

**Power & Water Resources Pooling
Authority**

Information Packet

Wednesday, May 3, 2023

- 1. Treasurer's Report.**
- 2. Operations Report.**
- 3. General Managers Report.**

Power & Water Resources Pooling Authority

1. Treasurer's Report for the month ending March 31, 2023.

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

CASH ACTIVITY:

BALANCE FEBRUARY 28, 2023 \$ 13,692,455.15

Increases:

Power Billing Invoices	\$ 4,439,560.29	
GHG Auction - Cap and Trade Revenue	501,300.00	
LEC - March 2023	166,890.00	
APX - Astoria Solar	75,214.73	
Whitney Point Solar - January 2023	22,724.30	
TCB - Monthly Interest	2,219.23	
	5,207,908.55	

Decreases:

CAISO	\$ 2,435,141.51	
WAPA O&M	538,449.00	
Canadian Solar - Slate Solar December 2022	104,824.21	
Canadian Solar - Astoria Solar - February 2023	103,992.21	
PG&E - GCID, RD 108, SCVWD, Zone 7	89,184.01	
Robertson-Bryan, Inc	65,878.91	
WAPA - Restoration February 2023	55,598.34	
Trimark - Cell, Meter Reading and T&M	48,132.02	
NextEra Whitney Point Solar - February 2023	41,207.97	
Cameron-Daniel, P.C.	36,997.50	
Aces - March 2023	27,250.00	
Arvin-Edison Water Storage District-Treasurer	9,069.08	
GL Renewables - December 2022 & January 2023	4,712.68	
Michael McCarty Law Office, PLLC	3,000.00	
White Pines Solar Santa Clara WD - February 2023	1,842.65	
Banta Carbona - Board Meetings	1,028.48	
Bank Fees - February and March 2023	940.00	
Holland & Knight - Legal Fees WDT3	385.00	
Braun Blaising & Wynne, P.C.	356.08	
Johnston Farms - RECs	108.15	
Advanced Data Storage	44.50	
Moore Farms - RECs	13.55	
	3,568,155.85	

BALANCE MARCH 31, 2023 \$ 15,332,207.85

TREASURERS REPORT:

Operating Account:

Tri Counties Bank - General Operating Account #1031821, yield 2.0% \$ 2,879,737.71

Local Agency Investment Fund (LAIF) - Account # 90-39007, yield 2.831%

Reserve Funds	\$ 3,019,222.11	
Cap & Trade Allowance Revenue	6,087,980.94	
Funds on Deposit	3,345,267.09	
Total LAIF	12,452,470.14	

TOTAL PWRPA OPERATING FUNDS - MARCH 31, 2023 \$ 15,332,207.85

Public Purpose Program (P-3) Tri Counties Bank Account #1031856 2,973,200.80

TOTAL FUNDS ON DEPOSIT WITH PWRPA MARCH 31, 2023 \$ 18,305,408.65

CAISO Collateral Deposit Account 4,720,980.02

Western Area Power Administration - PWRPA Trust Account 1,000.00

TOTAL FUNDS - PWRPA & OTHER AGENCIES - MARCH 31, 2023 \$ 23,027,388.67

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	Santa Clara	570,943.29
Cawelo	851,845.46	Sonoma	753,745.63
James	43,291.60	West Stan	282,746.34
Glen-Colusa ID	118,183.47	Westlands	573,595.81
RD108	42,539.61	West Side ID	57,887.44
		Zone 7	28,012.40
		Total	\$ 3,345,267.09

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

Member Agency	2019 (a)	2020 (b)	2021 (c)	2022 (d)	2023 (e)	Total Available P-3 Funds (f)	Expenditures Total to Date (g)	March-23 (h)
Arvin-Edison WSD	\$0.00	\$0.00	\$0.00	\$287,039.39	\$48,860.52	\$335,899.91	\$5,237,215.16	\$0.00
Banta Carbona ID	0.00	28,418.11	49,489.90	65,427.64	5,267.39	148,603.04	404,708.20	0.00
Cawelo WD	49,395.58	37,702.35	33,863.10	49,929.32	3,634.34	174,524.69	802,026.78	0.00
Glenn-Colusa ID	0.00	23,300.11	32,132.77	16,991.19	2,198.32	74,622.39	348,863.79	0.00
James ID	8,070.92	10,457.51	15,685.23	23,010.13	1,847.80	59,071.59	122,899.04	0.00
Lower Tule ID	0.00	0.00	0.00	32,941.76	3,598.65	36,540.41	331,806.44	0.00
Princeton ID	7,595.11	9,341.59	8,671.24	5,519.48	495.10	31,622.52	146,848.67	0.00
Santa Clara Valley WD	0.00	0.00	16,885.21	95,595.06	16,276.68	128,756.95	737,636.35	0.00
Sonoma County WA	84,011.90	99,654.97	109,040.76	145,540.92	10,141.40	448,389.95	1,406,740.31	0.00
West Stanislaus ID	0.00	0.00	0.00	61,317.22	2,986.71	64,303.93	496,284.30	0.00
Westlands WD (North & South)	0.00	0.00	102,451.51	1,093,235.26	85,212.30	1,280,899.07	5,531,125.34	0.00
West Side ID	5,539.13	8,928.49	9,001.39	14,164.94	758.74	38,392.69	129,954.40	0.00
RD 108	24,126.08	17,667.76	16,362.76	12,723.85	1,237.94	72,118.39	185,239.74	0.00
Zone 7	0.00	9,318.79	25,493.12	37,692.11	6,844.19	79,348.21	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
Total	\$178,845.78	\$244,789.68	\$419,076.99	\$1,941,128.27	\$189,360.08	\$2,973,200.80	\$15,988,314.58	\$0.00
Exclusive access Date	08/04/23	08/03/24	08/02/25					

