

**Power & Water Resources Pooling  
Authority**

# Regular Meeting of the Board of Directors

**9:00 A.M.  
Wednesday, February 7, 2024**

# Power and Water Resources Pooling Authority

## NOTICE OF REGULAR MEETING AND AGENDA

Notice is hereby given that a Regular Meeting of the Board of Directors of the Power and Water Resources Pooling Authority (PWRPA) will be held on **February 7, 2024, at 9:00 a.m., at the Banta Carbona Irrigation District, 3514 W. Lehman Road, Tracy, CA 95304**, by simultaneous teleconference at the following locations:

James Irrigation District  
8749 Ninth Street, San Joaquin, CA 93660

Lower Tule River Irrigation District  
357 E. Olive Ave./Ave. 152, Tipton, CA 93272

Princeton-Cordora-Glenn ID/ Provident ID  
258 S. Butte St, Willows, CA 95988

Reclamation District 108  
975 Wilson Bend Road, Grimes, CA 95950

Santa Clara Valley Water District  
5750 Almaden Expressway, San Jose, CA 95118

Sonoma County Water Agency  
404 Aviation Blvd., Santa Rosa, CA 95403

Westlands Water District  
286 W. Cromwell Ave., Fresno, CA 93711

Accessible Public Meetings - PWRPA shall resolve requests for reasonable modification or accommodation from individuals with disabilities, consistent with the Americans with Disabilities Act. Requests should be sent as soon as practicable via email to the attention of: ADA Request [nw@cameron-daniel.com](mailto:nw@cameron-daniel.com)

### Regular Agenda (all items below may include possible action, times are approximations)

1	Chair	<b>Roll Call of all Directors participating</b>
2	Chair	<b>Matters Subsequent to Posting the Agenda</b>
3	Chair	<b>Public Comment</b> – During Agenda Item 3, any member of the public may address the Board concerning any matter on the agenda.
4	Chair 2 Min	<b>Consent Agenda</b> A. Minutes of the Regular Board Meeting held on December 7, 2023.
5	TR GM 10 Min	A. Treasurer’s Report - Approval of Ordering Payments of Accounts and Claims; acceptance of the Treasurer’s Report and other items related to Treasurer’s duties.
6	GM OM 60 Min	A. Resoluton 24-02-01 Amended CVP Corp Membership Agreement. B. Resoluton 24-02-02 Load Metering Policy Ver 3 (will be taken out of order after closed session). C. GM Report – Task teams scope and team selection; process for considering new PWRPA participants; OTC schedule update. D. OM Report – Ops highlights; RPS compliance update for CP 4 (combined with discussion on Items 7A and 7B).
7	GM OM 25 Min	<b>Special Projects</b> A. Opportunities for short and long-term participation in a utility-scale solar project. B. Opportunities for short term contracts from onsite generation projects located at PWRPA Participant sites.

8	SC GC 10 Min	<p><b>Closed Session</b></p> <p>A. Conference with legal counsel – Existing litigation: PG&amp;E WDT3 Rate Case, FERC ER22-619, ER20-2878 consolidated. Pursuant to Gov’t Code section 54956.9(d)(1).</p> <p>B. Conference with legal counsel – Pending litigation: Pursuant to Gov’t Code section 54956.9(d)(4).</p>
9	Chair	<b>Board Matters</b> – Other announcements.
	Chair	<b>Adjournment</b> - Next Regular Meeting is <b>Wednesday</b> , April 3, 2024, at 9:00 A.M.

**Power & Water Resources Pooling  
Authority**

**Consent Agenda • Item 4**

1. Minutes of the December 6, 2023, Regular Board Meeting.

# Power and Water Resources Pooling Authority

## REGULAR MEETING MINUTES DECEMBER 6, 2023

1	Chair	<p><b>Directors and Alternates Present:</b> <i>Dave Nixon (AEWSD), Ed Pattison (BBID), Dave Ansolabehere (CWD), Louis Jarvis (GCID), Manny Amorelli (JID), Lance Boyd &amp; Gary Enos (PPID), Jordan Navarott (RD 108), John Brosnan (SCVWD), Jake Spaulding &amp; Dale Roberts (SCWA), Bobby Pierce (WSID), Kiti Campbell (WWD), Sal Segura (Z7).</i></p> <p><i>Also participating: Bruce McLaughlin (GM), Cori Bradley (OM), Jared Shipley (PPID), Jennifer Montoya (WWD).</i></p> <p>David Weisenberger, serving in his capacity as Chairman, opened the meeting at 9:02 A.M.</p>
2	Chair	<p><b>Matters Subsequent to Posting the Agenda - None</b></p>
3	Chair	<p><b>Public Comment – None.</b></p>
4	Chair	<p><b>Consent Agenda</b></p> <p>A. Minutes of the Regular Board Meeting held on October 4, 2023.</p> <p>B. Minutes of the Special Board Meeting held on November 1, 2023.</p> <p>David Ansolabehere moved, Sal Segura seconded, and participating Directors unanimously approved the Consent Agenda.</p> <p><i>Voting Shares: 100.0% Yes / 0% No / 0% Absent</i></p>
5	TR GM OM	<p>A. Treasurer’s Report - Approval of Ordering Payments of Accounts and Claims; acceptance of the Treasurer’s Report and other items related to Treasurer’s duties.</p> <p>Bobby Pierce moved, Ed Pattison seconded, and participating Directors unanimously approved the Treasurers Report including the Ordering of Accounts and Claims.</p> <p><i>Voting Shares: 100.0% Yes / 0% No / 0% Absent</i></p> <p>B. Ms. Bradley and Mr. McLaughlin introduced the proposed budget and rate schedule for 2024. After a lengthy discussion, it was presented for adoption.</p> <p>Bobby Pierce moved, Kiti Campbell seconded, and participating Directors unanimously approved Resolution 23-12-16 <i>2023 Annual Budget and Pro Forma Rate Schedule.</i></p> <p><i>Voting Shares: 93.7% Yes / 0% No / 6.3% Absent (SCVWD)</i></p> <p>C. Mr. McLaughlin introduced the proposed 3-year professional services agreement with RBI. Ms. Bradley answered questions asked by Board Members.</p> <p>Bobby Pierce moved, David Ansolabehere seconded, and participating Directors unanimously approved Resolution 23-12-17 <i>RBI Professional Services Agreement.</i></p> <p><i>Voting Shares: 93.7% Yes / 0% No / 6.3% Absent (SCVWD)</i></p>

		<p>D. Mr. McLaughlin presented the proposed one-year extension to the ACES professional services agreement. He explained that continuing evaluation of the ACES scope of services will occur during 2024.</p> <p>David Ansolabehere moved, Manny Amorelli seconded, and participating Directors unanimously approved Resolution 23-12-18 <i>ACES Professional Services Agreement</i>.</p> <p><i>Voting Shares: 93.7% Yes / 0% No / 6.3% Absent (SCVWD)</i></p>
6	GM OM	<p>A. GM Report – Mr. McLaughlin described activities over the prior month involving a public agency that is evaluating the benefits of becoming a PWRPA customer. The district has approximately 10 ag loads and may be adding more through a groundwater management plan. Additionally, the district is considering building a moderately-sized solar facility in its service territory; Mr. McLaughlin provided an updated schedule and scope for the Optional Training Classes beginning in January 2024.</p> <p>B. OM Report – Ms. Bradley presented the Ops highlights for November and discussed projections for RPS compliance and REC needs by district.</p> <p>C. After discussion, the current slate of officers was presented for appointment to serve in 2024. Chairman – David Weisenberger; Vice Chairman – David Ansolabehere; Treasurer – David Nixon; Secretary – Bruce McLaughlin.</p> <p>Bobby Pierce moved, Ed Pattison seconded, and participating Directors unanimously approved the Resolution 23-12-19 <i>Appointment of Officers for 2024</i>.</p> <p><i>Voting Shares: 100.0% Yes / 0% No / 0% Absent</i></p>
7	GM OM	<p><b>Special Projects</b></p> <p>A. Cawelo Water District is generating PCC 3 RECs with its owned solar facility that is under an RES-BCT agreement with PG&amp;E. A purchase agreement, with the cost and benefit going to Cawelo WD, was prepared using PWRPA's standard template.</p> <p>Dave Ansolabehere moved, David Nixon seconded, and participating Directors unanimously approved the Resolution 23-12-20 <i>Cawelo WD REC Agreement</i>.</p> <p><i>Voting Shares: 95.3% Yes / 0% No / 4.7% Absent (LTRID)</i></p> <p>B. West Stanislaus ID is working with the developer White Pine Renewables to construct and operate a solar facility located within its distribution system and also interconnected to the PG&amp;E distribution grid. The agreement uses the standardized PPA template between White Pine and PWRPA as well as the standardized Rate Agreement template between West Stanislaus ID and PWRPA.</p> <p>Bobby Pierce moved, David Ansolabehere seconded, and participating Directors unanimously approved Resolution 23-12-21 <i>West Stanislaus ID PPA and Rate Agreement</i>.</p> <p><i>Voting Shares: 100.0% Yes / 0% No / 0% Absent</i></p>
8	SC GC	<p><b>Closed Session</b></p> <p>A. Conference with legal counsel – Existing litigation: PG&amp;E WDT3 Rate Case, FERC ER22-619, ER20-2878 consolidated. Pursuant to Gov't Code section 54956.9(d)(1).</p>

