

Exceptional service in the national interest



2012 TEP Summer Internship



Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND NO. 2011-XXXXP

Mission

...to provide financial & technical assistance to tribes through *government to government* partnerships that:

- Empower tribal leaders to make informed decisions about energy choices
- Bring renewable energy & energy efficiency options to Indian Country
- Enhance human capacity through education & training
- Improve local tribal economies & the environment
- Make a difference in the quality of life of Native Americans

Approach

- Financial Assistance
 - Renewable energy development
 - Energy consumption reduction
- Technical Assistance
 - Use of DOE's national laboratories
- Education & Training
 - Online courses
 - **Student internships**
 - Workshops

12-Week Summer Internship

- Graduate & undergraduate
 - Preference to federally recognized tribal members
 - Specific interest in renewable energy
- To support Sandia National Laboratories (SNL) in performing cross-disciplinary tasks in working with Native American tribes
- Hands-on field experiences
 - On-grid photovoltaic (PV) systems
 - Off-grid PV systems
 - Off-grid hybrid (PV & wind) systems
 - Large-scale commercial wind farm
 - Solar power tower
 - Distributed energy resource systems
 - Conferences & trainings

2012 Summer Interns

Tribal Energy Program Interns

- Nora Cata
- Colleen Cooley

Office of Indian Energy Interns

- Jessica Rodriguez
- Nikki Tulley

2012 Summer Field Visits

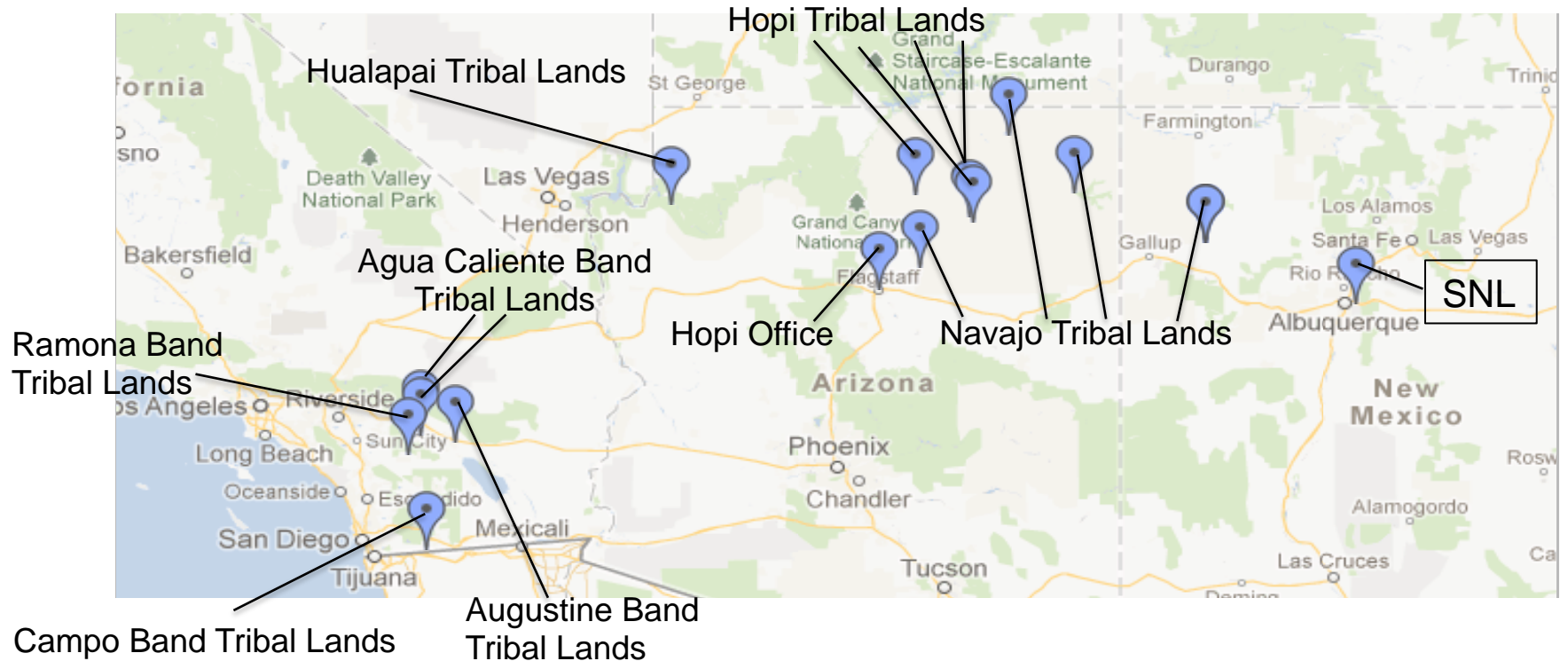




Photo by: Nikki Tulley



AZ Tribal Solar Tour

- Navajo
 - Solar powered & energy efficient office building
 - Utility issued off grid residential hybrid systems
 - Non-profit issued off grid residential PV systems
- Hopi
 - Private off grid residential PV systems
- Hualapai
 - Off grid small scale commercial PV system