- (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) 2022 P-3 collected through March 2023
(e) 2023 P-3 collected through March 2023
(f) Total available P-3 Funds
(g) Total P-3 expenditures since inception of program
(h) P-3 expenditures March 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 March 31, 2023

District	Resolution 13-04-05		Resolution 21-11-14			Total Revenue	Expenditures	Balance
	Allocation	Revenue	2021	2022	2023			
Arvin	37.478%	\$3,421,905.95	\$208,146.78	\$831,876.00	\$140,437.69	\$4,602,366.42	\$3,921,905.95	\$680,460.47
Banta Carbona	3.115%	284,413.18	33,717.30	132,634.85	23,894.46	474,659.79	0.00	474,659.79
Cawelo	8.447%	771,248.19	32,760.55	115,918.41	15,457.59	935,384.74	205,787.50	729,597.24
Glenn-Colusa	2.849%	260,126.21	23,174.67	86,307.16	12,260.29	381,868.33	381,868.33	0.00
James	0.798%	72,860.90	5,746.23	23,359.47	4,750.32	106,716.92	0.00	106,716.92
Lower Tule	1.005%	91,760.91	20,089.23	76,569.91	11,104.80	199,524.85	0.00	199,524.85
Princeton	1.334%	121,800.06	7,684.74	25,968.74	3,291.54	158,745.08	47,503.21	111,241.87
RD 108	1.368%	124,904.41	10,013.47	35,342.29	4,783.91	175,044.08	175,044.08	0.00
Santa Clara	4.853%	443,100.21	45,211.76	169,068.24	27,399.05	684,779.26	443,100.21	241,679.05
Sonoma	7.787%	710,987.29	71,470.54	275,734.34	45,531.07	1,103,723.24	196,000.00	907,723.24
Byron Bethany II	0.708%	64,643.51	5,278.35	20,240.47	3,381.27	93,543.60	93,543.60	0.00
West Stan	3.228%	294,730.57	31,345.36	119,698.69	22,058.20	467,832.82	150,789.15	317,043.67
Westlands	27.030%	2,467,957.68	202,357.42	796,569.54	178,047.22	3,644,931.86	1,390,020.55	2,254,911.31
Zone 7	0.000%	0.00	9,503.60	46,016.34	8,902.59	64,422.53	0.00	64,422.53
Total	100.000%	\$9,130,439.07	\$706,500.00	\$2,755,304.45	\$501,300.00	\$13,093,543.52	\$ 7,005,562.58	\$ 6,087,980.94

