



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

Tribal Energy Program

Renewable Energy Development on Tribal Lands

Sandra Begay-Campbell
Principal Member of the Technical Staff



Renewable Energy Resources





Renewable Energy Technologies





DOE's Tribal Energy Program

Tribal Energy Program

“Indian land comprises 5% of the land area of the United States, but contains an estimated 10% of all energy resources in the United States”

“Wind resources in the Great Plains could meet 75% of the electricity demand in the contiguous 48 states.” (Native American Energy Development and Self-Determination Act of 2003)

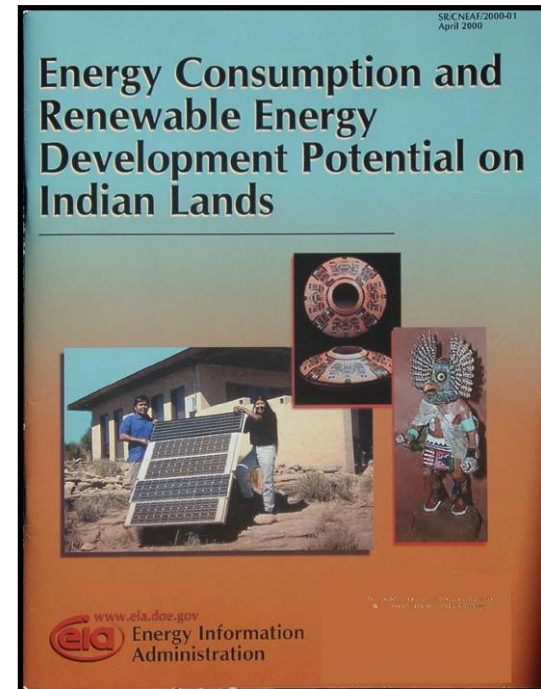




DOE's Tribal Energy Program

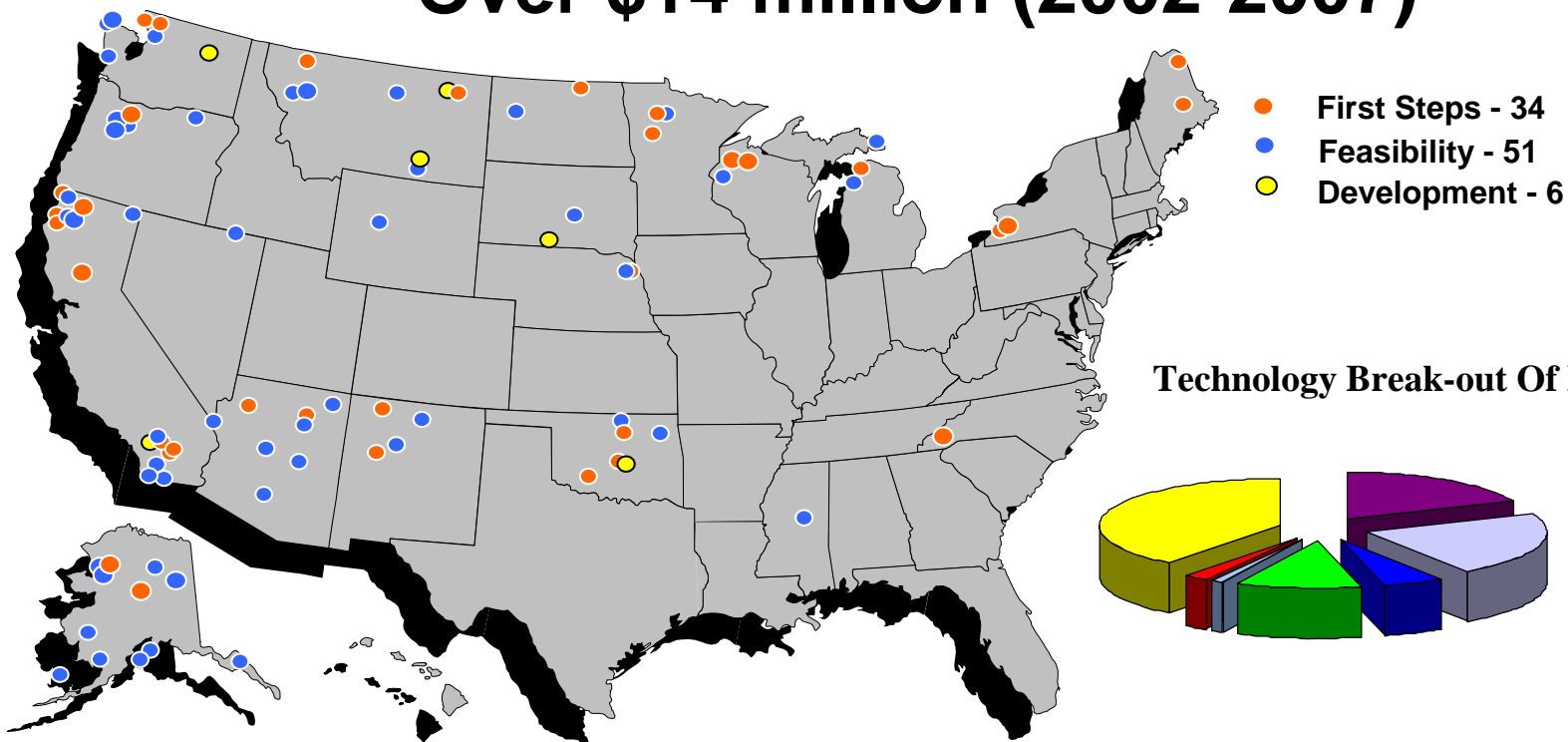
Tribal Energy Program

“Indian households on reservations are disproportionately without electricity. A total of 14.2% of Indian households have no access to electricity, as compared to only 1.4% of all U.S. households.” Navajo accounts for 75% of the households without electricity (2000 EIA Report)

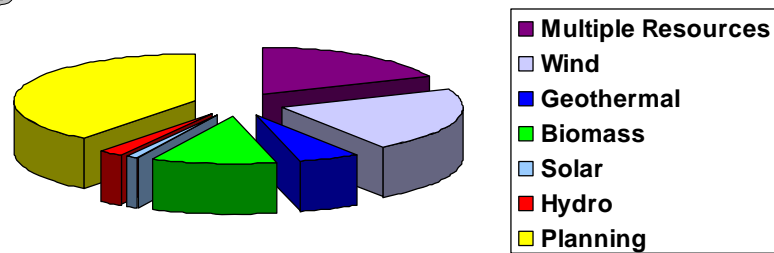




91 tribal energy projects totaling Over \$14 million (2002-2007)



Technology Break-out Of Funded Projects



Tribes cost-shared \$4.1 million



Sandia National Laboratories

- **Support Tribal Energy Program Activities**
- **Manage the Student Internship Program**
- **Support Tribal requests via MOUs**
 - Navajo
 - Hualapai