	<p>B. Conference with legal counsel – Pending litigation: Pursuant to Gov’t Code section 54956.9(d)(4).</p> <p>After returning to open session, Mr. McLaughlin reported that during closed session, the Board determined to take action on certain load metering matters.</p> <p>David Nixon moved, Bobby Pierce seconded, and participating Directors unanimously approved Resolution 23-12-22 <i>Verification, Estimation and Editing of Interval Meter Data</i>.</p> <p><i>Voting Shares: 100.0% Yes / 0% No / 0% Absent</i></p>
9	<p>Chair      <b>Board Matters</b> – There were no other announcements.</p>
	<p>Chair      <b>Adjournment</b> – The meeting was adjourned at 11:44 A.M. The next Regular Meeting is Wednesday, February 7, 2024, at 9:00 A.M.</p>

**Power & Water Resources Pooling  
Authority**

**Regular Agenda • Item 5.A**

1. Treasurer's Report.





POWER AND WATER RESOURCES POOLING AUTHORITY

**DISBURSEMENT LIST**

January 2024

Check #	Vendor-name	Payment-description	Check-amount
3510	California Department of Tax and Fee	Electrical Energy Surcharge Return	\$ 19,200.00
3511	Advanced Data Storage	Document Storage - January 2024	44.50
3512	Arvin-Edison Water Storage District	Treasurer's Duties	10,214.22
3513	Braun Blaising & Wynne, P.C.	Legal Services - December 2023	310.07
3514	Michael McCarty Law Office PLLC	Consultant	3,000.00
3515	Robertson Bryan Inc.	Consultant	63,002.98
		Sub-Total	\$ 95,771.77
<b>Wire Transfers:</b>			
Wire	Cameron-Daniel, P.C.	General Manager/General Council	\$ 37,069.60
Wire	Holland & Knight	FERC Wholesale Distribution Filing Legal Fees	9,309.51
		Total	\$ 142,150.88

POWER AND WATER RESOURCES POOLING AUTHORITY  
**CASH ACTIVITY AND TREASURER'S REPORT**  
 MONTH ENDING DECEMBER 31, 2023

**CASH ACTIVITY:**

BALANCE NOVEMBER 30, 2023 \$ 23,050,249.97

Increases:

CAISO - Collateral Deposit Refund	\$ 1,500,000.00	
GHG AUCTION	914,880.06	
Power Billing Invoices	907,840.26	
NCPA	67,308.12	
APX - Astoria Solar	35,729.52	
TCB - Monthly Interest	6,091.70	
		3,431,849.66

Decreases:

Cawelo WD - Funds on Deposit refund	\$ 851,845.46	
Cawelo WD - C&T	808,323.00	
WAPA - Power November 2023	806,068.00	
CAISO	787,036.85	
Slate Solar - October & November 2023	384,076.91	
Lower Tule River ID - C&T	256,081.78	
NCPA LEC - December 2023	194,635.00	
WAPA O&M	166,168.00	
Canadian Solar - Astoria Solar - November 2023	92,472.55	
PG&E - GCID, RD 108, SCVWD, Zone 7	85,791.85	
Robertson-Bryan, Inc	62,795.10	
Trimark - Cell, Meter Reading and T&M November 2023	53,657.40	
NextEra Whitney Point Solar - November 2023	53,354.94	
WAPA - Restoration November 2023	48,464.34	
Cameron-Daniel, P.C.	37,410.00	
Aces - December 2023	25,000.00	
Michael McCarty Law Office, PLLC	5,555.00	
Arvin-Edison Water Storage District-Treasurer	5,527.11	
G/L Renewables - November 2023	3,340.37	
Holland and Knight	2,399.67	
White Pines Solar Santa Clara WD - November 2023	1,529.48	
Braun Blaising & Wynne, P.C.	572.63	
Bank Fees	500.00	
Advanced Data Storage	44.50	
		4,732,649.94

BALANCE DECEMBER 31, 2023 \$ 21,749,449.69

**TREASURERS REPORT:**

Operating Account:

Tri Counties Bank - General Operating Account #1031821, yield 3.923% \$ 630,752.24

Local Agency Investment Fund (LAIF) - Account # 90-39007, yield 3.929%

Reserve Funds	\$ 11,522,785.76	
Cap & Trade Allowance Revenue	3,139,349.17	14,662,134.93

California Asset Management Program (CAMP) #6218-001, yield 5.54%

Funds on Deposit	\$ 2,456,562.52	
Cap & Trade Allowance Revenue	4,000,000.00	6,456,562.52

TOTAL PWRPA FUNDS - DECEMBER 31, 2023 **\$ 21,749,449.69**

Public Purpose Program (P-3) Tri Counties Bank Account #1031856 3,122,390.07

TOTAL FUNDS ON DEPOSIT WITH PWRPA - DECEMBER 31, 2023 **\$ 24,871,839.76**

CAISO Collateral Deposit Account 2,233,439.00

Western Area Power Administration - PWRPA Trust Account 1,000.00

TOTAL FUNDS - PWRPA & OTHER AGENCIES - DECEMBER 31, 2023 \$ 27,106,278.76

**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	\$ 22,476.04	Sonoma	704,570.48
James	43,291.60	West Stan	282,746.34
Glen-Colusa ID	118,183.47	Westlands	573,595.81
RD108	60,000.00	West Side ID	57,887.44
Santa Clara	565,798.94	Zone 7	28,012.40

Total	\$ 2,456,562.52
-------	-----------------

*Power and Water Resources Pooling Authority*  
**P-3 Remaining Funds By Year**  
*as of December 31, 2023*

Member Agency	2019	2020	2021	2022	2023	Total Available P-3 Funds	Expenditures	
	(a)	(b)	(c)	(d)	(e)	(f)	Total to Date (g)	December (h)
Arvin-Edison WSD	\$0.00	\$0.00	\$0.00	\$0.00	\$352,510.20	\$352,510.20	\$5,570,834.85	\$0.00
Banta Carbona ID	0.00	28,418.11	49,489.90	69,174.18	46,709.32	193,791.51	404,708.20	0.00
Byron-Bethany ID	0.00	0.00	0.00	0.00	7,636.20	7,636.20	171,290.66	0.00
Cawelo WD	0.00	0.00	0.00	4,271.92	75,150.36	79,422.28	962,841.11	0.00
Glenn-Colusa ID	0.00	23,300.11	32,132.77	16,890.62	35,129.10	107,452.60	348,863.79	0.00
James ID	0.00	10,457.51	15,685.23	21,738.73	7,265.62	55,147.09	130,969.96	0.00
Lower Tule ID	0.00	0.00	0.00	34,283.20	38,753.25	73,036.45	331,806.44	0.00
Princeton ID	0.00	0.00	0.00	0.00	15,086.64	15,086.64	177,976.09	0.00
RD 108	0.00	13,564.87	16,362.76	12,132.54	13,121.26	55,181.43	213,468.71	0.00
Santa Clara Valley WD	0.00	0.00	0.00	0.00	48,446.05	48,446.05	901,682.87	0.00
Sonoma County WA	0.00	99,654.97	109,040.76	150,507.89	120,836.42	480,040.04	1,490,752.21	0.00
West Stanislaus ID	0.00	0.00	0.00	58,050.32	40,117.15	98,167.47	496,284.30	0.00
Westlands WD	0.00	0.00	102,451.51	1,100,668.62	243,316.28	1,446,436.41	5,531,125.34	0.00
Zone 7	0.00	9,318.79	25,493.12	42,082.23	33,034.50	109,928.64	71,833.02	0.00
Undesignated/Forfeited/Misc	107.06	0.00	0.00	0.00	0.00	107.06	35,133.04	0.00
<b>Total</b>	<b>\$107.06</b>	<b>\$184,714.36</b>	<b>\$350,656.05</b>	<b>\$1,509,800.25</b>	<b>\$1,077,112.35</b>	<b>\$3,122,390.07</b>	<b>\$16,839,570.59</b>	<b>\$0.00</b>
Exclusive access Date	08/04/23	08/03/24	08/02/25	08/01/26				

- (a) Three year exclusive access to these funds by agency begins on 8/05/20 and ends 08/04/23
- (b) Three year exclusive access to these funds by agency begins on 8/04/21 and ends 08/03/24
- (c) Three year exclusive access to these funds by agency begins on 8/03/22 and ends 08/02/25
- (d) Three year exclusive access to these funds by agency begins on 8/02/23 and ends 08/01/26
- (e) 2023 P-3 collected through December 2023
- (f) Total available P-3 Funds
- (g) Total P-3 expenditures since inception of program
- (h) P-3 expenditures December 2023