(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

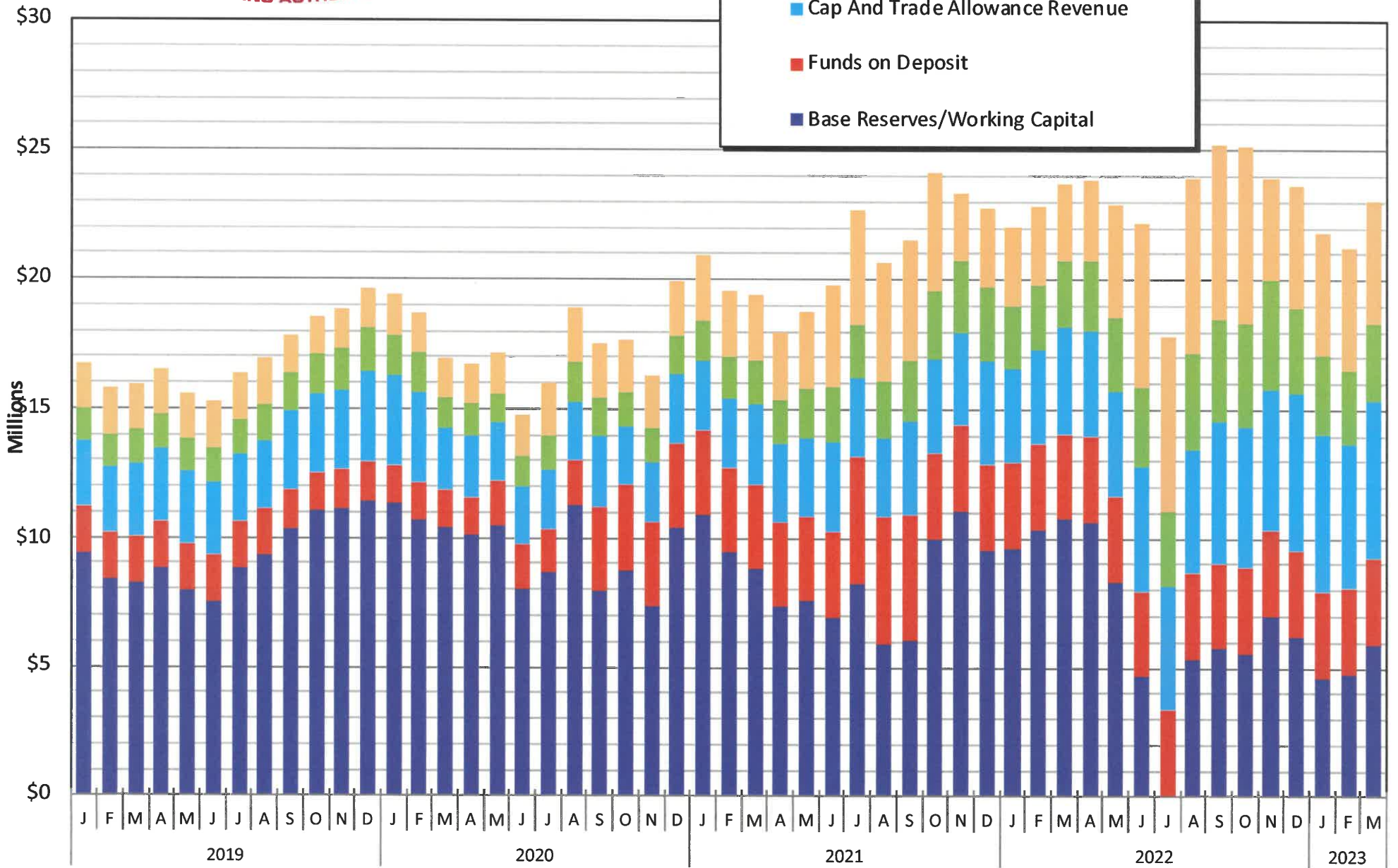
District	Exhibit B Allocation		
	2021	2022	2023
Arvin	29.4617%	30.1918%	28.0147%
Banta Carbona	4.7724%	4.8138%	4.7665%
Cawelo	4.6370%	4.2071%	3.0835%
Glenn-Colusa	3.2802%	3.1324%	2.4457%
James	0.8133%	0.8478%	0.9476%
Lower Tule	2.8435%	2.7790%	2.2152%
Princeton	1.0877%	0.9425%	0.6566%
RD 108	1.4173%	1.2827%	0.9543%
Santa Clara	6.3994%	6.1361%	5.4656%
Sonoma	10.1161%	10.0074%	9.0826%
Byron Bethany II	0.7471%	0.7346%	0.6745%
West Stan	4.4367%	4.3443%	4.4002%
Westlands	28.6422%	28.9104%	35.5171%
Zone 7	1.3452%	1.6701%	1.7759%
Total	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				501,300.00
Total					\$12,592,243.52

Resolution 13-04-05 \$9,130,439.07
Resolution 21-11-14 3,461,804.45
\$12,592,243.52

