

**Power & Water Resources Pooling
Authority**

Information Packet

Wednesday, November 6, 2024

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

Power & Water Resources Pooling Authority

1. GM Comments and 2023 Power Content Label

Power and Water Resources Pooling Authority

November 6, 2024 Information Packet

GM Comments

BOARD MEETING PLANNER

The Regular Board Meeting will be held on Monday, December 9 at the Banta Carbona Irrigation District, 3504 W. Lehman Rd., Tracy, CA 95304. In addition to the usual matters, proposed subjects for the meeting are:

- Consider and possibly approve the 2025 Annual Budget
- Consider and possibly approve the 2023 Power Content Label
- Appoint Officers for 2025
- RPS update for the short, medium and long-term
- Power project discussion (current and future projects)
- WDT3/WDT4 updates for 2025
- Strategic business unit & staffing transitions beginning in 2025
- Office hours and Whiteboard Sessions

REGULAR OFFICE HOURS AND OPTIONAL WHITEBOARDING SESSIONS

I am continuing my expanded office hours in November. Anyone is welcome to drop-in with questions. I am adding 2 optional Whiteboard Sessions in November to discuss auxiliary loads for onsite solar sites. This issue has arisen due to delays in the generator interconnection request queue at the CAISO. The next cluster study has been delayed until 2026 and certain projects may not be approved until late in 2026 or 2027. Accordingly, we are contemplating applying for non-export interconnection approval for onsite solar projects which should take only a matter of months. An auxiliary load is necessary for the purpose of consuming all the generated electricity *that is excess to the actual onsite pumping load*. For many ag sites, that condition may last for several months during the winter. Having an auxiliary load to consume the “non-exported excess” will enable capturing the value of Bucket 1 RECs. Our whiteboarding, however, will consider the full spectrum (from obviously reasonable to intentionally crazy) of economically beneficial auxiliary loads that can be co-located with the solar generation facility.

- Monday at 8-9 A.M. Office Hours on November 11, 18, 25
- Thursday at 3-4 P.M. Office Hours on November 14, 21 (not on 28)
- Wednesday at 8-9 A.M. Whiteboarding Session: Auxiliary Loads for Onsite Solar on November 13
- Wednesday at 3-4 P.M. Whiteboarding Session: Auxiliary Loads for Onsite Solar on November 20

PG&E WDT3 ANNUAL UPDATE AND WDT4 FILING

Pursuant to the WDT3 Formula Rate Protocols, PG&E provided its Draft Annual Update for the Rate Year 2025. The WDT3 Formula Rate has been in effect since April 15, 2021. PG&E submitted its new WDT4 filing on October 25, 2024. This filing is pursuant to the Commission-approved WDT3 Partial Settlement that requires PG&E to file a new Formula Rate on or before

Power and Water Resources Pooling Authority

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GM Comments

November 1, 2024. PG&E is proposing that the WDT4 Formula Rate replace the WDT3 Formula Rate with rates to go into effect on January 1, 2025. 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.

2023 RECONCILIATION

The review period for the 2023 Reconciliation ends on November 7, 2024, after which it shall become final.

2023 POWER CONTENT LABEL

The 2023 Power Content Label is included for your review. It shows that both the Zero Carbon Water Portfolio (SCWA, SCVWD, Z7) and the Standard Water Portfolio had significantly lower GHG emissions intensities than the 2023 California Utility Average. The PCL is posted on the PWRPA website.

2023 POWER CONTENT LABEL

Power & Water Resources Pooling Authority

www.pwrpa.org/power-content-label/

Greenhouse Gas Emissions Intensity (lbs CO ₂ e/MWh)			Energy Resources	Standard Water Portfolio	Zero Carbon Water Portfolio	2023 CA Power Mix
Standard Water Portfolio	Zero Carbon Water Portfolio	2023 CA Utility Average	Eligible Renewable¹	43.4%	35.6%	36.9%
45	0	373	Biomass & Biowaste	0.0%	0.0%	2.1%
<p>A bar chart comparing the greenhouse gas emissions intensity of three portfolios. The y-axis represents intensity in lbs CO₂e/MWh, ranging from 0 to 1000. The x-axis lists the portfolios: Electricity Portfolio 1 Name (Standard Water Portfolio), Zero Carbon Water Portfolio, and 2023 CA Utility Average. The Standard Water Portfolio has an intensity of 45, the Zero Carbon Water Portfolio has 0, and the 2023 CA Utility Average is 373.</p>			Geothermal	0.0%	0.0%	4.8%
			Eligible Hydroelectric	2.7%	0.5%	1.8%
			Solar	40.7%	35.1%	17.0%
			Wind	0.0%	0.0%	11.2%
			Coal	0.0%	0.0%	1.8%
			Large Hydroelectric	51.4%	64.4%	11.7%
			Natural Gas	5.2%	0.0%	36.6%
			Nuclear	0.0%	0.0%	9.3%
			Other	0.0%	0.0%	0.1%
			Unspecified Power²	0.0%	0.0%	3.7%
TOTAL				100.0%	100.0%	100.0%
Percentage of Retail Sales Covered by Retired Unbundled RECs³:				2%	0%	
<p>¹The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.</p> <p>²Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.</p> <p>³Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.</p>						
For specific information about this electricity portfolio, contact:			Power & Water Resources Pooling Authority			
			(916) 531-5566			
For general information about the Power Content Label, visit:			https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure-program			

Power & Water Resources Pooling Authority

2. Treasurer's Report for Month Ending September 30, 2024.



POWER AND WATER RESOURCES POOLING AUTHORITY

DISBURSEMENT LIST

October 2024

Check #	Vendor-name	Payment-description	Check-amount
3594	California Department of Tax and Fee	Electrical Energy Surcharge Return	\$ 40,658.00
3595	Advanced Data Storage	Document Storage - October 2024	44.50
3596	Arvin-Edison Water Storage District	Treasurer's Duties	6,551.67
3597	Braun Blaising & Wynne, P.C.	Legal Services - September 2024	381.64
3598	California Special Districts Association	2025 Membership	2,300.00
3599	Michael McCarty Law Office PLLC	Consultant	3,000.00
3600	Robertson Bryan Inc.	Consultant	54,140.39
3601	Westlands Water District	Lunch Reimbursement - October 2024	270.42
Sub-Total			<u>\$ 107,346.62</u>
Wire Transfers:			
Wire	Cameron-Daniel, P.C.	General Manager/General Council	\$ 39,868.65
Total			<u><u>\$ 147,215.27</u></u>