Power and Water Resources Pooling Authority  
Cap and Trade Allowance Revenue  
Pursuant to Resolution 13-04-05 and Resolution 21-11-14  
As of December 31, 2023

District	Resolution 13-04-05		Resolution 21-11-14			Total Revenue	Expenditures	Balance
	Allocation	Revenue	2021	2022	2023			
Arvin-Edison	37.478%	\$3,421,905.95	\$208,146.78	\$831,876.00	\$855,689.42	\$5,317,618.15	\$3,921,905.95	\$1,395,712.20
Banta-Carbona	3.115%	284,413.18	33,717.30	132,634.85	145,589.41	596,354.74	0.00	596,354.74
Byron-Bethany	0.708%	64,643.51	5,278.35	20,240.47	20,602.13	110,764.46	110,764.46	0.00 (e)
Cawelo	8.447%	771,248.19	32,760.55	115,918.41	94,183.35	1,014,110.50	1,014,110.50	0.00
Glenn-Colusa	2.849%	260,126.21	23,174.67	86,307.16	74,702.20	444,310.24	444,310.24	0.00 (b)
James	0.798%	72,860.90	5,746.23	23,359.47	28,943.78	130,910.38	0.00	130,910.38
Lower Tule	1.005%	91,760.91	20,089.23	76,569.91	67,661.73	256,081.78	256,081.78	0.00
Princeton	1.334%	121,800.06	7,684.74	25,968.74	20,055.39	175,508.93	97,711.01	77,797.92
RD 108	1.368%	124,904.41	10,013.47	35,342.29	29,148.43	199,408.60	199,408.60	0.00 (e)
Santa Clara	4.853%	443,100.21	45,211.76	169,068.24	166,942.93	824,323.14	726,222.17	98,100.97
Sonoma	7.787%	710,987.29	71,470.54	275,734.34	277,421.66	1,335,613.83	196,000.00	1,139,613.83
West Stan	3.228%	294,730.57	31,345.36	119,698.69	134,401.03	580,175.65	150,789.15	429,386.50
Westlands	27.030%	2,467,957.68	202,357.42	796,569.54	1,084,844.98	4,551,729.62	1,390,020.55	3,161,709.07
Zone 7	0.000%	0.00	9,503.60	46,016.34	54,243.62	109,763.56	0.00	109,763.56
<b>Total</b>	<b>100.000%</b>	<b>\$9,130,439.07</b>	<b>\$706,500.00</b>	<b>\$2,755,304.45</b>	<b>\$3,054,430.06</b>	<b>\$15,646,673.58</b>	<b>\$ 8,507,324.41</b>	<b>\$ 7,139,349.17</b>

(e) 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

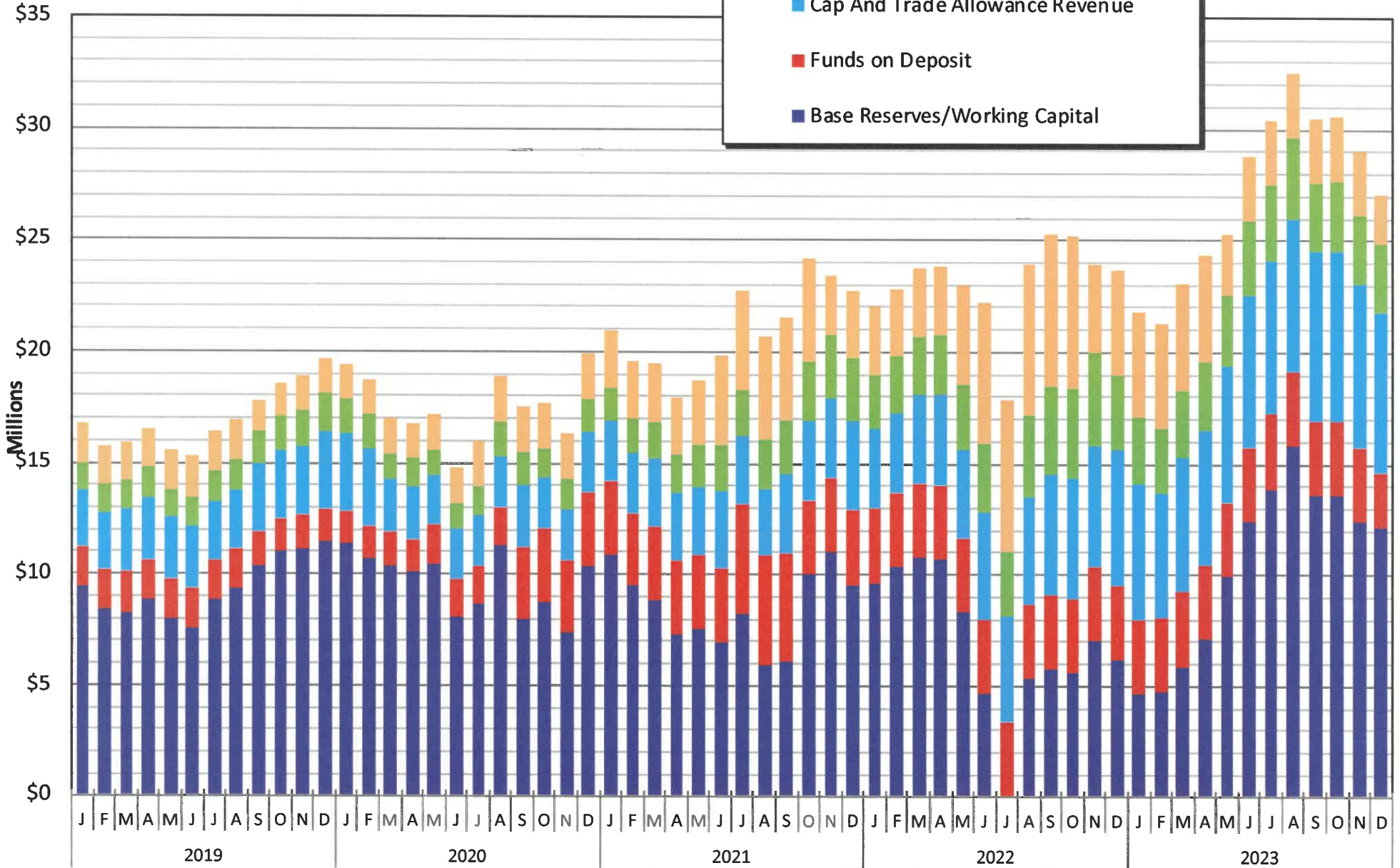
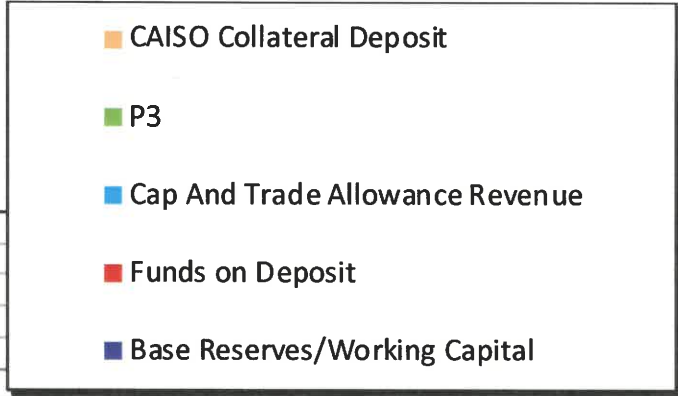
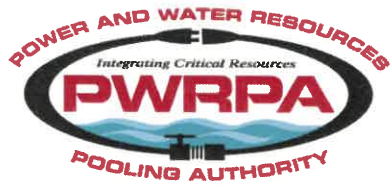
District	Exhibit B Allocation		
	2021	2022	2023
Arvin	29.4617%	30.1918%	28.0147%
Banta Carbona	4.7724%	4.8138%	4.7665%
Byron Bethany	0.7471%	0.7346%	0.6745%
Cawelo	4.6370%	4.2071%	3.0835%
Glenn-Colusa	3.2802%	3.1324%	2.4457%
James	0.8133%	0.8478%	0.9476%
Lower Tule	2.8435%	2.7790%	2.2152%
Princeton	1.0877%	0.9425%	0.6566%
RD 108	1.4173%	1.2827%	0.9543%
Santa Clara	6.3994%	6.1361%	5.4656%
Sonoma	10.1161%	10.0074%	9.0826%
West Stan	4.4367%	4.3443%	4.4002%
Westlands	28.6422%	28.9104%	35.5171%
Zone 7	1.3452%	1.6701%	1.7759%
<b>Total</b>	<b>100.0000%</b>	<b>100.0000%</b>	<b>100.0000%</b>

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
				<b>Total</b>	<b>\$ 15,646,673.58</b>

Resolution 13-04-05 \$9,130,439.07  
Resolution 21-11-14 6,516,234.51  
\$15,646,673.58

