

**Background**

**Objective**

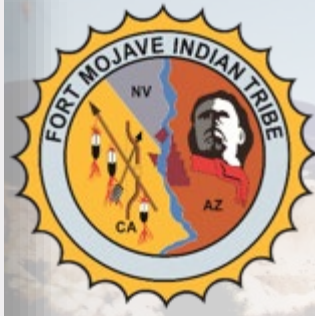
**Participants**

**Location**

**Project**

**About Us**

**History**



# **FORT MOJAVE INDIAN TRIBE and AHA MACAV POWER SERVICE**

## **SOLAR PROJECT**

*Pipa Aha Macav ~ The People by the River*



# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Purpose

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About Us

About Us

Fort Mojave Indians are "The People by the River" (Pipa Aha Macav).

The Fort Mojave Reservation is located in the Tri-State area of Arizona, California, and Nevada along the Colorado River.

Our traditional way of life starts with respect of the land and nature. Everyday life consists of working to provide for our families and honoring our culture by practicing traditions and beliefs as our ancestors did before us.

History







# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Purpose  
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## Fort Mojave *Indian Reservation*

### States

- California
- Arizona
- Nevada



### Counties

- San Bernardino County, CA  
(12,633 acres)
- Mohave County, AZ  
(23,669 acres)
- Clark County, NV  
(5,582 acres)

### Time Zones

- Mountain Time (UTC) - AZ
- Pacific Time (PST) - CA, & NV

### Members

- 1439 Enrolled Members



About Us



# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



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## Tribal Council

- Governing body of the Fort Mojave Indian Tribe
- 7 Elected Tribal Council Members
- Timothy Williams, Chairman
- Shan Lewis, Vice-Chairman
- Colleen Garcia, Secretary
- Nichole Garcia
- Norvin McCord, Sr.
- Johnny Hemmers
- Cellina Reyes

About Us

History



# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



- Purpose
- Objective
- Location
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## Business

- AVI KWA AME FARMS
- AHA MACAV POWER SERVICE
- FORT MOJAVE TELECOM
- SMOKE SHOPS
- HUUKAN GOLF & MOJAVE RESORT GOLF CLUBS
- FORT MOJAVE TRIBAL UTILITIES AUTHORITY
- SPIRIT MOUNTAIN CASINO
- AVI RESORT & CASINO
- MOJAVE CROSSING EVENT CENTER

## Departments

- AGRICULTURE, LAND AND WATER RESOURCES
- AHA MACAV HIGH SCHOOL
- AHA MACAV HOUSING AUTHORITY
- AVA ICH ASIIT TRIBAL LIBRARY
- CHILD CARE CENTER
- BOYS & GIRLS CLUB OF AHA MACAV
- BEHAVIORAL HEALTH DEPARTMENT
- FORT MOJAVE BUILDING DEPARTMENT
- SOCIAL SERVICES
- TRIBAL MARCHING BAND
- DOMESTIC VIOLENCE PROGRAM
- EDUCATION DEPARTMENT
- GIS DEPARTMENT
- ENROLLMENT DEPARTMENT
- FOOD DISTRIBUTION MESQUITE CREEK
- HEALTH DEPARTMENT
- HUMAN RESOURCES
- ONE STOP (WIA)
- RECREATION DEPARTMENTS
- REALTY DEPARTMENT
- ROADS DEPARTMENT
- SENIOR NUTRITION
- TERO & VOCATIONAL REHABILITATION
- TRIBAL COURT

## About Us

## History



ANYA ITPAK  
PRE-K & ELEMENTARY SCHOOL

WELCOME  
TO OUR NEW HOME





THALYGO

THALYGO



# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Purpose

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## AMPS Board of Directors

- 7 Appointed Board Members
- Wayne Nelson, Chairperson
- Amanda McCord, Vice-Chairperson
- Angela Medrano, Secretary
- Wes Davis, Treasurer
- Craig Castillo Sr.
- Leland McCord
- Gentry Medrano

About Us

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# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



## AHA MACAV POWER SERVICE



Aha Macav Power Service (AMPS) was incorporated under a Tribal Charter authorized in July 1991.



Provides electric power service to homes and businesses located within the Fort Mojave Indian Reservation.



