

**Power & Water Resources Pooling  
Authority**

# Information Packet

**Wednesday, September 6, 2023**

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

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

2. Treasurer's Report for Month Ending July 31, 2023.

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

**CASH ACTIVITY:**

BALANCE JUNE 30, 2023		\$	22,557,563.39
Increases:			
Power Billing Invoices	\$ 5,727,148.29		
LAIF - Interest 2nd Quarter 2023	123,403.46		
APX - Astoria Solar	52,387.11		
NCPA - Displacement Program	21,509.73		
TCB - Monthly Interest	9,549.54		
CAISO	1,038.93		
			5,935,037.06
Decreases:			
CAISO	\$ 1,559,162.96		
WAPA - Power June 2023	1,230,021.06		
NextEra Whitney Point Solar - May & June 2023	330,776.09		
NCPA - LEC July 2023	317,483.00		
Canadian Solar - Slate Solar partial May 2023	238,897.56		
Canadian Solar - Astoria Solar - June 2023	199,397.39		
WAPA O&M	104,379.00		
Trimark - Cell, Meter Reading and T&M May and June 2023	98,657.49		
PG&E - GCID, RD 108, SCVWD, Zone 7	86,449.63		
Robertson-Bryan, Inc	82,823.39		
WAPA - Restoration June 2023	55,598.34		
Cameron-Daniel, P.C.	38,395.95		
Aces - July 2023	25,000.00		
California Department of Tax and Fee	21,420.00		
GL Renewables - March, April & May 2023	18,402.25		
Barbich Hooper King	12,700.00		
Arvin-Edison Water Storage District-Treasurer	6,942.71		
Holland and Knight	5,774.68		
Michael McCarty Law Office, PLLC	5,310.00		
Anser Advisory	5,000.00		
White Pines Solar Santa Clara WD - June 2023	4,095.30		
Braun Blaising & Wynne, P.C.	525.45		
Bank Fees - July 2023	500.00		
Advanced Data Storage	44.50		
			4,447,756.75
BALANCE JULY 31, 2023		\$	24,044,843.70

**TREASURERS REPORT:**

Operating Account:			
Tri Counties Bank - General Operating Account #1031821, yield 3.25%		\$	3,382,572.98
Local Agency Investment Fund (LAIF) - Account # 90-39007, yield 3.305%			
Reserve Funds	\$ 10,501,667.58		
Cap & Trade Allowance Revenue	6,815,336.05		
Funds on Deposit	3,345,267.09		
Total LAIF			20,662,270.72
TOTAL PWRPA OPERATING FUNDS - JULY 31, 2023		\$	24,044,843.70
Public Purpose Program (P-3) Tri Counties Bank Account #1031856			3,488,460.06
TOTAL FUNDS ON DEPOSIT WITH PWRPA - JULY 31, 2023		\$	27,533,303.76
CAISO Collateral Deposit Account			2,865,514.61
Western Area Power Administration - PWRPA Trust Account			1,000.00
TOTAL FUNDS - PWRPA & OTHER AGENCIES - JULY 31, 2023		\$	30,399,818.37

