with engineering and financial expertise
- Headquartered in Boulder, Colorado



## *Organizations seeking energy rate stability*

- Utility entities
- Municipalities
- Educational facilities
- Water treatment plants
- Correctional facilities
- Big box retailers
- Manufacturing plants
- Distribution centers
- Transportation hubs



## Upper Scioto Valley Wind Project

- Equipment: 2 x NW100
- Contract: April 2009
- Commission: Sept. 2009
- Annual Prod.: 387,000 kWh
- Site Host: USV Schools
- Support: ODOD, ARRA



# What's Important to the Developer?

- Non-competitive
- Clear yet technically discriminating (filter)
- Promotes good projects that can be built within a reasonable time-frame
- Promotes effective projects that raise public awareness
- Recognizes technical know-how
- Recognizes value of experience/track record





## Cost and Risk\*

Household turbine: \$5,000

Commercial wind turbine: \$1M

Utility-scale wind turbine:  
\$3.5M

\* turbine costs only



# Mid-Scale Requires Expertise

- Commercial wind turbine: \$1M
- Project development: \$500k
- Complicated
  - Zoning/Permitting
  - Interconnection
  - Construction
  - O&M



# Advanced Energy Program Grant - Strengths

- Encourages 3rd Party Partnerships
- Rolling Acceptances
- Cash, Not Credits
- Non-Competitive
- Quick Turnaround
- Technically Demanding





## Final Observations

- Third party should be incentivized, not discouraged
- Zoning should limit capacity, not incentives
- Visible, effective projects should be the goal



# Thank you!

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