SUMMARY TREASURER REPORT

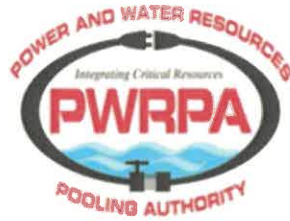


POWER & WATER RESOURCES POOLING AUTHORITY

WIRE TRANSFERS

March 1 - 31, 2023

Transaction Number	Beneficiary Name	Credit Amount	Value Date
169806	Cameron-Daniel, P.C.	\$36,997.50	3/3/2023
169807	Holland & Knight	\$385.00	3/3/2023
169973	CAISO Market Clearing	\$293,928.51	3/7/2023
169974	ACES Power Marketing	\$25,000.00	3/7/2023
170650	CAISO Market Clearing	\$481,145.29	3/13/2023
170651	Pacific Gas and Electric	\$89,184.01	3/13/2023
170652	GL Renewables, LLC	\$1,237.03	3/13/2023
170653	GL Renewables, LLC	\$3,475.65	3/13/2023
170818	WAPA O M	\$538,449.00	3/14/2023
171585	CAISO Market Clearing	\$1,279,498.11	3/21/2023
171586	Western Area Power Administration	\$55,598.34	3/21/2023
171587	Garlock Energy, LLC	\$1,842.65	3/21/2023
172260	CAISO Market Clearing	\$2,705.11	3/24/2023
172429	CAISO Market Clearing	\$377,864.49	3/27/2023
172578	Trimark Associates, Inc.	\$48,132.02	3/28/2023
172579	Whitney Point Solar LLC	\$41,207.97	3/28/2023
172580	Astoria 2 Operating	\$103,992.21	3/28/2023
172581	ACES Power Marketing	\$2,250.00	3/28/2023
172582	Slate 1 (Canadian Solar)	\$104,824.21	3/28/2023
Total		3,487,717.10	



POWER AND WATER RESOURCES POOLING AUTHORITY

DISBURSEMENT LIST

April 2023

Check #	Vendor-name	Payment-description	Check-amount
3351	California Department of Tax and Fee	Electrical Energy Surcharge Return	\$ 12,132.00
3352	Advanced Data Storage	Document Storage - April 2023	44.50
3353	Arvin-Edison Water Storage District	Treasurer's Duties	8,329.40
3354	Barbich Hooper King	Audit Services	13,200.00
3355	Braun Blaising & Wynne, P.C.	Legal Services - March 2023	219.35
3356	Michael McCarty Law Office PLLC	Consultant	4,780.17
3357	Robertson Bryan Inc.	Consultant	68,829.16
3358	Walter Mortensen Insurance	Bond Insurance Premium	263.00
Sub-Total			<u>\$ 107,797.58</u>
Wire Transfers:			
Wire	Cameron-Daniel, P.C.	General Manager/General Council	\$ 39,851.50
Total			<u><u>\$ 147,649.08</u></u>

Power & Water Resources Pooling Authority

2. Extract from Operations Report reflecting March, 2023.

Power and Water Resources Pooling Authority

May 2023 Update

Operations Manager Report

Possible Action

n/a

Operations Staff Overview

1. May planned activity
 - a) Slate: data comms with MCG, invoice resolution, deemed energy protocol, transition to hybrid resource methods for ISO.
 - b) 2022 Reconciliation
 - c) 2023 budget updates for wet year trends
 - d) LTRID Hydro implementation
2. April recap
 - a) Slate coord: data flows, deemed energy discussions, PV/BESS internal cost allocation.
 - b) Various coordination w/ Solar developers on Districts request
 - c) WAPA energy forecast tracking
 - d) LTRID interconnection coord.

Operations Report:

1. Pre-Reconciliation
 - a) Actual data for January – partial April, April - December estimates.
 - b) BR estimates as of May 1 WAPA forecast, mid-year rate letter makes the rate \$31/MWH (down from \$54 in the Dry budget).
 - c) Various Slate data still outstanding.
 - d) May BR energy forecast still leaves room for improvement. Table below is a conservative wet year.

Participant	Revenue	Expenses			Balance	Summary	
	Power Invoice	Power & Ops Costs	P3	Direct Consulting	Over/(Under) Funded	Total Costs	Composite Rate (¢/ kWh)
Arvin-Edison	\$ 15,996,930	\$ 15,304,422	\$ 436,176	\$ 122	\$ 256,210	\$ 15,740,720	\$ 13.84
Banta-Carbona	\$ 2,458,644	\$ 2,286,422	\$ 65,163	\$ -	\$ 107,059	\$ 2,351,585	\$ 12.96
Cawelo	\$ 1,627,113	\$ 1,540,813	\$ 43,913	\$ -	\$ 42,387	\$ 1,584,726	\$ 17.78
Glenn-Colusa	\$ 1,532,936	\$ 1,379,309	\$ 39,310	\$ -	\$ 114,317	\$ 1,418,619	\$ 13.52
James	\$ 620,142	\$ 662,720	\$ 18,888	\$ -	\$ (61,466)	\$ 681,608	\$ 17.22
Lower Tule	\$ 1,563,991	\$ 1,410,870	\$ 40,210	\$ -	\$ 112,911	\$ 1,451,080	\$ 18.32
Princeton	\$ 447,218	\$ 536,709	\$ 15,296	\$ -	\$ (104,787)	\$ 552,006	\$ 15.93
RD108	\$ 415,089	\$ 433,772	\$ 12,362	\$ 1,847	\$ (32,893)	\$ 447,981	\$ 27.54
Santa Clara	\$ 3,674,098	\$ 3,730,634	\$ 106,323	\$ 121	\$ (162,980)	\$ 3,837,078	\$ 18.05
Sonoma	\$ 5,603,301	\$ 5,145,598	\$ 146,650	\$ 54	\$ 311,000	\$ 5,292,301	\$ 14.85
West Stan	\$ 1,574,261	\$ 1,754,529	\$ 50,004	\$ -	\$ (230,272)	\$ 1,804,533	\$ 12.95
Westlands	\$ 16,237,059	\$ 14,026,369	\$ 399,752	\$ -	\$ 1,810,939	\$ 14,426,121	\$ 22.74
Westside	\$ 364,177	\$ 416,473	\$ 11,869	\$ -	\$ (64,166)	\$ 428,343	\$ 16.42
Zone 7	\$ 1,465,276	\$ 1,478,279	\$ 42,131	\$ -	\$ (55,134)	\$ 1,520,410	\$ 19.37
PWRPA	\$ 53,580,235	\$ 50,106,919	\$ 1,428,047	\$ 2,144	\$ 2,043,125	\$ 51,537,110	\$ 16.47