**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
		<b>Total</b>	<b>\$ 3,345,267.09</b>

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

Member Agency	2019	2020	2021	2022	2023	Total Available	Expenditures	
	(a)	(b)	(c)	(d)	(e)	P-3 Funds (f)	Total to Date (g)	July-23 (h)
Arvin-Edison WSD	\$0.00	\$0.00	\$0.00	\$287,039.39	\$248,923.13	<b>\$535,962.52</b>	\$5,237,215.16	\$0.00
Banta Carbona ID	0.00	28,418.11	49,489.90	65,427.64	27,567.85	<b>170,903.50</b>	404,708.20	0.00
Byron-Bethany ID	5,539.13	8,928.49	9,001.39	14,164.94	5,742.14	<b>43,376.09</b>	129,954.40	0.00
Cawelo WD	49,395.58	37,702.35	33,863.10	49,929.32	35,696.47	<b>206,586.82</b>	802,026.78	0.00
Glenn-Colusa ID	0.00	23,300.11	32,132.77	16,991.19	18,095.47	<b>90,519.54</b>	348,863.79	0.00
James ID	8,070.92	10,457.51	15,685.23	23,010.13	3,944.89	<b>61,168.68</b>	122,899.04	0.00
Lower Tule ID	0.00	0.00	0.00	32,941.76	21,051.88	<b>53,993.64</b>	331,806.44	0.00
Princeton ID	7,595.11	9,341.59	8,671.24	5,519.48	7,786.56	<b>38,913.98</b>	146,848.67	0.00
RD 108	18,375.45	17,667.76	16,362.76	12,723.85	5,281.75	<b>70,411.57</b>	190,990.37	5,750.63
Santa Clara Valley WD	0.00	0.00	16,885.21	95,595.06	51,566.25	<b>164,046.52</b>	737,636.35	0.00
Sonoma County WA	84,011.90	99,654.97	109,040.76	145,540.92	62,195.47	<b>500,444.02</b>	1,406,740.31	0.00
West Stanislaus ID	0.00	0.00	0.00	61,317.22	18,182.33	<b>79,499.55</b>	496,284.30	0.00
Westlands WD	0.00	0.00	102,451.51	1,093,235.26	187,662.30	<b>1,383,349.07</b>	5,531,125.34	0.00
Zone 7	0.00	9,318.79	25,493.12	37,692.11	16,673.48	<b>89,177.50</b>	71,833.02	0.00
Undesignated/Forfeited/Misc	107.06	0.00	0.00	0.00	0.00	<b>107.06</b>	35,133.04	0.00
<b>Total</b>	<b>\$173,095.15</b>	<b>\$244,789.68</b>	<b>\$419,076.99</b>	<b>\$1,941,128.27</b>	<b>\$710,369.97</b>	<b>\$3,488,460.06</b>	<b>\$15,994,065.21</b>	<b>\$5,750.63</b>

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
- (e) 2023 P-3 collected through July 2023
- (f) Total available P-3 Funds
- (g) Total P-3 expenditures since inception of program
- (h) P-3 expenditures July 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 July 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	\$352,859.15	\$4,814,787.88	\$3,921,905.95	\$892,881.93
Banta-Carbona	3.115%	284,413.18	33,717.30	132,634.85	60,036.45	510,801.78	0.00	510,801.78
Byron-Bethany	0.708%	64,643.51	5,278.35	20,240.47	8,495.66	98,657.99	98,657.99	0.00
Cawelo	8.447%	771,248.19	32,760.55	115,918.41	38,838.22	958,765.37	205,787.50	752,977.87
Glenn-Colusa	2.849%	260,126.21	23,174.67	86,307.16	30,804.81	400,412.85	400,412.85	0.00
James	0.798%	72,860.90	5,746.23	23,359.47	11,935.50	113,902.10	0.00	113,902.10
Lower Tule	1.005%	91,760.91	20,089.23	76,569.91	27,901.55	216,321.60	0.00	216,321.60
Princeton	1.334%	121,800.06	7,684.74	25,968.74	8,270.21	163,723.75	47,503.21	116,220.54
RD 108	1.368%	124,904.41	10,013.47	35,342.29	12,019.89	182,280.06	182,280.06	0.00
Santa Clara	4.853%	443,100.21	45,211.76	169,068.24	68,841.96	726,222.17	443,100.21	283,121.96
Sonoma	7.787%	710,987.29	71,470.54	275,734.34	114,399.89	1,172,592.06	196,000.00	976,592.06
West Stan	3.228%	294,730.57	31,345.36	119,698.69	55,422.72	501,197.34	150,789.15	350,408.19
Westlands	27.030%	2,467,957.68	202,357.42	796,569.54	447,355.64	3,914,240.28	1,390,020.55	2,524,219.73
Zone 7	0.000%	0.00	9,503.60	46,016.34	22,368.35	77,888.29	0.00	77,888.29
<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>\$1,259,550.00</b>	<b>\$13,851,793.52</b>	<b>\$ 7,036,457.47</b>	<b>\$ 6,815,336.05</b>

