State Policies and Programs to Advance Distributed Wind Projects

Webinar
April 8, 2010
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
- 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
Don’t forget the utility policy

Third-Party Ownership
March 2010

Note: This map is intended to serve as an unofficial guide; it does not constitute legal advice. Seek qualified legal expertise before making binding financial decisions regarding a 3rd-party PPA.
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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