Power and Water Resources Pooling Authority
May 2023 Update
Operations Manager Report

2. Budget Update

- a) Board adopted Dry Budget
- b) Current estimates use May 1 BR forecast and forward power pricing.
- c) Rate update: we anticipate the June meeting to be a better indicator.

Table 2: Summary of Dry budget and Current Estimates

	Current Estimate		Dry Budget		Change				\$ /kWh	
	kWh	Cost	kWh	Cost	kWh	Costs	kWh	Costs	Current	Budget
Arvin-Edison	113,697,821	\$ 15,304,422	132,982,944	\$ 21,426,079	(19,285,123)	\$ (6,121,656)	-15%	-29%	0.135	0.161
Banta-Carbona	18,148,092	\$ 2,286,422	19,435,000	\$ 2,508,225	(1,286,908)	\$ (221,804)	-7%	-9%	0.126	0.129
Bryon-Bethany	2,608,045	\$ 416,473	2,749,931	\$ 447,460	(141,885)	\$ (30,987)	-5%	-7%	0.160	0.163
Cawelo	8,912,461	\$ 1,540,813	10,045,345	\$ 1,943,990	(1,132,884)	\$ (403,177)	-11%	-21%	0.173	0.194
Glenn-Colusa	10,495,153	\$ 1,379,309	10,596,545	\$ 1,547,701	(101,393)	\$ (168,392)	-1%	-11%	0.131	0.146
James	3,957,972	\$ 662,720	5,048,277	\$ 813,063	(1,090,305)	\$ (150,342)	-22%	-18%	0.167	0.161
Lower Tule	7,922,056	\$ 1,410,870	9,729,565	\$ 1,807,889	(1,807,510)	\$ (397,019)	-19%	-22%	0.178	0.186
Princeton	3,464,675	\$ 536,709	2,175,714	\$ 361,395	1,288,961	\$ 175,314	59%	49%	0.155	0.166
RD108	1,626,519	\$ 433,772	1,870,915	\$ 489,537	(244,396)	\$ (55,765)	-13%	-11%	0.267	0.262
Santa Clara	21,257,326	\$ 3,730,634	22,076,892	\$ 3,737,738	(819,566)	\$ (7,104)	-4%	0%	0.175	0.169
Sonoma	35,641,521	\$ 5,145,598	37,894,001	\$ 5,596,691	(2,252,480)	\$ (451,093)	-6%	-8%	0.144	0.148
West Stan	13,938,769	\$ 1,754,529	20,975,424	\$ 2,685,729	(7,036,654)	\$ (931,200)	-34%	-35%	0.126	0.128
Westlands	63,435,503	\$ 14,026,369	205,708,394	\$ 37,296,207	(142,272,892)	\$ (23,269,838)	-69%	-62%	0.221	0.181
Zone 7	7,849,610	\$ 1,478,279	8,157,477	\$ 1,477,482	(307,868)	\$ 797	-4%	0%	0.188	0.181
PWRPA	312,955,522	\$ 50,106,919	489,446,425	\$ 82,139,185	(176,490,903)	\$ (32,032,266)	-36%	-39%	0.160	0.168

3. March operations

- a) Energy is 44% under budget for the month
- b) Load averaged 25 MW (down from last month)
- c) Average schedule deviation of 4.5 MW for an estimated cost of 15,800.

