

The Tonto Apache Tribe

Presents:

The Department of Energy (DOE) 2014 Renewable Energy Grant Presentation



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Grant Developer, TAT
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Principal's, SRS



Presentation Outline

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



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Overview of the Tribe: TAT

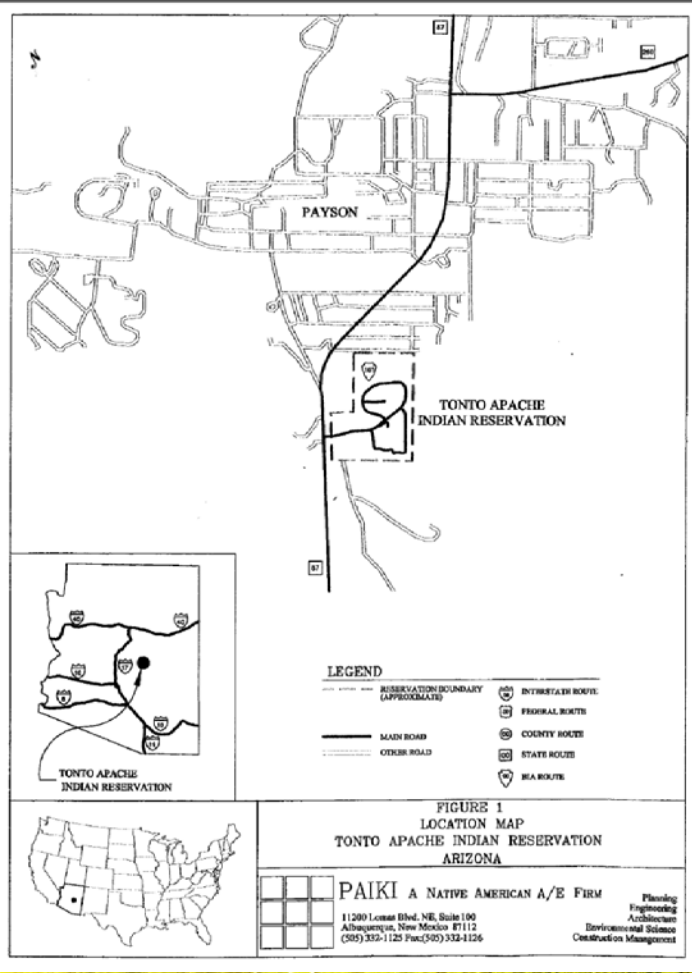
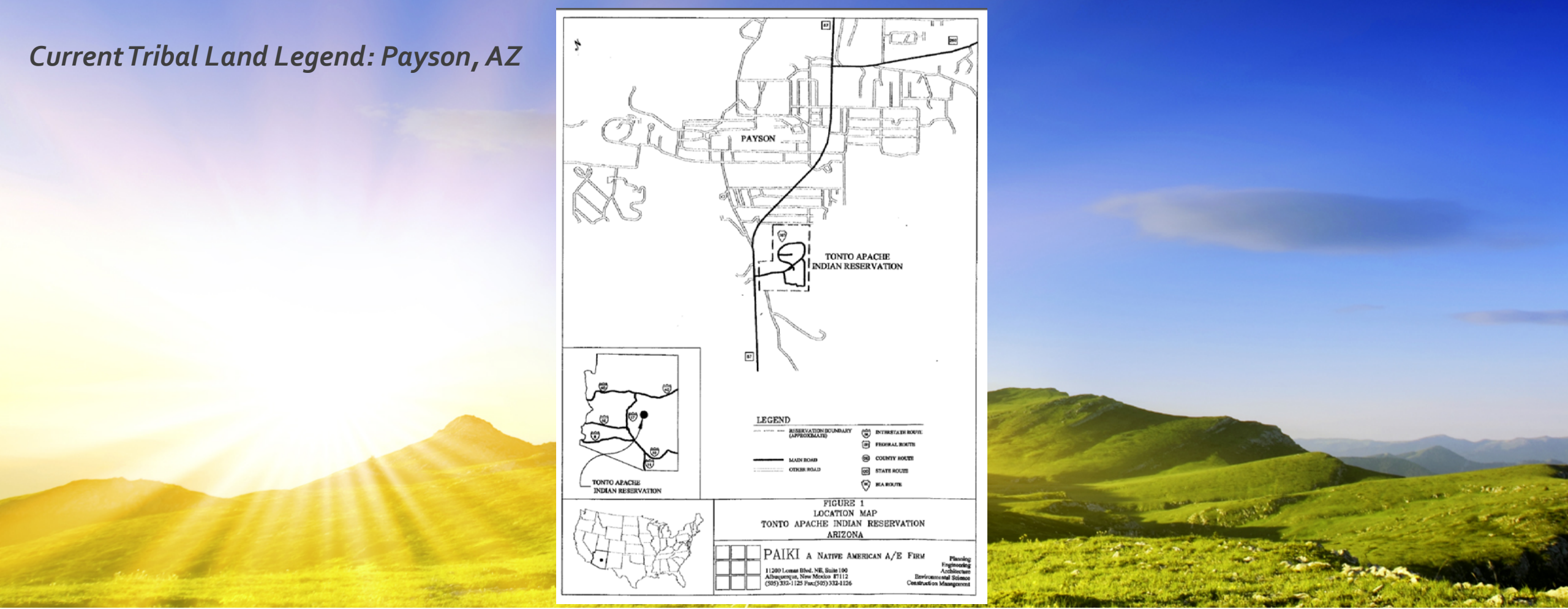
- The Tonto Apache Tribe gained Federal recognition in 1972
- The Federal Act Included 85 acres of reservation lands (Landless until 1972)
- Original Territory includes North Central Arizona (Mogollon Rim & surrounding areas)
- Tonto people originally settled at Rio Verde Reservation
- Tonto people relocated to San Carlos Apache Reservation & then to current location
- 20 years of reservation infrastructure development after Federal Recognition
- Residential planning & building
- Gaming and Tribal Facilities
- Long term vision – Sustainability and Residential growth



