

# **Council of State Governments West (CSG West) Colorado River Forum**

**Leslie James, CREDA  
October 19, 2022 – Henderson, Nevada**



# HISTORY

**1902 and 1939 Reclamation Acts**

**1956 Colorado River Storage Project (CRSP) Act**

**1977 DOE Organization Act (WAPA)**

**1978 CREDA**



# CREDA's Mission

**“To preserve and enhance the **availability**, **affordability**, and **value** of Colorado River Storage Project (CRSP) facilities while promoting **responsible stewardship** of the Colorado River System.”**



# Who are CRSP Customers in Arizona?

- **Arizona Electric Power Coop**
- **ED 2, 3, 4, 5 Maricopa, 6, 7**
- **Ak-Chin Indian Community**
- **Chandler Heights ID**
- **Cocopah Indian Tribe**
- **Colorado River Agency (BIA)**
- **Colorado River Indian Tribes**
- **Fort Mojave Indian Tribe**
- **Fort McDowell Yavapai Nation**
- **Gila River Indian Community**
- **Havasupai Tribe**
- **Hualapai Tribe**
- **Luke Air Force Base**
- **Maricopa Co. Mun. Water Cons. District**
- **Navajo Tribal Utility Authority**
- **Ocotillo Irrigation District**

# Who are CRSP Customers in Arizona?

- [Pascua Yaqui Tribe](#)
- [Quechan Indian Tribe](#)
- [Queen Creek Irrigation District](#)
- [Roosevelt Irrigation District](#)
- [Roosevelt Water Conservation District](#)
- [Safford](#)
- [Salt River Pima-Maricopa Indian Community](#)
- [Salt River Project](#)
- [San Carlos Apache Tribe](#)
- [San Carlos IP \(BIA\)](#)
- [San Tan Irrigation District](#)
- [Thatcher](#)
- [Tohono O-Odham Utility Authority](#)
- [Tonto Apache Tribe](#)
- [Wellton-Mohawk Irrigation District](#)
- [Yavapai Apache Nation](#)
- [Yavapai Prescott Indian Tribe](#)

# Who are CREDA Members?



## ARIZONA

- Arizona Municipal Power Users Association
- Arizona Power Authority
- Arizona Power Pooling Association
- Irrigation and Electrical Districts Association
- Navajo Tribal Utility Authority  
(also New Mexico, Utah)
- Salt River Project



## COLORADO

- City of Colorado Springs
- Intermountain Rural Electric Association
- Platte River Power Authority
- Tri-State Generation & Transmission Cooperative  
(also Nebraska, Wyoming and New Mexico)
- Yampa Valley Electric Association, Inc.



## NEBRASKA

- Municipal Energy Agency of Nebraska

- **NON-PROFIT**
- **Preference Customer**
- **CRSP Customer  
(contract with WAPA)**
- **Public Power/Local**

# Who are CREDA Members?



## NEVADA

- Colorado River Commission of Nevada
- Silver State Energy Association



## NEW MEXICO

- Farmington Electric Utility System
- Los Alamos County
- Tri-State Generation & Transmission Cooperative



## UTAH

- City of Provo
- City of St. George
- South Utah Valley Electric Service District
- Utah Associated Municipal Power System
- Utah Municipal Power Agency



## WYOMING

- Wyoming Municipal Power Agency

- **Obligation to Serve – over 4.5 million people**
- **Resource Planning**
- **Own Renewables (Hydro, Wind, Solar, Biomass, Nuclear and Small Modular Nuclear)**



# Drought Update – Then



**1984 – Glen Canyon Dam**

# Drought Update – Now



**GCD 2011**

**GCD and Blue  
Mesa 2022**



# Other Drought-Related *Impacts*

- \* Glen Canyon Dam provides black start capability to Palo Verde Nuclear Generating Station in an emergency
- \* Intermittent resources are expanding (but they are **STILL intermittent!**) and often need hydropower as backup
- \* Many CRSP customers are in some of the poorest communities in the Country.
- \* If carbon-free hydropower isn't available, a likely replacement is fossil-fuel
- \* Glen Canyon Dam capacity can and has been called on to stabilize the grid during emergencies (CAISO August and September 2020, September 2022)
- \* **Proposed experiments at CRSP facilities (water use/power bypass; low flows for bugs)**

# Case Study *Impacts*

\*



is a small public power utility in the mountains of northern Utah serving ~14,000 customers.

Drought impacts to the energy portfolio:

- 30% increase in the cost of power
- 35% reduction in hydropower
- 26% reduction in renewable energy



# What are We Doing **NOW?**

## \* EDUCATION

- \* *Members, Congress*

***STATE LEGISLATORS***

- \* *National Orgs*
- \* *States (Water)*

## \* COLLABORATION

- \* *Members, Agencies,*
- \* *States*

## \* MITIGATION

- \* *Rates, Contracts,  
Facilities/Ops, Federal Role,  
Markets (?)*
- \* *Experiments*

***SUPPORT S. 4232***



# What Can **YOU** Do **NOW**?

- Reach out to your local utility constituents and communities
- Consider the importance of hydropower in any Colorado River-related discussions
- Talk to your Congressional delegations about **supporting S. 4232**



**Thank you!**

Leslie James, [creda@creda.cc](mailto:creda@creda.cc)