The Tonto Apache Tribe

Presents:

The Department of Energy (DOE) 2014/2015 Renewable Energy Grant Project “New Build”

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Principal, SRS
Presentation Outline

- Summary of Current Project Objectives
- Progress to date
- Timelines and goals
- Future Projects
- Next Steps
Summary of Project Objectives

- Grant Program compliance
- Tribal Council Communications
- Budgets and Timelines (Updated Budget = $779,993) & (1 YEAR)
- Energy modeling and technical support
- Design and Engineering
- Equipment Procurement
- Mobilization and staffing
- Proactive Project Management
- Interconnection
- Operations, Maintenance, and Asset Management long term
Progress to Date

- Pre Engineering and technical support
- Energy modeling and systems sizes
- Grant Response
- Utility bill analysis
- Budget Verification Process

2014 Department of Energy Renewable Energy Grant Program
Timelines & Goals

- Grant Compliance
- Budget Verification Process
- Construction Schedule
- Offset & savings goals:
  - The Smoke Shop – 100kW PV (85% bill offset)
  - The Water Treatment Plant – 66kW PV (85% bill offset)
  - The East Water Tower – 5kW (80%)
  - The GYM Pool – 40 Collectors (48% offset of Propane bill)
PRE-ENGINEERING: Systems and layouts @ Smoke Shop 100kW (Option B)

SMOKE SHOP: OPTION "B"
MODULES 250W X 400 / TOTAL DC KW = 100.0

66kW located just south

(264) Renesola 156 series (250 watts)
TOTAL = 66kw DC

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PRE ENGINEERING: Systems and layouts @ Water Treatment Plant 66kW (Option C only)
Includes LED Lighting

WATER TREATMENT: OPTION "B" AND "C"
MODULES 250W x 400 / TOTAL DC KW = 66.0

2014 Department of Energy Renewable Energy Grant Program
PRE ENGINEERING: Systems Layouts @ East Water Tower 5kW

(20) Renesola 156 series (250 watts)
TOTAL = 5kw DC

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PRE ENGINEERING: Systems Layout @ GYM POOL 40 Collectors

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Future Projects

• Casino energy efficiency – Large Community Scale
• LED/Energy Efficient Lighting casino and tribal offices (exterior and interior)
• Casino Photovoltaics
• Casino Thermal – Hotel and indoor pool
Next Steps

- Final Budget Verification
- Contracts
- Full Design and Engineering
- “Go NO Go” Bench Mark – TAT & DOE
- Notice to Proceed with Construction
- Equipment Procurement
- Utility Documentation Process and Management
- Mobilization
Closing Statements and Q&A:

THANK YOU!