**POWER AND WATER RESOURCES POOLING AUTHORITY
CASH ACTIVITY AND TREASURER'S REPORT
MONTH ENDING SEPTEMBER 30, 2024**

CASH ACTIVITY:

BALANCE AUGUST 31, 2024		\$ 25,744,804.72
Increases:		
Power Billing Invoices	\$ 4,492,155.70	
GHG Auction	671,328.00	
APX Astoria	66,354.67	
NCPA - Displacement Program	44,203.28	
TCB - Monthly Interest	40,861.26	
CAISO	34,057.03	
CAMP - Monthly Interest	27,088.67	
		5,376,048.61
Decreases:		
AEWSD - Cap and Trade Project	\$ 1,904,001.59	
CAISO	1,157,629.96	
WAPA - Power August 2024	808,972.57	
Slate Solar - July 2024	245,108.07	
Recurrent Energy - Astoria Solar - August 2024	177,060.01	
WAPA O&M	156,605.00	
NextEra Whitney Point Solar - August 2024	125,140.03	
NCPA - LEC - September 2024	108,524.00	
Success Power - May - August 2024	69,624.57	
Robertson-Bryan, Inc	67,211.79	
Trimark - Cell, Meter Reading and T&M August 2024	48,019.71	
PG&E - GCID, RD 108, SCVWD, Zone 7	47,426.10	
Cameron-Daniel, P.C.	41,347.96	
ACES - September 2024	32,916.67	
WAPA Restoration - August 2024	22,870.90	
Special District Risk Management	20,846.09	
Arvin-Edison Water Storage District-Treasurer	9,929.85	
GL Renewables - August 2024	4,850.59	
White Pines Solar Santa Clara WD - August 2024	3,433.45	
Michael McCarty Law Office, PLLC	3,000.00	
GDS Associates, Inc.	1,724.10	
Bank Fees	500.00	
Braun Blaising & Wynne, P.C.	302.51	
Advanced Data Storage	44.50	
		5,057,090.02
BALANCE SEPTEMBER 30, 2024		\$ 26,063,763.31

TREASURERS REPORT:

Operating Account:		
Tri Counties Bank - General Operating Account #1031821, yield 4.756%		\$ 10,792,461.38
Local Agency Investment Fund (LAIF) - Account # 90-39007, yield 4.575%		
Reserve Funds	\$ 6,100,011.74	
Cap & Trade Allowance Revenue	2,894,875.16	
		8,994,886.90
California Asset Management Program (CAMP) #6218-001, yield 5.02%		
Cap & Trade Allowance Revenue	\$ 4,000,000.00	
Funds on Deposit	2,010,860.88	
Unallocated Interest	265,554.15	
		6,276,415.03
TOTAL PWRPA FUNDS - SEPTEMBER 30, 2024		\$ 26,063,763.31
Public Purpose Program (P-3) Tri Counties Bank Account #1031856, yield 4.756%		2,988,281.66
TOTAL FUNDS ON DEPOSIT WITH PWRPA - SEPTEMBER 30, 2024		\$ 29,052,044.97
CAISO Collateral Deposit Account		2,403,126.35
Western Area Power Administration - PWRPA Trust Account		1,000.00
TOTAL FUNDS - PWRPA & OTHER AGENCIES - SEPTEMBER 30, 2024		\$ 31,456,171.32

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	

Power and Water Resources Pooling Authority
P-3 Remaining Funds By Year
as of September 30, 2024

