

The Tonto Apache Tribe Presents

The Department of Energy (2014) Project - Renewable Energy Grant Presentation & Follow up:

Team Includes: The Tonto Apache Tribe, SunRenu Solar, & The Department of Energy



Presenters: Joe Bresette - Grant Developer, TAT
Barry Coe - Principal, SRS



Presentation Outline

- Tribal Overview
- Summary of Project Objectives
- Locations
- Timelines and goals
- Future Projects
- Next Steps



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Overview of the Tribe: TAT

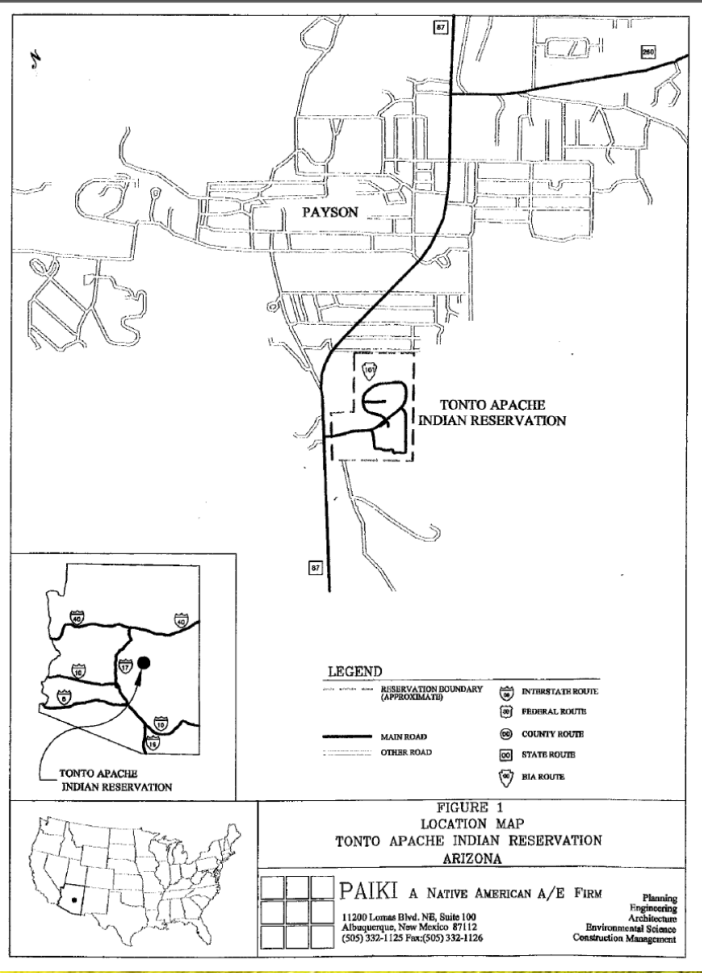