4. Pricing

- a) Average monthly prices

Table 3: Average monthly cost and ISO revenue rates

	Cost	Revenue
BR	\$ 30.68	\$ (73.49)
Displacement	\$ -	\$ -
WWD BOR	\$ -	\$ (54.92)
Whitney Point	\$ 58.75	\$ (58.87)
Astoria	\$ 63.00	\$ (54.55)
Slate	\$ 26.81	\$ (57.08)
Lodi	\$ 78.69	\$ (98.63)
Market		

Power and Water Resources Pooling Authority

May 2023 Update

Operations Manager Report

Generator Reports

1. Astoria Solar
 - a) Generation
 - 2,021MWh, 27% capacity
 - Net credit \$65,700 or \$32 /MWh
2. Whitney Point Solar
 - a) Generation
 - 1,639 MWh, 20% capacity factor
 - Net credit \$32,800, or \$20 /MWh
3. Slate Solar + Battery
 - a) Generation
 - 3,570 MWh, 18% capacity factor
 - Net value \$349,300, or \$98/MWh
 - b) Staff work
 - ACES & MCG to setup data flows: working through data translations.
 - Deemed Energy issues being worked out for all months
4. Lodi Energy Center
 - a) Generation
 - 3,700 MWh, 63% capacity factor
 - Net credit \$92,500, or \$24/MWh

Power Planning & Regulatory

1. Power Net Short
 - a) 2023 – Tracking a wet year, WAPA’s current forecast is May 1, 2023.
 - b) WAPA overview
 - Reservoirs (as of March 30) – majority of them are over the historical average.
 - Snow pack % of normal for this date:
 1. Northern Sierra/Trinity 219%
 2. Central Sierra: 253%
 3. Southern Sierra 336%

Power and Water Resources Pooling Authority

May 2023 Update

Operations Manager Report

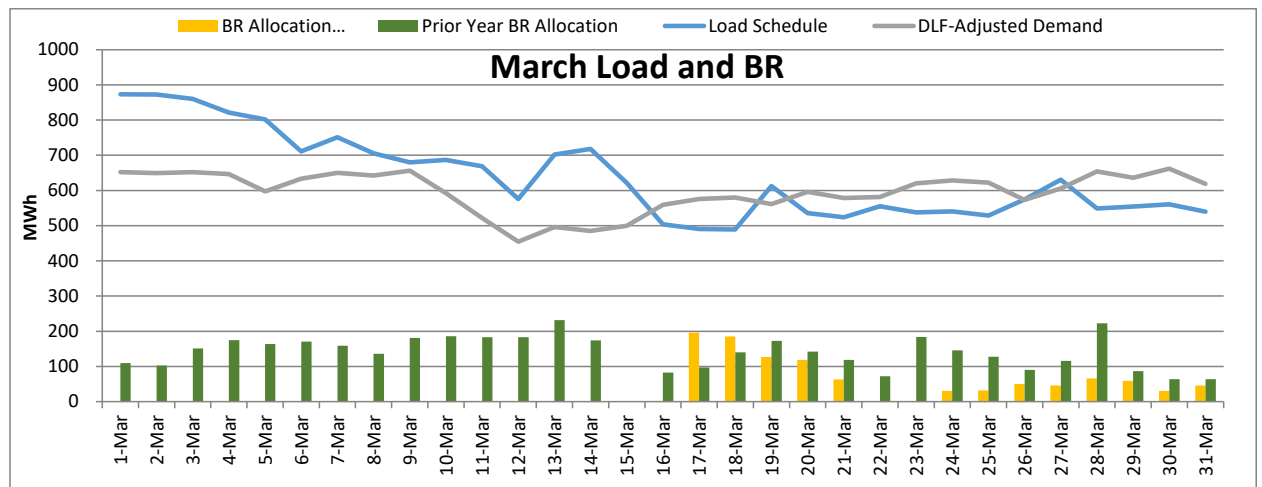
Table 4: May Net Short

May 2023 NSP

ON-PEAK	On Peak														4/20/2023 Forward Mkt	Change from last NSP
	Demand, MW			Resources, MW			Net Long/(Short), MW			Net (Short)/Long based on RMP						
	Wet	Average	Dry	Wet	Average	Dry	Wet	Average	Dry	RMP	Wet	Average	Dry			
5/1/2023	49.7	61.3	60.2	77.4	72.6	70.9	27.7	11.3	10.7	100%	27.7	11.3	10.7	\$ 46.13	\$ (13.25)	
6/1/2023	62.6	66.3	64.9	85.1	76.6	65.2	22.5	10.3	0.3	90%	28.8	16.9	6.8	\$ 58.00	\$ 10.13	
7/1/2023	59.2	63.9	61.8	87.6	77.1	69.2	28.4	13.2	7.4	90%	34.4	19.6	13.6	\$ 92.13	\$ 31.65	
8/1/2023	52.6	56.2	54.2	84.7	74.2	63.6	32.1	17.9	9.4	70%	47.9	34.8	25.7	\$ 122.78	\$ 27.13	
9/1/2023	39.3	41.5	40.5	68.0	63.4	55.9	28.6	21.9	15.3	70%	40.4	34.4	27.5	\$ 112.33	\$ (17.23)	
10/1/2023	30.9	32.2	32.2	54.6	39.2	46.8	23.6	7.1	14.6	70%	32.9	16.7	24.3	\$ 74.18	\$ (39.85)	
11/1/2023	19.4	19.1	19.1	37.5	25.3	31.5	18.1	6.1	12.4	50%	27.8	15.7	21.9	\$ 84.40	\$ 8.25	
12/1/2023	12.0	13.6	13.8	29.2	19.3	24.8	17.2	5.7	11.0	50%	23.2	12.5	17.9	\$ 120.80	\$ 34.50	

