Yavapai-Apache Nation

TRIBAL ENERGY DEVELOPMENT

Presented by David E. Lewis, Environmental Specialist
Background

WAPA
- Post – 2004 Hydropower Allocations Announced to Tribes – Late 2001

ANA
YAN 1st Solar Project

Photovoltaic Solar System
- Middle Verde Community Day Care Facility
- Power Reliability Study
- System Size 1kw
- Double Axis Tracking System
- Funded by Urban Consortium Energy Task Force
Demonstration Projects

HUD RHED Economic Development & Capacity Building (September 2001)

Demonstration Projects

- 10kW PV Solar Covered Parking Project on Food Bank
- 2 – 2kW PV Solar Projects on Residential Homes
- 2 – Solar Hot Water Projects on Residential Homes
- Weatherization Improvements using DOE’s Weatherization Program
Food Bank

Photovoltaic Solar Parking Structure

- Middle Verde Community
- System Size 10kw
- Single Axis Tracking System
- Funded by HUD RHED
Capacity Building

WAPA Allocation Development (2000)
- Hydropower allocation from Colorado River Storage Project
- DOE’s WAPA plan that was going to allow Native American Tribes to be eligible to receive the power generated on the Colorado River

Tribal Utility Authority Development
- Intended to evaluate buying and selling of wholesale power
HUD ICDBG

Photovoltaic Solar Covered Parking Structure System
- Middle Verde Community
- System Size 30kw
- Parking Structure
- Funded by HUD ICDBG
Biomass Feasibility Study

DOE Funded (2002 & 2005)

- DOE Funded two studies to evaluate the feasibility of using ponderosa pine as the fuel source to be used in a Biomass Facility potentially located in Camp Verde
New Solar/ Energy Efficiency Development

- Tribal Administration Building
- Community Services Building
Solar Street Light Development

- Solar Street Light Installation and Retrofit – Stimulus Funding
  - Residential Communities
    - Middle Verde
    - Clarkdale
    - Tunlii
    - Camp Verde
New Solar Street Light Development

- Tribal Housing
  - New Solar Street Light Installation
  - Approximately 13 new lights

- Residential Communities
  - Middle Verde
  - Clarkdale
  - Tunlii
  - Camp Verde
New PV Solar System Installations

- Tribal Housing
- Tunlii Residential Community
- Installed 36 New PV Solar Systems in new single homes, duplex and tri-plex housing
Thank You

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