Provides natural gas for the Avi Resort and Casino and the Mojave Crossing Event Center.



AMPS has a staff which includes highly trained line workers who are on call 24/7.

Purpose

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# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



## AHA MACAV POWER SERVICE



AMPS installs, operate and maintain transmission and distribution lines on the Fort Mojave Indian Reservation.



AMPS has all equipment needed for emergencies or routine work.



Aha Macav Power Service (AMPS) has two power substations and a switchyard which provides power backup feed to the City of Needles, CA.



AMPS upgraded to Advanced metering infrastructure (AMI) which is an integrated system of smart meters.

Purpose

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Project Overview

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# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



## Project Objective

Power Purchase Agreement Expires 2020.

Preparing for Drought Conditions.

Short 9+ MWh's from Western Area Power Administration.

Background

Objectives

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# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Reduce dependence on outside power providers.

Energy Self-Sufficiency.

Reduce energy costs as they will continue to escalate.

Provide clean, affordable power.

**Project Overview**

**Project Objective**

**Location**

**Project**

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# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Participants

Location

**2.3 Mega Watt Solar Power System Project.**

**(24) Rows of panels 350 panels per row.**

**(5) Panels high with (16) 500,000 watt inverters.**

**The site is approximately  
6 acres.**

**Project  
Overview**

**About Us**

**History**



# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Location



Location

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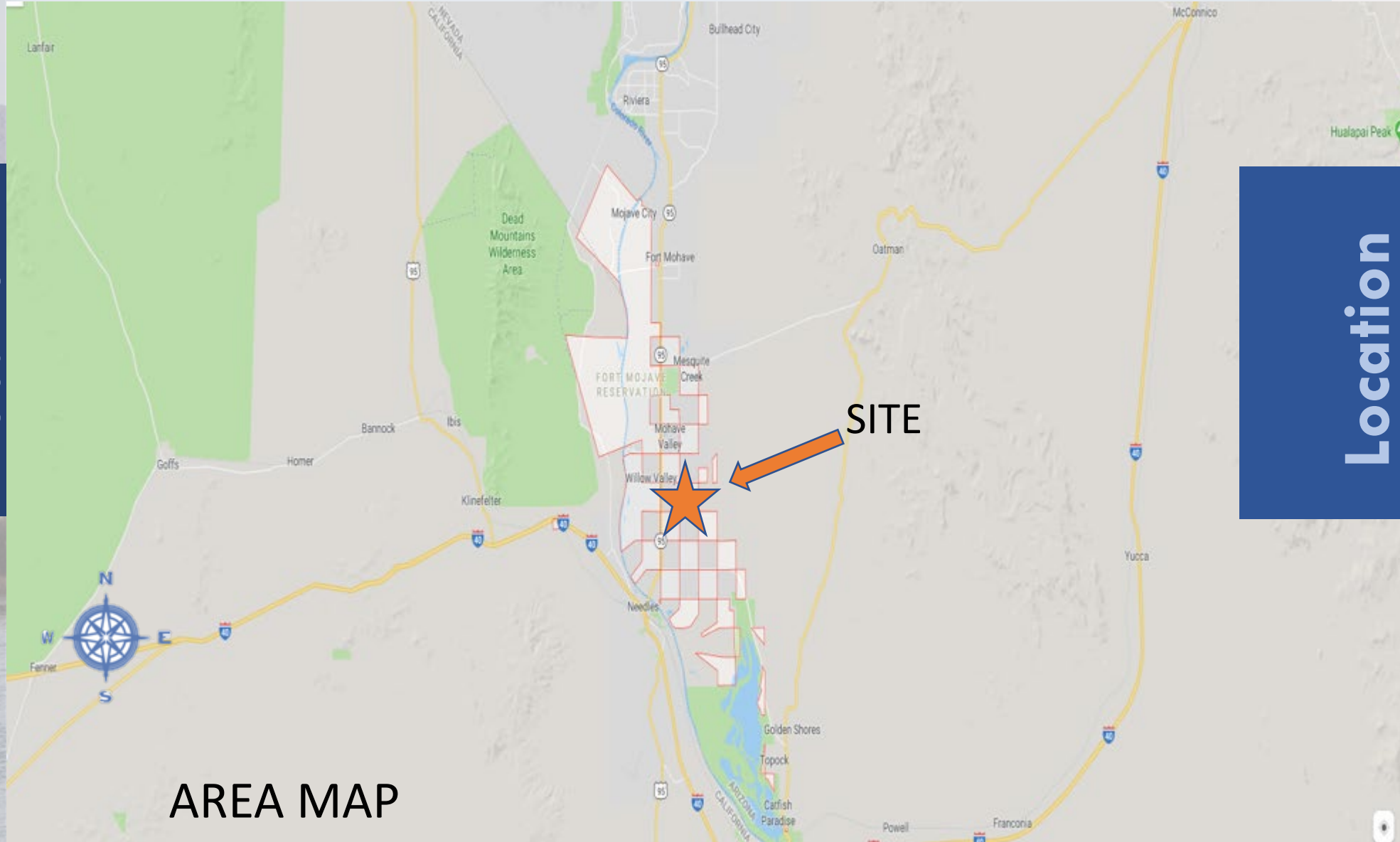




# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Location



AREA MAP

Location

Project

About Us

History



# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Location



Location

Project

About Us

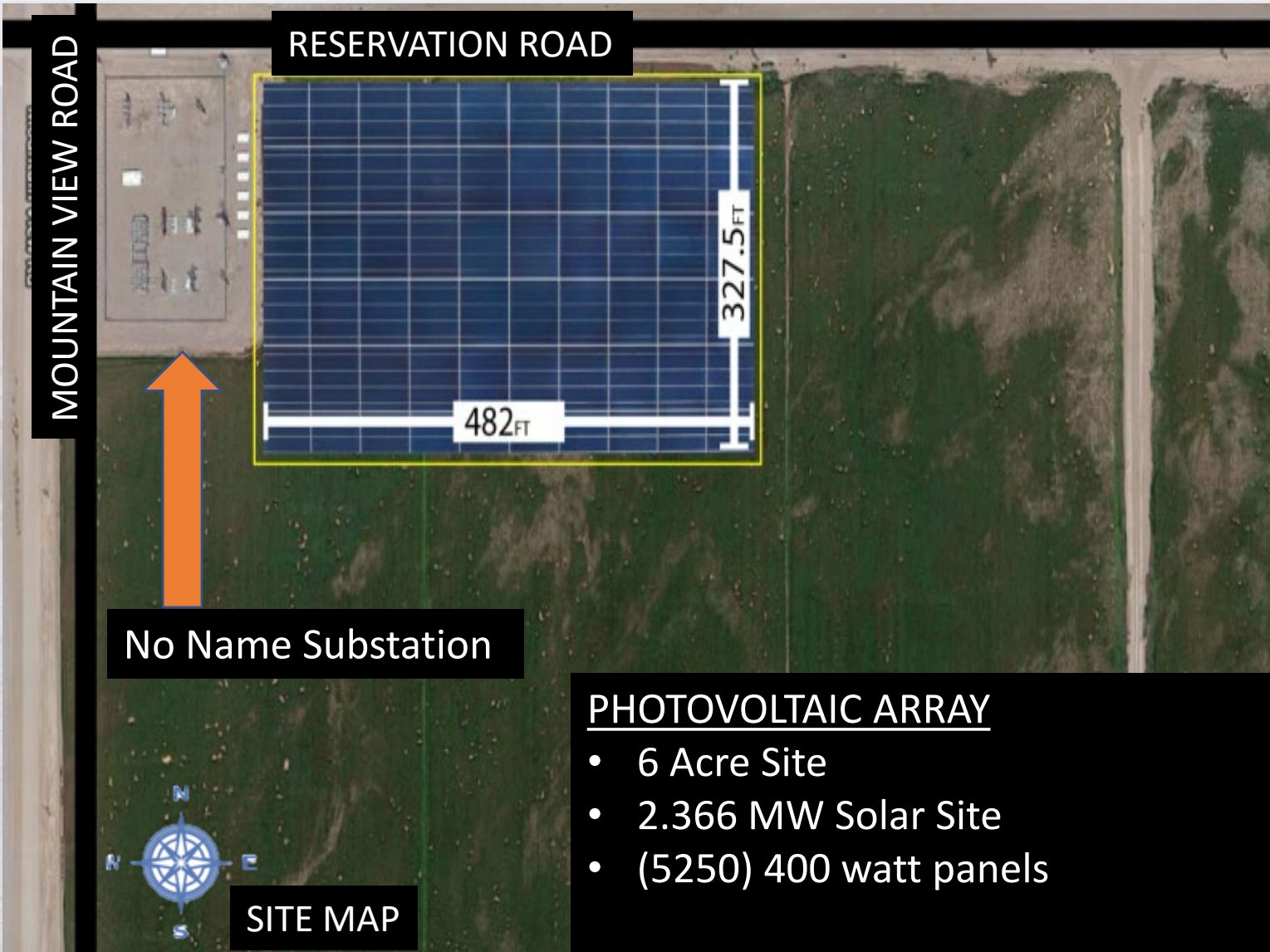
History



# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Participants



Location

Project

About Us

History













- Main Navigation
- Dashboard
  - Account
  - Portfolio
  - Site
  - Inverter
  - Meter
  - Weather sensor
  - Gateway
  - Service

	ModbusId	Device Type	Model	Status	SN	Name	Pac	E-today	Last Updated	Action
-	--	Gateway	FG4C	● Online	4082013000642	Phase 1			2020-12-06 15:49:58 -0700	Delete
1		Inverter	SCH125KTL-DO/US-600	● Running	0001014102029055	0001014102029055	17.1KW	561.7kWh	2020-12-06 15:50:21 -0700	Delete
2		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020035	0001014102020035	13.8KW	475.2kWh	2020-12-06 15:50:22 -0700	Delete
3		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020006	0001014102020006	13.8KW	484.5kWh	2020-12-06 15:50:22 -0700	Delete
4		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020010	0001014102020010	14.1KW	509.4kWh	2020-12-06 15:50:22 -0700	Delete
5		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020044	0001014102020044	14.1KW	495.5kWh	2020-12-06 15:50:22 -0700	Delete
6		Inverter	SCH125KTL-DO/US-600	● Running	0001014102019147	0001014102019147	13.9KW	499.3kWh	2020-12-06 15:50:22 -0700	Delete
7		Inverter	SCH125KTL-DO/US-600	● Running	0001014102019135	0001014102019135	14.0KW	504.1kWh	2020-12-06 15:50:22 -0700	Delete
8		Inverter	SCH125KTL-DO/US-600	● Running	0001014102019047	0001014102019047	14.0KW	490.2kWh	2020-12-06 15:50:22 -0700	Delete