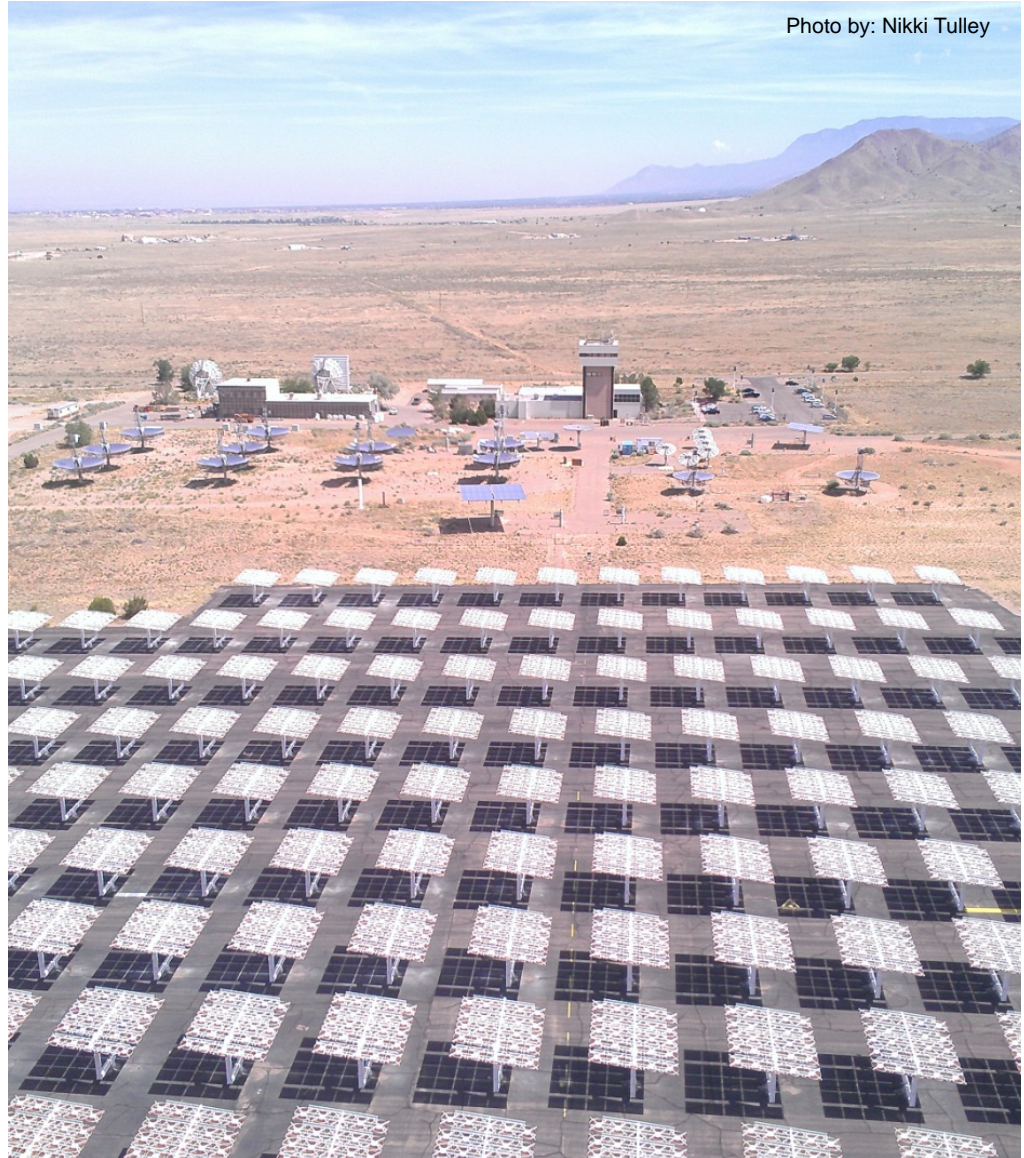


Photo by: Derrick Terry

Photo by: Nikki Tulley

SNL Site Visits

- Government Relations
 - Tribal liaison
- Microsystems Engineering & Science Applications
 - Solar glitter
- Wind Energy Technologies
 - Battery storage
 - Power electronics
- Concentrating Solar Technologies
 - Solar Tower
 - Concentrated solar heat
- Distributed Energy Technologies Laboratory
 - Photovoltaic energy



Strategic Planning Training & Session

- Kabotie Consulting
- 2-day training session
- Hopi Tribe
 - 3-day planning session

