DOE OFFICE OF INDIAN ENERGY

Introduction to Developing and Financing Renewable Energy Projects on Tribal Lands





Review of Workshop Structure

- Introduction
- Five-Step Development Process
- "Office Hours" for detailed technical assistance/Q&A on your specific projects

Agenda Walk-Through; Use of the Workbook

- Strategic Energy Planning
- Step 1: Project Potential
- Step 2: Project Options
- Step 3: Project Refinement
- Step 4: Project Implementation
- Step 5: Operations & Maintenance (O&M)
- Jeopardy!

Note: See the workbook for resources, further work, etc. at the end of each section of the agenda.



Why Complete a Renewable Energy Project?

Economic

- Jobs
- Income
- Cost savings
- Cost stabilization
- Industry exposure

Social

- Energy reliability (diversification)
- Energy independence
- Quality of life
- Community and stakeholder participation
- Educational Benefits

Environment

- Air Quality
- Avoided Emissions
- Climate change
 - Mitigation
 - Adaptation
 - Resiliency
 - Demonstrated Environmental Leadership

Benefits vary based on the type and scale of projects



Why Complete a Renewable Energy Project? cont.

- Considering long-term costs of finite resources will more than likely continue to increase, the opportunity to reinvest cost savings locally can be realized.
- Other examples of reinvestments (such as housing support)?*

^{*} These will vary depending on project scale.

Terminology: Project Scale



Facility: single-building system

Primary goals: offset building energy use, costs Development timeline: 1 month to 1 year



NC Solar Center, NREL 09373

Community: multiple buildings/campus

Primary goals: Offset community energy costs, promote energy self-sufficiency Development timeline: 6 months to 2 years



Commercial: stand-alone project

Primary goals: sale of power generation,

financial benefits

Development timeline: 3 to 5 years



Determining Project Scale

Facility-Scale

- Available, Tribe-controlled, appropriate location and ownership options
- Lower capital investment and overall risk
- Opportunity to gain experience with renewables before doing a larger-scale project
- Increased self-sufficiency, offset utility electricity costs
- Cost certainty
- Visual impact
- Reduced environmental impact
- Diversification of energy supply with local, renewable sources

Community-Scale

- Available, Tribe-controlled, appropriate location and ownership
- Greater impact on community (good or bad)
- Offset community electricity costs (primary use is on-site)
- Minimized environmental impact
- Diversification of energy supply with local, renewable sources
- Reduced energy off-taker complexities
- Smaller capital requirements
- Job development (construction and maintenance)
- Self-sufficiency, pride



Attendee Introductions

- What is your name, tribal affiliation, and role in your Tribe?
- What are the primary objectives you have for being here?
- Do you have any examples of a renewable energy project your Tribe has worked on or is considering?
- Are there challenges and/or successes you can share?