Member Agency	2020	2021	2022	2023	2024	Total Available P-3 Funds	Expenditures	
	(a)	(b)	(c)	(d)	(e)	(f)	Total to Date (g)	September-24 (h)
Arvin-Edison WSD	\$0.00	\$0.00	\$0.00	\$0.00	\$183,142.14	\$183,142.14	\$5,986,357.11	\$415,522.26
Banta Carbona ID	0.00	0.00	0.00	0.00	37,663.74	37,663.74	598,771.22	0.00
Byron-Bethany ID	0.00	0.00	0.00	8,141.09	8,253.38	16,394.47	171,290.66	0.00
Cawelo WD	0.00	0.00	4,271.92	77,807.64	44,343.46	126,423.02	962,841.11	0.00
Glenn-Colusa ID	0.00	22,241.25	16,890.62	37,269.19	25,387.42	101,788.48	382,055.42	0.00
James ID	0.00	4,419.78	21,738.73	7,617.89	8,877.32	42,653.72	152,692.92	0.00
Lower Tule ID	0.00	0.00	34,283.20	42,122.57	24,292.23	100,698.00	331,806.44	0.00
Princeton ID	0.00	0.00	0.00	16,001.17	11,784.15	27,785.32	177,976.09	0.00
RD 108	0.00	16,128.90	12,132.54	13,840.26	8,900.09	51,001.79	227,267.44	0.00
Santa Clara Valley WD	0.00	0.00	0.00	54,969.15	51,990.95	106,960.10	901,682.87	0.00
Sonoma County WA	0.00	33,695.73	150,507.89	120,836.42	75,714.24	380,754.28	1,665,752.21	0.00
West Stanislaus ID	0.00	0.00	58,050.32	40,541.61	32,947.71	131,539.64	496,284.30	0.00
Westlands WD	0.00	102,451.51	1,100,668.62	243,316.28	181,228.43	1,627,664.84	5,531,125.34	0.00
Zone 7	0.00	0.00	0.00	35,062.39	18,642.67	53,705.06	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	\$0.00	\$178,937.17	\$1,398,543.84	\$697,525.66	\$713,167.93	\$2,988,281.66	\$17,769,763.33	\$415,522.26
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 ended 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 September 2024
- (f) Total available P-3 Funds
- (g) Total P-3 expenditures since inception of program
- (h) P-3 expenditures September 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 September 30, 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	\$710,032.83	\$6,027,650.98	\$5,825,907.54	\$201,743.44
Banta-Carbona	3.115%	284,413.18	33,717.30	132,834.85	145,589.41	104,123.06	700,477.80	635,001.49	65,476.31
Byron-Bethany	0.708%	64,643.51	5,278.35	20,240.47	20,602.13	16,052.37	126,816.83	122,255.83	4,561.00
Cawelo	8.447%	771,248.19	32,760.55	115,918.41	94,183.35	83,168.03	1,097,278.53	1,014,110.50	83,168.03
Glenn-Colusa	2.849%	260,126.21	23,174.87	86,307.16	74,702.20	58,314.49	502,624.73	486,055.68	16,569.05
James	0.798%	72,860.90	5,746.23	23,358.47	28,943.78	19,509.05	150,419.43	0.00	150,419.43
Lower Tule	1.005%	91,760.91	20,089.23	76,569.91	67,661.73	55,469.77	311,551.55	256,081.78	55,469.77
Princeton	1.334%	121,800.06	7,684.74	25,968.74	20,055.39	16,236.67	191,745.60	97,711.01	94,034.59
RD 108	1.366%	124,904.41	10,013.47	35,342.29	29,148.43	20,900.69	220,309.29	214,370.72	5,938.57
Santa Clara	4.853%	443,100.21	45,211.76	169,068.24	166,942.93	133,293.30	957,616.44	726,222.17	231,394.27
Sonoma	7.787%	710,987.29	71,470.54	275,734.34	277,421.66	215,438.28	1,551,052.09	196,000.00	1,355,052.09
West Stan	3.228%	294,730.57	31,345.36	119,698.69	134,401.03	100,354.51	680,530.16	150,789.15	529,741.01
Westlands	27.030%	2,467,957.68	202,357.42	796,569.54	1,084,844.98	785,292.82	5,337,022.44	1,390,020.55	3,947,001.89
Zone 7	0.000%	0.00	9,503.60	46,016.34	54,243.62	44,542.15	154,305.71	0.00	154,305.71
Total	100.000%	\$9,130,439.07	\$706,500.00	\$2,755,304.45	\$3,054,430.06	\$2,362,728.00	\$18,009,401.58	\$ 11,114,526.42	\$ 6,894,875.16

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

(b) GCID \$65,084.68 in approved projects remaining revenue transferred as a payment to power cost to help meet RPS

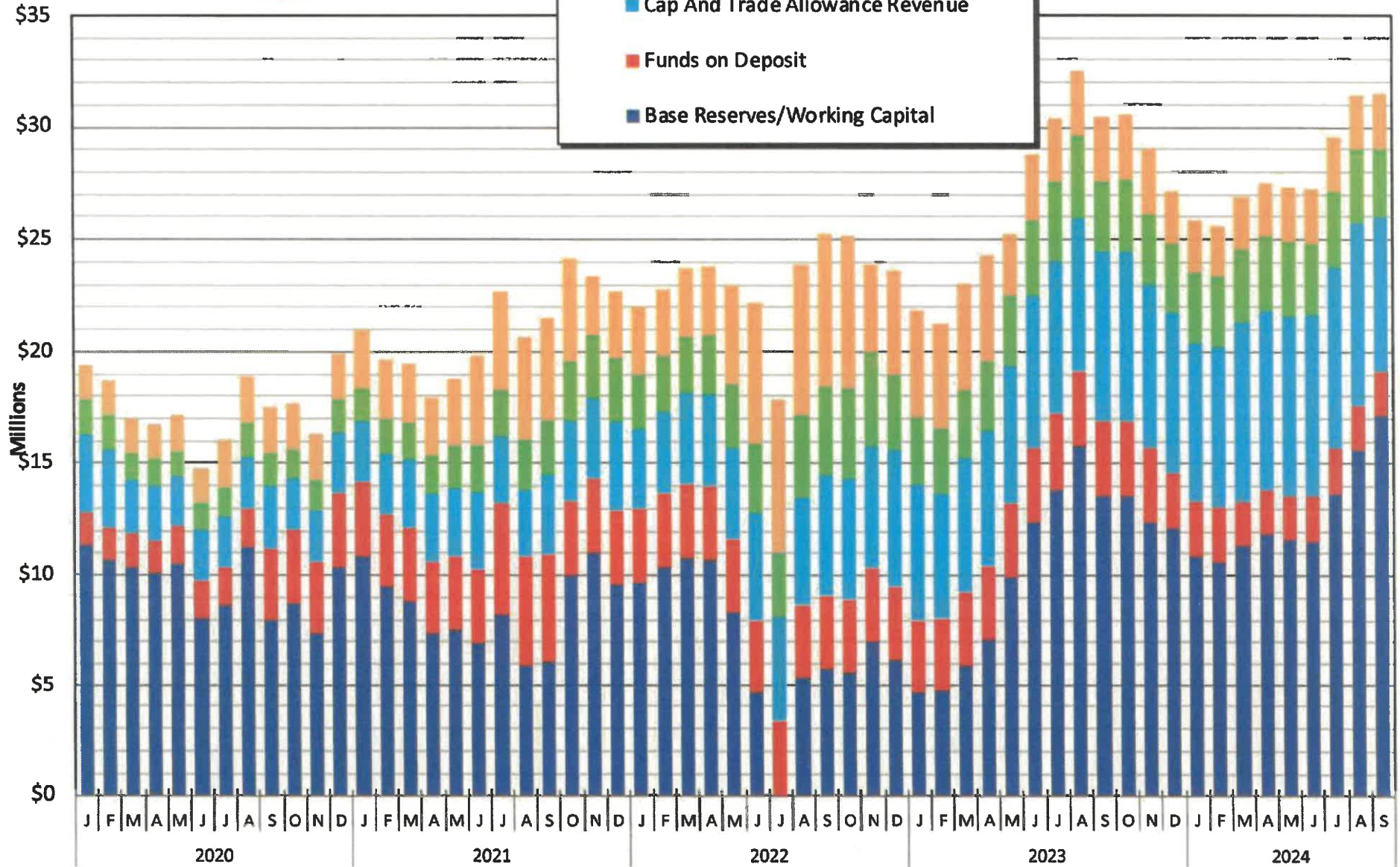
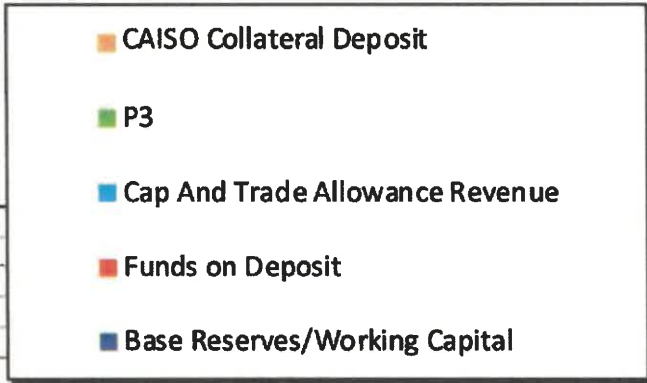
District	Exhibit B Allocation			
	2021	2022	2023	2024
Arvin	29.4617%	30.1918%	28.0147%	30.0514%
Banta Carbona	4.7724%	4.8138%	4.7665%	4.4069%
Byron Bethany	0.7471%	0.7346%	0.6745%	0.6794%
Cawelo	4.6370%	4.2071%	3.0835%	3.5200%
Glenn-Colusa	3.2802%	3.1324%	2.4457%	2.4681%
James	0.8133%	0.8478%	0.9476%	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	26.6422%	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	115,168.69	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	321,860.00		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	914,880.08	3,054,430.06
2024	878,960.00	814,440.00	671,328.00	-	2,362,728.00
Total					\$ 18,009,401.58

