Community Energy Projects: Finding and Developing the Right Projects

Partnering with rural communities to make public health services more affordable by reducing energy costs

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Typical Project Types and Costs

- Energy Efficiency, RM, Optimizing Existing Systems ➢ $25k-$1M+
- Wind-to-Heat ➢ $400k-$700k+
- Heat Recovery, Biomass ➢ $750k-$1.4M
- Community Solar + Battery ➢ $2M-$2.5M+
- Community Wind + Battery ➢ $3M-$10M
Choosing and Developing a Project

1. Quick Renewable Readiness Assessment
2. Preliminary Modeling and Economic Analysis
3. Strategic Energy Plan
4. Pre-Feasibility Report
5. Apply for Funding

- Project Construction
  - Own, Operate, Maintain, Earn, Re-invest
  - Design, Cost Estimate
  - Full Feasibility Report

- Full Feasibility Report
- Apply for Funding
Renewable Readiness Assessment

Rubric used to evaluate community fit for high penetration renewable project, guide regional planning

Factors Considered:

• **Community interest/engagement, admin capacity**
• **Size of diesel load**
• **Fuel cost (avoided fuel cost)**
• Distressed community status
• Potential for IPP
• Power system, controls status
• Infrastructure Management Support
• Existing system % renewables
Preliminary Modeling

Enter in:
- Load
- Component Tech Specs
- Resource Data
- Costs

Get Out:
- Estimated Renewable Contribution
- Estimated Fuel Offset
- Economic Benefit
- Pre-Feasibility Level Report and/or info for Strategic Energy Plan
Choosing and Developing a Project

Quick Renewable Readiness Assessment → Preliminary Modeling and Economic Analysis

DOE – Office of Indian Energy Technical Assistance Program

Strategic Energy Plan
Pre-Feasibility Report
Apply for Funding

Apply for Funding

DOE – Office of Indian Energy Technical Assistance Program
Support is available now for:

- Identifying the right energy project for your community
- Initial stages of development, energy planning
- Creating technical documentation needing for funding app
- Applying for funding

Leverage available support to access current and near future funding opportunities

- If energy is a priority for your communities, engage support ASAP to take advantage of unique funding environment

Thank you!

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