

**Power & Water Resources Pooling
Authority**

Information Packet

Wednesday, September 4, 2024

- 1. GM Comments.**
- 2. Treasurer's Report.**
- 3. Operations Report.**

Power & Water Resources Pooling Authority

1. GM Comments

Power and Water Resources Pooling Authority

September 4, 2024 Information Packet

GM Comments

BOARD MEETING PLANNER

The Regular Board Meeting will be held on Wednesday, October 2 at the Westlands Water District, 286 W. Cromwell Ave., Fresno, CA 93711. In addition to the usual matters, proposed subjects for the meeting are:

- Follow-up on Strategic Session action items
- First look at 2025 Annual Budget
- RPS update for the short, medium and long-term
- Power project discussion (current and future projects)
- 2023 Power Content Labels
- Zone 7 – adding a point of delivery under SA 56
- WDT3 update on the proposed 2025 rates
- WDT4 introduction (a new formula rate Model to replace the WDT3 Model)

PG&E WDT3 ANNUAL UPDATE

Pursuant to the WDT3 Formula Rate Protocols, PG&E provided its Draft Annual Update for the Rate Year 2025. Similar to last year, PWRPA has engaged GDS Associates to evaluate the inputs to the existing Formula Rate Model (“Model”). The proposed SA 17 rates for 2025 are higher than 2024, particularly for PODs connected at SEC. The SA 56 rates are actually a bit lower than 2024.

PG&E WDT4 INTRODUCTION

In November 2024, PG&E will be opening a new ratemaking at FERC to propose a new formula rate Model (called WDT4). An introductory legal meeting is scheduled for September 10. I will report on this during the October Regular Board Meeting.

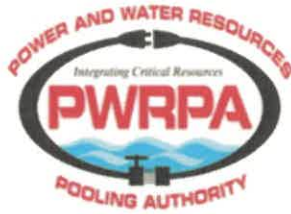
EXPANDED OFFICE HOURS AND OPTIONAL TRAINING CLASS FOR SEPTEMBER

I am expanding my office hours in September as a means of providing greater access for any PWRPA directors, alternates or staff. I have also scheduled two Optional Training Classes (OTC) on the Aggregation Services Agreement (ASA). The classes will be identical, but the separate days are to enable flexibility for participants.

- Monday at 8-9 A.M. Office Hours on September 9, 16, 23, 30
- Thursday at 3-4 P.M. Office Hours on September 5, 12, 19, 26
- Wednesday at 1 P.M. Optional Training Class on September 11 (ASA)
- Tuesday at 11 A.M. Optional Training Class on September 17 (repeat, ASA)

Power & Water Resources Pooling Authority

2. Treasurer's Report for Month Ending July 31, 2024.



POWER AND WATER RESOURCES POOLING AUTHORITY

DISBURSEMENT LIST

August 2024

Check #	Vendor-name	Payment-description	Check-amount
3567	Advanced Data Storage	Document Storage - August 2024	\$ 44.50
3568	Arvin-Edison Water Storage District	Treasurer's Duties	9,929.85
3569	Braun Blaising & Wynne, P.C.	Legal Services - July 2024	302.51
3570	GDS Associates, Inc.	Consultant	1,724.10
3571	Michael McCarty Law Office PLLC	Consultant	3,000.00
3572	Robertson Bryan Inc.	Consultant	67,211.79
3573	Arvin-Edison Water Storage District	Cap & Trade	1,904,001.59
3574	Arvin-Edison Water Storage District	Approved P-3 Project	415,522.26
		Sub-Total	<u>\$ 2,401,736.60</u>
Wire Transfers:			
Wire	Cameron-Daniel, P.C.	General Manager/General Council	\$ 41,347.96
		Total	<u><u>\$ 2,443,084.56</u></u>

POWER AND WATER RESOURCES POOLING AUTHORITY
CASH ACTIVITY AND TREASURER'S REPORT
MONTH ENDING JULY 31, 2024

CASH ACTIVITY:

BALANCE JUNE 30, 2024		\$ 21,705,824.24
Increases:		
Power Billing Invoices	\$ 6,592,030.94	
Interest LAIF	100,320.21	
APX Astoria	52,811.07	
NCPA - Displacement Program	44,284.33	
TCB - Monthly Interest	35,021.56	
		6,824,468.11
Decreases:		
CAISO	\$ 1,933,331.08	
WAPA - Power June 2024	826,366.61	
Slate Solar - May & June 2024	551,303.20	
WAPA O&M	397,400.00	
Recurrent Energy - Astoria Solar - June 2024	193,258.19	
NCPA - LEC July 2024	158,724.00	
NextEra Whitney Point Solar - June 2024	156,191.27	
NCPA - LEC Deposit GHG Auction	155,562.00	
Robertson-Bryan, Inc	71,701.23	
Trimark - Cell, Meter Reading and T&M June 2024	49,776.15	
WAPA - Restoration June 2024	48,464.34	
PG&E - GCID, RD 108, SCVWD, Zone 7	44,161.04	
Cameron-Daniel, P.C.	37,711.40	
Aces - July 2024	32,916.67	
California Dept Tax and Fees	21,296.00	
Arvin-Edison Water Storage District-Treasurer	8,069.84	
White Pines Solar Santa Clara WD - June 2024	4,086.19	
Michael McCarty Law Office, PLLC	3,000.00	
Barbich Hooper King - 2023 Financial Audit	1,840.00	
Bank Fees	500.00	
Braun Blaising & Wynne, P.C.	389.41	
Holland and Knight	87.53	
Advanced Data Storage	44.50	
		4,696,180.65
BALANCE JULY 31, 2024		<u><u>\$ 23,834,111.70</u></u>

TREASURERS REPORT:

Operating Account:		
Tri Counties Bank - General Operating Account #1031821, yield 5.004%		\$ 8,943,630.99
Local Agency Investment Fund (LAIF) - Account # 90-39007, yield 4.516%		
Reserve Funds	\$ 4,752,071.08	
Cap & Trade Allowance Revenue	4,127,548.75	
		8,879,619.83
California Asset Management Program (CAMP) #6218-001, yield 5.44%		
Funds on Deposit	\$ 2,010,860.88	
Cap & Trade Allowance Revenue	4,000,000.00	
		6,010,860.88
TOTAL PWRPA FUNDS - JULY 31, 2024		<u><u>\$ 23,834,111.70</u></u>
Public Purpose Program (P-3) Tri Counties Bank Account #1031856, yield 5.004%		3,327,165.25
TOTAL FUNDS ON DEPOSIT WITH PWRPA - JULY 31, 2024		<u><u>\$ 27,161,276.95</u></u>
CAISO Collateral Deposit Account		2,377,001.00
Western Area Power Administration - PWRPA Trust Account		1,000.00
TOTAL FUNDS - PWRPA & OTHER AGENCIES - JULY 31, 2024		<u><u>\$ 29,539,277.95</u></u>

Treasurer's Notes:

All investments are placed in accordance with PWRPA's Statement of Investment Policy and Guidelines. The Treasurer's Report is presented on a cash basis, effective yields are based on most recent published information. PWRPA has sufficient cash flow to meet its obligations next month. Included in the Operating Funds above is the Board approved \$10,000,000 Reserve and Funds on Deposit from the following Participants:

Participant	Amount	Participant	Amount
Banta Carbona ID	\$ 22,476.04	Sonoma CWA	704,570.48
James ID	43,291.60	West Stanislaus ID	282,746.34
Glen-Colusa ID	118,183.47	Westlands WD	127,894.17
RD108	60,000.00	West Side ID	57,887.44
Santa Clara VWD	565,798.94	Zone 7	28,012.40

Total	\$ 2,010,860.88
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*Power and Water Resources Pooling Authority
P-3 Remaining Funds By Year
as of July 31, 2024*

Member Agency	2020	2021	2022	2023	2024	Total Available P-3 Funds	Expenditures	
	(a)	(b)	(c)	(d)	(e)	(f)	Total to Date (g)	July-24 (h)
Arvin-Edison WSD	\$0.00	\$0.00	\$0.00	\$363,832.60	\$140,232.04	\$504,064.64	\$5,570,834.85	\$0.00
Banta Carbona ID	0.00	0.00	0.00	0.00	25,433.48	25,433.48	598,771.22	0.00
Byron-Bethany ID	0.00	0.00	0.00	8,141.09	5,603.50	13,744.59	171,290.66	0.00
Cawelo WD	0.00	0.00	4,271.92	77,807.64	22,505.70	104,585.26	962,841.11	0.00
Glenn-Colusa ID	0.00	22,241.25	16,890.62	37,269.19	14,636.26	91,037.32	382,055.42	0.00
James ID	10,457.51	15,685.23	21,738.73	7,617.89	4,613.05	60,112.41	130,969.96	0.00
Lower Tule ID	0.00	0.00	34,283.20	42,122.57	14,755.90	91,161.67	331,806.44	0.00
Princeton ID	0.00	0.00	0.00	16,001.17	7,760.03	23,761.20	177,976.09	0.00
RD 108	390.68	16,362.76	12,132.54	13,840.26	5,088.71	47,814.95	226,642.90	0.00
Santa Clara Valley WD	0.00	0.00	0.00	54,969.15	35,839.41	90,808.56	901,682.87	0.00
Sonoma County WA	99,654.97	109,040.76	150,507.89	120,836.42	48,283.00	528,323.04	1,490,752.21	0.00
West Stanislaus ID	0.00	0.00	58,050.32	40,541.61	20,245.32	118,837.25	496,284.30	0.00
Westlands WD	0.00	102,451.51	1,100,668.62	243,316.28	134,613.59	1,581,050.00	5,531,125.34	0.00
Zone 7	0.00	0.00	0.00	35,062.39	11,261.43	46,323.82	148,727.16	0.00
Undesignated/Forfeited/Misc	0.00	0.00	0.00	0.00	0.00	107.06	35,133.04	0.00
Total	\$110,503.16	\$265,781.51	\$1,398,543.84	\$1,061,358.26	\$490,871.42	\$3,327,165.25	\$17,156,893.57	\$0.00
Exclusive access Date	08/03/24	08/02/25	08/01/26					

- (a) Three year exclusive access to these funds by agency begins on 8/04/21 and ends 08/03/24
- (b) Three year exclusive access to these funds by agency begins on 8/03/22 and ends 08/02/25
- (c) Three year exclusive access to these funds by agency begins on 8/02/23 and ends 08/01/26
- (d) 2023 P-3 collected
- (e) 2024 P-3 collected through July 2024
- (f) Total available P-3 Funds
- (g) Total P-3 expenditures since inception of program
- (h) P-3 expenditures July 2024

Power and Water Resources Pooling Authority
 Cap and Trade Allowance Revenue
 Pursuant to Resolution 13-04-05 and Resolution 21-11-14
 As of July 31, 2024

District	Resolution 13-04-05		Resolution 21-11-14				Total Revenue	Expenditures	Balance
	Allocation	Revenue	2021	2022	2023	2024			
Arvin-Edison	37.478%	\$3,421,905.95	\$208,146.78	\$831,876.00	\$855,689.42	\$508,289.39	\$5,825,907.54	\$3,921,905.95	\$1,904,001.59
Banta-Carbona	3.115%	284,413.18	33,717.30	132,634.85	145,589.41	74,538.31	670,893.05	635,001.49	35,891.56
Byron-Bethany	0.708%	64,643.51	5,278.35	20,240.47	20,602.13	11,491.37	122,255.83	122,255.83	0.00
Cawelo	8.447%	771,248.19	32,760.55	115,918.41	94,183.35	59,537.28	1,073,647.78	1,014,110.50	59,537.28
Glenn-Colusa	2.849%	260,126.21	23,174.67	86,307.16	74,702.20	41,745.44	486,055.68	486,055.68	0.00
James	0.798%	72,860.90	5,746.23	23,359.47	28,943.78	13,965.89	144,876.27	0.00	144,876.27
Lower Tule	1.005%	91,760.91	20,089.23	76,569.91	67,661.73	39,709.00	295,790.78	256,081.78	39,709.00
Princeton	1.334%	121,800.06	7,684.74	25,968.74	20,055.39	11,623.30	187,132.23	97,711.01	89,421.22
RD 108	1.368%	124,904.41	10,013.47	35,342.29	29,148.43	14,962.12	214,370.72	214,370.72	0.00
Santa Clara	4.853%	443,100.21	45,211.76	169,068.24	166,942.93	95,420.33	919,743.47	726,222.17	193,521.30
Sonoma	7.787%	710,987.29	71,470.54	275,734.34	277,421.66	154,225.23	1,489,839.06	196,000.00	1,293,839.06
West Stan	3.228%	294,730.57	31,345.36	119,698.69	134,401.03	71,840.52	652,016.17	150,789.15	501,227.02
Westlands	27.030%	2,467,957.68	202,357.42	796,569.54	1,084,844.98	562,165.55	5,113,895.17	1,390,020.55	3,723,874.62
Zone 7	0.000%	0.00	9,503.60	46,016.34	54,243.62	31,886.27	141,649.83	0.00	141,649.83
Total	100.000%	\$9,130,439.07	\$706,500.00	\$2,755,304.45	\$3,054,430.06	\$1,691,400.00	\$17,338,073.58	\$ 9,210,524.83	\$ 8,127,548.75

