

**Power & Water Resources Pooling
Authority**

Regular Meeting of the Board of Directors

**9:00 A.M.
Wednesday, June 5, 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 **June 5, 2024, at 9:00 a.m., at the Cawelo Water District, 17207 Industrial Farm Road, Bakersfield, CA 93308**, and by simultaneous teleconference at the following locations:

Byron Bethany Irrigation District
7995 Bruns Rd, Byron, CA 94514

Glenn Colusa Irrigation District
344 E. Laurel St., Willows, CA 95988

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

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

West Stanislaus Irrigation District
116 E Street, Westley, CA 95387

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

Zone 7 Water Agency
100 N. Canyons Pkwy, Livermore, CA 94551

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

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

1	Chair	Roll Call of all Directors participating
2	Chair	Matters Subsequent to Posting the Agenda
3	Chair	Public Comment – During Agenda Item 3, any member of the public may address the Board concerning any matter on the agenda.
4	Chair 2 Min	Consent Agenda A. Minutes of the Regular Board Meeting held on April 3, 2024. B. Add 7 Points of Delivery – WWD. C. Request for P3 funds (\$33,191.63): GCID pump efficiency rebuilds. D. Request for P3 funds (\$76,894.14): Zone 7 energy efficiency master plan. E. Request for P3 funds (\$197,627.72): BCID high efficiency pumps with VFD. F. C&T funds request (\$635,001.49): BCID high efficiency pumps with VFD. G. Request for P3 funds (\$13,174.19): RD 108 solar facility energy efficiency. H. Integrated Resource Plan Annual Update.
5	TR Auditors 60 Min	A. Report by Auditors. Consider and possibly accept Resolution 24-06-04 2023 <i>Annual Audit</i> . B. 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 45 Min	A. GM Report – PG&E matters; Strategy Team updates; ARB allowance allocations; GM office hours and OTC; Buena Vista WSD update.

	<p>B. OM Report – Ops highlights; Lower Tule River hydro update; RPS compliance review.</p> <p>C. Consider and possibly approve Resolution 24-06-05 <i>WAPA Annual O&M Obligation for 2026</i>.</p> <p>D. Consider and possibly approve Resolution 24-06-06 <i>2023 Power Source Disclosure</i>.</p>
7	<p>Chair Board Matters – Other announcements.</p>
	<p>Chair Adjournment - Next Regular Meeting will be held at Sonoma County Water Agency on Friday, August 9, 2024, at 9:00 A.M.</p>

Power & Water Resources Pooling Authority

Consent Agenda • Item 4

1. Minutes of the April 3, 2024, Regular Board Meeting.
2. Add 7 Points of Delivery – WWD.
3. Request for P3 funds (\$33,191.63): GCID pump efficiency rebuilds.
4. Request for P3 funds (\$76,894.14): Zone 7 energy efficiency master plan.
5. Request for P3 funds (\$197,627.72): BCID high efficiency pumps with VFD.
6. C&T funds request (\$635,001.49): BCID high efficiency pumps with VFD.
7. Request for P3 funds (\$13,174.19): RD 108 solar facility energy efficiency.
8. IRP Annual Update.



Power & Water Resources Pooling Authority

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Power and Water Resources Pooling Authority