Resolution 13-04-05 \$9,130,439.07
 Resolution 21-11-14 8,878,962.51
\$18,009,401.58

SUMMARY TREASURER REPORT



POWER & WATER RESOURCES POOLING AUTHORITY

WIRE TRANSFERS

September 1 - 30, 2024

Transaction Number	Beneficiary Name	Credit Amount	Value Date
241254	ACES Power Marketing	\$32,916.67	9/3/2024
241255	CAISO Market Clearing	\$11,489.67	9/3/2024
241265	Success Power Project (Lower Tule)	\$1.00	9/3/2024
241417	Cameron-Daniel, P.C.	\$41,347.96	9/4/2024
241666	Success Power Project (Lower Tule)	\$44,767.01	9/5/2024
242087	Pacific Gas and Electric	\$45,620.59	9/9/2024
243036	WAPA O M	\$156,605.00	9/16/2024
243037	Pacific Gas and Electric	\$1,805.51	9/16/2024
243038	Western Area Power Administration	\$22,870.90	9/16/2024
243039	Slate 1 (Canadian Solar)	\$245,108.07	9/16/2024
243040	Garlock Energy, LLC	\$3,433.45	9/16/2024
243923	Success Power Project (Lower Tule)	\$24,856.56	9/23/2024
243924	CAISO Market Clearing	\$1,146,140.29	9/23/2024
243925	Northern California Power Agency	\$108,524.00	9/23/2024
243926	GL Renewables, LLC	\$4,850.59	9/23/2024
244937	Western Area Power Administration	\$808,972.57	9/30/2024
244938	Whitney Point Solar LLC	\$125,140.03	9/30/2024
244939	Astoria 2 Operating	\$177,060.01	9/30/2024
244940	Trimark Associates, Inc.	\$48,019.71	9/30/2024
Total		3,049,529.59	

Power & Water Resources Pooling Authority

3. Operations Report – October 2024 update.

Power and Water Resources Pooling Authority

October 2024 Update

Operations Manager Report

Possible Action

n/a

Operations Staff Overview

1. Nov Plan
 - a) 2025 Budget - Final
 - b) WDT4 model
 - c) District generation projects
2. Oct recap
 - a) 2025 Budget – First Look
 - b) 2025 RA Strategy
 - c) Solar BTM project support

Operations Report:

1. Pre-Reconciliation
 - a) Actual data for Jan-September, Oct-December estimates.
 - Results show impact of rate change implemented last month

Table 1: 2024 Cash Flow

Cashflow Summary: January - December 2024							
Participant	Power Invoice	Power & Ops Costs	P3	Direct Consulting, Prior Period, *C&T	Change in Reserve Estimate	Total Costs	Over/(Under) Funded
Arvin-Edison	\$ 10,958,266	\$ 10,519,045	\$ 299,793	\$ (79,154)	\$ 79,341	\$ 10,819,024	\$ 139,243
Banta-Carbona	\$ 1,884,382	\$ 1,700,843	\$ 48,474	\$ (13,591)	\$ (9,680)	\$ 1,726,046	\$ 158,336
Byron-Bethany	\$ 407,148	\$ 410,130	\$ 11,689	\$ (17,911)	\$ (223)	\$ 403,684	\$ 3,464
Cawelo	\$ 1,850,089	\$ 1,774,280	\$ 50,567	\$ (7,385)	\$ (3,560)	\$ 1,813,902	\$ 36,188
Glenn-Colusa	\$ 1,146,803	\$ 1,107,055	\$ 31,551	\$ (61,332)	\$ (6,037)	\$ 1,071,236	\$ 75,567
James	\$ 438,380	\$ 412,289	\$ 11,750	\$ (3,175)	\$ (139)	\$ 420,725	\$ 17,655
Lower Tule	\$ 1,148,770	\$ 1,045,862	\$ 29,807	\$ (4,981)	\$ (11,451)	\$ 1,059,237	\$ 89,533
Princeton	\$ 551,420	\$ 516,895	\$ 14,732	\$ (551)	\$ 2,569	\$ 533,645	\$ 17,774
RD108	\$ 408,724	\$ 384,943	\$ 10,971	\$ (22,024)	\$ (14,879)	\$ 359,010	\$ 49,714
Santa Clara	\$ 2,533,920	\$ 2,514,080	\$ 71,651	\$ 840	\$ (23,353)	\$ 2,563,217	\$ (29,298)
Sonoma	\$ 3,678,760	\$ 3,530,576	\$ 100,621	\$ (23,921)	\$ (30,047)	\$ 3,577,230	\$ 101,530
West Stan	\$ 1,458,363	\$ 1,131,652	\$ 32,252	\$ (13,069)	\$ (19,510)	\$ 1,131,325	\$ 327,037
Westlands	\$ 8,243,932	\$ 7,876,539	\$ 224,481	\$ (132,850)	\$ 53,273	\$ 8,021,443	\$ 222,489
Zone 7	\$ 878,938	\$ 788,281	\$ 22,466	\$ (3,990)	\$ (16,303)	\$ 790,454	\$ 88,484
PWRPA	\$ 35,587,894	\$ 33,712,469	\$ 960,805	\$ (383,096)	\$ (0)	\$ 34,290,179	\$ 1,297,715