(a) Transferred as a Payment to power cost to help meet RPS

(b) GCID \$65,084.88 in approved projects remaining revenue transferred as a payment to power cost to help meet RPS

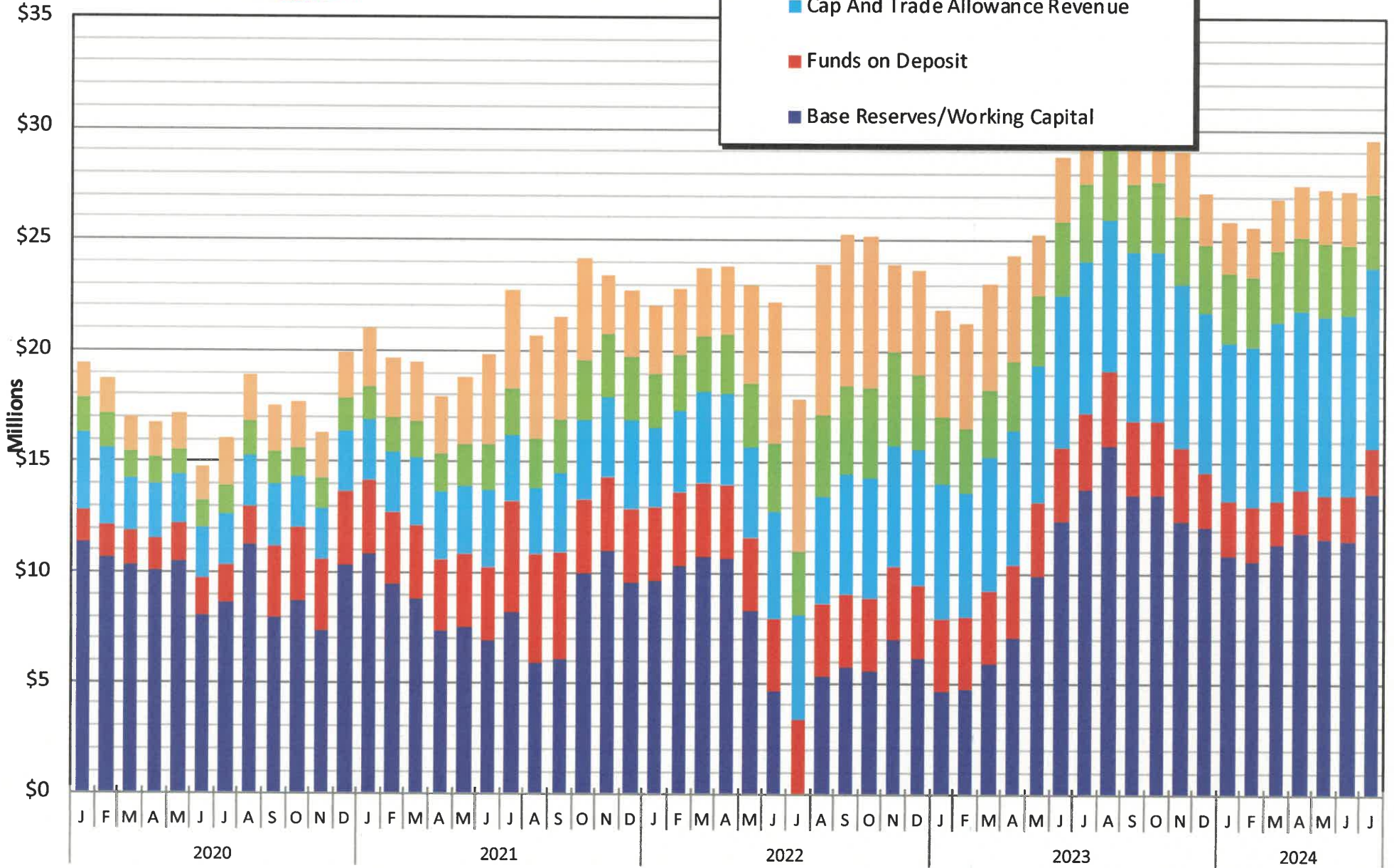
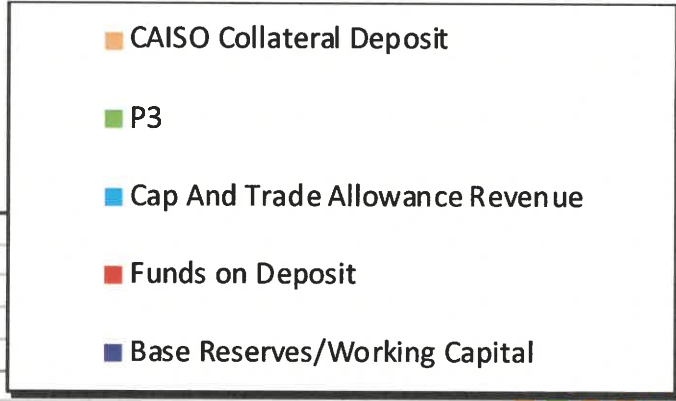
District	Exhibit B Allocation			
	2021	2022	2023	2024
Arvin	29.4617%	30.1918%	28.0147%	30.0514%
Banta Carbona	4.7724%	4.8138%	4.7665%	4.4069%
Byron Bethany	0.7471%	0.7346%	0.6745%	0.6794%
Cawelo	4.6370%	4.2071%	3.0835%	3.5200%
Glenn-Colusa	3.2802%	3.1324%	2.4457%	2.4681%
James	0.8133%	0.8478%	0.9476%	0.8257%
Lower Tule	2.8435%	2.7790%	2.2152%	2.3477%
Princeton	1.0877%	0.9425%	0.6566%	0.6872%
RD 108	1.4173%	1.2827%	0.9543%	0.8846%
Santa Clara	6.3994%	6.1361%	5.4656%	5.6415%
Sonoma	10.1161%	10.0074%	9.0826%	9.1182%
West Stan	4.4367%	4.3443%	4.4002%	4.2474%
Westlands	28.6422%	28.9104%	35.5171%	33.2367%
Zone 7	1.3452%	1.6701%	1.7759%	1.8852%
Total	100.0000%	100.0000%	100.0000%	100.0000%

