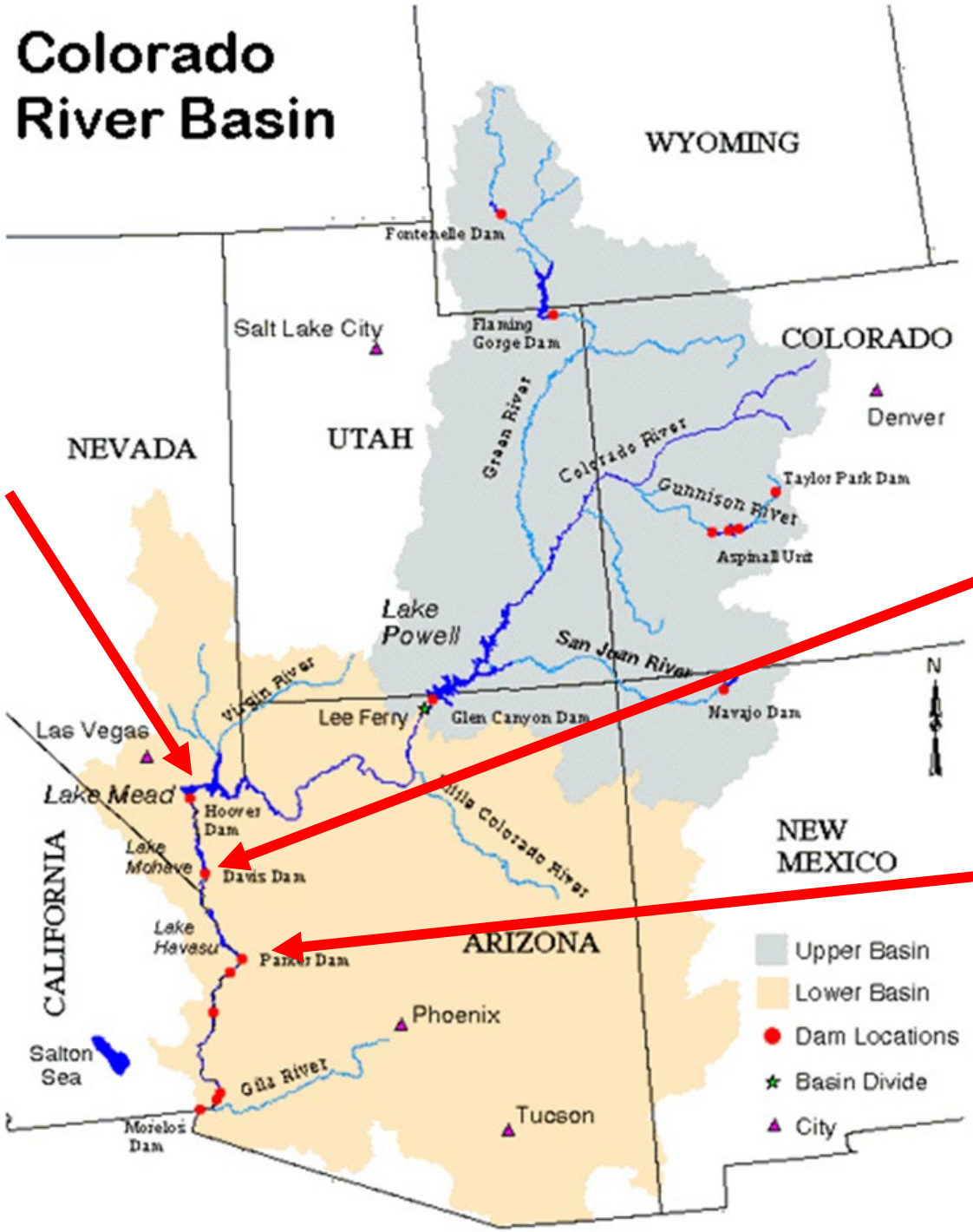
Colorado River Commission of Nevada

Parker-Davis Project Background

July 1, 2025

Content of Presentation

- History and Background
- P-DP Generation Forecast
- Post-2028 P-DP Product
- Estimated Rates
- WAPA Timeline
- CRCNV Timeline