REGULAR MEETING MINUTES APRIL 3, 2024

1	Chair	<p>Directors and Alternates Present: <i>Dave Nixon (AEWSD), David Weisenberger (BCID), Ed Pattison (BBID), Dave Ansolabehere (CWD), Louis Jarvis (GCID), Manny Amorelli (JID), John Michael Domondon (LTRID), Albert Perez & Gary Enos (PPID), Jordan Navarott (RD 108), John Brosnan (SCVWD), Dale Roberts (SCWA), Bobby Pierce (WSID), Kiti Campbell (WWD), Sal Segura (Z7).</i></p> <p><i>Also participating: Bruce McLaughlin (GM), Cori Bradley (OM), Jennifer Montoya (WWD).</i></p> <p>David Weisenberger, serving in his capacity as Chairman, opened the meeting at 9:00 A.M.</p>
2	Chair	<p>Matters Subsequent to Posting the Agenda - None</p>
3	Chair	<p>Public Comment – None.</p>
4	Chair	<p>Consent Agenda</p> <p>A. Minutes of the Regular Board Meeting held on February 7, 2024.</p> <p>B. Adding 1 Point of Delivery – AEWSD.</p> <p>David Ansolabehere moved, David Nixon seconded, and participating Directors unanimously approved the Consent Agenda.</p> <p><i>Voting Shares: 100.0% Yes / 0% No / 0.0% Absent</i></p>
5	Chair	<p>A. A presentation was by representatives from Buena Vista Water Storage District regarding a request for electric service. They provided descriptions of the electrical load requirements and their plans to construct a solar facility. Service would be provided under WDT Service Agreement 56 at primary voltage, which would add to the MW cap applicable to New PWRPA Customers. The addition would not restrict Existing PWRPA Customers from adding additional load under SA 56. Buena Vista requested assistance to review their financial calculations that are specific to PWRPA's operations.</p> <p>David Nixon moved, David Ansolabehere seconded, and participating Directors unanimously approved the allocation of PWRPA staff time to assist with financial calculations subject to Buena Vista contracting directly with RBI.</p> <p><i>Voting Shares: 100.0% Yes / 0% No / 0.0% Absent</i></p>
6	TR	<p>B. 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>David Ansolabehere moved, Bobby Pierce seconded, and participating Directors unanimously approved the Treasurer's Report including the Ordering of Accounts and Claims.</p> <p><i>Voting Shares: 100.0% Yes / 0% No / 0.0% Absent</i></p>
7	GM OM	<p>A. GM Report - Mr. McLaughlin provided an update on the Strategy Team activities and the strategic planning session scheduled for August 8-9 in Sonoma. He also described a new opportunity in which PWRPA has been provisionally accepted to participate with the Pacific Northwest National Lab in a research project on using the DMC and California Aqueduct for long duration energy storage (pumped hydro).</p>

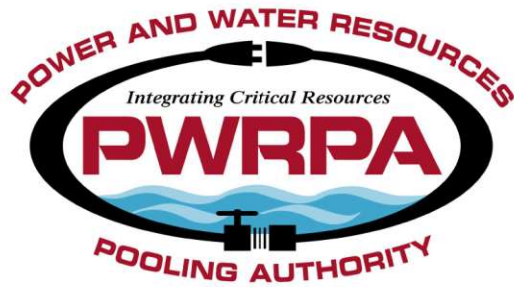
	<p>B. OM Report – Ms. Bradley gave a summary of Ops highlights for March that were included in the Board Packet.</p> <p>C. RPS – Ms. Bradley did a deep dive on projections for RPS compliance and REC needs by district. Emphasis was placed on net shorts in Compliance Periods 5 and 6 up through 2030.</p> <p>D. Mr. McLaughlin presented the spreadsheets and other materials for updating the Exhibits B & C to the JPA. These Exhibits are used for voting shares (effective April 1, 2024), Cap & Trade allowance allocation (effective January 1, 2024) and for the 2023 Annual Reconciliation (effective January 1, 2024).</p> <p>David Nixon moved, Dave Ansolabehere seconded, and participating Directors unanimously approved Resolution 24-04-03 <i>Annual Update to Exhibits B & C to the Joint Powers Agreement and Cap & Trade Allocations</i>.</p> <p><i>Voting Shares: 100.0% Yes / 0% No / 0% Absent</i></p>
8	<p>OM</p> <p>Special Projects</p> <p>Ms. Bradley provided an update on the Lower Tule River small hydro project. It is not yet operating due to delays in the interconnection process.</p>
9	<p>Chair</p> <p>Board Matters – There were no other announcements.</p>
	<p>Chair</p> <p>Adjournment – The meeting was adjourned at 10:33 A.M. The next Regular Meeting is Wednesday, June 5, 2024, at 9:00 A.M.</p>

Power and Water Resources Pooling Authority

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David Weisenberger
Chairman

May 15, 2024

David Ansolabehere
Vice Chairman

Via E-mail

Bruce McLaughlin
Secretary

Mr. Arun K. Sethi, P.E.
Power Marketing Manager
Western Area Power Administration – Sierra Nevada Region
114 Parkshore Drive
Folsom, CA 95630-4416

David A. Nixon
Treasurer/Auditor

Re: Request for New Delivery Points – Westlands

Dear Mr. Sethi:

Member Agencies
Banta-Carbona I.D.
Byron Bethany I.D.
Glenn-Colusa I.D.
James I.D.
Lower Tule River I.D.
Princeton-Codora-Glenn I.D.
Provident I.D.
West Stanislaus I.D.

The Power and Water Resources Pooling Authority (“PWRPA”) hereby requests that the Western Area Power Administration (“WAPA”) take the following necessary actions for the Westlands Water District (“Westlands”), a PWRPA participant being served under WAPA’s service agreement for wholesale distribution service (Contract No. 04-SNR-00789) with Pacific Gas and Electric Company.

Add wholesale distribution service to seven (7) points of delivery, as described in Attachment 1, comprised of five (5) groundwater wells and two (2) filter stations that are owned by Westlands in compliance with Section 10.4 and Appendix C of Contract No. 04-SNR-00789.