Sale of Freely Allocated Allowances

Year	March	June	September	December	Total
2012				\$ 216,935.00	\$ 216,935.00
2013	136,200.00			370,080.76	506,280.76
2014		379,500.00	184,000.00	192,511.00	756,011.00
2015	195,360.00	196,640.00	200,320.00	212,934.71	805,254.71
2016	212,158.18	89,530.09	249,317.05	296,303.48	847,308.80
2017	115,168.59	371,399.40	265,500.00	260,748.84	1,012,816.83
2018	262,980.00	263,700.00	258,408.50	264,250.60	1,049,339.10
2019	283,140.00		446,160.00	461,227.00	1,190,527.00
2020	321,660.00		500,400.00	415,783.87	1,237,843.87
2021	445,000.00	480,622.00	582,500.00	706,500.00	2,214,622.00
2022	583,000.00	827,304.45	675,000.00	670,000.00	2,755,304.45
2023	501,300.00	758,250.00	880,000.00	914,880.06	3,054,430.06
2024	876,960.00	814,440.00	-	-	1,691,400.00
				Total	\$ 17,338,073.58

Resolution 13-04-05 \$9,130,439.07
 Resolution 21-11-14 8,207,634.51
\$17,338,073.58

SUMMARY TREASURER REPORT



POWER & WATER RESOURCES POOLING AUTHORITY

WIRE TRANSFERS

July 1 - 31, 2024

Transaction Number	Beneficiary Name	Credit Amount	Value Date
232833	CAISO Market Clearing	\$69,988.75	7/1/2024
232834	ACES Power Marketing	\$32,916.67	7/1/2024
233220	Cameron-Daniel, P.C.	\$37,711.40	7/3/2024
233221	Holland & Knight	\$87.53	7/3/2024
233614	CAISO Market Clearing	\$20,567.43	7/8/2024
234292	Slate 1 (Canadian Solar)	\$265,928.31	7/11/2024
234543	CAISO Market Clearing	\$149,642.65	7/15/2024
234544	WAPA O M	\$397,400.00	7/15/2024
234545	Western Area Power Administration	\$48,464.34	7/15/2024
234546	Pacific Gas and Electric	\$42,355.83	7/15/2024
234547	Pacific Gas and Electric	\$1,805.21	7/15/2024
234548	Garlock Energy, LLC	\$4,086.19	7/15/2024
235413	CAISO Market Clearing	\$1,509,525.65	7/22/2024
235414	Northern California Power Agency	\$158,724.00	7/22/2024
236383	Northern California Power Agency	\$155,562.00	7/29/2024
236384	Western Area Power Administration	\$826,366.61	7/29/2024
236385	Slate 1 (Canadian Solar)	\$285,374.89	7/29/2024
236386	CAISO Market Clearing	\$183,606.60	7/29/2024
236387	Whitney Point Solar LLC	\$156,191.27	7/29/2024
236388	Astoria 2 Operating	\$193,258.19	7/29/2024
236389	Trimark Associates, Inc.	\$49,776.15	7/29/2024
Total		4,589,339.67	

Power & Water Resources Pooling Authority

3. Operations Report – September 2024 update.

**Power and Water Resources Pooling Authority
September 2024 Update
Operations Manager Report**

Possible Action

n/a

Operations Staff Overview

1. Sept planned activity
 - a) 2025 Budget Prelim
 - b) RY2025 WDT3 model
 - c) 2025 RA Strategy
2. August recap
 - a) LTRID Hydro invoicing
 - b) Strategy/Board Meetings
 - c) 2023 Reconciliation

Operations Report:

1. Pre-Reconciliation
 - a) Actual data for Jan-July, August-December estimates.
 - b) CP4 REC procurement allocations/cost 95% complete now (finalize after allmeter data in for the year).

Table 1: 2024 Cash Flow

Cashflow Summary: January - December 2024							
Participant	Power Invoice	Power & Ops Costs	P3	Direct Consulting, Prior Period,	Change in Reserve Estimate	Total Costs	Over/(Under) Funded
Arvin-Edison	\$ 12,822,974	\$ 11,625,347	\$ 331,322	\$ (9,522)	\$ 79,341	\$ 12,026,488	\$ 796,486
Banta-Carbona	\$ 1,825,566	\$ 1,657,277	\$ 47,232	\$ (1,831)	\$ (9,680)	\$ 1,692,998	\$ 132,568
Byron-Bethany	\$ 393,163	\$ 351,268	\$ 10,011	\$ (11,682)	\$ (223)	\$ 349,373	\$ 43,789
Cawelo	\$ 2,159,636	\$ 2,012,871	\$ 57,367	\$ (168)	\$ (3,560)	\$ 2,066,511	\$ 93,125
Glenn-Colusa	\$ 1,201,731	\$ 1,086,863	\$ 30,976	\$ (41,334)	\$ (6,037)	\$ 1,070,468	\$ 131,264
James	\$ 435,796	\$ 402,965	\$ 11,485	\$ (560)	\$ (139)	\$ 413,751	\$ 22,045
Lower Tule	\$ 1,231,492	\$ 1,110,865	\$ 31,660	\$ (275)	\$ (11,451)	\$ 1,130,799	\$ 100,693
Princeton	\$ 579,411	\$ 483,607	\$ 13,783	\$ 309	\$ 2,569	\$ 500,268	\$ 79,143
RD108	\$ 449,927	\$ 397,795	\$ 11,337	\$ (14,820)	\$ (14,879)	\$ 379,433	\$ 70,493
Santa Clara	\$ 2,770,598	\$ 2,554,305	\$ 72,798	\$ 10,019	\$ (23,353)	\$ 2,613,768	\$ 156,830
Sonoma	\$ 4,020,376	\$ 3,457,401	\$ 98,536	\$ (2,713)	\$ (30,047)	\$ 3,523,178	\$ 497,199
West Stan	\$ 1,555,121	\$ 1,172,883	\$ 33,427	\$ (2,112)	\$ (19,510)	\$ 1,184,688	\$ 370,433
Westlands	\$ 9,573,449	\$ 8,850,782	\$ 252,247	\$ (29,894)	\$ 53,273	\$ 9,126,408	\$ 447,041
Zone 7	\$ 1,041,370	\$ 851,128	\$ 24,257	\$ 773	\$ (16,303)	\$ 859,855	\$ 181,515
PWRPA	\$ 40,060,609	\$ 36,015,356	\$ 1,026,438	\$ (103,809)	\$ (0)	\$ 36,937,985	\$ 3,122,624