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Current Tribal Land Legend: Payson, AZ



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Tonto Apache Today

- Tribal Council Governed by 5 elected members
- Current Membership: 158 total & 140 live on the reservation
- Land Base: Original 85 acres + 293 acquired in land exchange 2010
- Economic Activities and Diversity
- Gaming: Mazatzal Hotel & Casino
- Fine Dinning & Entertainment
- Smoke Shop, Gas Station, and other activities
- Tribal Government Infrastructures
- Renewable Project Management and Development



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Community Services & Infrastructure

- Tribal Governmental Services
- Police Station and Court
- Social Services: Health Programs, Youth Programs, Educational Services
- Continued: Elder Programs, & Cultural Preservation
- Infrastructure Support: Housing, water & sewer, roads
- Community REC Center includes gymnasium, pool, play grounds
- Tribal Government Infrastructures



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Community Challenges & Goals

- Financial Stability
- Water & Resource Protection
- Develop 293 acres into usable residential and community eco-system
- Development Plan Continued:
- Comprehensive package in motion
- Revenue and Financing Mechanism
- Finalizing the plan and next steps



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Renewable Energy Project: Progress to Date

- SunRenu Solar
- Project Pre Development
- Grant Response
- Budgets
- Energy Modeling & system size
- Utility bill analysis
- Final PV system layout
- Financial impact
- Environmental Benefits



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SunRenu Solar - Companies with "Core Values"

- Turn-Key EPC Company with a vertically integrated offering (Focused on Non-Profit Organizations)
- Renewable Energy Specific – Photovoltaic, Solar Thermal, LED/Efficient Lighting, Sustainability
- Turn-Key EPC Company with a vertically integrated offering
- (EPC) Engineering, Procurement, & Construction
- 6 + Years of Tenure in the Renewable Energy Market
- NABCEP Certification (National American Board of Energy Practitioners) GOLD STANDARD
- Financing – We excel here with Equipment Leasing, PPA's, SSA's, (RE3 Capital, sister company)
- Operations & Maintenance – Monitoring, uptime support, proactive maintenance, reporting
- Licensing Qualifications – ROC/K-B2 (GC Commercial) ROC/K-11 (Commercial Electrical) ROC/K-77 (Commercial Solar Thermal/Plumbing)

"We do more good, than just good business"



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Project Pre Development

- System Renderings
- Final PV System Layout
- Budgets
- Meter Impact and Production
- System Components and Equipment
- Onsite Electrical and Structural Analysis
- Tribal Council Approval Process



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Renderings 1: Total & Tribal Offices



