

Developing Community Wind

Don Lorraine, Green Mountain Power

December 3, 2011



Green Mountain Power

Committed to Renewable Generation



Community Scale Renewables

Solar projects such as

- South Village
- Shelburne Farms

Familiarity with Challenges

- Interconnectivity
- PSB review process
- Relationships with neighbors and local government



GMP and Community Wind

- Partnership with Northern Power Systems, a VT company
- NPS 100 – ideal for community wind
 - quiet
 - 37 meters
 - track record in residential/
mixed use communities
- VT demonstration project
- Sought host to provide site in return for 10% of energy produced



Community Wind Outreach

June 2011 - Proposals invited.

Criteria:

1. GMP customer
2. Ownership or site control of 1 acre or more
3. Access to 3 phase distribution
4. Appropriate wind resource
5. Willingness to be part of community education (allow periodic tours, or public website to monitor wind production.)
6. 250 word statement of interest



61 applications received in 3 weeks

- Farms,
- schools,
- towns,
- non-profits,
- small businesses,
- ski areas,
- individual home owners



- 10 Applications met the minimum wind of 4 meters per second.



Finalist: Northlands Job Corps , Vergennes

Factors:

- excellent wind resource
- mixed-use with nearby residential (realistic scenario for a demonstration)
- leased land with a landlord very favorable to the project



Step by step

1. Negotiate agreement with landlord
2. Meet with town officials
3. Worked on CPG application
4. <http://psb.vermont.gov/sites/psb/files/rules/OfficialAdoptedRules/5100ApplicationForm2009.pdf>

State of Vermont Public Service Board

Application for a Certificate of Public Good for Interconnected Net Metered Power Systems

General Instructions:

Applicants must complete sections 1-3 and any other sections applicable to the type of system to be installed. Specific instructions for each type of system are included under the applicable section. For example, an applicant for a wind turbine system must complete sections 1-3, 5 and 8. **Failure to complete all applicable sections of this application may result in delay or denial.** Once the application form is completed, the applicant must mail the applicable sections of the completed application to the Public Service Board, the Vermont Department of Public Service, the applicant's respective utility, and to all other parties as specified in each of the sections applicable to the net metering project. For example, an applicant for a photovoltaic system installed on an existing structure is required to mail copies to the Public Service Board, the Department of Public Service, and his or her utility. Applicants must also submit a list of the persons that they have mailed a copy of the application in accordance with the instructions for each type of installation along with the completed application. It is recommended that the applicant contact their utility *prior to applying for a certificate* in order to determine whether the utility's capacity regarding net metering projects has been met. Please contact the Public Service Board at (802) 828-2358 if you have any questions regarding this application form.

Lessons Learned – Do your homework up front

- get town involved
- get neighbors involved
- hear and address their concerns
- allow plenty of time

•Economics \$\$\$???