** Some districts transfer C&T revenue to help meet power & RPS needs.

Power and Water Resources Pooling Authority
October 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	102,666,738	\$ 10,519,045	\$ (710,033)	\$ 9,809,012	\$ 9.55
Banta-Carbona	17,820,549	\$ 1,700,843	\$ (104,123)	\$ 1,596,720	\$ 8.96
Byron-Bethany	3,057,363	\$ 410,130	\$ (16,052)	\$ 394,077	\$ 12.89
Cawelo	14,886,960	\$ 1,774,280	\$ (83,168)	\$ 1,691,112	\$ 11.36
Glenn-Colusa	11,651,310	\$ 1,107,055	\$ (58,314)	\$ 1,048,740	\$ 9.00
James	2,733,123	\$ 412,289	\$ (19,509)	\$ 392,780	\$ 14.37
Lower Tule	9,592,888	\$ 1,045,862	\$ (55,470)	\$ 990,392	\$ 10.32
Princeton	4,253,319	\$ 516,895	\$ (16,236)	\$ 500,659	\$ 11.77
RD108	2,712,069	\$ 384,943	\$ (20,900)	\$ 364,043	\$ 13.42
Santa Clara	21,113,359	\$ 2,514,080	\$ (133,293)	\$ 2,380,787	\$ 11.28
Sonoma	35,840,834	\$ 3,530,576	\$ (215,438)	\$ 3,315,138	\$ 9.25
West Stan	13,067,968	\$ 1,131,652	\$ (100,354)	\$ 1,031,298	\$ 7.89
Westlands	52,820,548	\$ 7,876,539	\$ (785,292)	\$ 7,091,247	\$ 13.43
Zone 7	5,876,569	\$ 788,281	\$ (44,542)	\$ 743,739	\$ 12.66
TOTAL	298,093,597	\$ 33,712,469	\$ (2,362,725)	\$ 31,349,745	\$ 10.52

2. September operations
 - a) Energy served is 7% below budget for month, down 10% below for the year.
 - b) Load averaged 38MW, 17MW below last month
 - c) Average schedule deviation of 4MW for an estimated cost of \$5,000.
3. Pricing
 - a) Average monthly prices:

Table 3: Average monthly cost and ISO revenue rates

	Cost	Revenue
BR	\$ 17.33	\$ (37.41)
Displacement	\$ 17.33	\$ (44.88)
WWD BOR	\$ -	\$ (42.94)
Whitney Point	\$ 58.75	\$ (12.32)
Astoria	\$ 63.00	\$ (23.24)
Slate	\$ 26.81	\$ (19.99)
*Lodi	\$ 132.79	\$ (64.12)
Market		

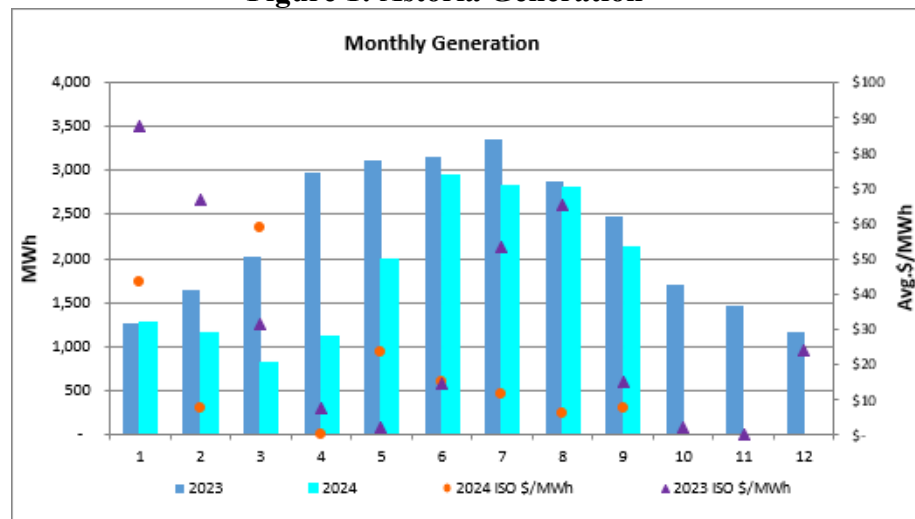
**Lodi is energy only (no debt)*

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Generator Reports

1. Astoria Solar
 - a) Generation
 - 2,120 MWh, 29% capacity factor
 - b) Cost Review
 - \$63 MWh Contract Cost
 - \$97 MWh of attribute value
 - Net credit of \$34/MWh

Figure 1: Astoria Generation



- Pricing:

Table 4: Astoria pricing summary

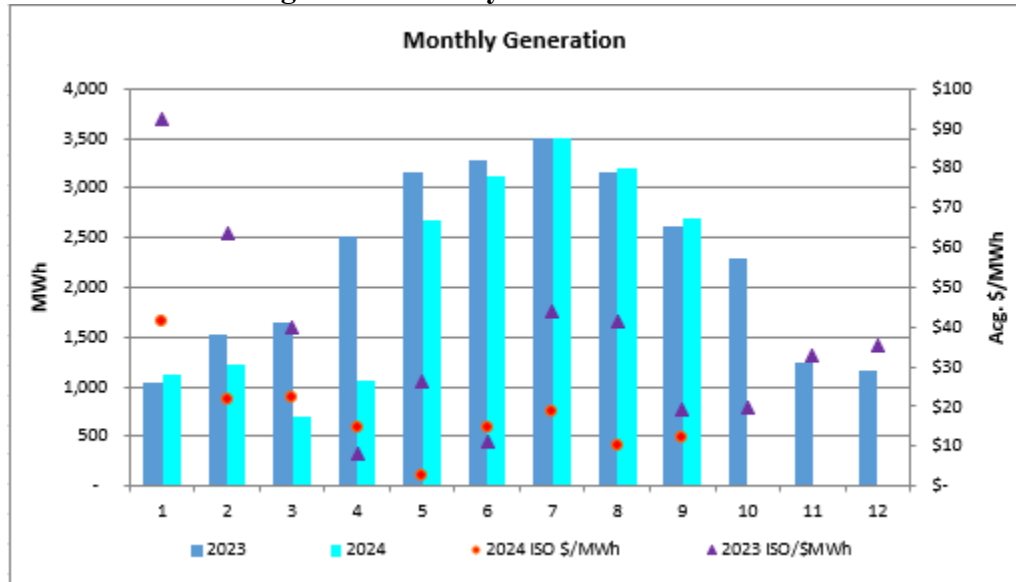
September 2024 - Pricing Analysis, Rates in \$/M		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	415	323
	Total MWh	262	235
	Average LMP	\$ (9.98)	\$ (13.12)
	Maximum LMP	\$ (0.00)	\$ (0.00)
	Minimum LMP	\$ (50.10)	\$ (33.43)
Positively Priced Intervals (5min) w/ Generation	Count	3,917	4,025
	Total MWh	1,859	2,241
	Average LMP	\$ 28.68	\$ 28.91
	Maximum LMP	\$ 177.38	\$ 177.19
	Minimum LMP	\$ 0.00	\$ 0.04

2. Whitney Point Solar
 - a) Generation
 - 2,689 MWh, 34% capacity factor
 - b) Cost Review
 - \$60 MWh Contract Cost

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- \$83 MWh of attribute value
- Net credit of \$23/MWh

Figure 2: Whitney Point Generation



- Pricing:

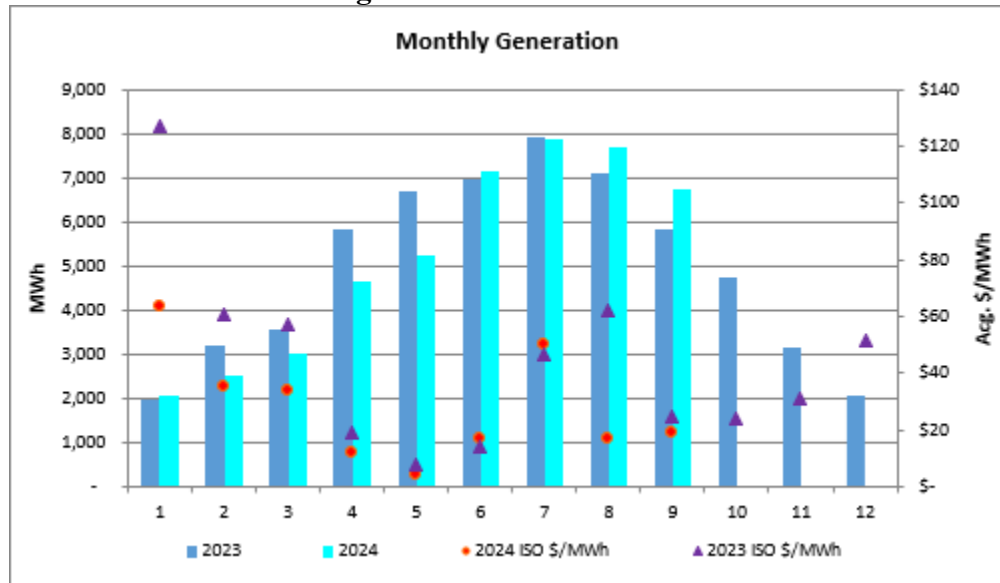
Table 5: Whitney Point pricing summary

September 2024 - Pricing Analysis, Rates in		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	1,638	510
	Total MWh	1,219	423
	Average LMP	\$ (10.99)	\$ (10.34)
	Maximum LMP	\$ (0.02)	\$ (0.14)
	Minimum LMP	\$ (33.31)	\$ (34.33)
Positively Priced Intervals (5min) w/ Generation	Count	2,704	3,860
	Total MWh	1,469	2,181
	Average LMP	\$ 28.71	\$ 31.30
	Maximum LMP	\$ 156.88	\$ 956.90
	Minimum LMP	\$ 0.07	\$ 0.11

3. Slate Solar + Battery
 - a) Generation
 - 6,729 MWh, 36% capacity factor
 - b) Cost Review
 - \$38 MWh Contract Cost
 - \$117 MWh of attribute value
 - Net credit of \$79/MWh

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Figure 3: Slate Generation



- Pricing review:

Table 6: Slate pricing summary

September 2024 - Pricing Analysis, Rates in		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	1,292	447
	Total MWh	2,060	605
	Average LMP \$	(10.89)	(7.05)
	Maximum LMF \$	(0.03)	(0.10)
	Minimum LMP \$	(45.23)	(35.00)
Positively Priced Intervals (5min) w/ Generation	Count	4,072	4,737
	Total MWh	4,669	5,208
	Average LMP \$	29.32	32.26
	Maximum LMF \$	98.54	214.40
	Minimum LMP \$	0.01	0.10

4. Lodi Energy Center

a) Generation

- 915 MWh, 16% capacity factor
- Run time: 10 days for the month, 20 uneconomic

b) Cost Review

- \$133 MWh Contract Cost, \$205 Debt Loaded rate
- \$156 of attribute value
- Net cost of \$49/MWh

c) Staff activity:

- Hydrogen: ARCHES grant looks to be \$15 million instead of \$50 million, follow-up happening
- Decommissioning: study provided to PPC. Staff will prepare a memo and send it out.