# SUMMARY TREASURER REPORT





POWER & WATER RESOURCES POOLING AUTHORITY

WIRE TRANSFERS

December 1 - 31, 2023

Transaction Number	Beneficiary Name	Credit Amount	Value Date
205442	CAISO Market Clearing	\$71,249.27	12/4/2023
205443	ACES Power Marketing	\$25,000.00	12/4/2023
205984	Cameron-Daniel, P.C.	\$37,410.00	12/7/2023
205985	Holland & Knight	\$2,399.67	12/7/2023
205986	Pacific Gas and Electric	\$85,791.85	12/7/2023
206353	CAISO Market Clearing	\$91,299.46	12/11/2023
206354	WAPA O M	\$166,168.00	12/11/2023
207065	Slate 1 (Canadian Solar)	\$214,962.81	12/15/2023
207291	CAISO Market Clearing	\$573,537.95	12/18/2023
207292	Western Area Power Administration	\$48,464.34	12/18/2023
207293	Garlock Energy, LLC	\$1,529.48	12/18/2023
207294	Northern California Power Agency	\$194,635.00	12/18/2023
208123	CAISO Market Clearing	\$3,549.23	12/22/2023
208317	CAISO Market Clearing	\$47,400.94	12/26/2023
208318	Western Area Power Administration	\$806,068.00	12/26/2023
208319	Trimark Associates, Inc.	\$53,657.40	12/26/2023
208320	Astoria 2 Operating	\$92,472.55	12/26/2023
208321	Whitney Point Solar LLC	\$53,354.94	12/26/2023
208671	Slate 1 (Canadian Solar)	\$169,114.10	12/28/2023
208673	GL Renewables, LLC	\$3,340.37	12/28/2023
<b>Total</b>		<b>2,741,405.36</b>	

## **Power & Water Resources Pooling Authority**

### **Regular Agenda • Item 6.A**

1. Resolution 24-02-01 *First Amended CVP Corp Agreement and Displacement of Base Resource Contract.*

November 13, 2023

Central Valley Project (CVP) Corporation Member

SUBJECT: Amended CVP Corp Membership and Displacement of Base Resource Agreements

Dear CVP Corp Member:

On October 3, 2023 the CVP Corporation Board approved revision of the CVP Corp Membership Agreement to extend the term an additional 10 years. The Board discussed the value of the CVP Corp, including the ability to administer the Displacement of CVP Base Resource between Direct and non-Direct Connected customers, to achieve significant cost benefits, as well as continuing the Corporation as an entity to administer potential future collaborative studies and/or shared funding commitments to support the value of the CVP federal hydropower resource.

The Board also approved a 2 year extension of Exhibit C - Contract for the Displacement of Base Resource, to continue this valuable cost-saving program, while recognizing the need to reevaluate the program in 2 years to consider evolving market products and conditions such as the CAISO Energy Imbalance Market and Extended Day Ahead Market.

Additionally, the Board approved a 10 year extension of the Professional and Administrative Services Agreement between the CVP Corp and the Northern California Power Agency (NCPA) for NCPA to continue providing required services. This agreement has been amended and has been executed by all the required parties.

Please find the attached the First Amendment to the CVP Corp Membership Agreement, as well as the First Amendment to Exhibit C - Displacement of Base Resource Contract. Copies of the original agreements are provided as well for reference. If you approve the modifications and terms of extension please sign and return the Amendments for final execution by the CVP Corp Board.

If you have any questions in regard to these agreements please contact Kevin Howard, at (916)223-4975 or [kevin.howard@ncpa.com](mailto:kevin.howard@ncpa.com).

Sincerely,



TRISHA ZIMMER  
Assistant Secretary of CVP Board  
Central Valley Project Corporation



**Power & Water Resources Pooling Authority**  
**Resolution 24-02-01**

**FIRST AMENDED CENTRAL VALLEY CORPORATION MEMBERSHIP AGREEMENT  
AND DISPLACEMENT OF BASE RESOURCE CONTRACT**

WHEREAS, the Power and Water Resources Pooling Authority ("PWRPA") was created by a Joint Powers Agreement to study, promote, develop, conduct, finance, acquire, construct, and/or operate water and energy-related projects and programs; and

WHEREAS, PWRPA entered into the Central Valley Project Corporation Membership Agreement dated effective August 14, 2008 (the "Agreement"); and

WHEREAS, CVP Corp is formed for the benefit of, and to carry out the purposes of, the Participants by helping the Participants achieve cost savings and efficiencies; facilitating customer involvement, and conducting joint actions as directed by the Participants; and

WHEREAS, the United States of America, Department of Energy, Western Area Power Administration (WAPA) and CVP Corp entered into Contract 03-SNR-00583 ("Funding Contract") on June 25, 2003; and

WHEREAS, each Participant has entered into a 2025 Base Resource Contract with WAPA for a percentage of WAPA's Base Resource power for deliveries beginning January 1, 2025, for a maximum term of thirty years; and

WHEREAS, the Parties now desire to amend the Agreement to extend the term of the Agreement for an additional ten-year period from the original expiration date of December 31, 2024, to a new date of December 31, 2034, and

WHEREAS, PWRPA entered into Participant Exhibit C to the Agreement, Contract for Displacement of Base Resource dated effective December 31, 2009, (the "Contract"); and

WHEREAS, the Parties entered into the Contract to preserve the value and benefit of the First Preference Power (FPP) and Base Resource (BR) allocations, create efficiencies among the Central Valley Project customers, and minimize delivery costs among the Non-Direct Connect Customers (NDCC) and the Direct Connect Customers (DCC); and

WHEREAS, WAPA and CVP Corp entered into Amendment 1 to the Funding Contract in October of 2023 to extend the term of the Funding Contract for two years through December 31, 2026.

WHEREAS, the Parties now desire to amend the Contract to extend the term of the Contract for an additional two-year period from the original expiration date of December 31, 2024 to a new date of December 31, 2026; and

WHEREAS, in accordance with Section k), Paragraph e), all changes to the Agreement must be in writing and signed by CVP Corp and the Participants who desire to extend the term of the Agreement.

//

**Power & Water Resources Pooling Authority**  
**Resolution 24-02-01**

NOW, THEREFORE, BE IT RESOLVED that the Pooling Authority Board hereby:

1. Approves the First Amended CVP Corp Membership Agreement (“Agreement”) as presented, extending the term of the Agreement for an additional ten-year period from the original expiration date of December 31, 2024, to a new date of December 31, 2034.
2. Approves the First Amended Contract for Displacement of Base Resource (“Contract”) as presented, extending the term of the Agreement for an additional two-year period from the original expiration date of December 31, 2024, to a new date of December 31, 2026.
3. Authorizes and directs the General Manager, or designee, to execute the Agreement and the Contract.

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 7<sup>th</sup> day of February 2024, by the following vote on roll call:

AYES	Arvin-Edison WSD, Banta Carbona ID, Byron Bethany ID, Cawelo WD, Glenn-Colusa ID, James ID, Lower Tule River ID, Princeton/Provident ID, RD 108, Santa Clara Valley WD, Sonoma County Water Agency, West Stanislaus ID, Westlands Water District, (100.0% Voting Shares)
NOES	
ABSENT	

\_\_\_\_\_  
David Weisenberger  
Chairman

\_\_\_\_\_  
Attest by: Bruce McLaughlin  
Secretary

**Power & Water Resources Pooling  
Authority**

**Regular Agenda • Item 6.B**

1. Resolution 24-02-02 *Load Metering Policy Ver 3*

**Power & Water Resources Pooling Authority  
Resolution 24-02-02**

**PWRPA LOAD METERING POLICY VER 3**

WHEREAS Interval Meters are integral to achieving cost-effective energy efficiency in agricultural and municipal water systems by providing the technology to identify energy savings opportunities by measuring energy use and equipment operation that is critical to optimizing energy, equipment, and overall operations; and

WHEREAS, under Article 5 of the ASA, the Pooling Authority Board of Directors is designated as the local regulatory authority with authority to make decisions and take actions on matters relating to the operation and implementation of the ASA.

NOW, THEREFORE, BE IT RESOLVED that the Pooling Authority Board of Directors ("Board") hereby:

1. Approves "PWRPA Load Metering Policy Ver 3," attached hereto as Attachment A.
2. Authorizes and directs the General Manager to implement the PWRPA Load Metering Policy consistent with its terms.