(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

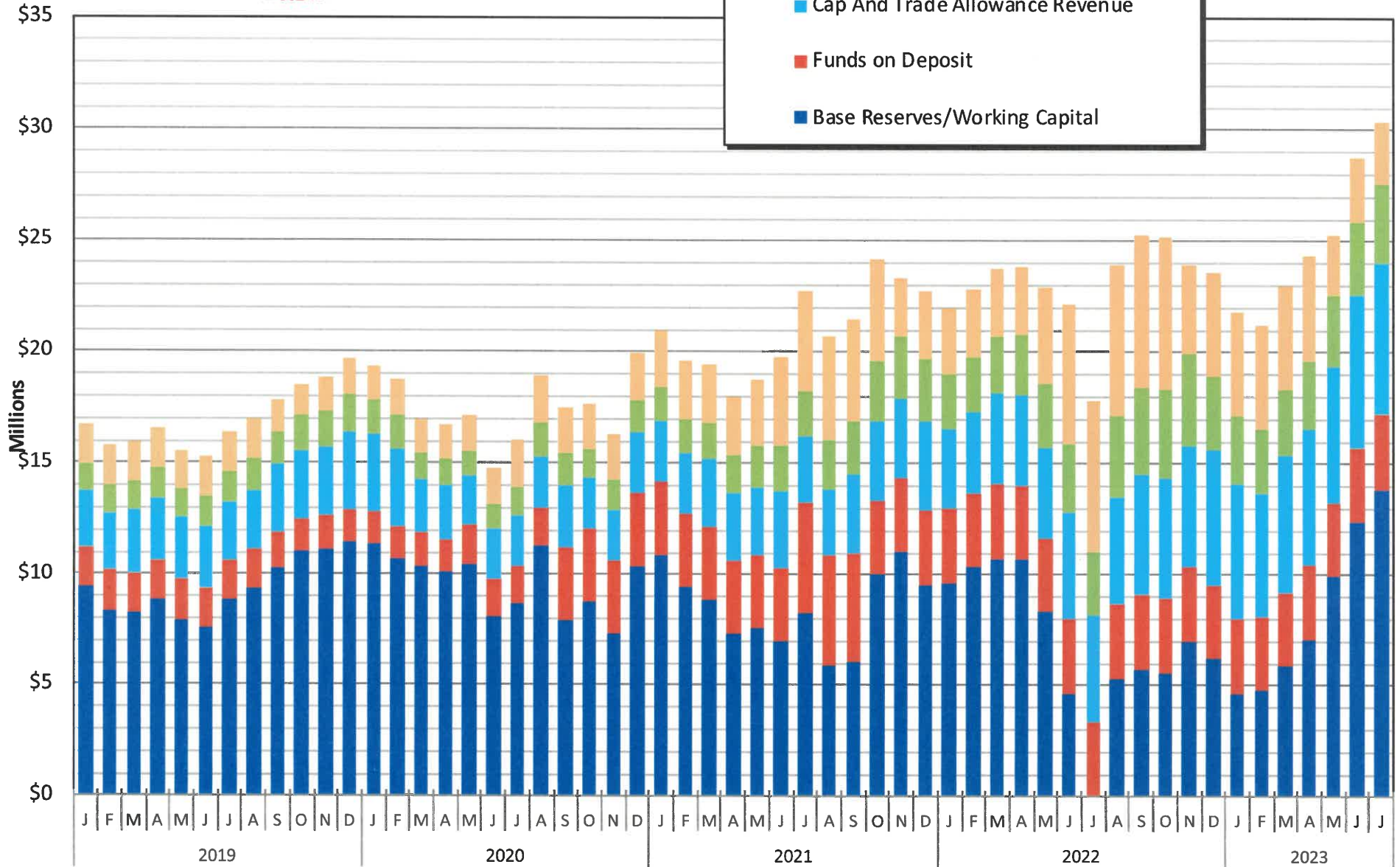
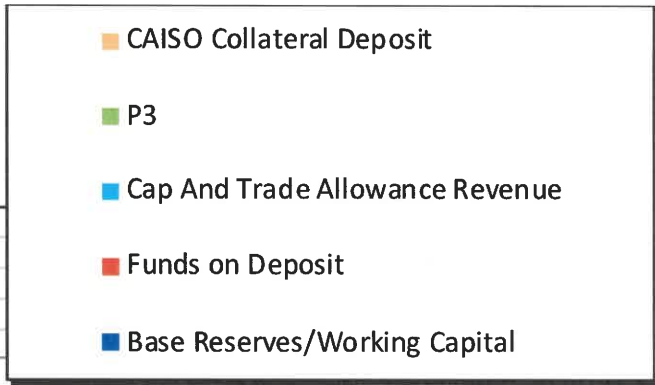
District	Exhibit B Allocation		
	2021	2022	2023
Arvin	29.4617%	30.1918%	28.0147%
Banta Carbona	4.7724%	4.8138%	4.7665%
Byron Bethany	0.7471%	0.7346%	0.6745%
Cawelo	4.6370%	4.2071%	3.0835%
Glenn-Colusa	3.2802%	3.1324%	2.4457%
James	0.8133%	0.8478%	0.9476%
Lower Tule	2.8435%	2.7790%	2.2152%
Princeton	1.0877%	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			1,259,550.00
				<b>Total</b>	<b>\$ 13,851,793.52</b>