Off-Peak	Off Peak														4/20/2023 Forward Mkt	Change from last NSP
	Demand, MW			Resources, MW			Net Long/(Short), MW			RMP	Net (Short)/Long based on RMP					
	Wet	Average	Dry	Wet	Average	Dry	Wet	Average	Dry		Wet	Average	Dry			
5/1/2023	41.5	51.9	51.2	51.5	55.6	53.8	10.1	3.8	2.6	100%	10.1	3.8	2.6	\$ 49.40	\$ (10.00)	
6/1/2023	55.0	59.2	58.2	57.9	53.7	42.7	2.9	(5.6)	(15.5)	90%	8.4	0.4	(9.7)	\$ 53.30	\$ 5.25	
7/1/2023	53.1	57.6	55.6	55.8	43.4	37.7	2.7	(14.2)	(17.9)	90%	8.0	(8.4)	(12.4)	\$ 74.18	\$ 20.83	
8/1/2023	46.7	49.9	48.0	50.4	36.5	31.1	3.6	(13.4)	(16.9)	70%	17.6	1.6	(2.5)	\$ 87.13	\$ 14.40	
9/1/2023	34.4	36.3	35.5	37.0	23.4	20.7	2.6	(12.9)	(14.8)	70%	12.9	(2.0)	(4.1)	\$ 82.73	\$ (1.53)	
10/1/2023	25.4	26.3	26.3	30.8	14.3	16.6	5.4	(12.0)	(9.7)	70%	13.0	(4.1)	(1.8)	\$ 64.65	\$ (19.28)	
11/1/2023	17.3	16.8	16.8	20.3	9.3	11.7	3.0	(7.5)	(5.2)	50%	11.7	0.9	3.3	\$ 79.13	\$ 11.50	
12/1/2023	11.5	12.6	12.8	17.0	8.2	10.7	5.6	(4.4)	(2.1)	50%	11.3	1.9	4.3	\$ 108.45	\$ 28.38	

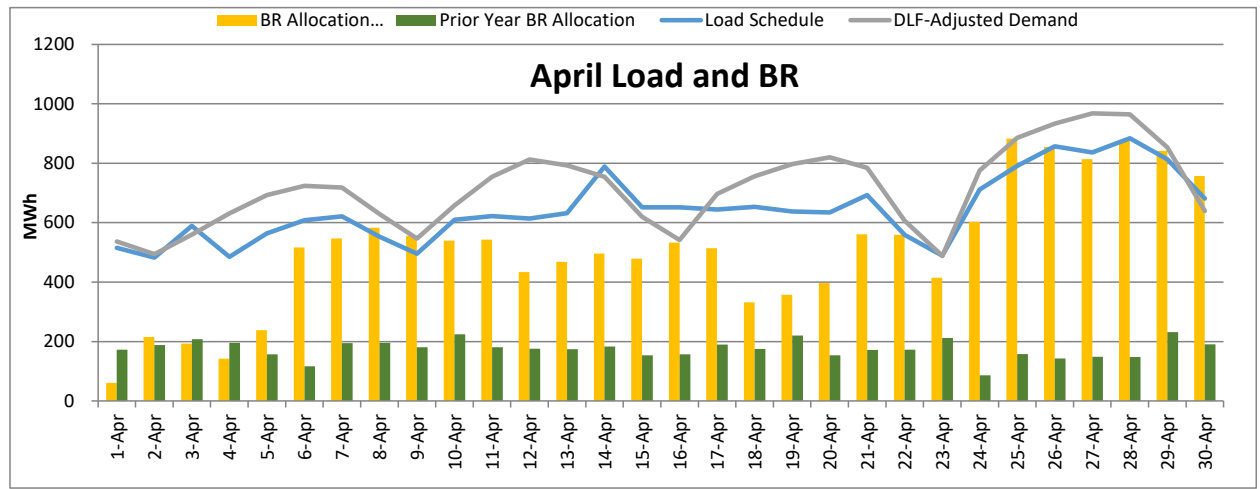
BR output: only covering less 6% of load for March and 71% for April.