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 7<sup>th</sup> day of February 2024, by the following vote on roll call:

AYES	Arvin-Edison WSD, Banta Carbona ID, Byron-Bethany ID, Cawelo Water District, Glenn-Colusa ID, James ID, Lower Tule River ID, Princeton/Provident ID, RD 108, Santa Clara Valley WD, Sonoma County Water Agency, The West Side ID, Westlands Water District (100.0%)
NOES	
ABSENT	

\_\_\_\_\_  
David Weisenberger  
Chairman

\_\_\_\_\_  
Attest by: Bruce McLaughlin  
Secretary

# Power & Water Resources Pooling Authority

## Resolution 24-02-02

### PWRPA Load Metering Policy [Ver 3](#)

In its role as the Local Regulatory Authority, the Power and Water Resources Pooling Authority (PWRPA) Board of Directors (Board) has approved this document for the purpose of describing the load metering requirements applicable for service under the Aggregation Services Agreement (ASA). This document sets forth policy statements and provides [certain](#) written implementation details for [PWRPA, as a Scheduling Coordinator, for meter installation, certification and maintenance in addition to the creation of Settlement Quality Meter Data \(SQMD\). The provisions of this Load Metering Policy are intended to be consistent with the California Independent System Operator \(CAISO\) Tariff and Business Practice Manual for Metering \(BPMM\), as they are amended from time to time.](#) Upon subsequent approval by the Board, this document may be supplemented with additional documents that further describe the load metering requirements applicable for service under the ASA. Unless otherwise defined herein, capitalized terms used herein shall have the meaning given to such terms in the ASA.

Formatted: Font: Arial, 11 pt

Formatted: Font: Arial, 11 pt

Formatted: Font: (Default) Arial, 11 pt

Formatted: ParaText, Left, Indent: Left: 0", Right: 0"

Deleted: :

Deleted: (a) the replacement and maintenance of interval meters; and (b) the validation, estimation and editing of interval meter data

Formatted: Font: (Default) Arial, 11 pt

### Policy Goals

Formatted: Font: Arial, 11 pt

Formatted: Font: (Default) Arial, 11 pt

The following summarizes the goals of PWRPA's Load Metering Policy:

- Timely state estimation of the aggregate PWRPA load for power supply management.
- Proper metering for demand side management programs established to comply with the PWRPA Public Purpose Program guidelines [or the State of California, as appropriate.](#)
- Improved settlement values through less estimation.
- Less reliance on [another Utility Distribution Company](#) to provide timely and accurate meter data.
- Settlement data provided at the same level of detail as power schedule data.
- Ensure the accurate submission of Settlement Quality Meter Data (SQMD).
- Improved capability to more efficiently bill for services under the ASA.

Deleted: (as well as autonomy from) PG&E

Formatted: Font: (Default) Arial, 11 pt

### Policy Elements

Formatted: Font: Arial, 11 pt

Formatted: Font: (Default) Arial, 11 pt

Formatted: Indent: Left: 0", Right: 0"

1. PWRPA shall meter, or cause to be metered, each load point with Interval Meters that meet or exceed the standards acceptable to PWRPA for service under the ASA, subject to certain exceptions requested by a Project Participant and approved by the Board.
2. PWRPA shall provide, or cause to be provided, sufficient data acquisition and communication equipment at each meter point as required to communicate Interval Meter information in a cost-effective, [accurate](#) and timely manner to control locations that can then disseminate aggregated demand data to PWRPA meter data clients. Such data acquisition and communication equipment shall, to the extent possible, be standardized and procured in bulk to reduce initial costs and ongoing operation and maintenance costs. All equipment and associated services will at all times comply with a current list of approved equipment, services and vendors, where such list is to be developed and continuously maintained by PWRPA. [as](#)

**Power & Water Resources Pooling Authority  
Resolution 24-02-02**

[provided in Exhibits A and B.](#)

3. PWRPA shall provide or cause to be provided, operation and maintenance (O&M) services for each Interval Meter. Such O&M services shall at all times comply with standards established by PWRPA for service under the ASA.

4. The Board shall adopt a budget each year as required, to install, replace, retrofit, operate and maintain Interval Meters required to comply with this Policy. Revenue needed to cover the costs reflected in the budget shall be derived from PWRPA's rates, applied to or otherwise allocated to each Project Participant as provided by the PWRPA Board.

4.1. The costs associated with the installation, replacement, retrofitting, operating and maintenance of Interval Meters and associated services shall be allocated as follows, subject to further direction from the Board:

4.1.1. All costs reasonably associated with specific Interval Meters for each Project Participant shall be borne by such Project Participant. As described above, "Interval Meters" is defined to also include all associated telemetry equipment and communication service.

4.1.2. All costs reasonably associated with the general implementation of the program, such as general research and design of the overall system, modifications to PWRPA's meter data management system, and other similar general costs, shall be allocated in accordance with Section B (Metering and Meter Data Management) of the cost allocation algorithms set forth in Exhibit E of the ASA.

4.2. Project Participants may, at their election, advance funds to PWRPA in amounts determined by PWRPA to cover all or some of their respective costs of the Interval Meters and associated services.

5. Ownership of Metering Equipment, [Data Acquisition or Communication Services, or associated contracts.](#)

5.1. [Subject to Section 5.2,](#) Project Participants may: (a) own the physical metering equipment, physical data acquisition and/or communication equipment serving their respective load; [and \(b\), may contract in their own name for the data acquisition, and communication services associated with Interval Meters serving their respective load.](#)

5.2. All equipment so owned, shall:

5.2.1. at all times be in compliance with the current list of approved equipment [listed in Exhibit A,](#)

5.2.2. not be removed or modified without the written permission of PWRPA,

5.2.3. be maintained pursuant to and in compliance with standards established by PWRPA for service under the ASA [as provided in Section 3,](#)

5.2.4. be located in such a manner to allow:

5.2.4.1. continuous electronic access, or other access as may be required pursuant to a PWRPA data access or communication system applicable to that load point,

5.2.4.2. physical access to said equipment by PWRPA, its agents, and other personnel authorized by PWRPA.

Deleted: ¶

Formatted: Justified

Formatted: Justified, Indent: Left: 0.58"

Deleted: or SAMBA

Formatted: Justified

Deleted: , subject to the following,

Deleted:

Formatted: Justified, Indent: Left: 0.58"

Deleted: , where such list is to be developed and continuously maintained by PWRPA

Formatted: Justified

**Power & Water Resources Pooling Authority  
Resolution 24-02-02**

5.3. All services shall:

- 5.3.1. at all times comply with the current list of approved services and vendors listed in Exhibit B,
- 5.3.2. not be terminated or modified without the written permission of PWRPA,
- 5.3.3. be maintained pursuant to and in compliance with standards established by PWRPA for service under the ASA as provided in Section 3,
- 5.3.4. be maintained in such a manner as to be continuously available or as may be required pursuant to a PWRPA data access or communication system applicable to that load point,

5.4. The Project Participant shall act so as to remain in good standing with the vendor with respect to credit, accounts payable and any other financial obligation so required by the vendor.

6. PWRPA shall ensure that all SQMD meets CAISO Tariff Section 10 in accordance with BPMM 6.2,

7. PWRPA shall develop, or cause to be developed, an SQMD Plan and ensure compliance with the biannual audit and self-attestation requirement described in BPMM 6.4. The audit shall evaluate the process flow of meter data beginning with collecting meter data, Validation, Estimation and Editing (VEE) and following through submittal of Actual SQMD to the CAISO.

8. PWRPA shall incorporate approved distribution system loss factors in accordance with BPMM 6.2.1.1.

9. PWRPA shall ensure compliance with procedures for meter certification in accordance with BPMM 6.3,

**Deleted:** <#>Ownership of Data Acquisition or Communication Services, or contracts thereof¶ Project Participants may contract in their own name for the data acquisition, and communication services associated with Interval Meters serving their respective load, subject to the following.¶

**Formatted:** Justified, Indent: Left: 0.58"

**Deleted:** , where such list is to be developed and continuously maintained by PWRPA

**Formatted:** Justified

**Formatted:** Justified, Indent: Left: 0.58"

**Formatted:** Justified

**Deleted:** develop standards for the validation, estimation and editing of all interval data

**Formatted:** Not Highlight

**Formatted:** Justified

**Formatted:** Font: (Default) Arial, 11 pt

**Deleted:** <#>Data validation checks are designed to identify things that can go wrong at the meter/recorder and cause the data collected to not reflect actual usage. Data that has not gone through the validation process is raw data.¶ General Meter Data Management Agent (MDMA) and MSP business practices should ensure that the meter is programmed correctly for the required revenue data and that the MDMA system is set up to accurately maintain information such as interval size, meter constants, and what quantity is recorded by what channel. These VEE rules do not require or describe how the MDMA verifies that the meter is programmed correctly.¶ Several words are used to describe the quality of interval data.¶ Raw data - data that has not gone through the VEE process.¶ Valid data - data that has gone through all required validation checks and either passed them all or been verified.¶ Verified data - data that failed at least one of the required validation checks but was determined to represent actual usage.¶ Estimated - data that has been calculated based on standard estimation rules because the raw data was not valid.¶ Interval Data Estimation Rules¶ Correcting Data Problems Attributable to Metering Problems¶ Interval Meter Data doesn't match tariff or settlement requirements.¶

**Power & Water Resources Pooling  
Authority**

**Regular Agenda • Item 6.C**

1. General Manager's Comments.



**2024 1Q schedule for Regular Board Meetings and locations, agenda items, optional training classes (OTC) and strategy task team meetings.**

January 2024 Complete

**Wed 3 – Informational Packet Only**

**Mon 8, 3:00 PM**

- **PWRPA OTC 1:** This class was an overview of PWRPA including a brief history of the energy industry in CA prior to 2004 and the primary purpose for forming PWRPA. Introduction to the JPA and the purpose for limiting membership to Irrigation Districts only. This is primarily their legal authority to purchase electricity at wholesale and sell it at retail to customers anywhere in California. This dramatic and broad authority has been tempered over time by subsequent statutes and case law, however, it remains a significant distinction between PWRPA's Irrigation District Members and Stakeholders (any other water-related district). OTC 1 also introduced the Cost Sharing Agreement which is the formation document linking the Stakeholders to PWRPA. The CSA implements the Stakeholders' obligation to pay general & administrative costs with the coupled right to sit on the Board of Directors.