Resolution 13-04-05	\$9,130,439.07
Resolution 21-11-14	4,721,354.45
	<u>\$13,851,793.52</u>

# SUMMARY TREASURER REPORT



POWER & WATER RESOURCES POOLING AUTHORITY

WIRE TRANSFERS

July 1 - 31, 2023

Transaction Number	Beneficiary Name	Credit Amount	Value Date
186049	Trimark Associates, Inc.	\$49,156.68	7/3/2023
186050	Whitney Point Solar LLC	\$171,695.10	7/3/2023
186079	CAISO Market Clearing	\$17,473.69	7/3/2023
186080	Pacific Gas and Electric	\$1,805.51	7/3/2023
186081	ACES Power Marketing	\$25,000.00	7/3/2023
186426	Cameron-Daniel, P.C.	\$38,395.95	7/6/2023
186427	Holland & Knight	\$5,774.68	7/6/2023
186867	GL Renewables, LLC	\$18,402.25	7/10/2023
186868	Pacific Gas and Electric	\$84,644.12	7/10/2023
186869	WAPA O M	\$104,379.00	7/10/2023
187791	CAISO Market Clearing	\$105,853.41	7/17/2023
187792	Western Area Power Administration	\$55,598.34	7/17/2023
187793	Slate 1 (Canadian Solar)	\$238,897.56	7/17/2023
187794	Garlock Energy, LLC	\$4,095.30	7/17/2023
187940	Anser Advisory	\$5,000.00	7/18/2023
188646	CAISO Market Clearing	\$1,340,041.75	7/24/2023
188647	Northern California Power Agency	\$317,483.00	7/24/2023
188648	Western Area Power Administration	\$1,230,021.06	7/24/2023
189507	Trimark Associates, Inc.	\$49,500.81	7/31/2023
189508	Astoria 2 Operating	\$199,397.39	7/31/2023
189509	Whitney Point Solar LLC	\$159,080.99	7/31/2023
189510	CAISO Market Clearing	\$95,794.11	7/31/2023
<b>Total</b>		<b>4,317,490.70</b>	



POWER AND WATER RESOURCES POOLING AUTHORITY

**DISBURSEMENT LIST**

August 2023

Check #	Vendor-name	Payment-description	Check-amount
3377	Advanced Data Storage	Document Storage - August 2023	\$ 44.50
3378	Arvin-Edison Water Storage District	Treasurer's Duties	10,593.72
3379	Braun Blaising & Wynne, P.C.	Legal Services - July 2023	308.95
3380	Michael McCarty Law Office PLLC	Consultant	3,000.00
3381	Robertson Bryan Inc.	Consultant	69,848.61
3382	Arvin-Edison Water Storage District	Approved P-3 Project	333,619.69
3383	Byron Bethany Irrigation District	Approved P-3 Project	41,336.26
3384	Cawelo Water District	Approved P-3 Project	160,814.33
3385	James Irrigation District	Approved P-3 Project	8,070.92
3386	Princeton-Codora Glenn Irrigation District	Cap & Trade	50,207.80
3387	Princeton-Codora Glenn Irrigation District	Approved P-3 Project	31,127.42
3388	Reclamation District 108	Approved P-3 Project	22,478.34
3389	Sonoma County Water Agency	Approved P-3 Project	84,011.90
		Sub-Total	\$ 815,462.44
<b>Wire Transfers:</b>			
Wire	Cameron-Daniel, P.C.	General Manager/General Council	\$ 37,471.40
Wire	Holland & Knight	FERC Wholesale Distribution Filing Legal Fees	1,440.60
		Total	\$ 854,374.44



