

Wind Energy Upgrade for Chesbro Rifles

Tehachapi, CA 93561 | Bergey Excel 15 | 15 kW Turbine, 80 foot tower | Installed by Pacific Solar & Wind LLC



Credit: Bruce Hatchett, Pacific Solar & Wind LLC

“The Excel 15 is much quieter than my old Excel 10. It’s a big improvement,” noted owner Mark Chesbro.

Key Findings

- Produces ~ 36,000 kW annually
- 100% annual energy offset
- 5-year estimated payback period

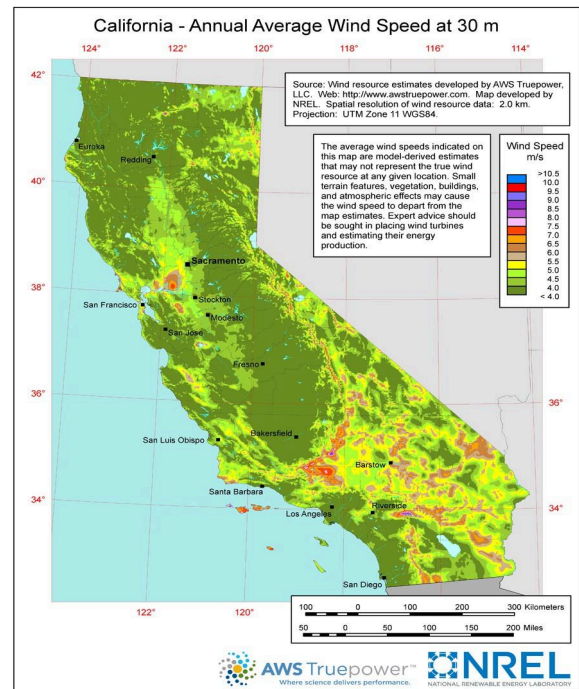
Impact

- Secures energy independence
- Demonstrates feasibility of wind energy for rural businesses

To meet the growing energy demand, **Chesbro Rifles** in rural

Tehachapi, California, upgraded its energy system, replacing a Bergey Excel 10 kW turbine with a Bergey Excel 15 kW turbine on an 80-foot tower. Chesbro Rifles upgraded its turbine to meet the company’s growing demand for energy, producing energy more efficiently and cost-effectively.

The Excel 15 produces over double the energy of its predecessor, generating approximately 36,000 kWh annually. With this upgrade, Chesbro Rifles can offset 100% of its electricity usage, achieving energy independence. Additionally, Chesbro Rifles sold its 10 kW turbine, which continues to perform well after 20 years of service. The project benefited from federal incentives, including a 30% tax credit plus 10% for American-made equipment.



More than 230,000 California properties have wind resources suitable for distributed wind with a combined technical potential of 3.8 GW, per NREL

Want further information? Please contact:

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