1902 and 1939 Reclamation Acts
1956 Colorado River Storage Project (CRSP) Act
1977 DOE Organization Act (WAPA)
1978 CREDA
“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
- 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

Photos courtesy of Reclamation and Carol Ballantine
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

(Western Caucus 12/4/2021; CREDA to Hill 2/16/2022)
Thank you!

Leslie James, creda@creda.cc