Jicarilla Apache First Steps Project
Renewable Energy & Energy Efficiency Strategic Planning

Jicarilla Apache Utility Authority

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Presentation Outline

- Location & Basic Facts
- The Jicarilla Apache Utility Authority
- First Steps Project highlights
Location & Basic Facts

• Population ~ 3,500
• Electric Load ~ 4.5 MW
• Two coops
  – North – Northern Rio Arriba (NORA)
  – South – Jemez Mountain (JMEC)

• Significant oil & gas development
• One prior PV demonstration project
Jicarilla Apache Utility Authority

• Established in 1998
• Primarily focused on water & gas, so far
• Strong focus on building institutional capacity
• Significant accomplishments:
  – Water & wastewater treatment
  – Water resource management
  – Gas service
  – Gas well buy back VPP deal
  – Low income tax credit housing
PV Demonstration – 2000 to 2002
First Steps Project

- Phase 1 – Baseline Assessment
- **Phase 2 – Plan Development**
- Phase 3 – Project Development

- Partners & Consultants
  - JAUA
  - Jicarilla Apache Nation
  - HARC
  - DEA
Objectives & Questions to Answer

• A comprehensive strategic plan that prioritizes opportunities for maximizing the potential of RE & EE on the Jicarilla Apache Nation Reservation (and beyond)

• Resource quality
• Promising technologies
• Economic development opportunities
• Integrated solutions
Initially Identified Resources

- Solar
- Biomass
- Geothermal
- Small wind
- Energy efficiency
Preliminary Findings

• Large wind not promising
• Electric system data lacking; local coops lack expertise, confidence and enthusiasm
• “We already studied that” – but we can’t find the report
• Feasibility studies will be required
• Most promising opportunities are small in scale
• Distributed generation may offer multiple benefits
• Not likely that the Jicarilla Apache Nation will go “off the grid” anytime soon
Initial Stakeholder Meeting

- Strong interest & good participation
- Anecdotal information about remote PV
- Coops concerned that Jicarilla Apache Nation would consider self-generation
- Several agencies with supporting capabilities:
  - IRMP
  - Forestry
  - Housing
  - Public works (buildings)
  - Oil & gas
Thank You!

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Jicarilla Apache Utility Authority

Government of the Jicarilla Apache Nation