- The Tonto Apache Tribe gained Federal recognition in 1972
- The Federal Act Included 85 acres of reservation lands (Landless until 1972)
- Original Territory includes North Central Arizona (Mogollon Rim & surrounding areas)
- Tonto people originally settled at Rio Verde Reservation
- Tonto people relocated 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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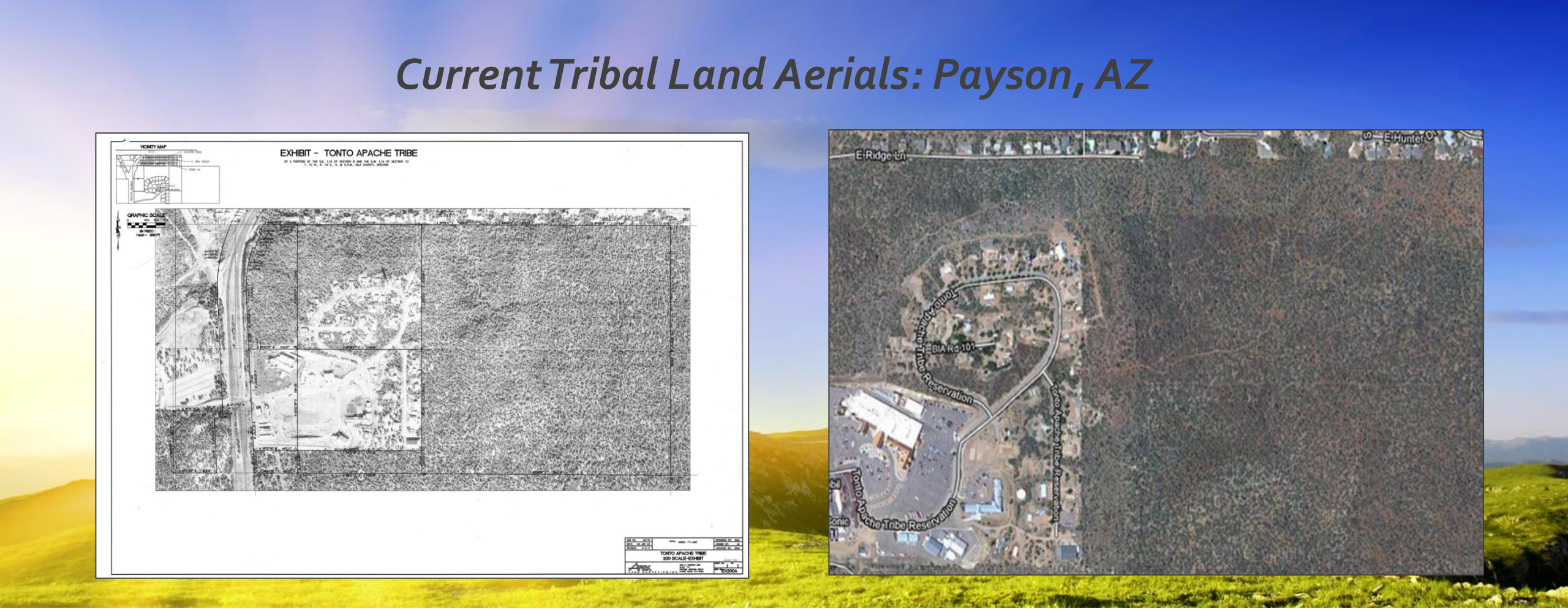
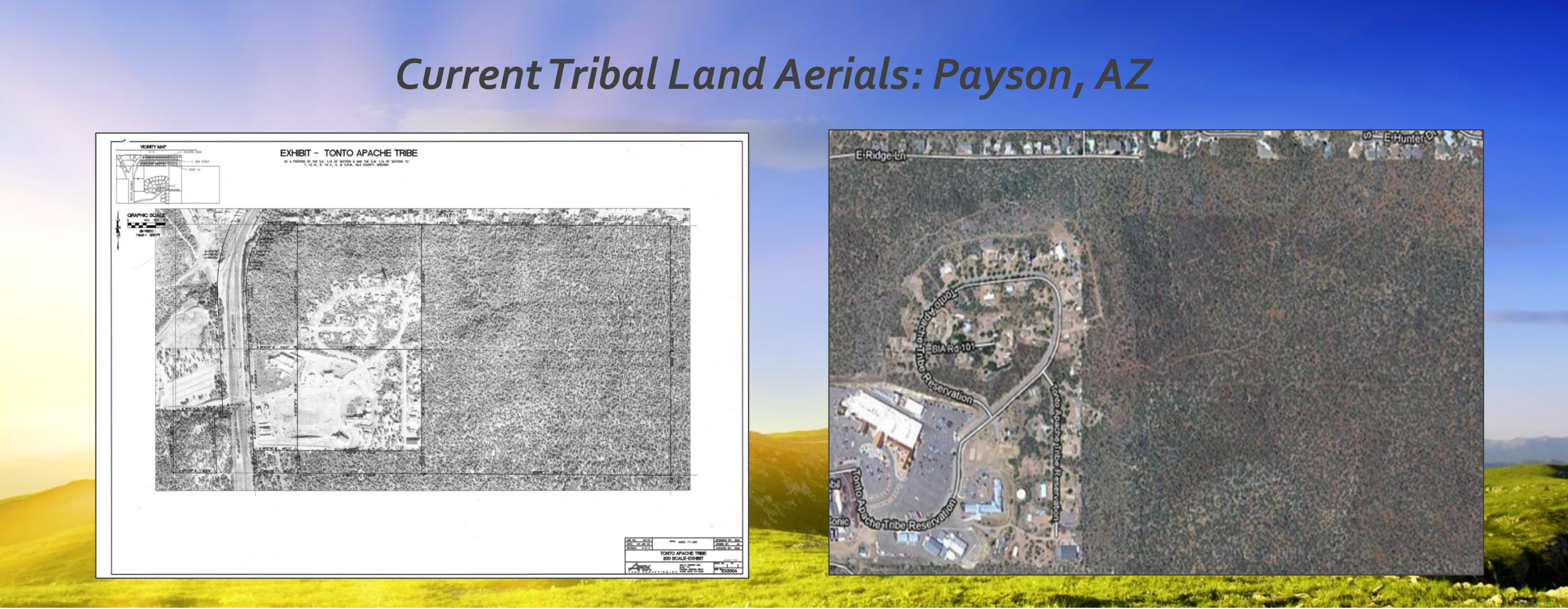
Current Tribal Land Legend: Payson, AZ



