

San Carlos Apache Tribe

2008 - 2011
Energy Program
Review

&

2011 - 2012

**ENERGY
ORGANIZATION
ANALYSIS**

Burden Basket



San Carlos Apache Mission Statement

The Apache People will live a balanced life in harmony with spirituality, culture, language, and family unity in an ever-changing world.

The Apache People shall create a strategic framework for our tribe to grow and prosper.

The Tribe and Reservation



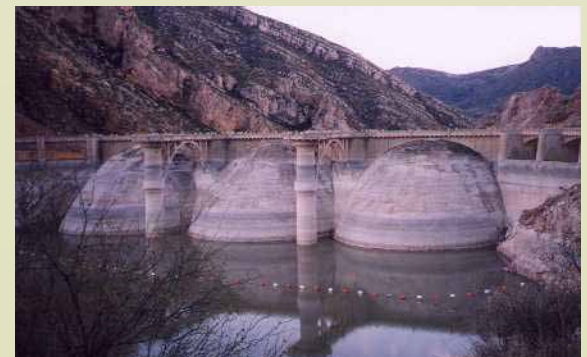
- 90 miles east of Phoenix.
- 2,400' to 8,300'+.
- 1.83 million acres.
- 800,000+ acres wooded/forested.
- 1M ac. riparian/grasslands/desert.
- Rivers - Salt, Gila, Black, San Carlos.



Reservation Boundary



- Operate utilities - water/sewer, telecommunications.
- Power - 100% purchased, 98% non-renewable, retail rates 2X+ Nat'l average.
- 4 power providers – SCIP (BIA), APS, Graham County Coop, Salt River Project.
- Small hydro & commercial (Coolidge Dam) hydropower potential.
- Excellent solar and geothermal potential.



- Economy - government, ranching, farming, forestry, gemstones, traditional arts, outdoor recreation, gaming, hunting/fishing.
- 14,600 enrolled Tribal members.
- 11,700 resident Tribal members.
- Communities - San Carlos, Bylas, Peridot.
- Cutter - Casino/Resort, airport, sawmill.
- 500+ "rural" residents.



- Source of 90% of world's peridot gemstones.
- Salt River Canyon – “mini Grand Canyon”.
- One of largest populations of lesser willow flycatchers (federally endangered species).
- San Carlos Lake – 4th largest in Arizona (not this year – drought!), recreation, maybe hydropower again someday!



2008 – 2011 Energy Program Review



San Carlos Lake @ Low Water

2008 - 2011 Energy Initiatives

- 2008: Energy goals in Tribal Strategic Plan.
- 2009: EECBG for long-range energy strategy, energy audits, “pilot” building solar PV.
- 2010: Trained & hired Tribal staff energy auditors.
- 2010-11: Conducted building energy audits.
- 2010: San Carlos Tribal Energy Summit.
- 2011: Adopted Energy Strategy.
- 2011: Initiated Energy Organization Analysis.
- 2011: 2nd Tribal Energy Summit.

JOIN US! December 12-13

2012 Initiatives

- Install “pilot” building solar.
- Complete Energy Organization Analysis.
- Establish Tribal Energy Organization (EO).
- Conduct commercial-grade solar study.
- Adopt building codes.
- Fund weatherization/energy efficiency upgrades.
- Conduct energy consumption & GHG emissions inventory/projections.
- 3rd Tribal Energy Summit.
- Ongoing technical assistance (Parametrix).

FUTURE Energy Strategy Initiatives

- Building weatherization & energy efficiency upgrades.
- Geothermal & biomass investigations.
- Transportation & recycling initiatives.
- Community & commercial-grade solar.
- GHG reduction programs & projects.
- Form energy utility or coop (subject to EOA)
- Conduct electrical transmission study.
- Study re-commissioning Coolidge Dam.

Energy Organization (EO) Analysis

Our first hydropower operators!



Coolidge Dam circa 1930's

Potential EO Responsibilities

- Support energy policies & programs.
- Manage energy projects.
- Implement the 2011 Energy Strategy.
- Meet key energy benchmarks & goals.
- Secure capital & operational funding.
- Provide outreach, training & education.
- Spur Tribal “green” economic development.
- Develop Tribal energy sector expertise.
- Meet both near- and long-term needs

Possible EO Options

- Ad-hoc (case-by-case project assignment)
- Government Office/Department
- Joint Venture
- Tribal Enterprise
- Utility Authority
- Energy Service Company (ESCO)
- Cooperative
- Analysis will include: forms of incorporation; combined multiple options; and near- and long-term phasing.

Option Evaluation Process

- Draft rating criteria by Parametrix
.... in consultation with Tribal Planning.
- Refinement by oversight committee (Tribal officials, enterprise managers).
- Work sessions with 2011 Energy Summit participants.
- Consolidate outcomes.
- Recommendations to Tribal Council.
- Detailed work/implementation plan.

EO Evaluation Criteria

The evaluation will rate 4 - 8 parameters for each different form of EO in each of 5 areas:

- Sovereignty/Self-sufficiency
- Economic Development/Financial Stability
- Cultural & Social Values
- Environmental Values & Impacts
- 2011 Energy Strategy Consistency

NOTE: All criteria are DRAFT and subject to further review.

EO Analysis - Next Steps

- Finish EO options evaluation.
- Select preferred EO option(s)/phases.
- Develop Year 1 EO work plan.
- Formally establish the preferred EO.
- Launch/implement EO – staff & interns.
- Conduct outreach on EO plans & purposes.
- Report back late 2012: November DOE Program Review & December Energy Summit.

Contact Us

*Come to the
Arizona Tribal Energy Summit
December 12-13, 2011
Apache Gold Casino/Resort
San Carlos, Arizona*



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