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

3. Operations Report - August 2023 update.

# Power and Water Resources Pooling Authority

## August 2023 Update

### Operations Manager Report

#### Possible Action

n/a

#### Operations Staff Overview

1. September planned activity
  - a) Slate: data comms with MCG, invoice resolution, deemed energy protocol
  - b) LTRID Hydro: start generating early September, finish interconnection agreement
  - c) DSGS: Organize curtailment if called by CEC
  - d) 2024 Budget prep
  - e) WDT 2024 rate case – validation of demands and SA30 adjustment
2. August recap
  - a) Slate coord: data flows, deemed energy discussions, PV/BESS internal cost allocation.
  - b) Various coordination w/ Solar developers on Districts request
  - c) Rate update, RPS compliance period 4 planning

#### Operations Report:

1. Pre-Reconciliation
  - a) Actual data for January – partial August, August - December estimates.
  - b) BR estimates as of August 1 WAPA forecast makes the rate \$30/MWH (down from \$54 in the Dry budget).
  - c) August power prices average \$57 per MWh so far. We have lowered, but still have conservatively prices for Fall.
  - d) Changes include: REC costs for PCC3 (removed PCC1), added a change in reserve estimate, and reordered the tables for BBID naming convention.

**Table 1: 2023 Pre-Reconciliation**

Table 1: Revenue and Expense: January - December 2023									
Participant	Revenue			Expenses			Balance	Summary	
	Power Invoice	Power & Ops Costs	p3	Direct Consulting	Change in Reserve Estimate	Prior Period	Over/(Under) Funded	Total Costs	Composite Rate (c/ kWh)
Arvin-Edison	\$ 18,330,212	\$ 15,370,455	\$ 438,058	\$ -	\$ 213,028	\$ (10,854)	\$ 2,319,525	\$ 16,010,687	\$ 13.04
Banta-Carbona	\$ 2,129,558	\$ 1,775,737	\$ 50,608	\$ -	\$ (31,997)	\$ 2,993	\$ 332,217	\$ 1,797,341	\$ 12.68
Byron-Bethany	\$ 442,845	\$ 409,084	\$ 11,659	\$ -	\$ (884)	\$ 232	\$ 22,754	\$ 420,091	\$ 15.63
Cawelo	\$ 2,671,390	\$ 2,382,386	\$ 67,898	\$ -	\$ 31,416	\$ 9,974	\$ 179,715	\$ 2,491,675	\$ 14.48
Glenn-Colusa	\$ 1,593,608	\$ 1,293,123	\$ 36,854	\$ -	\$ (1,178)	\$ 278	\$ 264,532	\$ 1,329,076	\$ 12.12
James	\$ 389,958	\$ 303,217	\$ 8,642	\$ -	\$ (8,515)	\$ (761)	\$ 87,375	\$ 302,582	\$ 25.51
Lower Tule	\$ 1,733,396	\$ 1,401,978	\$ 39,956	\$ -	\$ 11,199	\$ (1,922)	\$ 282,185	\$ 1,451,211	\$ 14.90
Princeton	\$ 610,948	\$ 585,352	\$ 16,683	\$ -	\$ 1,560	\$ 328	\$ 7,025	\$ 603,923	\$ 14.22
RD108	\$ 504,223	\$ 419,939	\$ 11,968	\$ 21	\$ (9,163)	\$ 566	\$ 80,892	\$ 423,331	\$ 19.79
Santa Clara	\$ 3,710,134	\$ 3,640,427	\$ 103,752	\$ 2,371	\$ 13,809	\$ (1,529)	\$ (48,696)	\$ 3,758,830	\$ 17.85
Sonoma	\$ 4,945,554	\$ 4,626,664	\$ 131,860	\$ 54	\$ (1,884)	\$ (7,254)	\$ 196,114	\$ 4,749,440	\$ 14.10
West Stan	\$ 1,772,729	\$ 1,495,648	\$ 42,626	\$ -	\$ (10,654)	\$ 1,000	\$ 244,109	\$ 1,528,620	\$ 12.32
Westlands	\$ 11,246,127	\$ 9,499,679	\$ 270,741	\$ -	\$ (225,157)	\$ (40,828)	\$ 1,741,693	\$ 9,504,434	\$ 26.83
Zone 7	\$ 1,455,651	\$ 1,331,412	\$ 37,945	\$ -	\$ 18,421	\$ (1,166)	\$ 69,039	\$ 1,386,612	\$ 21.12
<b>PWRPA</b>	<b>\$ 51,536,334</b>	<b>\$ 44,535,100</b>	<b>\$ 1,269,250</b>	<b>\$ 2,445</b>	<b>\$ 0</b>	<b>\$ (48,942)</b>	<b>\$ 5,778,480</b>	<b>\$ 45,757,854</b>	<b>\$ 15.55</b>