**Power and Water Resources Pooling Authority
September 2024 Update
Operations Manager Report**

Table 2: 2024 Cost of Service

Cost of Service Summary: January - December 2024					
Participant	Metered Energy (kWh)	Power & Ops Costs	Cap & Trade Revenue	Net Cost of Service	Composite Rate, (cent/kWh)
Arvin-Edison	113,500,919	\$ 11,625,347	\$ (508,289)	\$ 11,117,058	\$ 9.79
Banta-Carbona	16,892,017	\$ 1,657,277	\$ (74,538)	\$ 1,582,738	\$ 9.37
Byron-Bethany	2,835,309	\$ 351,268	\$ (11,491)	\$ 339,776	\$ 11.98
Cawelo	17,661,585	\$ 2,012,871	\$ (59,537)	\$ 1,953,334	\$ 11.06
Glenn-Colusa	11,344,665	\$ 1,086,863	\$ (41,745)	\$ 1,045,117	\$ 9.21
James	2,796,941	\$ 402,965	\$ (13,966)	\$ 389,000	\$ 13.91
Lower Tule	10,140,783	\$ 1,110,865	\$ (39,709)	\$ 1,071,156	\$ 10.56
Princeton	4,281,119	\$ 483,607	\$ (11,623)	\$ 471,984	\$ 11.02
RD108	2,783,833	\$ 397,795	\$ (14,962)	\$ 382,833	\$ 13.75
Santa Clara	20,877,296	\$ 2,554,305	\$ (95,420)	\$ 2,458,884	\$ 11.78
Sonoma	34,624,894	\$ 3,457,401	\$ (154,225)	\$ 3,303,176	\$ 9.54
West Stan	13,323,199	\$ 1,172,883	\$ (71,841)	\$ 1,101,042	\$ 8.26
Westlands	57,390,524	\$ 8,850,782	\$ (562,166)	\$ 8,288,616	\$ 14.44
Zone 7	6,493,414	\$ 851,128	\$ (31,886)	\$ 819,241	\$ 12.62
TOTAL	314,946,496	\$ 36,015,356	\$ (1,691,400)	\$ 34,323,956	\$ 10.90

2. July operations
 - a) Energy served is 5% over budget for month, 5% below for the year.
 - b) Load averaged 67MW, 3MW below last month
 - c) Average schedule deviation of 3MW for an estimated cost of \$4,000.
3. Pricing
 - a) Average monthly prices:

Table 3: Average monthly cost and ISO revenue rates

	Cost	Revenue
BR	\$ 16.50	\$ (49.85)
Displacement	\$ 16.50	\$ (46.78)
WWD BOR	\$ -	\$ (53.22)
Whitney Point	\$ 58.75	\$ (32.46)
Astoria	\$ 63.00	\$ (39.61)
Slate	\$ 26.81	\$ (38.08)
*Lodi	\$ 68.58	\$ (68.50)
Market		

**Lodi is energy only (no debt)*

Power and Water Resources Pooling Authority
September 2024 Update
Operations Manager Report

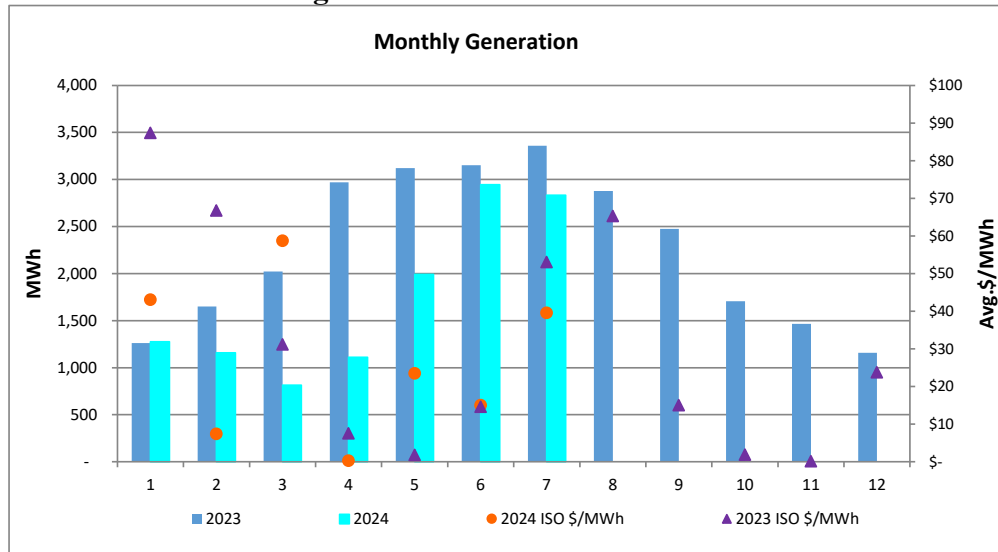
Generator Reports

1. Astoria Solar

a) Generation

- 2,833 MWh, 38% capacity factor
- Net credit \$143,000 or \$50 /MWh
- Generation output back to normal

