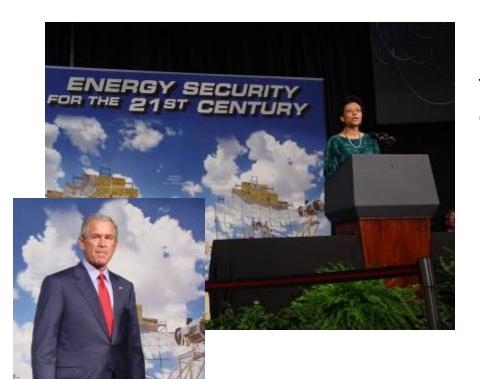
Sandia National Laboratories' Technical Assistance DOE Tribal Energy Program

Sandra Begay-Campbell
Principal Member of the Technical Staff





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





Sandia's technical assistance to Navajo Nation



Navajo delegation included Tribal Council members and tribal staff

Navajo Nation is implementing a wind feasibility study

Navajo Nation delegates toured the New Mexico Wind Center

The tour was a partnership between

- Sandia National Labs
- Navajo Tribal Utility Authority
- Public Service Co. of NM
 - Florida Power & Light

Guests included

- DOE's Native American Wind Powering America program
- Crownpoint Institute of Technology students & instructors

The tour included a visit to the NM Bosque Redondo State Monument



Leveraging other DOE technology programs



Field Visit to Navajo Tribal Utility Authority PV system – Monument Valley, UT

Sandia & TEP leverages support from DOE's Solar Program & Wind Powering America Program

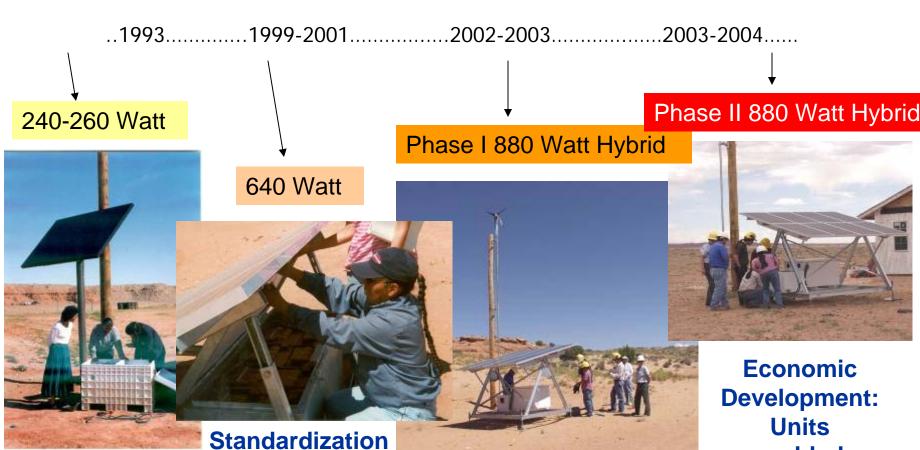
- Research for the DOE Reliability Database for Off-grid residential O&M
- Outreach participation for Arizona tribal wind interest groups