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Power Planning & Regulatory

1. Power Net Short
 - a) WAPA’s current forecast is Oct 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

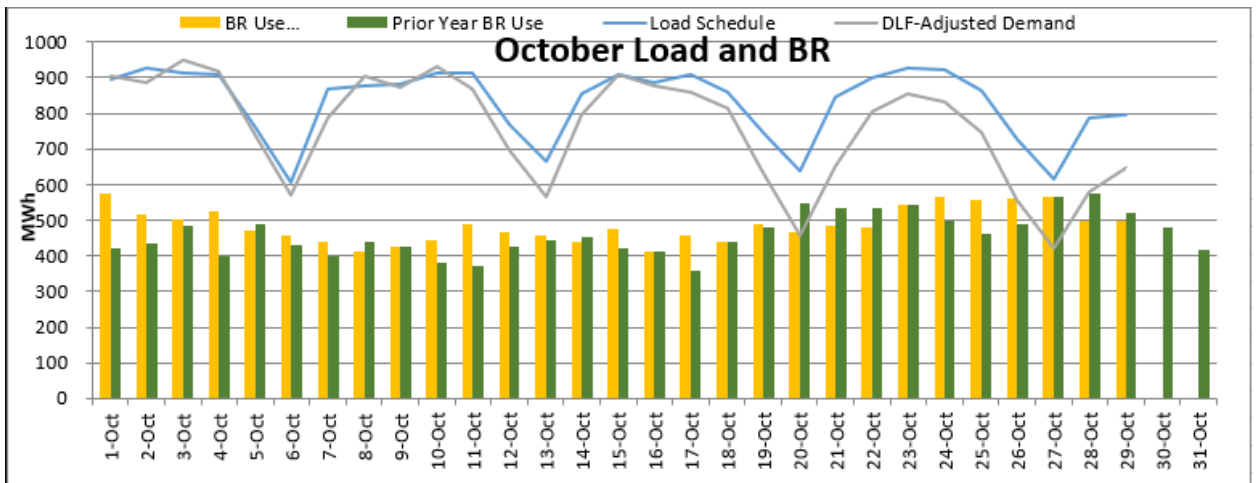
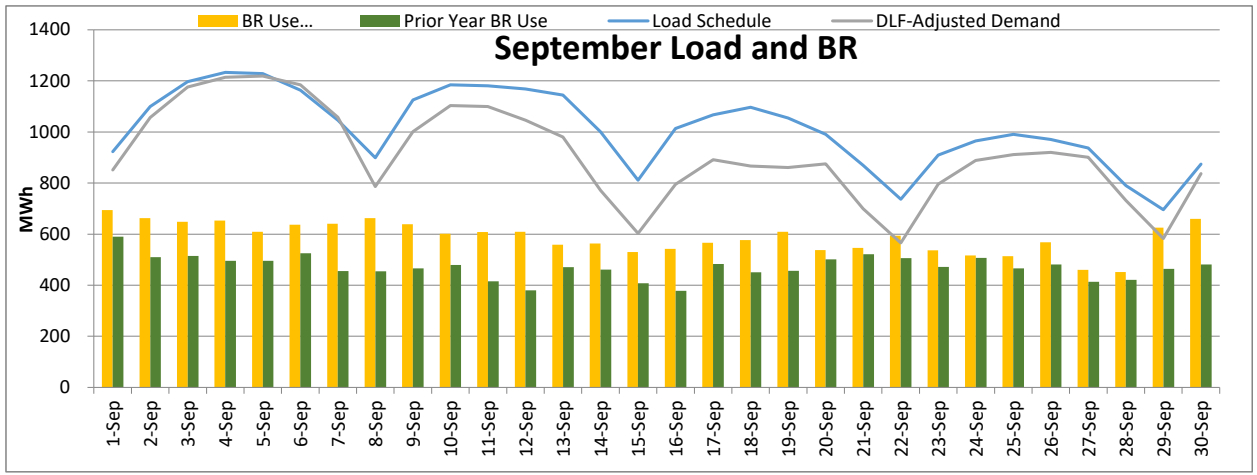
October 2024 NSP															
ON-PEAK	Demand, MW			Resources, MW			On Peak Net Long/(Short), MW			Net (Short)/Long based on RMP				10/2/2024 Forward Mkt	Change from last NSP
	Wet	Average	Dry	Wet	Average	Dry	Wet	Average	Dry	RMP	Wet	Average	Dry		
	10/1/2024	31.5	37.6	48.4	59.7	35.5	40.9	28.2	(2.1)	(7.5)	100%	28.2	(2.1)		
11/1/2024	21.2	22.7	25.0	68.2	20.2	23.8	46.9	(2.5)	(1.2)	100%	46.9	(2.5)	(1.2)	\$ 52.56	\$ 2.60
12/1/2024	13.0	14.6	16.2	69.9	14.3	16.4	56.9	(0.2)	0.2	90%	58.2	1.2	1.8	\$ 77.65	\$ 2.50
1/1/2025	13.7	15.0	17.6	62.5	21.0	19.2	48.7	6.0	1.7	90%	50.1	7.5	3.4	\$ 79.65	\$ (0.66)
2/1/2025	22.9	24.0	27.9	59.6	41.1	34.5	36.6	17.1	6.7	70%	43.5	24.3	15.0	\$ 62.85	\$ (0.38)
3/1/2025	25.6	26.8	35.6	59.3	45.8	40.4	33.7	18.9	4.8	70%	41.4	27.0	15.5	\$ 37.45	\$ 1.25
4/1/2025	38.1	49.1	66.7	56.3	61.7	57.0	18.2	12.6	(9.7)	70%	29.6	27.3	10.3	\$ 35.01	\$ (2.36)
5/1/2025	51.7	71.8	97.4	60.7	72.5	63.3	9.0	0.7	(34.1)	50%	34.9	36.6	14.6	\$ 31.27	\$ 0.95
6/1/2025	60.8	77.3	101.9	60.1	65.7	69.2	(0.7)	(11.7)	(32.7)	50%	29.7	27.0	18.2	\$ 36.09	\$ (1.00)
7/1/2025	64.5	78.2	101.1	61.9	73.1	68.2	(2.6)	(5.0)	(33.0)	50%	29.7	34.1	17.6	\$ 56.04	\$ (2.08)
8/1/2025	52.0	63.0	82.4	63.7	61.3	61.3	11.7	(1.8)	(21.2)	50%	37.7	29.8	20.1	\$ 71.98	\$ (0.58)
9/1/2025	38.2	47.4	62.8	65.7	57.6	58.5	27.5	10.2	(4.3)	50%	46.6	33.9	27.1	\$ 54.54	\$ (2.08)
10/1/2025	31.5	40.1	53.5	43.5	39.8	41.0	12.0	(0.3)	(12.5)	50%	27.7	19.8	14.3	\$ 53.67	\$ 5.47
11/1/2025	20.2	23.1	25.8	36.5	30.9	30.5	16.3	7.8	4.7	50%	26.4	19.3	17.6	\$ 62.04	\$ (2.24)
12/1/2025	13.3	13.4	16.7	53.8	16.3	16.9	40.4	2.9	0.3	50%	47.1	9.6	8.6	\$ 89.69	\$ (2.32)