Figure 1: Astoria Generation



- Similar trend of negative pricing to last year

Table 4: Astoria pricing summary

July 2024 - Pricing Analysis, Rates in \$/MWh		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	24	156
	Total MWh	16	126
	Average LMP	\$ (1.92)	\$ (13.17)
	Maximum LMP	\$ (0.02)	\$ (0.03)
	Minimum LMP	\$ (8.98)	\$ (34.19)
Positively Priced Intervals (5min) w/ Generation	Count	5,070	5,021
	Total MWh	2,817	3,231
	Average LMP	\$ 41.70	\$ 58.84
	Maximum LMP	\$ 1,001.45	\$ 1,053.17
	Minimum LMP	\$ 0.00	\$ 0.01

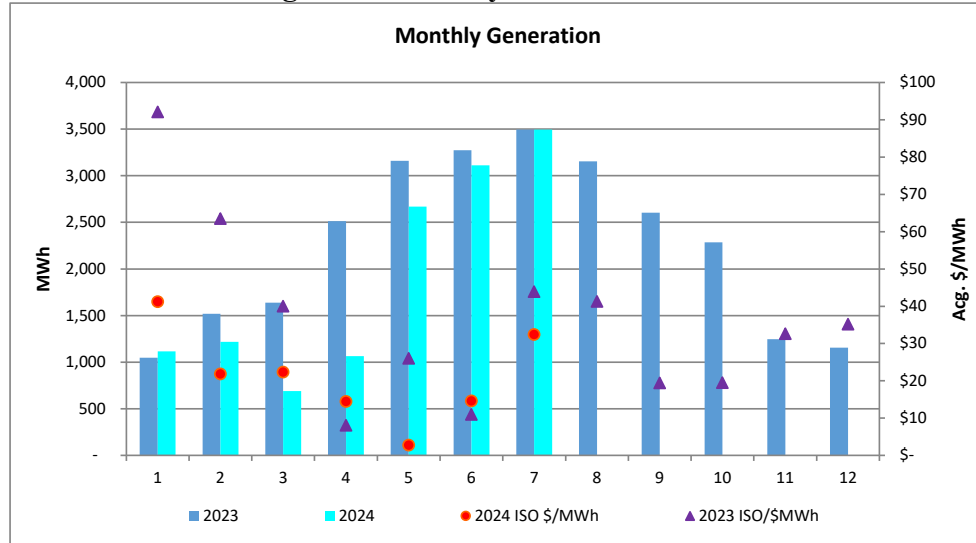
2. Whitney Point Solar

a) Generation

- 3,495 MWh, 43% capacity factor
- Net credit \$133,000, or \$38 /MWh
- Generator output

Power and Water Resources Pooling Authority
September 2024 Update
Operations Manager Report

Figure 2: Whitney Point Generation



- Negative Pricing:

Table 5: Whitney Point pricing summary

July 2024 - Pricing Analysis, Rates in \$/MWh		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	318	24
	Total MWh	270	11
	Average LMP	\$ (7.54)	\$ (22.50)
	Maximum LMP	\$ (0.00)	\$ (7.09)
	Minimum LMP	\$ (26.11)	\$ (35.09)
Positively Priced Intervals (5min) w/ Generation	Count	4,873	5,201
	Total MWh	3,225	3,483
	Average LMP	\$ 49.20	\$ 52.23
	Maximum LMP	\$ 1,183.61	\$ 1,000.03
	Minimum LMP	\$ 0.01	\$ 2.23

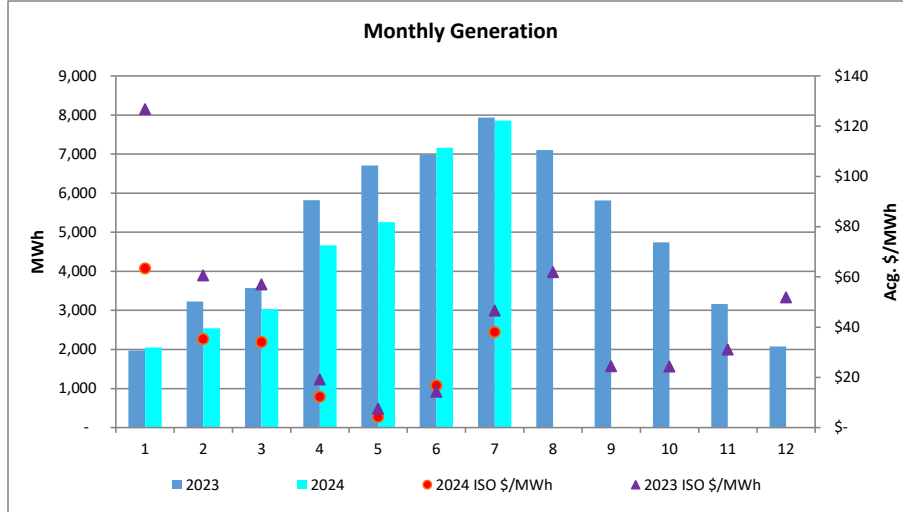
3. Slate Solar + Battery

a) Generation

- 7,857 MWh, 41% capacity factor
- Net credit of \$748,000, or 95 /MWh
- Generation overview

Power and Water Resources Pooling Authority
September 2024 Update
Operations Manager Report

Figure 3: Slate Generation



- Pricing review:

Table 6: Slate pricing summary

July 2024 - Pricing Analysis, Rates in \$/MWh		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	388	77
	Total MWh	639	105
	Average LMP	\$ (11.12)	\$ (8.73)
	Maximum LMP	\$ (0.00)	\$ (0.30)
	Minimum LMP	\$ (75.00)	\$ (38.10)
Positively Priced Intervals (5min) w/ Generation	Count	5,464	5,869
	Total MWh	7,218	7,829
	Average LMP	\$ 37.85	\$ 48.74
	Maximum LMP	\$ 999.21	\$ 903.70
	Minimum LMP	\$ 0.01	\$ 0.10

4. Lodi Energy Center

a) Generation

- 2,796 MWh, 47% capacity factor
- Net credit of \$14,000, or 5 /MWh
- Run time: 27 days for the month, 12 days continuous
- Staff activity:
 - FX upgraded: GES vote was successful, project will move forward
 - Hydrogen: Presentation on current economics

Power and Water Resources Pooling Authority

September 2024 Update

Operations Manager Report

Power Planning & Regulatory

1. Power Net Short
 - a) WAPA's current forecast is June 1, 2024.
 - b) Staff looking at the reduction of forward power prices and could consider purchasing off-peak power for 2025.