**Fri 19, 9:00 AM**

- **PWRPA OTC 1:** Repeat of OTC 1 for interested persons who missed the Jan 8 presentation.

February 2024

**Wed 7, 9:00 AM Board Meeting (at BCID)**

- 2024 operations history and forecasts.
- RPS planning and how it may direct consideration of the current opportunities in a utility scale power project and 2 distributed generation solar projects.
- Important strategic matters:
  - Introduction to Financial matters task team scope and solicitation for members (less than a quorum).
  - Introduction to Organizational planning task team scope and solicitation for members (less than a quorum).
- Closed session matters related to the PG&E WDT litigation and another subject involving the potential for litigation.

**Date TBD – PWRPA Strategy Task Team 1: Financial matters & rate stabilization**

- Issue and scope development.

**Date TBD – PWRPA Strategy Task Team 2: 2030 Org planning**

- Issue and scope development.

March 2024

**Wed 6 – Informational Packet Only**

**Wed 6, 9:00 AM**

- **PWRPA OTC: Possible subject matter – The associated implementation of the Aggregation Services Agreement and Risk Management Policy.**

**Date TBD – PWRPA Strategy Task Team 1: Financial matters & rate stabilization**

**Date TBD – PWRPA Strategy Task Team 2: 2030 Org planning**

**Power & Water Resources Pooling  
Authority**

**Regular Agenda • Item 6.D**

1. Operations Manager's Report.

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

**Possible Action**

n/a

**Operations Staff Overview**

1. February planned activity
  - a) LTRID Hydro: onboarding support
  - b) Metering documentation
  - c) Task team work/participation
2. January recap
  - a) LTRID Hydro onboarding
  - b) LEC Hydrogen research
  - c) 2024 Budget and rates implementation
  - d) Various coordination w/ Solar developers on Districts request

**Operations Report:**

1. Pre-Reconciliation
  - a) Actual data for January – December estimates. These estimates are the final update until the annual audit is complete.
  - b) BR estimates as of Dec 1 makes the rate \$26/MWH (\$54 in the Dry budget).
  - c) Table 2 is new: the cost of service now includes the Cap and Trade funds received from this year.

**Table 1: 2023 Cash Flow**

Cashflow Summary: January - December 2023							
Participant	Power Invoice	Power & Ops Costs	P3	Direct Consulting	Change in Reserve Estimate	Prior Period	Over/(Under) Funded
Arvin-Edison	\$ 14,919,526	\$ 14,022,466	\$ 399,640	\$ 122	\$ 213,028	\$ (15,851)	\$ 300,121
Banta-Carbona	\$ 1,695,431	\$ 1,454,053	\$ 41,441	\$ -	\$ (31,997)	\$ 1,468	\$ 230,467
Byron-Bethany	\$ 478,249	\$ 372,730	\$ 10,623	\$ -	\$ (884)	\$ 53	\$ 95,727
Cawelo	\$ 2,807,900	\$ 2,418,918	\$ 68,939	\$ -	\$ 31,416	\$ 8,007	\$ 280,620
Glenn-Colusa	\$ 1,344,960	\$ 1,228,001	\$ 34,998	\$ -	\$ (1,178)	\$ (19)	\$ 83,159
James	\$ 274,912	\$ 257,059	\$ 7,326	\$ -	\$ (8,515)	\$ (917)	\$ 19,959
Lower Tule	\$ 1,520,107	\$ 1,308,392	\$ 37,289	\$ -	\$ 11,199	\$ (2,047)	\$ 165,274
Princeton	\$ 628,684	\$ 533,804	\$ 15,213	\$ -	\$ 1,560	\$ 243	\$ 77,863
RD108	\$ 499,463	\$ 427,080	\$ 12,172	\$ 21	\$ (9,163)	\$ 366	\$ 68,988
Santa Clara	\$ 3,727,078	\$ 3,203,083	\$ 91,288	\$ 4,436	\$ 13,809	\$ (2,499)	\$ 416,960
Sonoma	\$ 4,360,711	\$ 4,002,107	\$ 114,060	\$ 75	\$ (1,884)	\$ (8,162)	\$ 254,515
West Stan	\$ 1,463,054	\$ 1,158,319	\$ 33,012	\$ -	\$ (10,654)	\$ (233)	\$ 282,610
Westlands	\$ 8,376,790	\$ 8,319,836	\$ 237,115	\$ 1,007	\$ (225,157)	\$ (46,611)	\$ 90,600
Zone 7	\$ 1,265,322	\$ 1,149,241	\$ 32,753	\$ 236	\$ 18,421	\$ (1,461)	\$ 66,132
<b>PWRPA</b>	<b>\$ 43,362,188</b>	<b>\$ 39,855,091</b>	<b>\$ 1,135,870</b>	<b>\$ 5,896</b>	<b>\$ 0</b>	<b>\$ (67,665)</b>	<b>\$ 2,432,996</b>

\*\* Districts transfer C&T revenue to help meet power & RPS needs, those funds are not reflected in this table.

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

**Table 2: 2023 Cost of Service**

<b>Cost of Service Summary: January - December 2023</b>					
<b>Participant</b>	<b>Metered Energy (kWh)</b>	<b>Power &amp; Ops Costs</b>	<b>Cap &amp; Trade Revenue</b>	<b>Net Cost of Service</b>	<b>Composite Rate, (cent/kWh)</b>
Arvin-Edison	120,896,664	\$ 14,022,466	\$ (599,389)	\$ 13,423,077	\$ 11.10
Banta-Carbona	14,043,272	\$ 1,454,053	\$ (101,982)	\$ 1,352,072	\$ 9.63
Byron-Bethany	2,834,234	\$ 372,730	\$ (14,431)	\$ 358,299	\$ 12.64
Cawelo	18,889,969	\$ 2,418,918	\$ (65,973)	\$ 2,352,945	\$ 12.46
Glenn-Colusa	11,578,618	\$ 1,228,001	\$ (52,327)	\$ 1,175,674	\$ 10.15
James	884,083	\$ 257,059	\$ (20,274)	\$ 236,785	\$ 26.78
Lower Tule	9,809,970	\$ 1,308,392	\$ (47,395)	\$ 1,260,997	\$ 12.85
Princeton	4,446,932	\$ 533,804	\$ (14,048)	\$ 519,756	\$ 11.69
RD108	2,360,516	\$ 427,080	\$ (20,418)	\$ 406,662	\$ 17.23
Santa Clara	21,293,343	\$ 3,203,083	\$ (116,939)	\$ 3,086,144	\$ 14.49
Sonoma	33,793,023	\$ 4,002,107	\$ (194,327)	\$ 3,807,780	\$ 11.27
West Stan	10,919,050	\$ 1,158,319	\$ (94,144)	\$ 1,064,175	\$ 9.75
Westlands	33,350,547	\$ 8,319,836	\$ (759,906)	\$ 7,559,930	\$ 22.67
Zone 7	5,225,975	\$ 1,149,241	\$ (37,996)	\$ 1,111,245	\$ 21.26
<b>TOTAL</b>	<b>290,326,197</b>	<b>\$ 39,855,091</b>	<b>\$ (2,139,550)</b>	<b>\$ 37,715,541</b>	<b>\$ 12.99</b>

2. December operations

- a) Energy is 2% over budget for the month, 38% for the year
- b) Load averaged 15 MW, 6 MW lower than last month
- c) Average schedule deviation of 3 MW for an estimated cost of 300.