U.S. Department of Energy
PHOTOVOLTAICS





NTUA's Technical Changes



Business potential realized

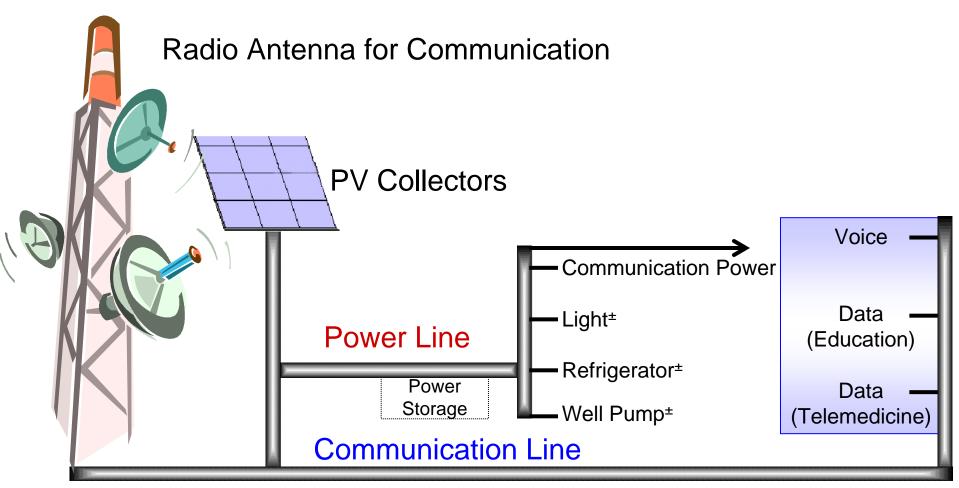
achieved

Battery bank powered by hybrid design

assembled on **Navajo Nation**

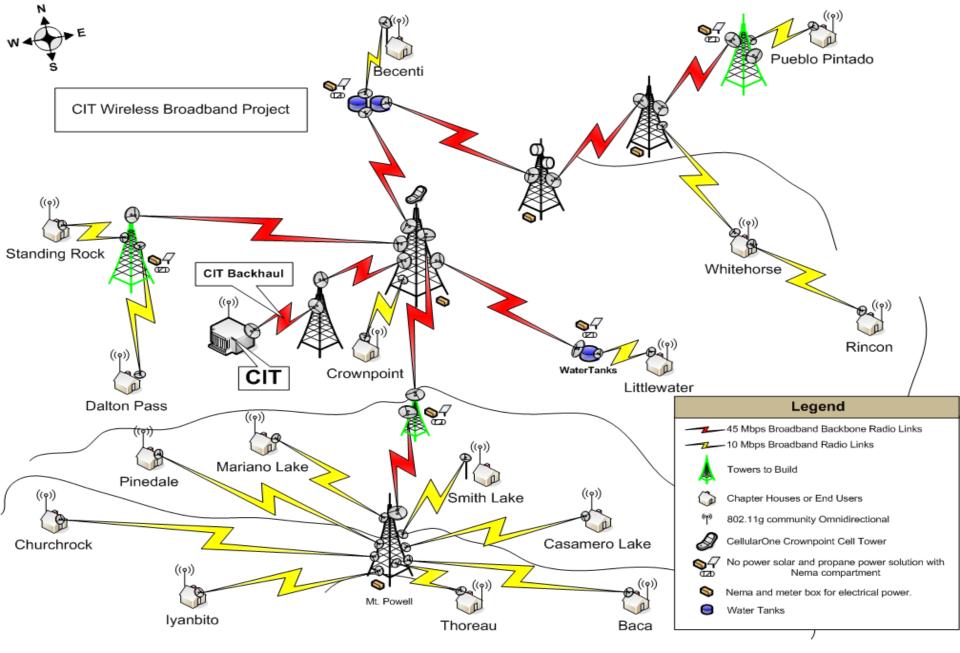


Integrated Systems Schematic for Off-Grid Use



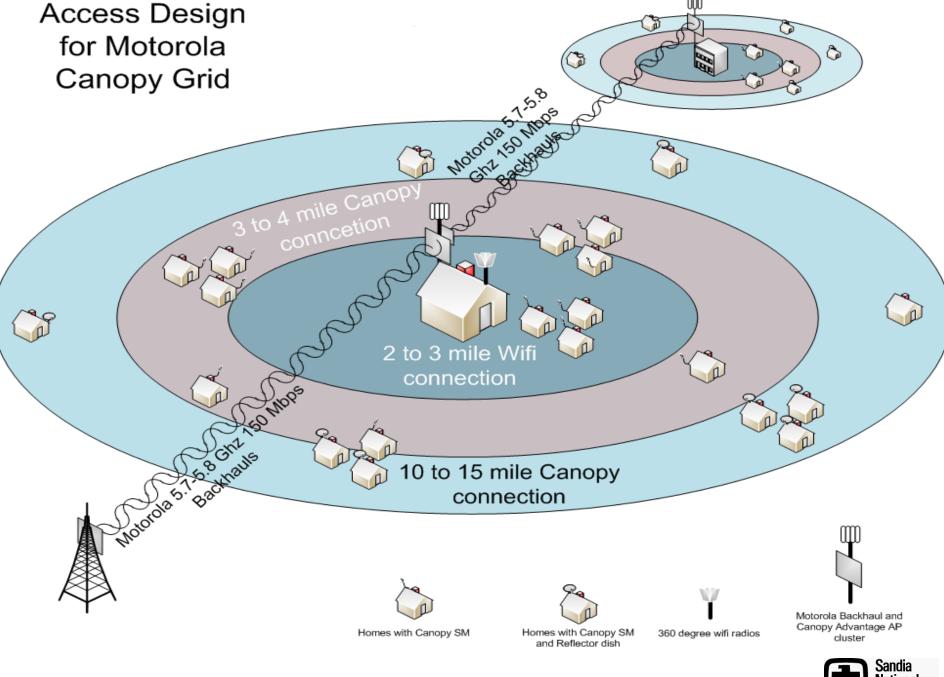














2007 TEP/ Sandia College Interns



Pictured left to right:
Debby Tewa, Thom Sacco
Cherylin Wilson, Nick Johnson & Terry Battiest

Terry Battiest (Choctaw)

MS – Telecommunications University of Colorado – Boulder

Nick Johnson (Three Affiliated Tribes)

BS – Mechanical Engineering University of Colorado - Denver

Cherylin Wilson (Navajo)

BS – Biology Oklahoma Panhandle University AS - Environmental Science



2007 TEP/ Sandia College Interns





Nick Johnson, Sandra Begay-Campbell & Terry Battiest at Campo Wind Farm, San Diego County

