



U.S. Department of Energy
Energy Efficiency and Renewable Energy

Sandia National Laboratories' Technical Assistance

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TEP Project Review
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Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company,
for the United States Department of Energy under contract DE-AC04-94AL85000.





Sandia **VISION**



**Helping our nation
secure a peaceful
and free world
through technology.**



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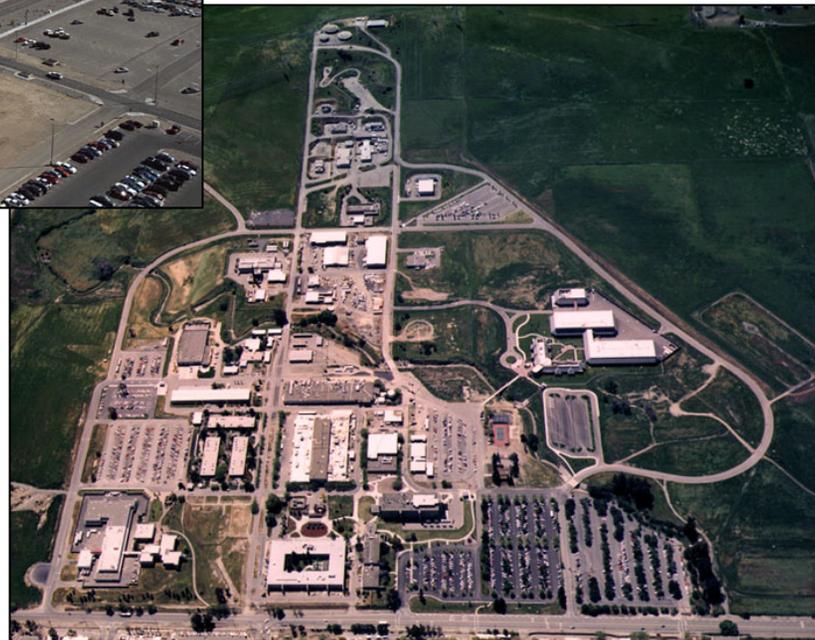


Where is Sandia National Labs?



- New Mexico
- California

- Nevada
- Hawaii
- Texas





Sandia's technical assistance to tribes



Field visit to Wyoming wind farm w/ interns & Hopi representatives

As part of the TEP team, Sandia's activities and responsibilities include the following:

- Program technical support
- Project-specific technical support
- Capacity building in Indian Country
- Publications and outreach
- Student Internship

Specific support as requested by the tribes (grantees):

- Ramona Band of Cahuilla
- Hualapai Nation
- Navajo Nation*
- Hopi Nation
- Laguna Pueblo*

Tribal Energy Projects* are showcased at the annual
SW Renewable Energy Conference



MOU Development with Hualapai Tribe



**MOU signing by Hualapai Chairman Charles Vaughn
& Sandia Director, Margie Tatro**

- Hualapai Tribe is implementing:
- a utility development feasibility study
 - renewable energy into their Grand Canyon West tourism development



The signing took place at the July 2006 Hualapai Tribal Council Meeting



College Student Internship Program

DOE's Tribal Energy Program offers student internships at Sandia National Laboratories.

Eligibility: Current college upper-classmen and graduate students, who are familiar with Native American culture and tribal issues, support the Tribal Energy Program efforts with technical project tasks

Required: As authorized by the TEP, the student applicant must

- be a US Citizen
- be a Native American as defined as
 - a member of a recognized Federally-recognized Tribe, Alaska Village or Alaska Corporation
 - not state-recognized, not bands or groups, or first peoples of Guam or Hawaii
- Be specifically interested in renewable energy

Since 2003, eleven upper-classmen and graduate interns have completed the internship program.



Immersion into renewable energy projects



Interns field visit to Navajo off-grid hybrid installation

- Small Wind Workshop (NM -Tribal College)
- Large scale commercial wind farm (WY)
- Off-grid PV/Small Wind hybrid system (UT-Navajo)
- Tourism facility using RE (AZ-Hualapai)



Interns participation in Wind Energy Applications Training workshop

- On-grid PV installations (NM-Tribal College)
- Solar Power Tower (NM-Sandia Labs)
- Passive Solar business (AZ - Hopi)

The interns participated in an indigenous entrepreneurial workshop



2006 TEP/ Sandia College Interns



**Pictured at Navajo Nation - Monument Valley, UT:
Thom Sacco, Terry Battiest, Jonathan Biron, Sandra Begay-Campbell,
Lani Tsinnajinnie & Debby Tewa**

Terry Battiest (Choctaw)

MS – Telecommunications
University of Colorado – Boulder

Jonathan Biron (Sault Ste. Marie Tribe of Chippewa)

BS – Biosystems Engineering
Michigan State University

Lani Tsinnajinnie (Navajo/Filipino)

BS – Environmental Science
University of New Mexico

“...it has given me insight at what I want to do professionally in the future.”