



**New Mexico Renewable Energy Project Development and Finance Workshop
AGENDA
July 28–29, 2015**

**Pueblo Cultural Center
2401 12th Street Northwest
Albuquerque, NM 87104**

Learning Objectives

- 1) Understand the process for and potential pitfalls of developing and financing community- and facility-scale renewable energy projects
- 2) Discover how the development of a renewable energy project can further tribal goals
- 3) Learn from the experience of other Tribes that have undertaken renewable energy development efforts.

Anticipated Results: Attendees will be comfortable discussing renewable energy project development possibilities with project developers and project financing options with potential investors. Potential tribal roles will be clear and participants will better understand the five-step project development and financing process.

What to Do Ahead of Time:

- Email your Tribe's strategic energy plan (if available) to tribalworkshops@nrel.gov
- Email available relevant background and information on existing or planned renewable energy projects to tribalworkshops@nrel.gov
- Be prepared to identify and share with the group your primary reasons for coming/what you hope to get out of the training
- Consider whether your project would benefit from up to 40 hours of technical assistance from DOE. Learn more about it here: www.energy.gov/indianenergy/technical-assistance. If interested, bring an outline defining the type(s) of assistance you need. We will have technical assistance experts from DOE's National Renewable Energy Laboratory (NREL) on hand who can explain the various offerings, talk through what might make the most sense for your project, and sign you up onsite!

What to Bring to the Workshop:

Bring your laptop so you can connect with NREL technical experts in Colorado (please be sure you have Skype installed) and download and use online tools and models and tools to complete workshop exercises.



Day 1 – Tuesday, July 28, 2015

Time	Topic	Speaker/Activity
7:30–8:00 a.m.	Registration and Networking (Light breakfast provided)	
8:00–8:30 a.m.	Welcome	Sarai Geary, Program Manager, DOE Office of Indian Energy Policy and Programs Chris Deschene, Director, DOE Office of Indian Energy Policy and Programs Introductions around the room
8:30–8:45 a.m.	Workshop Overview	Jason Coughlin, NREL
8:45 - 9:00 a.m.	Break and Networking	
9:00–10:00 a.m.	Strategic Energy Planning	Sandra Begay, Sandia National Laboratories Strategic Energy Planning Handbook Walkthrough Activity 1: Identify Key Stakeholders Activity 2: Strategic Energy Planning Key Questions/Considerations Objective: Understand which key stakeholders should be involved and some key questions to consider when developing a strategic energy plan.
10:00–10:15 a.m.	Break and Networking	Video–DOE Energy 101: Geothermal Heat Pumps https://www.youtube.com/watch?v=y_ZGBhy48YI&list=PLACD8E92715335CB2&index=18
10:15 – 10:45 a.m.	Case in Point Guest Speaker	SEP Case in Point LeVon Thomas, a project developer for Citizen’s Energy, will discuss the Dine’ 500MW wind project that was postponed in Arizona due to an absence of stakeholder engagement and a Strategic Energy Plan.
10:45 a.m.–11:15 p.m.	Case in Point Guest Speaker	SEP Case in Point Picuris Pueblo –Darian Cabral of North Pueblo Housing Authority: Picuris has an excellent SEP plan and is the first 100% Solar Powered Pueblo.
11:15–12:00 p.m.	Technology Overview – Solar PV, Solar Thermal, Concentrated Solar Power (CSP), Geothermal, Hydroelectricity	Sherry Stout – NREL Technology Videos from Energy.gov
12:00–1:00 p.m.	Lunch	Lunch is provided on site.



1:00 p.m. - 1:30	Technology Overview Continued	Sherry Stout -- NREL
1:30-2:30 p.m.	Five step Project Development Process	Exercise: Renewable Energy Site Identification Objective: Use maps to work through the steps involved in evaluating resource conditions for a potential renewable energy project site.
2:30-2:45 p.m.	Break and Networking (Refreshments)	Video--DOE Energy 101: Solar https://www.youtube.com/watch?v=OelhcPvtKE&index=15&list=PLACD8E92715335CB2
2:45-3:15 p.m.	Pueblo of Zia Panel	Former Governor of Pueblo of Zia - Peter Pino Loren Toole of LANL Jai Lakshman of Native Development Associates, Inc. Jai worked with Pueblo of Zia on the 2012 DOE Tribal Energy Program Project.
3:15-3:30 p.m.	<i>Evaluations -Please Turn in</i> And site visit transportation	Van Pool to meet at Hotel, leaving at 3:30
3:30-4:30 p.m.	Tour of Sacred Power Manufacturing	Odes Armijo-Caster will lead us to the facility of this manufacturer of renewable energy kits.
4:30 - 4:45 p.m.	Van Returns to Hotel	Evaluations Please



Day 2 – Wednesday, July 29, 2015

Time	Topic	Speaker/Activity
7:30–8:00 a.m.	Coffee and Networking (Light breakfast provided)	
8:00 -9:00	Financing Renewables	Jason Coughlin, NREL
9:00 – 9:45 a.m.	Guest Speaker	Ann Maria Chischilly, ED at the Institute for Tribal Environmental Professionals (ITEP) in Flagstaff, Arizona. She will speak on the “Tribal Clean Energy Resource Center she established, and on the Tribal Solar Working Group.
9:45 - 10:00 a.m.	Break and Networking	
10:00–10:45 a.m.	Levelized Cost of Energy (LCOE) and System Advisor Model (SAM)	Jason Coughlin and Sherry Stout– NREL Tools for estimating project costs.
10:45–11:00 a.m.	Break and Networking	
11:00–11:30 a.m.	Guest Speaker	Nick Riedel, President of Engineers without Borders, Albuquerque Chapter He will speak on the Navajo Solar PV and Solar Thermal Projects he has been involved in since 2013.
11:30–11:45 a.m.	Break and Evaluations	Please fill out Workshop Evaluation, located in the last tab of the workbook
11:45 a.m.– 12:00 p.m.	Technical Assistance Portal	Sherry Stout, NREL
12:00–1:00 p.m.	Lunch (Provided) and Networking	Video–DOE Women In STEM: Suzanne Singer, Lawrence Livermore National Laboratory https://www.youtube.com/watch?v=Lg9BY_9N_VI
1:00–1:30 p.m.	Guest Speaker	Tribal member Michael Castello will present on the Soboba Solar PV Project in California. Ali Sahabi of Optimum Group, LLC will join him in outlining the project development. The two will discuss how the Soboba Band of Luiseno Indians (of Cahuilla and Luiseno ancestry) were able to bring a 1-megawatt solar PV project to fruition within one year.
1:30–1:45 p.m.	Break and Networking Collect Evaluations	Video–DOE Energy 101: Energy Efficient Commercial Buildings https://www.youtube.com/watch?v=5VMXL3IEYTI&list=PLACD8E92715335CB2&index=4
1:45–2:30 p.m.	Getting the right people to build It: Procurement Activity	Jason Coughlin, NREL Activity: Request for Proposal (RFP) Ranking Objective: Identify values, risks, and other criteria that should be used in evaluating an EPC – Energy Procurement and Construction RFP response.



2:30 – 2:45 p.m.	Break and Networking (Refreshments provided)	Evaluations
2:45–3:45 p.m.	Workshop overview of Strategic Energy Planning and The Five-Step Project Development Process	Jason Coughlin and Sherry Stout- NREL Where are you in Strategic Energy Planning? How can you apply the five-step project development steps to your next project? What are your next steps?
3:45–4:00 p.m.	Evaluations	Break and please fill out workshop evaluations.
4:00–4:30 p.m.	Wrap-Up and Activity	Activity: Jeopardy!