Table 7: On- and Off-peak Power Net Short

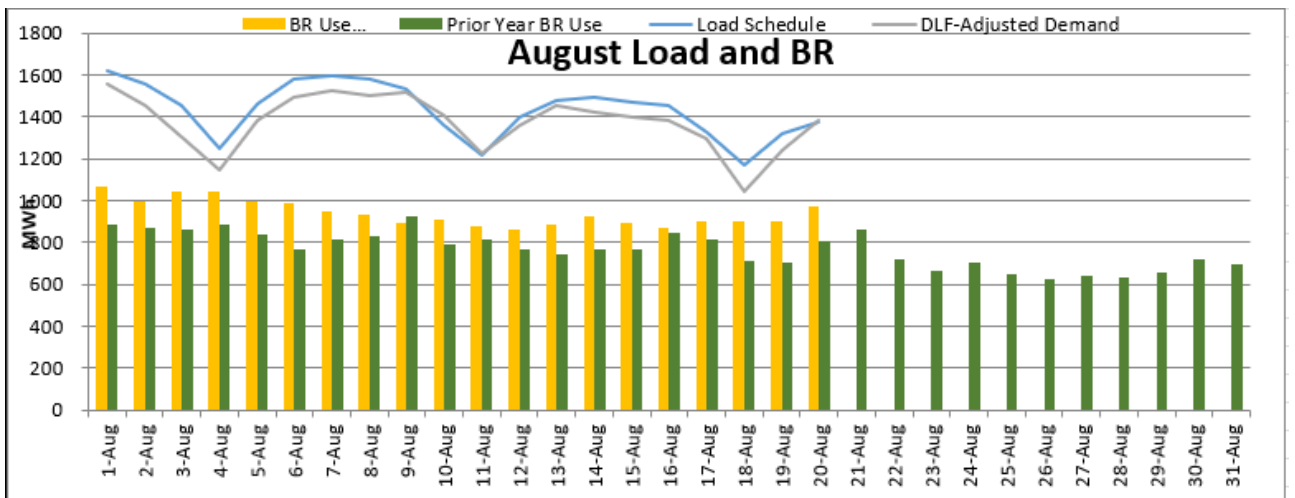
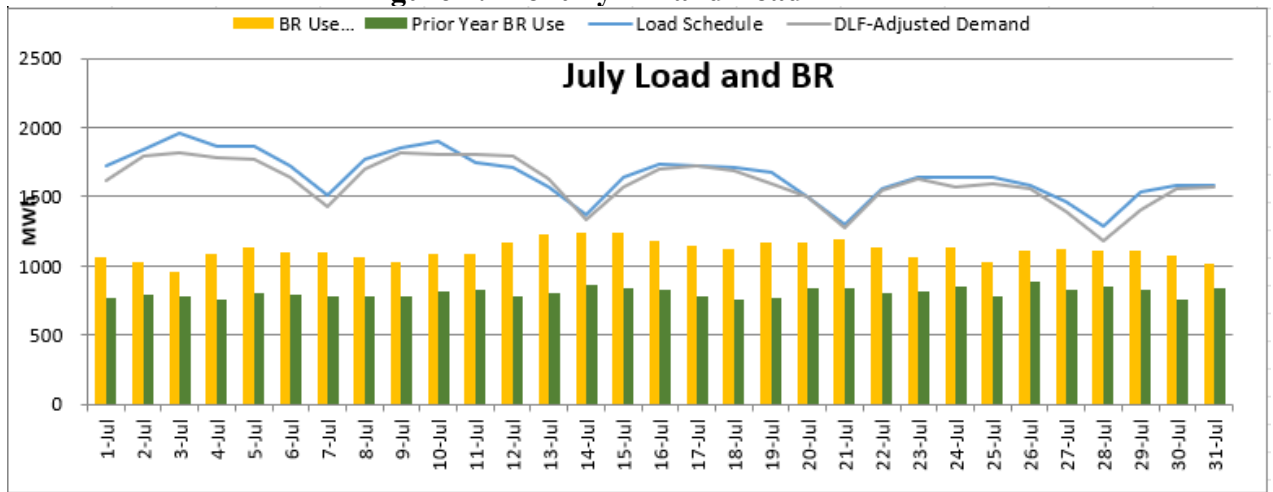
August 2024 NSP															
ON-PEAK	Demand, MW			Resources, MW			On Peak			Net (Short)/Long based on RMP				8/2/2024 Forward Mkt	Change from last NSP
	Wet	Average	Dry	Wet	Average	Dry	Net Long/(Short), MW			RMP	Wet	Average	Dry		
							Wet	Average	Dry						
8/1/2024	52.1	64.9	71.8	74.8	71.0	78.7	22.8	6.2	6.9	100%	22.8	6.2	6.9	\$ 64.00	\$ (17.22)
9/1/2024	39.4	52.1	55.1	65.6	52.9	55.5	26.2	0.7	0.3	100%	26.2	0.7	0.3	\$ 54.83	\$ (13.82)
10/1/2024	31.5	43.0	48.3	59.3	38.2	39.5	27.7	(4.8)	(8.8)	90%	30.9	(0.5)	(4.0)	\$ 44.98	\$ (10.01)
11/1/2024	20.8	26.4	25.1	68.1	21.3	24.9	47.3	(5.1)	(0.1)	90%	49.3	(2.5)	2.4	\$ 56.87	\$ (7.20)
12/1/2024	12.7	13.6	16.1	70.1	14.6	17.3	57.4	1.0	1.2	70%	61.2	5.1	6.0	\$ 77.13	\$ (9.55)
1/1/2025	15.6	16.3	17.5	63.6	20.4	20.4	48.1	4.1	2.9	70%	52.7	9.0	8.2	\$ 84.77	\$ (12.40)
2/1/2025	21.9	29.5	32.5	60.9	36.4	34.8	39.0	6.9	2.4	70%	45.6	15.7	12.1	\$ 67.81	\$ (4.56)
3/1/2025	25.3	33.4	43.1	61.0	47.9	43.0	35.8	14.5	(0.1)	50%	48.4	31.2	21.4	\$ 37.09	\$ (1.58)
4/1/2025	38.9	57.9	72.2	57.7	69.2	58.4	18.7	11.3	(13.8)	50%	38.2	40.2	22.3	\$ 37.73	\$ 4.51
5/1/2025	49.6	78.5	97.9	60.9	73.5	66.9	11.3	(5.0)	(31.0)	50%	36.1	34.3	18.0	\$ 29.53	\$ (0.49)
6/1/2025	60.4	82.8	100.2	59.1	62.3	67.3	(1.3)	(20.5)	(32.8)	50%	28.9	20.9	17.2	\$ 37.90	\$ (5.63)
7/1/2025	62.3	81.7	98.5	60.8	76.1	77.3	(1.4)	(5.6)	(21.2)	50%	29.7	35.3	28.0	\$ 64.17	\$ (5.65)
8/1/2025	51.5	67.3	81.3	69.2	77.7	78.5	17.7	10.4	(2.8)	50%	43.4	44.0	37.9	\$ 81.29	\$ 0.29
9/1/2025	38.0	51.1	64.4	65.6	63.1	54.8	27.6	12.0	(9.5)	50%	46.6	37.5	22.6	\$ 67.34	\$ (8.09)
10/1/2025	30.8	43.2	55.4	42.3	41.3	39.6	11.5	(1.9)	(15.8)	50%	26.9	19.7	11.9	\$ 55.56	\$ (4.66)
11/1/2025	19.2	23.3	25.8	36.6	31.9	31.0	17.4	8.6	5.2	50%	27.0	20.2	18.1	\$ 67.64	\$ (3.41)
12/1/2025	12.2	14.0	16.2	54.2	17.1	17.9	41.9	3.1	1.7	30%	50.5	12.9	13.0	\$ 97.98	\$ (4.81)