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Current Tribal Land Aerials: 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 Dining & 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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EPC partnership: SunRenu Solar

- (EPC) Engineering, Procurement, & Construction
- Turn-Key EPC Company with a vertically integrated offering
- 7 + Years of Tenure in the Renewable Energy Market
- Renewable Energy Specific – Photovoltaic, Solar Thermal, LED/Efficient Lighting, Sustainability
- 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 – K-B2 (GC Commercial) K-11 (Commercial Electrical) ROC/K-77 (Commercial Solar Thermal/Plumbing)
- NEW - *A-17 – “High Voltage” electrical license – Transmission lines, 1000v

“We do more good, than just good business”



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Project Objectives: Progress to Date

SunRenu Solar

- Develop the project on time and on budget
- Budget Compliance – We made our goal
- Construction Schedule – We made it
- Safety – No injuries or incidents, fall protection
- Challenges “Lessons Learned” – Utility Companies, underground, IT Networks
- Projects in production – We are “grid tied” and in full production
- Training and Walk through – Partnership between SRS & TAT
- Grant Response & follow up – Final Annual Reporting
- PV systems Reporting & Maintenance
- Close Out materials – Operations manual, ASBUILT drawings, etc...
- Financial impact – Savings, utility bill analysis, monitoring
- Tribal job creation – 3 Tribal members including 1 Full Time hired



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The EPC Team: TAT & SRS Partnership



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Renewable Project Development Follow up

- Final PV System Layouts and Design
- Monitoring Portal and Reporting
- System Components and Equipment Warranties
- Utility Billing dynamics
- Tribal Council follow up and communications



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Photos: Total & Tribal Offices

Tribal Offices – 76.5kW – PV Watts Projected Annual Production: 107,911 kWh's
(Goal 72% offset)



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Photos: Gymnasium & Shaded Parking