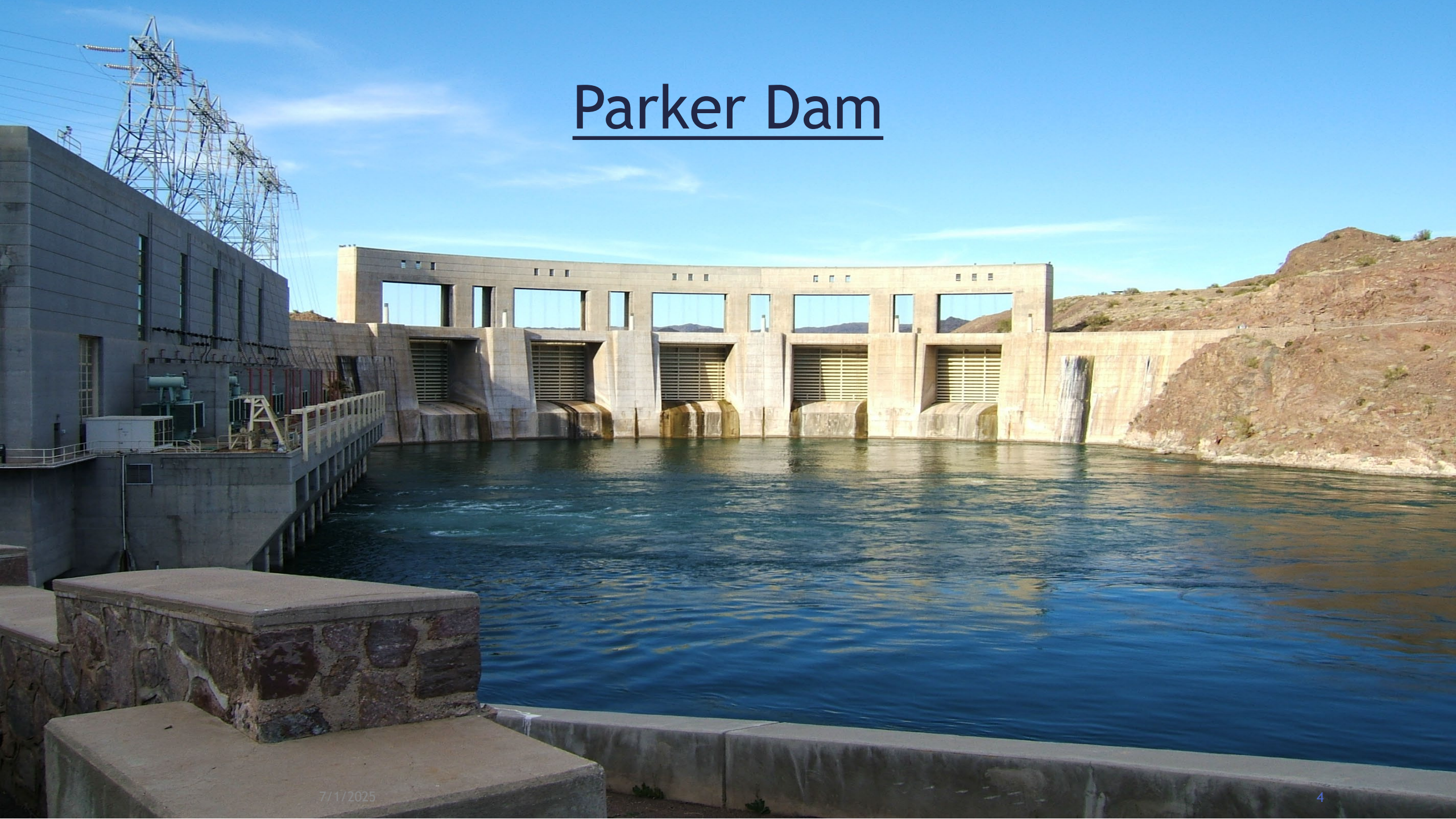


Hoover Dam

Davis Dam

Parker Dam

Parker Dam



Parker Dam

- Construction began in 1934 and was completed in 1938.
- Powerplant construction was started in 1939.
- Built to create Lake Havasu for MWD Whitsett Intake Pumping Plant for the Colorado River Aqueduct.
  - Half of all Parker Dam generation is for MWD water pumping.
- Lake Havasu available storage is 0.619 MAF.
- 4 Generating Units: P1, P2, P3, P4
- One full unit is equivalent to 4600 cfs.
  - Enough to fill a football field 1 foot deep in 10 seconds
  - Generates roughly 27-30 MW