Off Peak															
Off-Peak	Demand, MW			Resources, MW			Net Long/(Short), MW			Net (Short)/Long based on RMP				8/2/2024 Forward Mkt	Change from last NSP
	Wet	Average	Dry	Wet	Average	Dry	Net Long/(Short), MW			RMP	Wet	Average	Dry		
							Wet	Average	Dry						
8/1/2024	46.2	56.4	61.5	40.9	38.0	43.9	(5.3)	(18.4)	(17.6)	100%	(5.3)	(18.4)	(17.6)	\$ 46.07	\$ (6.43)
9/1/2024	34.8	44.8	46.6	41.8	31.3	33.4	7.0	(13.5)	(13.2)	100%	7.0	(13.5)	(13.2)	\$ 44.68	\$ (9.08)
10/1/2024	26.1	34.2	36.9	45.8	23.5	24.9	19.7	(10.7)	(12.0)	90%	22.3	(7.3)	(8.3)	\$ 44.94	\$ (7.61)
11/1/2024	18.1	22.3	20.6	31.5	6.7	8.6	13.4	(15.6)	(12.0)	90%	15.2	(13.4)	(9.9)	\$ 52.69	\$ (8.34)
12/1/2024	12.6	13.5	15.8	22.4	4.5	5.4	9.8	(9.0)	(10.4)	70%	13.6	(4.9)	(5.7)	\$ 70.45	\$ (8.99)
1/1/2025	13.4	14.0	14.9	33.9	9.3	9.3	20.6	(4.7)	(5.7)	70%	24.6	(0.5)	(1.2)	\$ 69.34	\$ (12.86)
2/1/2025	18.9	26.1	29.3	42.3	20.3	18.9	23.5	(5.8)	(10.4)	70%	29.1	2.0	(1.6)	\$ 65.53	\$ (6.84)
3/1/2025	20.6	27.9	36.1	38.8	27.2	22.9	18.2	(0.7)	(13.3)	50%	28.5	13.2	4.8	\$ 45.19	\$ (5.00)
4/1/2025	27.6	43.0	54.5	32.2	41.9	32.8	4.6	(1.2)	(21.6)	50%	18.4	20.3	5.6	\$ 42.81	\$ (0.50)
5/1/2025	39.9	62.9	78.3	44.9	59.2	51.7	5.0	(3.7)	(26.5)	50%	25.0	27.8	12.6	\$ 37.99	\$ 0.93
6/1/2025	57.2	79.0	95.6	50.8	55.7	63.4	(6.4)	(23.3)	(32.2)	50%	22.2	16.2	15.6	\$ 42.40	\$ (7.84)
7/1/2025	51.6	67.7	81.5	52.8	76.0	77.7	1.2	8.3	(3.8)	50%	27.0	42.1	37.0	\$ 53.22	\$ (8.26)
8/1/2025	45.9	58.4	69.5	41.2	47.8	48.4	(4.6)	(10.6)	(21.1)	50%	18.3	18.6	13.7	\$ 64.52	\$ (1.75)
9/1/2025	33.9	43.9	54.2	38.2	36.1	29.3	4.4	(7.8)	(24.9)	50%	21.3	14.2	2.2	\$ 59.84	\$ (11.07)
10/1/2025	25.6	33.7	41.7	27.7	26.7	24.9	2.1	(7.0)	(16.8)	50%	14.9	9.8	4.0	\$ 53.35	\$ (4.91)
11/1/2025	17.1	19.7	21.2	14.9	12.4	12.0	(2.1)	(7.3)	(9.2)	50%	6.4	2.6	1.4	\$ 65.94	\$ (3.33)
12/1/2025	12.3	14.0	16.0	18.7	6.8	7.0	6.4	(7.2)	(8.9)	30%	15.0	2.6	2.2	\$ 89.90	\$ (4.47)

Power and Water Resources Pooling Authority
September 2024 Update
Operations Manager Report

- 2. Base Resource:
 - a) Staff activity:
 - b) More Extended Day-ahead Market (EDAM) meetings. Changes will formally allow BR to count for RA. Changes how we schedule BR. This could eliminate the Displacement Program.
 - c) Covered 70% of load for July and 69% of August so far

Figure 4: Monthly BR and Load



- 3. Regulatory Items
 - a) No updates at this time