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# WIND POWER ON NATIVE AMERICAN LANDS: OPPORTUNITIES, CHALLENGES, AND STATUS

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#### Existing and Pending Native American Wind Projects: 50 kW and Larger (May 30, 2007)

#### n-Phase Projects - South and these Four follow, ND) 1x 100-kW turbine Meets part of casino load Installed 1996 Financing: TEP grant 1x 100-kW turbine Meets part of wastewater treatment plant loa Installed 1996 Financing: TEP grant

12 Advanced Store (Construct Construction, 30) 1x 750-kW turbine Energy sold to Basin Electric and Ellsworth AFB Green tags sold to Ellsworth AFB and Native Energy Installed: 2003 Financing: TEP grant, RUS Ioan

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Financing: TEP grant - Campo Sand of Komeyaav (C (24) 50 MW Installed 2005

Privately owned project: leasing The officient of the second second the second second second second second second Energy sold to local utility Installed 2005 Financing: TEP grant

stalled 2005 hancing: TEP grant 10 a 66-KW turbines 1 x 100-KW turbine 1 x 100-KW turbine 1 x 100-KW turbine 1 x 25-KW turbine 1 x 25-KW turbine 1 x 25-KW turbines 1 x 26-KW turbines 2 x 66-KW turbines 1 x 26-KW turbines 2 x 66-KW turbines 2 x 66-KW turbines 2 x 66-KW turbines 2 x 66-KW turbines 1 x 25-KW turbines 2 x 66-KW turbines 2 x 66-

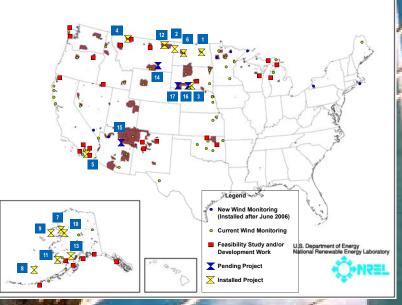
> AN) 4x 100-kW turbines High-penetration wind-diesel system Installed 2006 (2. - As shift)ofnerand: Story, Milberg Font 2x 50-kW turbine

2x 50-W turbine Energy will be used within the reservat Installed July 2006 Financing: TEP grant . Alasta Villaga Elestre Cooperative 3x 100-kW turbines

ligh-penetration w nstalled June 2006 Near-Ferm Projects: 14. Northern Stingenne (Sore, MT) 14. Northern Stingenne (Sore, MT) 14. Northern (pre-construction) work finance TEP grant Trabe will retain an equity interest 14. Software (Soft) 15. NW

IS way Installation expected in 2008 Privately owned project: leasing land from the Tribe Hopi planning to follow up with a wind project in which the tribe will retain an equity interest Scilosophul Stock (Stafrances, SD)

20 MW Installation expected in 2007 Development (pre-construction) work financed with TEP grant The will retain an equity interest 4.0 (pre-store store), 300 65 kW Installation expected in 2007 Supply power to KIL Fadio Station



### **Business Models**

• Tribally Owned: e.g., TDX Power, Blackfeet

- Joint Venture: No current examples. Tribes evaluating lessons from community wind experience.
- · Land lease to third-party owner: e.g., Kumeyaay

Tribal Energy Program: www.eere.energy.gov/tribalenergy/ Wind Powering America: www.windpoweringamerica.gov

#### **Tribal Wind Opportunities and Issues**

#### Wind resource

- Transmission access
- Renewable energy for climate change mitigation
- Environmental justice
- Federal outreach programs (DOE TEP, WPA, DOI/BIA MAP, USDA 9006)
- Wind-hydro integration
- Federal green energy preference
- Purchase by Intertribal COUP of Native Energy, a green tag broker (supporting tribal wind projects by purchasing green tags at beginning of project)
- Clean Renewable Energy Bonds (CREBs).

## **Projects on Tribal Land Are Different**

Inability to monetize Production Tax Credit (PTC) and accelerated depreciation (affects projects with tribal equity interest)

- Tribal tax advantages: Not as valuable as the PTC. Projects with non-tribal partners may lose these tax advantages
- More stringent environmental regulations (NEPA)
- Agreements require multiple levels of review: Tribal, BIA, FWS, EPA, THPO/SHPO
- Land ownership often varies within the reservation (checkerboarding): Trust, Allotted, Fee. Needed permissions and tax status vary depending on ownership status
- Tribal sovereignty/Tribal policies/Native American law: Applicable laws and jurisdictions vary with regard to projects and contracts
- Optimal business structure with tribal equity interest has not emerged.

### Tribal Expectations from Partners

- Respect for tribal sovereignty and self-determination
- Native American culture places a high premium on face-toface interaction
- Extensive outreach to local community
- Respect for tribal cultural artifacts and spiritual sites
- Maximum opportunity for local training and jobs.