Davis Dam

Davis Dam

- Davis Dam Project authorized in April 1941.
- Initial excavations began in June 1942, but work was stopped due to WWII.
- The Mexican Treaty of 1944 required the US to construct Davis Dam for water regulation to ensure delivery to Mexico.
- Work authorization resumed in July 1945 but didn't commence until April 1946.
- Construction was completed in 1953.
- Lake Mohave available storage is 1.81 MAF.
- 5 Generating Units: D1, D2, D3, D4, D5
- One full unit is equivalent to 4600 cfs.
  - Generates roughly 48-51 MW

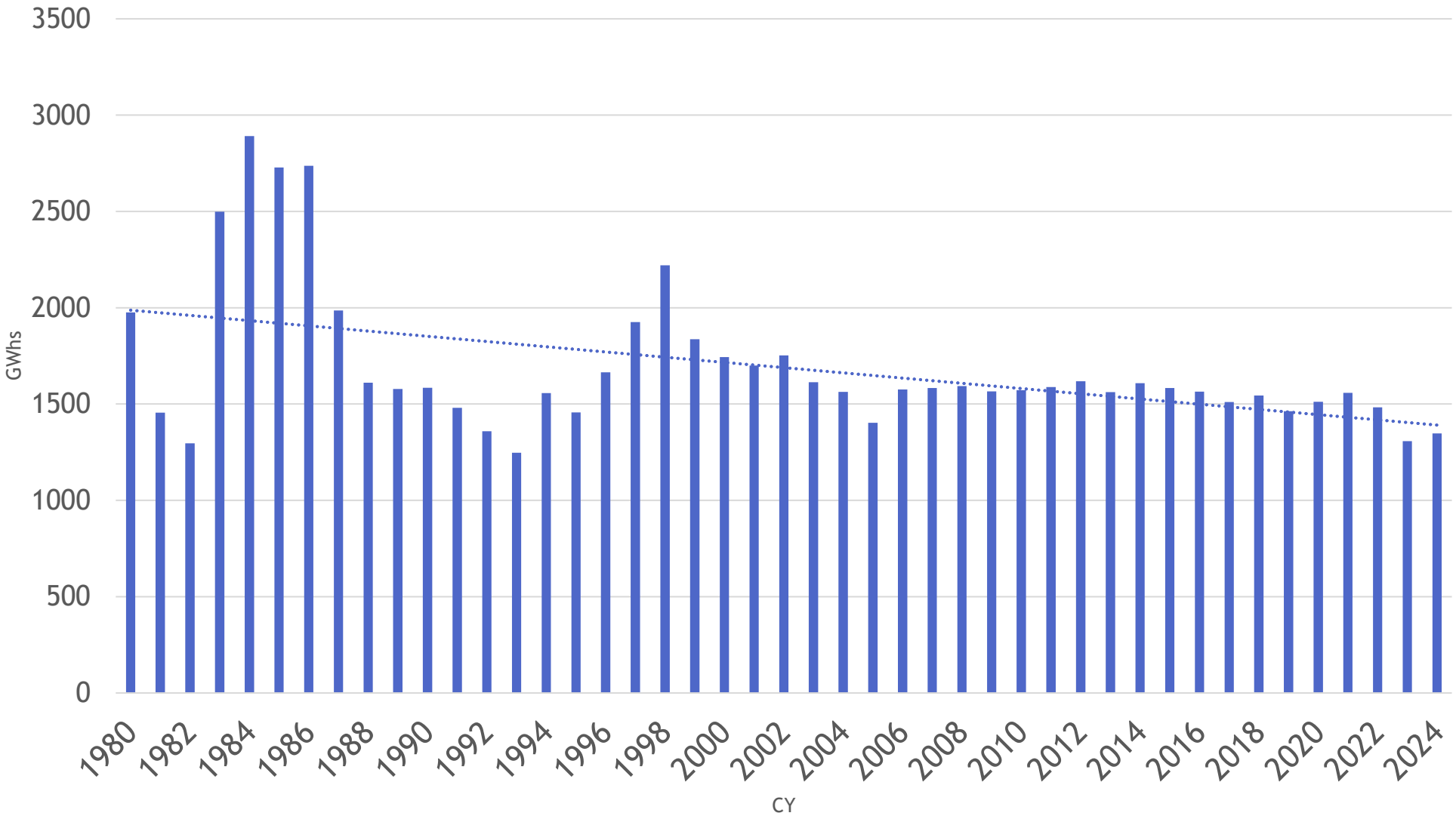
Current Powerplant Information

Powerplant	Nameplate Capacity
Davis	255 MW
Parker	120 MW
Total	375 MW

P-DP Generation

- Generation is a product of water releases and therefore heavily affected by:
  - Active Weather & Drought
  - System Conservation
  - System Shortages
- The last two are highly dependent on post-2026 river operations which are unknown at this point.

Historical PD Plant Generation



Post-2028 P-DP Capacity

- We expect to retain most of our current Parker-Davis capacity.
  - Current allocations were reduced so that WAPA could create a small 2% pool for new applicants.

Season	Current Capacity (kW)	Expected Capacity (kW)
Summer (Mar-Sept.)	56,560	56,231
Winter (Oct.-Feb.)	40,752	40,692

- Includes 3,231 kW of withdrawable Summer Season capacity and 2,037 kW of withdrawable Winter Season capacity.
  - Withdrawable capacity is capacity that can be withdrawn by WAPA for priority uses upon two years advance notice.

Post-2028 P-DP Capacity (con't)

- WAPA can propose to adjust the capacity, also known as the Contract Rate of Delivery (CROD).
  - Requires a five-year minimum notice to contractors.
  - Subject to a public process.
- WAPA will impose a minimum scheduling constraint.
  - Methodology will be determined in collaboration with WAPA.