# Power and Water Resources Pooling Authority

## August 2023 Update

### Operations Manager Report

2. July operations
  - a) Energy is 33% under budget for the month, 37% for the year
  - b) Load averaged 60 MW (18 MW higher than last month)
  - c) Average schedule deviation of 5 MW for an estimated benefit of 5,200.
3. Pricing
  - a) Average monthly prices:

**Table 2: Average monthly cost and ISO revenue rates**

	Cost	Revenue
BR	\$ 30.23	\$ (58.33)
Displacement	\$ 30.23	\$ (60.42)
WWD BOR	\$ -	\$ (58.73)
Whitney Point	\$ 58.75	\$ (43.93)
Astoria	\$ 63.00	\$ (53.09)
Slate	\$ 26.81	\$ (46.66)
*Lodi	\$ 123.48	\$ (129.35)
Market		

### Generator Reports

1. Astoria Solar
  - a) Generation
    - o 3,358 MWh, 45% capacity
    - o Net credit \$125,600 or \$37 /MWh
2. Whitney Point Solar
  - a) Generation
    - o 3,273 MWh, 41% capacity factor
    - a. Net credit \$105,500, or \$30 /MWh
3. Slate Solar + Battery
  - a) Generation
    - o 7,934 MWh, 41% capacity factor
    - o Net value \$569,300, or \$80 /MWh
  - b) Staff work
    - o ACES & MCG to setup data flows: working through data translations
    - o Deemed Energy issues still outstanding
4. Lodi Energy Center
  - o Operations:
    - 1,606 MWh, or 27% capacity factor due to economics