9		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020038	0001014102020038	14.6KW	516.0kWh	2020-12-06 15:50:22 -0700	Delete
10		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020018	0001014102020018	13.5KW	484.3kWh	2020-12-06 15:50:22 -0700	Delete
11		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020054	0001014102020054	14.0KW	495.1kWh	2020-12-06 15:50:23 -0700	Delete
12		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020070	0001014102020070	13.8KW	490.1kWh	2020-12-06 15:50:23 -0700	Delete
13		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020033	0001014102020033	13.6KW	481.4kWh	2020-12-06 15:50:23 -0700	Delete
14		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020014	0001014102020014	13.5KW	485.4kWh	2020-12-06 15:50:23 -0700	Delete
15		Inverter	SCH125KTL-DO/US-600	● Running	0001014102019134	0001014102019134	13.2KW	481.0kWh	2020-12-06 15:50:23 -0700	Delete
16		Inverter	SCH125KTL-DO/US-600	● Running	0001014102020061	0001014102020061	12.6KW	458.3kWh	2020-12-06 15:50:23 -0700	Delete



# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



Participants

Location



Provides 3.9 MW per year.



Inverters are not Wi-Fi as explained.



Main switch was difficult to acquire.



Solar cleaning kits.

Lessons

Learned

About Us

History



# FORT MOJAVE INDIAN TRIBE AND AHA MACAV POWER SERVICES SOLAR PROJECT



**Thank You**

**Fort Mojave Tribal Council**

**AMPS Board Of Directors**

**Aha Macav Power Service Staff**

**Stockbridge Energy Group**

**Grant Management Associates**

**U.S. Department Of Energy Office of Indian  
Energy**

**Participants**

# Pipa Aha Macav ~ The People by the River



*Thank You*