Post-2028 P-DP Energy

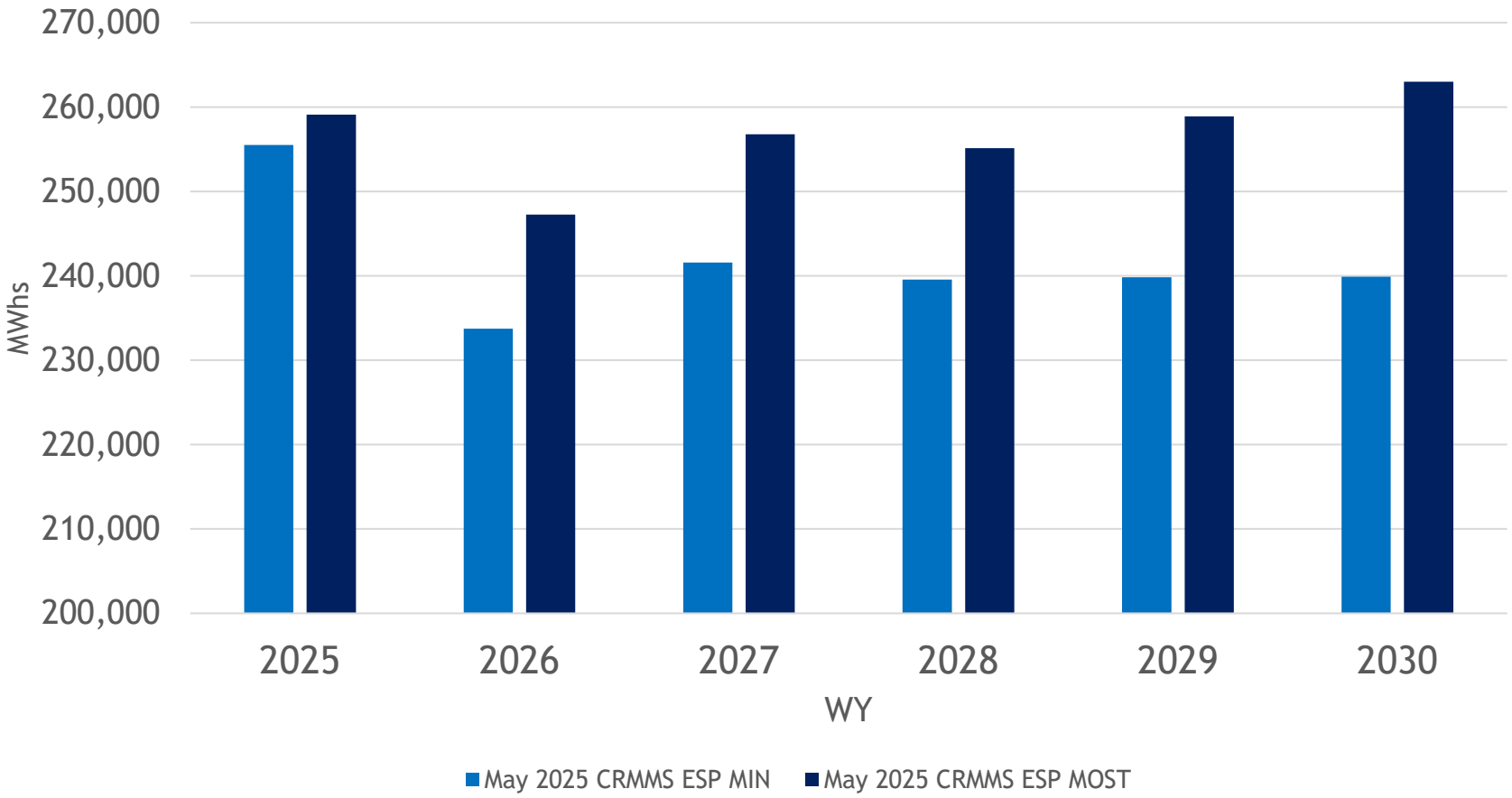
- WAPA will provide a product called “Quarterly Energy.”
  - Based on WAPA’s forecast of what they expect to generate.
  - WAPA will provide notice of the quarterly amounts before the start of each quarter.
- WAPA will offer contractors a product called “Optional Energy” which is energy contractors can elect for WAPA to purchase.
  - Optional Energy, up to the CROD, will be offered at market prices.
- WAPA will reduce energy mid-month in response to weather or other conditions that cause reduced water use but will offer Optional Energy to maintain Quarterly Energy amounts.

Post-2028 P-DP Transmission and RECs

- WAPA will allow contractors to use transmission capacity, reserved for P-DP deliveries, to move contractor-owned or contractor-purchased resources.
  - If the path differs from the path reserved for P-DP deliveries, WAPA will conduct studies to determine availability comparable to the OATT process for redirecting PTP transmission.
- P-DP RECs will be made available to contractors.
  - WAPA plans to establish a REC marketing program similar to the one they already have for Hoover.

CRCNV's Energy Forecasts

- May 2025 CRMMS modified
- Assumes system conservation post 2026



2028
Min: 239,541 MWh
Most: 255,127 MWh

Estimated P-DP Rates

- We anticipate that the CRCNV's share of the revenue requirement for the P-DP Project will be approximately $4.1M per year in 2028.
- Dividing by the most and the min energy forecasts shown on the prior slide yields a rate of:
  - $16-$17 per MWh
- Additional charges for:
  - CRCNV's administrative charge ($1.22/MWh);
  - Lower Colorado River Basin Development Fund (LCRBDF) ($2.50/MWh);
  - Multi-Species Conservation Program (MSCP) ($.52/MWh).
- Total rate before transmission in the range of:
  - $20.24/MWh to $21.24/MWh

Estimated P-DP Rates

- Transmission estimated to be approximately $1.90 per kW-month.
- WAPA is carrying approximately $54.8 million in purchased power deficits from 2018-2023.
  - This amount is being amortized through 2043.
  - The CRCNV's share of the deficit, including interest, is approximately $14.1 million.
  - WAPA does not yet have a firm plan for recovering this amount from contractors.
    - Rate vs. surcharge
- The CRCNV's current plan is to assess the deficit to all contract holders in proportion to their post-2028 capacity allocations.
- Estimated cost impact: $3-$4/MWh.

