

Energy Efficiency & Renewable Energy for Tribal Community Development

DOE Tribal EECBG Regional Workshop Outline
Principal Instructor: Roger Taylor, NREL

Tuesday

- 7:30 Registration, Continental Breakfast
- 8:30 **Opening & Introductions**
Meet the DOE Tribal program staff working on your grant.
- 9:00 **The Global and U.S. Energy Picture.** The coming energy transformation. Why a focus on community energy development is increasingly important at this time.
- 9:30 **Community Energy vs Commercial Energy.** What is Community Energy? The value of local energy self-reliance and the elements of community energy planning and development. Building from your EECBG activities.
- 9:45 **EECBG Project Officer Presentation.** Tribal recipient introductions. Tribal EECBG grant recipients to identify issues—what would you like to discuss during this planning session? DOE organization, latest EECBG Program information.
- 10:00 **Break**
- 10:20 **Geography of Strategic Energy Planning (*Activity 1 – Developing an EECS*)**
A working session focused on self-identification of current energy use baseline and energy vision for the next generation.
- 10:45 **Presentation of Tribal maps**
- 11:30 **Developing an Energy Vision**
- 12:00 **Lunch**
- 1:00 **Tribal Case Studies I.** Hear what tribes in your region are doing. Tribal representatives to present.

- 1:45 **Moving the Baseline.** (*Activity 3 – Energy Audits; Activity – 5 EE Retrofits; Activity 6 – EE & Conservation for Buildings & Facilities*) Residential and commercial building energy audits. Current energy providers. Local energy supply options. Forecasts—how is your community energy demand going to change in the future?
- 2:15 **Energy Terminology.** Understanding the language of energy: basic energy terms (kilowatt, kilowatt-hour, BTU, Therm, etc.)
- 2:45 **Energy Efficiency and Building Options.** (*Activity 8 – Building Codes*) Cost savings through building codes and quality construction, including new construction and retrofit of existing buildings.
- 3:15 **Break**
- 3:45 **Energy & Transportation** (*Activity 7 – Transportation Programs; Activity 12 – Traffic signals & Street Lighting*)
- 4:15 **Assessing Your Renewable Energy Resources.** Your local solar, wind, geothermal, hydro, and biomass energy options.
- 5:00 **Adjourn**

Wednesday

- 7:30 **Continental Breakfast**
- 8:30 **Community-Scale Energy Options I** (*Activity 9 – Distributed Energy; Activity 13 – RE on Government Buildings*)
Solar electric and hot water
Geothermal heating and power
Community-scale wind
- 10:00 **Break**
- 10:30 **Tribal Case Studies II** Hear what tribes in your region are doing.
Tribal representatives to present.
- 12:00 **Lunch**
- 1:00 **EECBG Requirements Regarding Buy American and Davis Bacon**
DOE Headquarters staff to present.
- 2:00 **Community-Scale Energy Options II**
Biomass applications for community power and heat, landfill methane reduction (Activity 11).
Material conservation/recycling (Activity 10);
Small hydropower

- 3:00 **Analytic Tools** – Individual RE technologies (RETScreen)
- 3:30 **Project Development & Financing** (*Activity 4 – Financial Incentive Programs*) *Revolving loans, performance contracting, utility financing.*
- 5:00 **Adjourn**

Thursday

- 7:30 **Continental Breakfast**
- 8:30 **Tribal Community Strategic Energy Planning – II.** This session will focus on tying together the pieces of the puzzle into a more coherent picture. Every tribal community and region is unique and has a different starting point. Getting outside help (*Activity 2 – Technical Consulting Services*)

What are the opportunities? What will it cost?
What are the priorities? What are the next steps?
Who’s going to do what? By when?
Who’s going to pull the pieces together?
Who’s your Tribal Energy Champion?

What is your vision, given what you now know, and what will be your next steps?

- 10:00 **Break**
- Tribal Breakout Session I** Discussion of EECBG grants, where are you in your EECBG implementation? Challenges, successes, value of the program to the tribal community. Projects currently in the pipeline or completed. New project opportunities.

- 12:00 **Lunch**
- 1:00 **Final Group Discussion: Key policy challenges**
(e.g., working with regional electric utilities,
developing tribal businesses and program,
new business options, jobs creation)

Break

- 3:00 **Tribal Breakout Session II** - Generating a Strategic Energy Plan: next
- 3:30 steps when you get home
- Adjourn**

5:00