# Power and Water Resources Pooling Authority

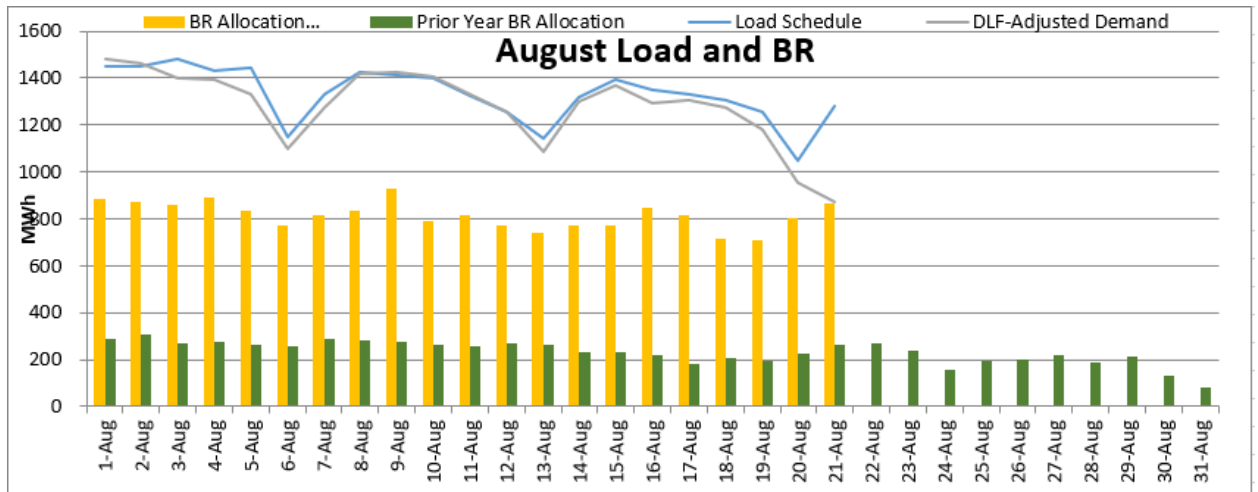
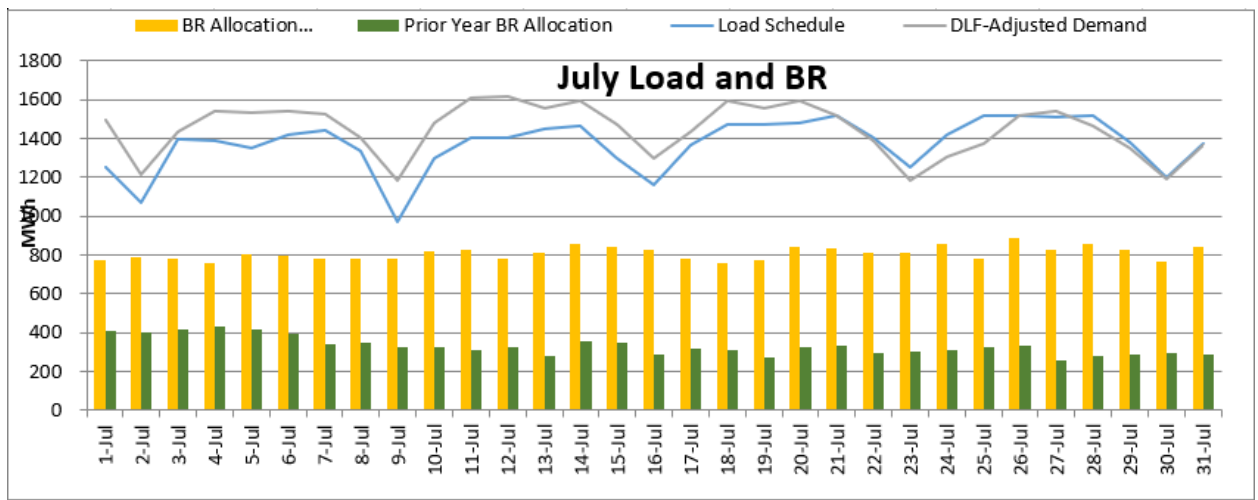
## August 2023 Update

### Operations Manager Report

- 81% RA availability

#### Power Planning & Regulatory

1. Power Net Short
  - a) WAPA's current forecast is August 1, 2023.
  - b) Staff will start focusing on 2024 net short position.
2. BR output:
  - a. Covers 56% of load for July and 65% of August so far.



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

4. GM Comments.

**Power and Water Resources Pooling Authority  
September 6, 2023 Information Packet  
GM Comments**

**Project activities in August**

- Executed PPA and Rate Agreement with White Pine for the 3.6 MWac BCID Solar facility. The PPA enables export and monetization of excess generation.
- Final negotiations and drafting of a PPA with Clearway for 2MW solar output from a larger facility. This results from a specific negotiation between the WWD Board and Clearway.
- Prepared final LTRID Bucket 1 REC Agreement for execution in early September. Delivery should begin no later than September 20.
- Project presentation by White Pine for WWD solar and distribution system. After discussion, White Pine will review other load sites that are owned by WWD.
- Initial project discussion with White Pine for RD 108 distribution system and possible solar upgrade.
- Initial discussions with NextEra regarding offtake from large solar/storage facility with COD in 2029. The facility is located in Nevada but has its first interconnection with the CAISO and so all bundled output will be Bucket 1.

**PLEASE READ AND RESPOND**

- **I am proposing a Special Meeting in the week of September 18-22 to:**
  - **Consider and possibly approve the Clearway-PWRPA PPA and WWD-PWRPA Rate Agreement for the 2MW allocation from a larger Clearway Facility. This project is for WWD only and the Rate Agreement uses the standard PWRPA template.**
  - **Presentation by NextEra to describe its Rock Valley Solar/Storage project with COD in 2029.**
- **My preference is for Monday, September 18 at 0900. Please respond with your availability for that week and specifically for this date/time I am proposing.**