3. Pricing

- a) Average monthly prices:

**Table 3: Average monthly cost and ISO revenue rates**

	<b>Cost</b>	<b>Revenue</b>
BR	\$ 23.55	\$ (51.82)
Displacement	\$ -	\$ -
WWD BOR	\$ -	\$ (44.31)
Whitney Point	\$ 58.75	\$ (35.23)
Astoria	\$ 63.00	\$ (23.81)
Slate	\$ 26.81	\$ (46.99)
*Lodi	\$ 49.63	\$ (59.82)
Market		

*\*Lodi is energy only (no debt)*

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

**Generator Reports**

1. Astoria Solar
  - a) Generation
    - 1,158 MWh, 16% capacity factor
    - Net credit \$31,500 or \$27 /MWh
  
2. Whitney Point Solar
  - a) Generation
    - 1,155 MWh, 14% capacity factor
    - Net credit \$48,000, or \$41 /MWh
  
3. Slate Solar + Battery
  - a) Generation
    - 2,076 MWh, 11% capacity factor
    - Net value \$135,200, or \$65 /MWh
  
4. Lodi Energy Center
  - Operations:
    - 3,892MWh, or 65% capacity factor
    - Ran 22 of 31 days, 9 days idle due to economics
  - Net value of \$58,100 or \$15/MWh
  - **Hydrogen decisions coming soon:**
    - LEC is considering development of on-site hydrogen production. The concept is to mix this with current natural gas lowering use of gas and emissions.
    - LEC has an application into ARCHES for grant funding and should hear back very soon.
    - LEC's current plan is to have 45% hydrogen
    - Staff's current questions/issues regarding the project:
      - Waiting on grant funding, without it economics are rough
      - Addition of on-site solar to power hydrogen process to generate RECs.
      - Water supply good for current plan, issues if expansion beyond 45% hydrogen
      - LEC's economic evaluation is 3 years old and scope/information has changed. We need updated information (levelized cost of energy).

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

**Power Planning & Regulatory**

1. Power Net Short
  - a) WAPA’s current forecast is Dec 1, 2023.

**Table 4: On- and Off-peak Power Net Short**

Jan 2024 NSP															
ON-PEAK	Demand, MW			Resources, MW			Net Long/(Short), MW			RMP	Net (Short)/Long based on RMP			1/3/2024 Forward Mkt	Change from last NSP
	Wet	Average	Dry	Wet	Average	Dry	Wet	Average	Dry		Wet	Average	Dry		
	1/1/2024	15.4	17.2	22.6	34.7	22.2	19.8	19.3	5.1		(2.7)	100%	19.3		
2/1/2024	17.2	27.2	41.9	36.6	45.9	28.0	19.4	18.7	(13.9)	100%	19.4	18.7	(13.9)	\$ 61.90	\$ (10.48)
3/1/2024	23.3	26.9	40.3	45.0	52.3	37.1	21.7	25.4	(3.2)	90%	24.1	28.0	0.9	\$ 50.33	\$ (1.93)
4/1/2024	35.4	46.0	62.5	59.3	60.3	56.1	23.9	14.3	(6.4)	90%	27.4	18.9	(0.1)	\$ 48.50	\$ (1.78)
5/1/2024	49.7	68.8	91.0	75.3	72.6	64.4	25.6	3.7	(26.6)	70%	40.5	24.4	0.7	\$ 39.73	\$ 0.27
6/1/2024	65.2	75.4	95.1	84.5	71.2	68.4	19.3	(4.2)	(26.7)	70%	38.8	18.4	1.8	\$ 58.30	\$ (0.75)
7/1/2024	61.8	67.9	83.7	85.7	78.2	75.5	23.8	10.3	(8.2)	70%	42.4	30.7	16.9	\$ 88.73	\$ (0.58)
8/1/2024	53.8	58.6	71.4	84.1	66.6	61.8	30.3	8.0	(9.6)	50%	57.2	37.3	26.1	\$ 106.63	\$ (2.50)
9/1/2024	39.7	43.2	55.2	66.2	55.3	44.6	26.5	12.1	(10.6)	50%	46.4	33.7	17.0	\$ 94.28	\$ 1.05
10/1/2024	31.1	37.1	48.4	48.4	41.2	30.5	17.3	4.1	(17.9)	50%	32.9	22.7	6.3	\$ 64.75	\$ 2.78
11/1/2024	19.7	22.2	24.9	35.3	17.5	17.5	15.5	(4.7)	(7.4)	50%	25.4	6.4	5.0	\$ 70.08	\$ (1.25)
12/1/2024	13.4	13.9	16.0	24.4	16.0	22.0	11.0	2.1	6.0	50%	17.7	9.1	14.0	\$ 99.00	\$ (4.72)

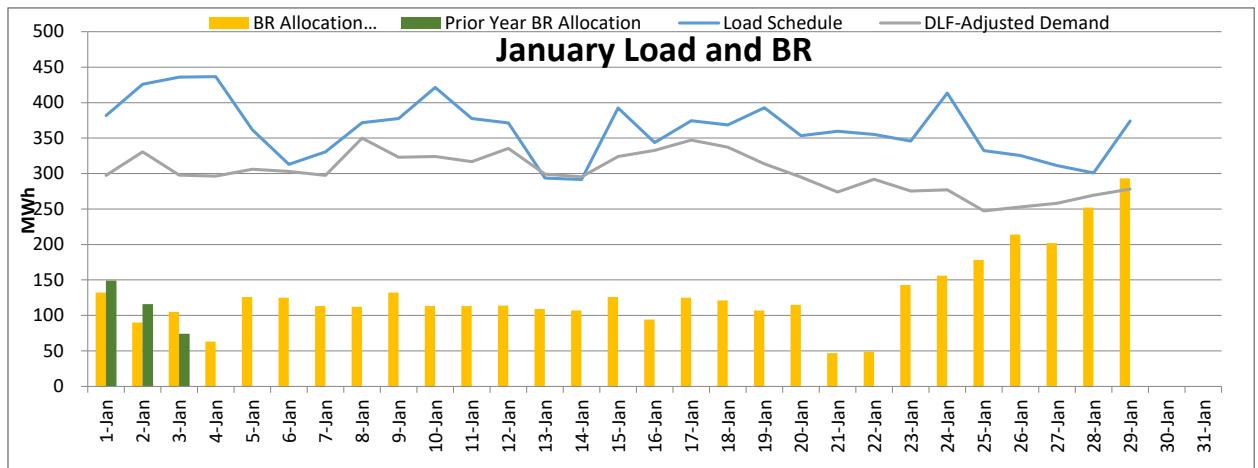
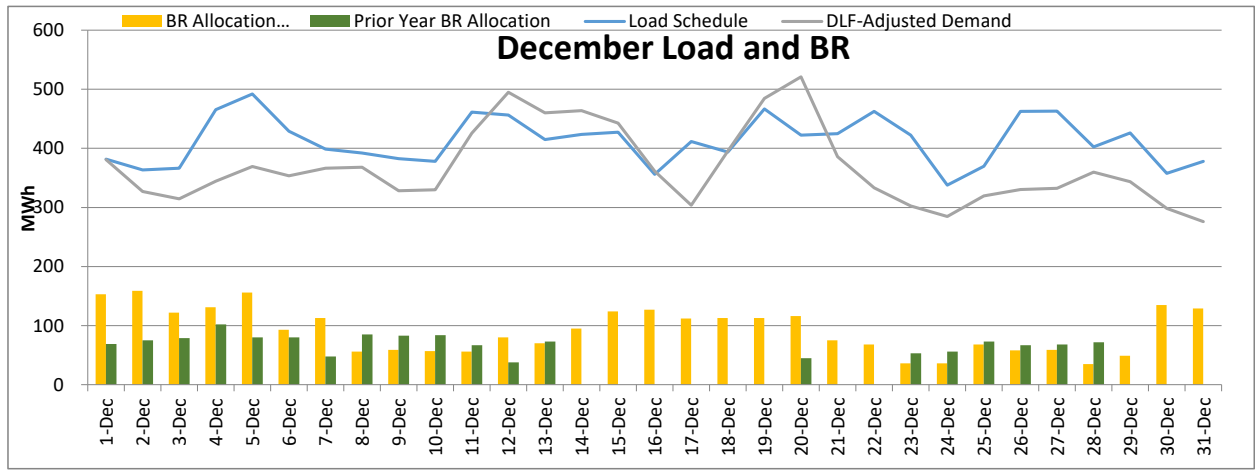
Off-Peak	Demand, MW			Resources, MW			Net Long/(Short), MW			RMP	Net (Short)/Long based on RMP			1/3/2024 Forward Mkt	Change from last NSP
	Wet	Average	Dry	Wet	Average	Dry	Wet	Average	Dry		Wet	Average	Dry		
	1/1/2024	12.7	14.1	18.4	25.1	10.3	9.2	12.5	(3.8)		(9.2)	100%	12.5		
2/1/2024	16.8	25.7	38.7	21.2	14.2	9.6	4.4	(11.5)	(29.1)	100%	4.4	(11.5)	(29.1)	\$ 56.58	\$ (13.70)
3/1/2024	22.1	25.2	37.6	27.0	13.2	10.3	4.9	(12.0)	(27.2)	90%	7.1	(9.5)	(23.5)	\$ 53.73	\$ (0.85)
4/1/2024	31.7	41.6	56.7	34.4	25.2	23.0	2.6	(16.4)	(33.7)	90%	5.8	(12.2)	(28.1)	\$ 49.55	\$ (0.93)
5/1/2024	39.0	53.0	69.0	43.8	43.3	36.8	4.8	(9.8)	(32.2)	70%	16.5	6.2	(11.5)	\$ 42.20	\$ 1.83
6/1/2024	54.5	62.6	78.1	45.7	35.4	33.5	(8.8)	(27.2)	(44.6)	70%	7.5	(8.4)	(21.2)	\$ 52.80	\$ (1.90)
7/1/2024	55.1	59.8	72.6	48.8	39.8	38.0	(6.3)	(19.9)	(34.5)	70%	10.2	(2.0)	(12.8)	\$ 62.00	\$ (0.72)
8/1/2024	47.5	51.1	61.2	37.9	31.9	28.6	(9.6)	(19.2)	(32.6)	50%	14.2	6.4	(2.0)	\$ 72.45	\$ (3.77)
9/1/2024	35.0	37.4	46.7	33.5	23.2	17.9	(1.5)	(14.3)	(28.8)	50%	16.0	4.4	(5.4)	\$ 70.05	\$ 3.80
10/1/2024	25.8	29.7	37.0	26.7	13.6	9.5	0.9	(16.1)	(27.4)	50%	13.8	(1.3)	(8.9)	\$ 64.68	\$ 2.13
11/1/2024	17.3	19.0	20.5	17.1	4.7	4.7	(0.1)	(14.3)	(15.8)	50%	8.5	(4.8)	(5.6)	\$ 69.20	\$ 0.88
12/1/2024	13.3	13.5	15.3	9.8	4.5	4.6	(3.4)	(9.0)	(10.7)	50%	3.2	(2.3)	(3.0)	\$ 87.15	\$ (5.38)

