

Monterey County Board of Supervisors Alternative Energy and Environment Subcommittee Discussion of Wind Energy Potential for Monterey County May 25, 2017







Version May 26, 2017

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Foundation Windpower Overview



- Develop, build, own, and operate distributed wind projects
- Long-term power purchase agreements (20 year PPAs)
- On-site power generation for commercial and industrial users
- Top equipment suppliers, financiers:
- Solid customers:



Foundation Windpower 1.5MW GE turbine in Vernalis, CA





















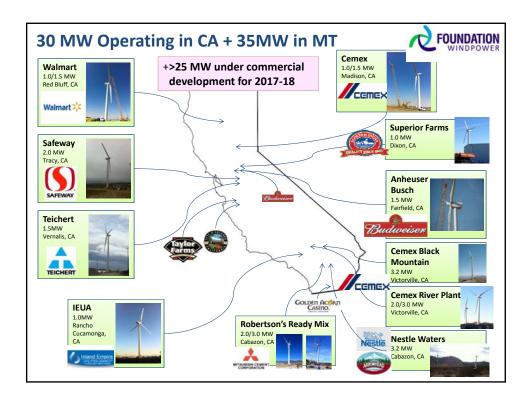


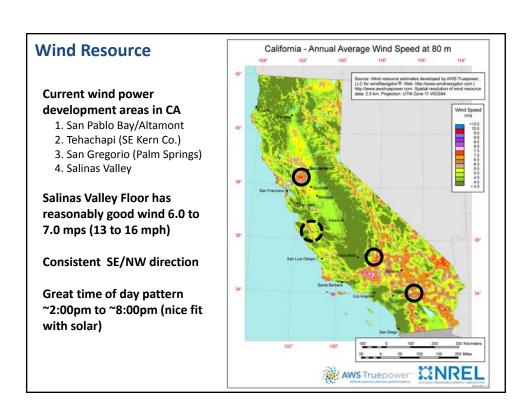


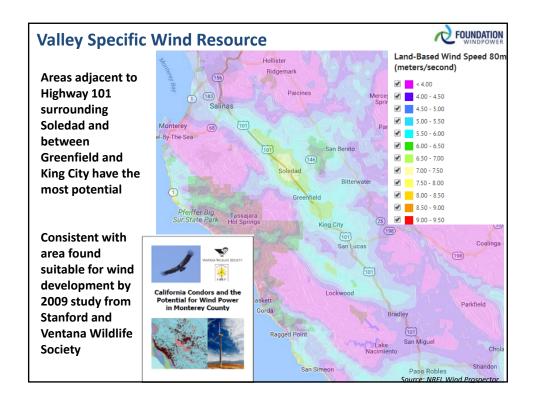


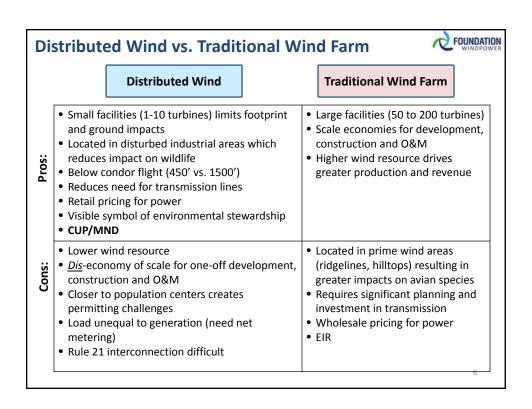
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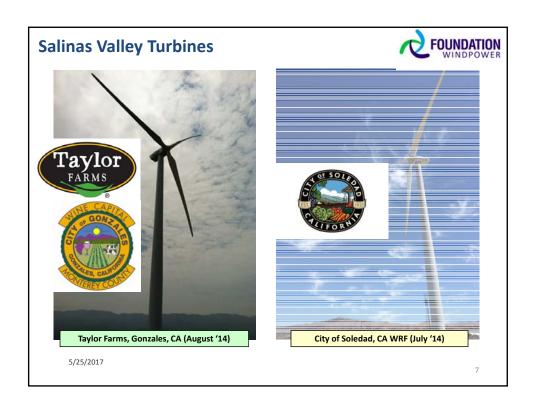
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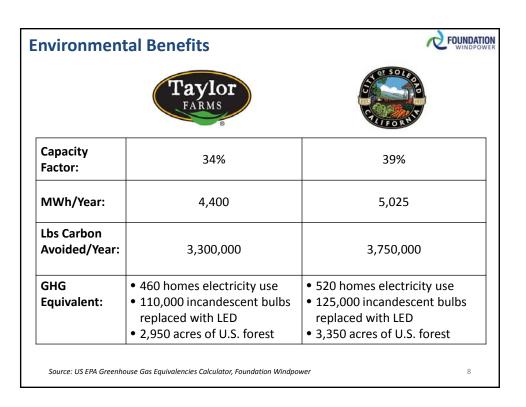








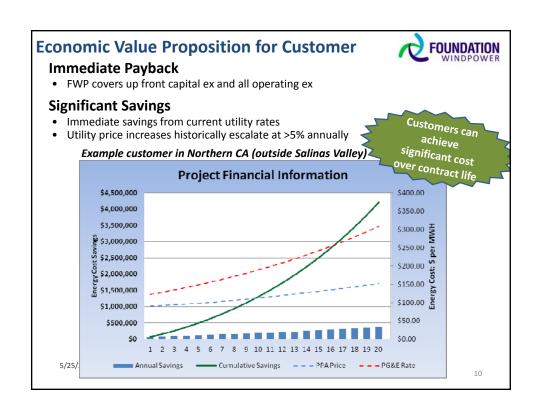




Standard elements of MNDs



- Siting in disturbed, industrial/agricultural areas
- Co-located with load
- APLIC standards for connector lines
- Modern turbines
 - Higher gear ratios (22 RPM makes blades visible)
 - Monopole vs. lattice structure
- Biological assessment (bird counts, condor flight tracking)
- Shadow flicker and noise studies
- Traffic plan
- Post construction monitoring



Economic Benefits



- Customers enjoy 5% to 20% reduction in power price from PG&E rates
 - City of Soledad saves \$100,000 to \$125,000 annually
 - Will be \$3-4 million over life of equipment
- Job creation
 - ~ 30 direct jobs during construction (civil, structural, electrical)
 - Purchase concrete, misc. building materials locally (~\$1MM/turbine)
 - 4 permanent jobs for O&M (statewide operations)
- Job retention
 - Taylor Farms reduces costs for electricity, keeps its facility economically competitive vs. relocating to lower cost region or loosing market share to foreign competition
- Property taxes paid to County

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How can Monterey County encourage more?



- Accelerate environmental permitting process in County
 - Specifically identify areas entitled for wind energy development
- Work with California Department of Fish and Wildlife / U.S. Fish and Wildlife Service, to enumerate locations and procedures for distributed wind projects
- Appeal to PG&E and CA Public Utilities Commission to reduce unnecessary engineering and equipment to "protect" the grid
 - Reduce timelines for interconnection study process
 - Encourage ReMAT wind projects by identifying areas where grid can accommodate distributed wind projects
- Encourage federal and state government to
 - Protect and extend tax credits for wind energy generation
 - Expand adoption of Community Choice Aggregation
- Become a user of distributed wind energy for County facilities

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