Off Peak															
Off-Peak	Demand, MW			Resources, MW			Net Long/(Short), MW			Net (Short)/Long based on RMP				10/2/2024 Forward Mkt	Change from last NSP
	Wet	Average	Dry	Wet	Average	Dry	Wet	Average	Dry	RMP	Wet	Average	Dry		
10/1/2024	26.1	30.2	37.0	46.7	21.0	26.8	20.6	(9.2)	(10.2)	100%	20.6	(9.2)	(10.2)	\$ 45.94	\$ 7.88
11/1/2024	18.5	19.4	20.5	31.5	6.1	8.0	13.0	(13.3)	(12.6)	100%	13.0	(13.3)	(12.6)	\$ 48.81	\$ 0.18
12/1/2024	12.9	14.4	15.9	22.4	4.5	5.2	9.5	(9.9)	(10.7)	90%	10.8	(8.4)	(9.2)	\$ 70.63	\$ 2.74
1/1/2025	11.8	12.9	15.0	32.6	8.9	7.9	20.7	(4.0)	(7.1)	90%	21.9	(2.8)	(5.6)	\$ 69.70	\$ 2.19
2/1/2025	20.0	21.2	24.9	41.3	24.7	18.9	21.3	3.5	(6.0)	70%	27.3	9.9	1.5	\$ 62.31	\$ 0.52
3/1/2025	20.8	22.4	29.7	37.3	25.3	20.5	16.4	2.9	(9.2)	70%	22.7	9.6	(0.3)	\$ 48.21	\$ 3.67
4/1/2025	27.1	36.3	50.5	31.2	35.7	31.9	4.1	(0.6)	(18.6)	70%	12.3	10.3	(3.5)	\$ 41.58	\$ 0.94
5/1/2025	41.5	57.6	77.9	44.9	58.3	47.8	3.5	0.7	(30.1)	50%	24.2	29.5	8.9	\$ 32.46	\$ 0.26
6/1/2025	57.6	73.7	97.3	51.4	60.0	65.4	(6.2)	(13.7)	(31.9)	50%	22.6	23.2	16.7	\$ 38.86	\$ (3.19)
7/1/2025	53.4	64.7	83.7	54.6	71.5	64.0	1.2	6.8	(19.6)	50%	27.9	39.1	22.2	\$ 49.61	\$ 0.30
8/1/2025	46.1	55.4	71.9	64.1	60.0	60.0	18.0	4.6	(11.9)	50%	41.1	32.3	24.0	\$ 60.58	\$ 1.26
9/1/2025	34.9	42.8	55.9	50.2	40.6	41.7	15.3	(2.2)	(14.2)	50%	32.8	19.2	13.7	\$ 51.86	\$ (1.44)
10/1/2025	26.2	31.6	40.5	29.2	25.4	26.7	3.1	(6.2)	(13.9)	50%	16.2	9.6	6.4	\$ 50.36	\$ 0.25
11/1/2025	17.8	19.7	21.4	14.1	11.2	10.9	(3.7)	(8.6)	(10.5)	50%	5.2	1.3	0.2	\$ 62.29	\$ (1.78)
12/1/2025	13.3	13.3	16.5	17.8	5.8	6.0	4.6	(7.6)	(10.5)	50%	11.2	(0.9)	(2.3)	\$ 83.18	\$ (2.02)

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- 2. Base Resource:
 - a) Covered 67% of load for September and 67% of October

Figure 4: Monthly BR and Load



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3. Regulatory Compliance

a) Resource Adequacy

- Staff activity
 - Base Resource no longer has Acquired Resource status with the CAISO and we did not get our full allocation of Import Rights (12 out of 115MW). Therefore, we are working on procuring enough IARs to count our full BR as capacity.
 - Completed:
 1. LTRID Hydro registered for RA and contract updated.
 2. 2024 annual plan submitted to CAISO

b) Renewable Portfolio Standard (RPS)

- Staff working with WSID and Whitepine revised proposals to get project online earlier.
- Staff is working with WWD on potential project on Project Use loads.