WAPA Parker-Davis Marketing Timeline*

November 12, 2024
Published Notice of Decision *Federal Register Notice* (FRN)
Final Marketing Plan and Call for Applications

August 2025
Publish Notice of Proposal FRN for Proposed Resource Pool Allocations

June 2026
Publish Notice of Decision FRN for Final Resource Pool Allocations

June 2026 – May 2028 Contract Negotiations

May 31, 2028
Deadline for Contract Execution

October 1, 2028
Service Begins

Timeline is tentative and subject to change

CRCNV Parker-Davis Marketing Timeline*

July 1, 2025
Public Meeting
Draft Criteria and Application

Jul. 1-Jul. 11, 2025
Public Comment Period Draft Criteria and Application

August 12, 2025
Commission Meeting to Approve Criteria and Application

Aug. 18-Sept. 18, 2025
Call For Applications

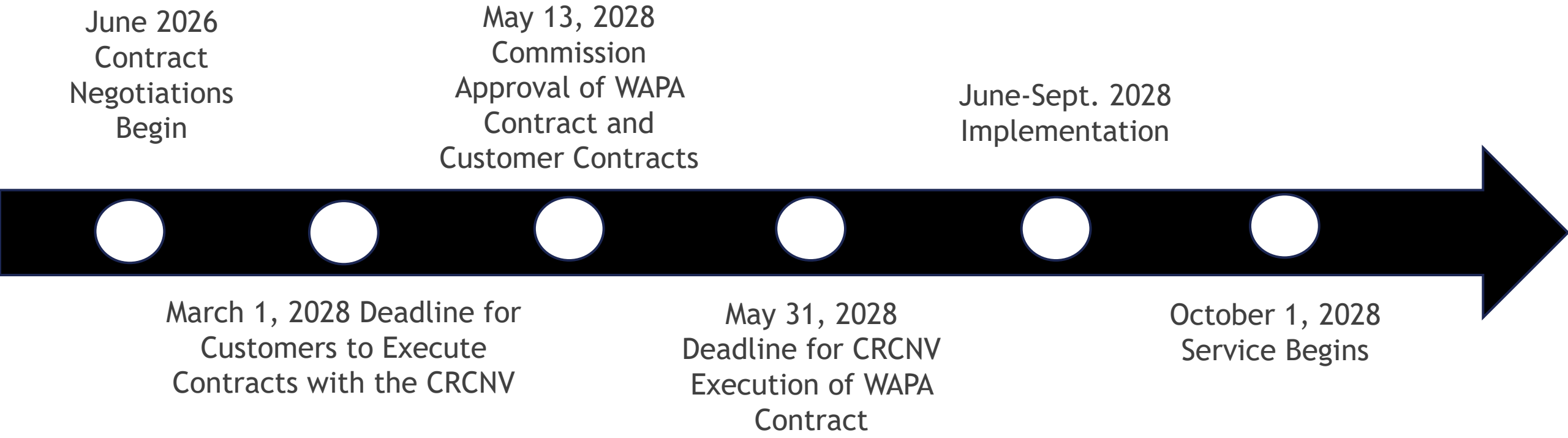
October 30, 2025
Draft Order Proposed Allocations

October 30-November 21, 2025
Applicants Review and Comment Period
Draft Order on Proposed Allocations

Jan. 13, 2026
Commission Hearing on Final Allocations

Timeline is tentative and subject to change

CRCNV Parker-Davis Marketing Timeline*



Timeline is tentative and subject to change

Questions?

- Please submit written questions to: *crcpower@crc.nv.gov*
- The answers to all written questions will be posted on our website: *crc.nv.gov*