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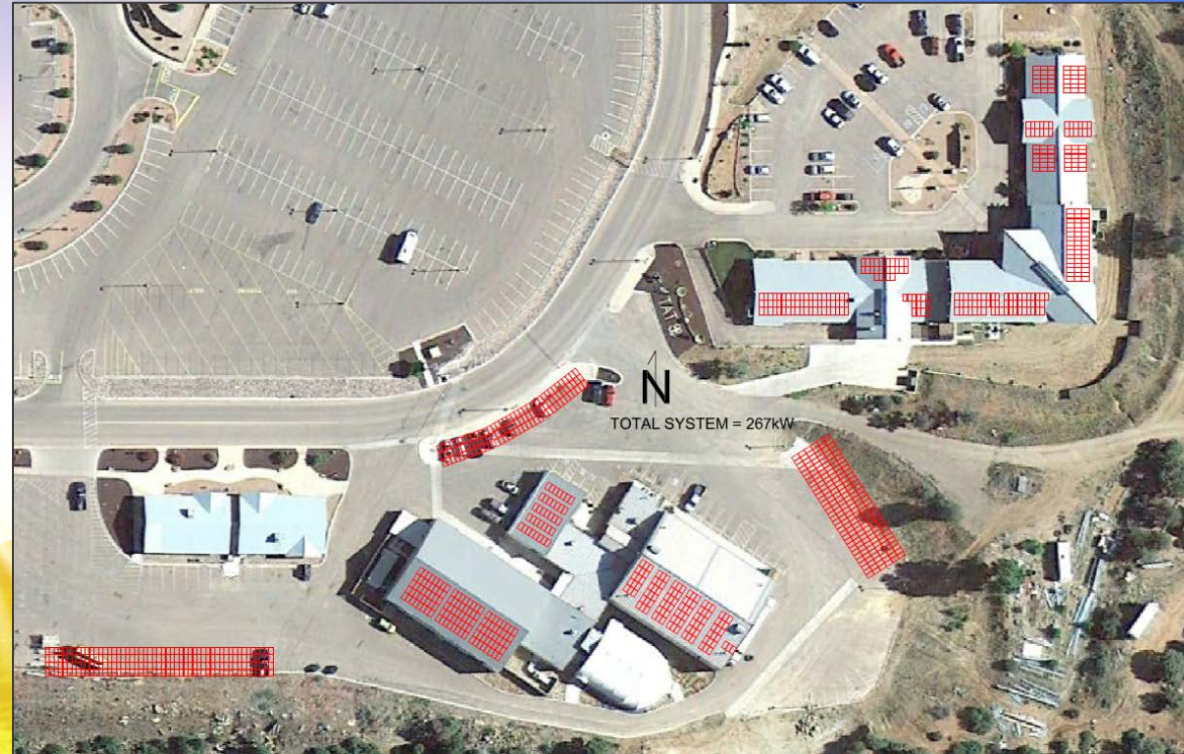
Renderings 2: Gymnasium & Shaded Parking



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Final Layout: 267kW PV system



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Timelines & Goals

- NTP to Engineering – Complete Electrical & Structural plans (2 to 4 weeks)
- Utility Interconnection Compatibility and Review Process (4 to 6 Weeks)
- Major Equipment Procurement – Inverters, Modules, Racking, SES Electrical Gear
- Mobilize in Payson
- Project Installation Time Line (4 to 5 months)
- Utility Inspection Process (4 to 6 weeks)
- Interconnection and Commissioning
- OM&M – On-going monitoring, reporting, cleaning, & testing
- Final Construction Deadline: December 31st, 2014



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System Financial Impact

- Estimated 60/70% kWh offset of two electricity meters
- Estimated kWh production YR 1 = 427,255 (\$42,725 savings YR1)
- Estimated YR 1 BILLS = 52% Offset
- Estimated kWh production YR 30 = 11,930,297 (\$2,093,514 savings YR30)
- 3.7% Energy Escalator
- Green Factor....

"Green" Benefits - Doing Your Part				
CO ₂ Offset:	Smartphone Charges	Cars off the Road	Gallons of Gas Offset	Property Value Increase*
8,278	78,614,832	845	34,180	\$657,315
Tons Lifetime	Annual	Lifetime	Annual	*6.5% Cap Rate Value



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Future Projects: TAT

- LED/Lighting Retro-fit exterior parking areas (Tribal Offices & Casino)
- LED/Lighting Retro-fit interior Casino
- Solar Hot Water for the Gymnasium and Casino Hotel (Propane)
- Solar Pool Heating for the pool at the gymnasium (Propane)
- Pursue all Grants
- Support other tribes with sustainability objectives
- Ongoing Training



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Next Steps – Let's Build the project: TAT



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Closing Statements and Q&A:

THANK YOU!



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