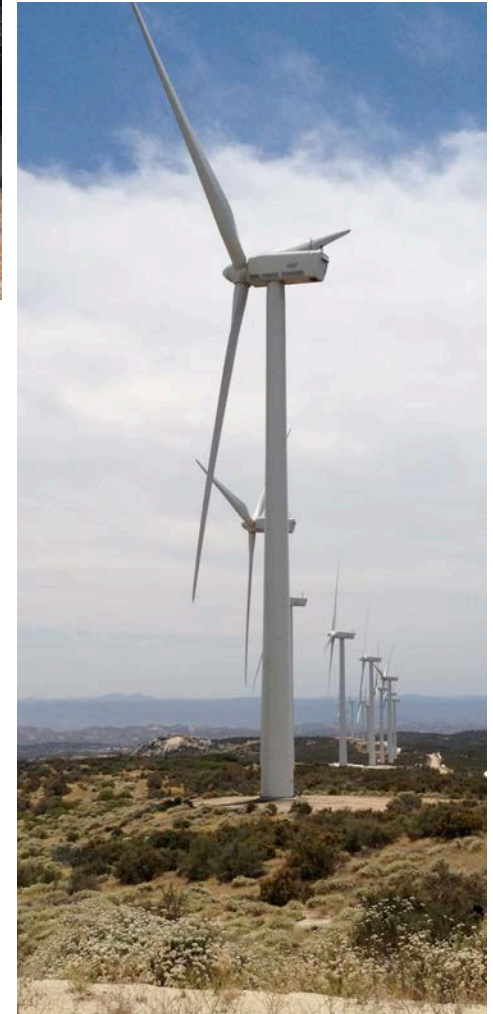


Source: Technology of Participation by
Cultural Affairs – Chicago, IL



CA Tribal Solar & Wind Tour

- Ramona Band of Cahuilla Indians
 - Ecotourism facility
- Agua Caliente Band of Cahuilla Indians
 - Solar powered trading post
- Augustine Band of Cahuilla Indians
 - Solar powered casino
- Campo Band of Mission Indians
 - Large scale wind farm



NTUA-Crownpoint Grand Opening

- LEED Platinum office building
- Two 34.5 kW SunCarrier PV systems
- Funded by Department of Energy's EERE Block Grant & United States Department of Agriculture