Sandia National Laboratory in Albuquerque, New Mexico



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



Sandia National Laboratories



Energy Policy Act (EPAct) signed at Sandia



Sandia showcased its energy future vision for the White House guests

- The Tribal Energy Section of the Energy Act was a part of the presentation
- Several tribal leaders were invited by the White House to attend the ceremony

President Bush signed the Energy Policy Act in 2005



Sandia's technical assistance to tribes



Field Visit to Ramona Ecotourism Center

As part of the DOE Tribal Energy Program team, Sandia's activities & responsibilities include:

- 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
DOE TEP Project Review



Ramona Ecotourism Center





Immersion of future leaders into renewable energy



Sandia/TEP interns on Navajo Nation

Pictured left in the following order:

Gepetta Billie (Navajo)

MS – Regional & Community Planning, BA –
Environmental Planning & Design

University of New Mexico

AS – Civil Engineering Technology, SIPI

Amanda Montoya (Taos, San Juan & Isleta)

MS – Regional & Community Planning, University of
New Mexico

BA – Business Administration, NM State University

Carson Pete (Navajo)

MS – Mechanical Engineering, BS – Mechanical
Engineering

Northern Arizona University

Suzanne Singer (Navajo)

PhD – Mechanical Engineering, MS – Mechanical
Engineering

University of CA - Berkeley

BS – Mechanical Engineering, University of AZ