Santo Domingo Pueblo

- Pueblo located along Rio Grande River, between Santa Fe and Albuquerque, NM
- Home to ~ 5,000 residents
- Conservative tribe that holds closely to customs and cultural values
- Increasing governmental capacity and pursuing economic opportunities
More than 800 acres of tribal Trust lands rich with solar energy potential and ready access to regional energy markets

- Major power lines on and adjacent to the Tribe’s lands

- Insolation
  - Average: 6.33 kWh/m²/day
  - Averages 250 days of sunshine a year
Tribe’s Energy Objectives

Energy Security
Economic Development
Environmental Stewardship

- Next step in Tribe’s energy vision
  - Tribe’s 1st renewable energy project
  - Model for tribe and neighboring tribes

- Future Goals
  - Supply renewable power to all tribal buildings and residences
  - Commercial scale development of renewables
  - Expand Tribal Utility to supply electricity
- 115 kW DC Photovoltaic System
- Ground mounted
- $420,000 Estimated Total Project Cost
- ~ 0.5 acres in size
- 2 year project
  - Year 1 = installation
  - Year 2 = verification
- Produce ~ 200,000 kWh/year
Site Details

- Water Pump and Treatment Facility
  - Sole provider of water to Pueblo and its 5,000 residents
  - 1 pump house, 2 water pumps, and 1 water tower
  - Operates year round
  - Remote location with grid connection
  - No shade or other development in area
Project Benefits

- Annual energy offset:
  - ~ 80%
- Annual cost savings:
  - ~ 35%
- Reduce CO$_2$ emissions by 2.4 million lbs/year
- Tribal jobs and training
Funding
- 50% grant from DOE
- 50% match by Tribe

Incentive Programs
- RECS:
  - $0.045/kWh
  - 8 year contract with PNM
- Net-metering

Estimated pay-off within 6 years
PROJECT STATUS

Design
Installation
Verification

- March 2015:
  - Project Selected for Award under DOE Deployment Grant

- April 2015:
  - NEPA Review complete

- Next step:
  - Select design and installation firm
PROJECT TEAM

- Owner/Operator:
  - Santo Domingo Pueblo
- Technical Consultant:
  - Environment International Ltd.
- Review and Oversight:
  - U.S. Department of Energy EERE Tribal Energy Program
- Design & Implementation
  - TBD
Thank you to the U.S. DOE EERE Tribal Energy Program

- Without EERE matching funding, this project would not be possible.

- The project offers significant economic benefits to the tribe and substantial environmental benefits.
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