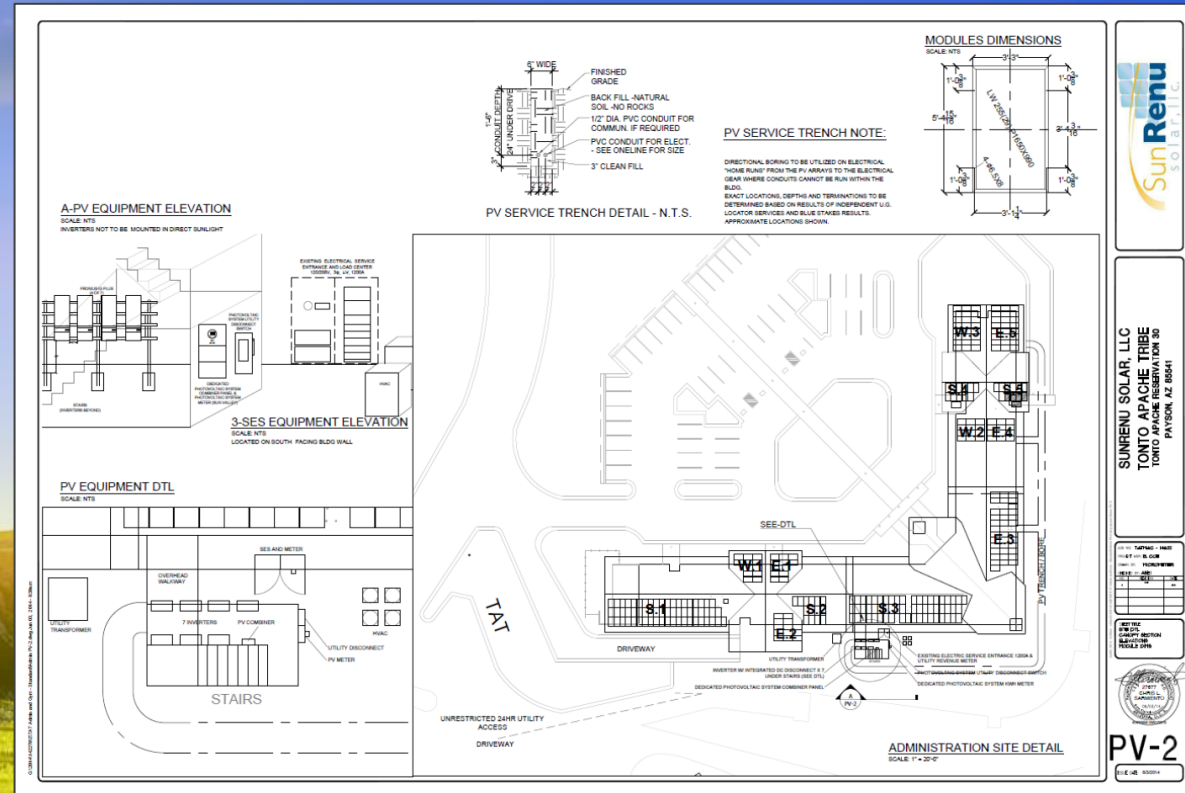
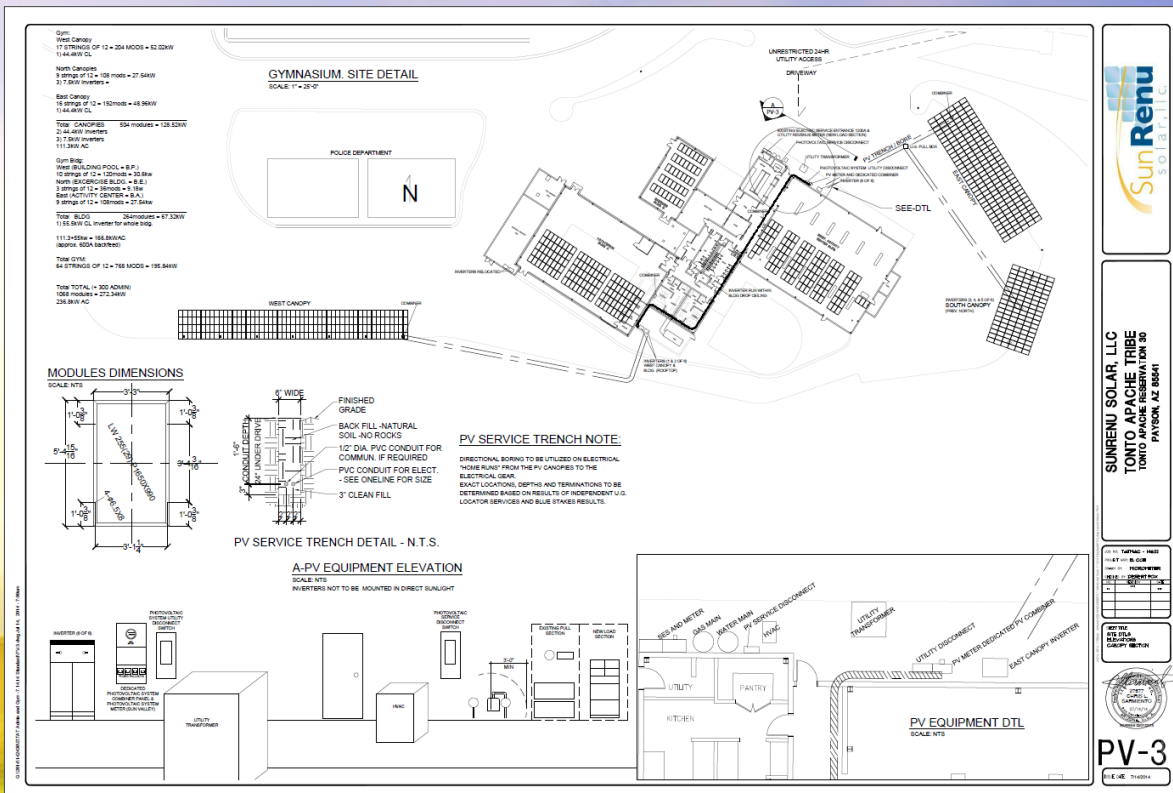
Tribal Gymnasium – 195.84kW – PV Watts Projected
Annual Production: 278,742 kWh's (Goal 62% offset)



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Final Design Site Plans:



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Future Projects: TAT

- LED/Lighting Retro-fit exterior parking areas
- LED/Lighting Retro-fit interior Casino
- Solar Thermal Pool Heating for the indoor pool at the gymnasium (2015 Grant award)
- The Smoke shop, & (2) water treatment plants (2015 Grant award)
- Pursue all Grants
- Support other tribes with sustainability objectives
- On-going Training



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Next Steps

- Tracking the goals of the projects: Immediate vs Annual
- Administration Building: March 2015 results = 10,651 kWh's produced (\$1,065 saved)
- Gymnasium: March 2015 results = 30,494 kWh's produced (\$3,046 saved)
- Final Grant report (Annual)
- The Smoke shop, & (2) water treatment plants (2015 Grant award)
- Operation and Maintenance support
- Ongoing Training
- Tribal Council Meeting & Full Status report



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Closing Statements and Q&A:

THANK YOU!



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