Power and Water Resources Pooling Authority

May 2023 Update

Operations Manager Report



2. Regulatory

a) Resource Adequacy:

- No shortfall capacity calls from the CAISO so far in 2023

b) RPS: Compliance snapshot:

- PWRPA staff working with solar developers on various District project solicitations
- 2023 REC purchase is included in the budget, however, we'll reevaluate the volumes late Summer when we have a better feel for the loads/hydro year estimates as well as new project start dates.

Table 5: Current Renewable Compliance Period Exposure Summary

Allocation of Portfolio			Procurement		
	Net Short		\$ 30	\$ 6	\$ 4
Compliance Period 4	PCC1	PCC3	PCC1	PCC3	PCC3 Sale
AEWSD	-	8,229	\$ -	\$ 49,372	\$ -
BCID	8,462	2,787	\$ 253,872	\$ 16,724	\$ -
CWD	-	-	\$ -	\$ -	\$ (30,605)
GCID	857	1,618	\$ 25,705	\$ 9,705	\$ -
JID	856	568	\$ 25,679	\$ 3,410	\$ -
LTRID		1,390	\$ -	\$ 8,341	\$ -
PPCGID	-	498	\$ -	\$ 2,988	\$ -
RD 108	-	-	\$ -	\$ -	\$ (8,110)
SCVWD	3,717	3,472	\$ 111,505	\$ 20,833	\$ -
SCWA	-	4,070	\$ -	\$ 24,422	\$ -
TWID	609	387	\$ 18,271	\$ 2,320	\$ -
WSID	2,993	2,445	\$ 89,786	\$ 14,671	\$ -
WWD	32,086	17,530	\$ 962,582	\$ 105,178	\$ -
Z7	1,102	-	\$ 33,063	\$ -	\$ (10,080)
PWRPA	50,682	42,994	\$ 1,520,462	\$ 257,967	\$ (48,795)

Power and Water Resources Pooling Authority

May 2023 Update

Operations Manager Report

- CEC is near completion of the CP3 validation. Staff working on final validation and acceptance.
- PWRPA staff working to add LTRID Hydro into PWRPA's portfolio, those REC estimates are not include in the data yet.
- PWRPA forward look:

Table 6: RPS requirements summarized by Compliance Period

MWh/RECs					
Compliance Period		Retail Sales	RPS Req	RPS%	LT Req
2021-2024	CP4	1,485,909	591,161	40%	65%
2025-2027	CP5	1,252,529	618,200	49%	65%
2028-2030	CP6	1,222,602	705,420	58%	65%

Table 7: PCC1/PCC2 REC Summary

	PCC1/2 Req	In Portfolio	Coverage	LT RECs	LT%
CP4	518,442	554,423	107%	479,537	81%
CP5	548,280	461,545	84%	461,545	75%
CP6	626,778	462,958	74%	471,958	67%

Table 8: PCC3 REC Summary

	PCC3	In Portfolio	Coverage	LT RECs	LT%
CP4	57,605	32,830	57%	32,830	6%
CP5	60,920	39,510	65%	39,510	6%
CP6	69,642	39,483	57%	39,483	6%

Power & Water Resources Pooling Authority

3. Extract from General Manager's Report reflecting March, 2023.

Power and Water Resources Pooling Authority

May 3, 2023, Board Packet

General Manager's Comment

1. The next PWRPA Regular Board Meeting is set for Wednesday, June 7, at the Cawelo Water District. The auditors will be present, and all Directors (or Alternates) are invited to attend in-person. Please verify with me whether you plan to attend in-person or by teleconference.
2. PWRPA staff is working with White Pine and several districts to evaluate onsite solar generation and/or storage projects. A model has been developed that only requires the district to purchase the generation that is used on site. Excess generation is retained by White Pine and sold into the market. PWRPA staff invites questions from any interested districts that are not already in discussions with us.
3. We have a significant number of Board members and alternates who are relatively to PWRPA. At the very least, a minority of the Board members who have been with PWRPA since its initial formation. PWRPA is a unique and complex organization. It has been on my mind that PWRPA staff should hold a series of short educational teleconferences that explain PWRPA's formation principles, key documents, processes, authorities, opportunities and the like. Please let me know if you would be interested in this series.
4. The energy transition to net-zero by 2050 is in full swing. Accordingly, there are many constantly evolving issues that affect the energy, water and agricultural infrastructure sectors. New technologies, regulations and obligations abound. This is another area in which I believe that PWRPA staff can provide educational teleconferences for interested Board members. We will discuss this further at the June meeting.