2. BR output:

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

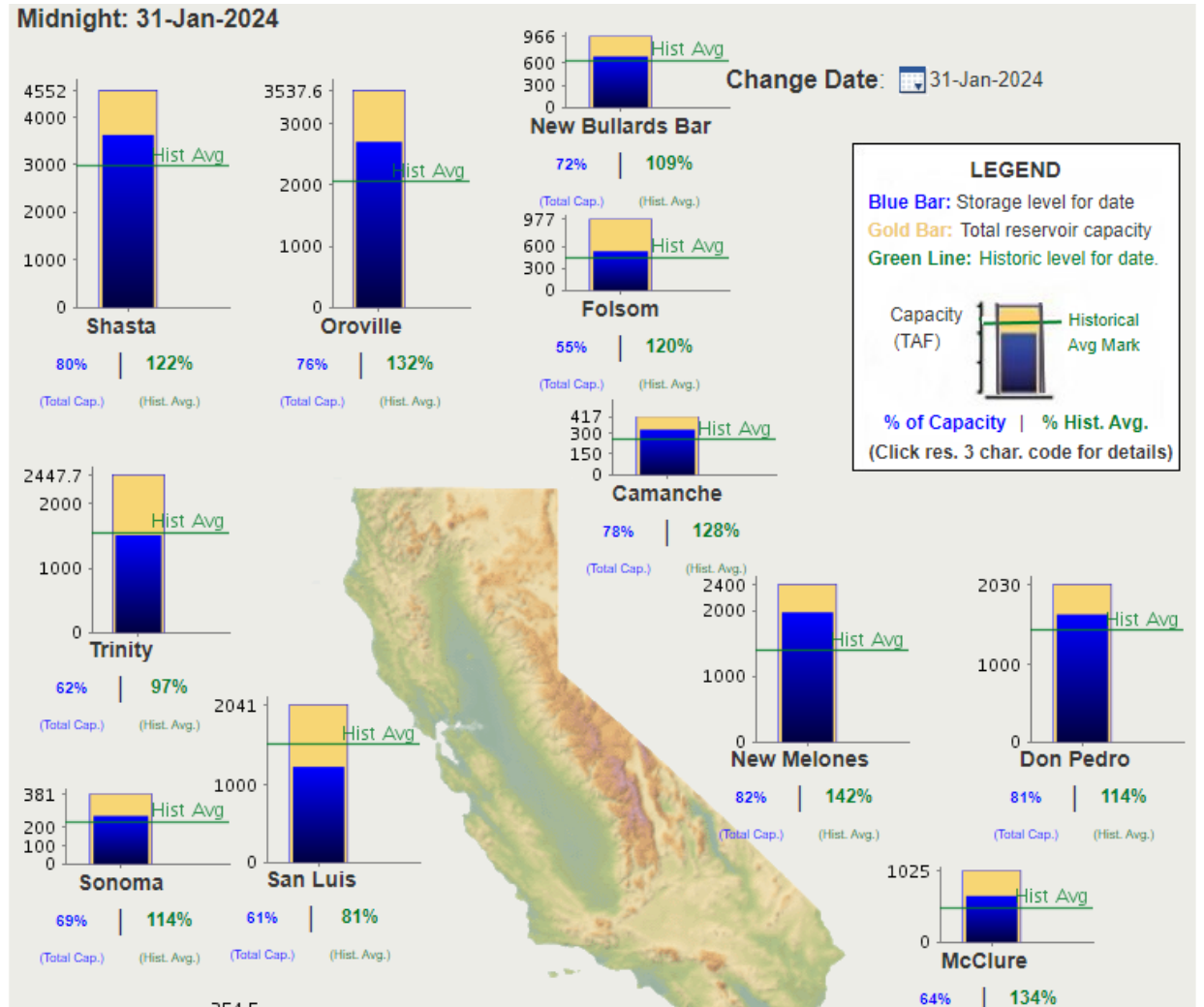
- a. Covered 26% of load for December and 44% of January so far

**Figure 1: Monthly BR and Load**



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

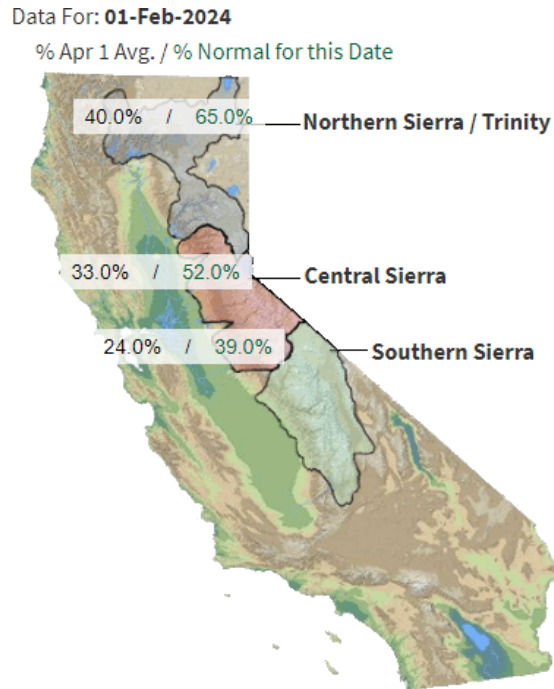
**Figure 2: Reservoir levels**





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

**Figure 3: Snow pack**



**3. Regulatory Items**

- a. Resource Adequacy:
  - i. Tracking if CAISO is going to file with FERC to update backstop price up from \$6.31 kW-month to \$7.34 kW-month.
  - ii. Tracking CEC changes to allocate deficiency costs that will impact POUs.
- b. Renewable Energy Certificates
  - i. Compliance Period 4: 2021- 2024
    - 1. PCC1: (bundled energy and REC): we have enough within PWRPA
    - 2. PCC3: 20,000 procured from outside entity in December 2023. A second purchase for residual will be made in April after water allocations known.
  - ii. Future Compliance Periods

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

**Table 5: Net Position: RECs**  
 Negative numbers are long, Positive is Short

District	CP4: 2021-2024	CP5: 2025-2027	CP6: 2028-2030	*CP7: 2030-2033	Annau Net Short/(Long) 2030+	Avg Solar MW to cure deficiency
AEWSD	(21,188)	17,965	34,205	42,913	14,304	5.1
BCID	4,539	(21,792)	(17,919)	(16,716)	(5,572)	(2.0)
BBID	3,518	1,434	3,649	4,077	1,359	0.5
CWD/LTRID	(10,590)	(9,078)	(11,261)	(9,905)	(3,302)	(1.2)
GCID	1,265	1,604	3,399	4,152	1,384	0.5
JID	(476)	(55)	1,629	1,870	623	0.2
PPCGID	56	112	(43)	159	53	0.0
RD 108	(911)	(998)	(1,425)	(1,270)	(423)	(0.2)
SCVWD	1,870	3,646	6,183	7,702	2,567	0.9
SCWA	(32,292)	(7,609)	(2,789)	(267)	(89)	(0.0)
WSID	2,266	(22,196)	(17,372)	(16,203)	(5,401)	(1.9)
WWD	(10,813)	25,666	68,299	76,861	25,620	9.1
Z7	250	1,695	3,477	3,976	1,325	0.5
<b>Total</b>	<b>(62,506)</b>	<b>(9,605)</b>	<b>70,031</b>	<b>97,350</b>	<b>32,450</b>	<b>11.6</b>
Average Annual	(15,626)	(3,202)	23,344	32,450	10,817	
Solar Need			2.8	3.9	3.9	
<i>*CP7: represents all future CPs at the 60% RPS target</i>						
<i>*each CP stands on its own (does not assume carryover of excess)</i>						