Main Address
Banta-Carbona I.D.
P.O. Box 299
Tracy, CA 95378-0299
Tel: (209) 835-4670
Fax: (209) 835-7009

For the added service, PWRPA makes a preliminary designation of the Primary Plus Option for this point of delivery. As described in Section 3 of Appendix F to the WDT SA, this designation is preliminary since PG&E has yet to provide Cost of Ownership charge information, and therefore, PWRPA is unable to make an informed choice between the Primary Plus Option and Secondary Option. As such, PWRPA retains its rights to select between the Primary Plus Option and Secondary Option once PG&E has provided Cost of Ownership charge information for each delivery point.

Billing Address
PWRPA
P.O. Box 160
Arvin, CA 93203
Tel: (661) 854-5573
Fax: (661) 854-5213

PWRPA preliminarily selects the “monthly” payment option for each new point of delivery.

PWRPA requests that these points of delivery be designated as Ag Distribution Points of Delivery in accordance with PG&E WDT Section 10.2.3.1. PWRPA represents that each point of delivery is used to pump

and move water for agriculture, irrigation or sustainable groundwater management purposes.

Westlands has represented to PWRPA that service to these facilities will satisfy the conditions of service set forth in Appendix C. Therefore, the authority for making this request is pursuant to PWRPA Board Resolution 16-01-02 *Expedited Approval Process for Adding and/or Removing Points of Delivery*, a copy of which was provided to you previously.

As with the load for other PWRPA customers, PWRPA will provide full requirements retail electric service for these additional facilities.

Please call Katarina Campbell at (559) 241-6226 or Cori Bradley (916) 405-8923 with any questions regarding this letter or the enclosed description of the delivery points.

Sincerely,



Cori Bradley
Operations Manager

Enclosure

cc: (via e-mail) Andrew Conner – Pacific Gas & Electric Company
Patrick Wong – Pacific Gas & Electric Company
Santee Peebles – Western Area Power Administration
Katarina Campbell – Westlands Water District
Jenny Montoya – Westlands Water District
Bruce McLaughlin – PWRPA General Manager
Richard Bomer – Robertson-Bryan, Inc

ATTACHMENT 1

Loads Subject to Service Request May 2024

Item	Load Designation / Location	Maximum Motor Input (kW)	Nominal Delivery Voltage (v)	PG&E Meter Number	PG&E Account Number	H.P.	Facility Type	Latitude, Longitude	
1	181711D02	187	448	1010019096	8268427713-8	250	WELL	36.386	-120.102
2	181710E01	373	448	1010126945	1721093206-1	500	WELL	36.379	-120.121
3	181723P02	373	448	1010027223	9380658631-4	500	WELL	36.344	-120.094
4	181715N06	298	448	1010046651	1358552507-7	400	WELL	36.358	-120.121
5	181522D	82	448	1010056453	8885086604-2	110	FILTER STATION	36.353514	-120.338018
6	171413A01	373	448	1009511591	5389733000	500	WELL	36.457499	-120.393824
7	181818B	30	448	New Service	New Service	40	FILTER STATION	Pending Install	



GLENN-COLUSA IRRIGATION DISTRICT

BOARD OF DIRECTORS

John Amaro, President Logan Dennis, Vice President
Donald R. Bransford Peter Knight Blake Vann

GENERAL MANAGER

Jeff Sutton

May 1, 2024

Mr. Bruce McLaughlin, General Manager
Power and Water Resources Pooling Authority
Post Office Box 299
Tracy, CA 95378

Subject: Request Disbursement of P3 Funds

Dear Mr. McLaughlin:

In accordance with the Power and Water Resource Pooling Authority’s Public Purpose Program (P3) Guidelines, Glenn-Colusa Irrigation District hereby requests disbursement of its designated P3 funds in the amount of \$33,191.63 as reimbursement for costs related to rebuilding a pump and rewinding a pump motor that are installed at one of our water recapture facilities. A copy of the receipt, purchase order, and invoice #91053 from Davis Machine Shop, Inc. for this work is enclosed. Please contact me if you have any questions or need additional information.

Sincerely,

Louis Jarvis
Finance Director

Enclosures (1)



Protecting agriculture and wildlife in the Sacramento Valley for more than a century



GLENN-COLUSA IRRIGATION DISTRICT
Post Office Box 150
Willows, California 95988
530.934.8881

Check #: 24 14244

Date: 4/4/2024

Pay: Sixty-Four Thousand Three Hundred Seventy-One & 39/100 Dollars

Amount: \$64,371.39

To: Davis Machine Shop, Inc.
P.O. Box 37
Meridian, CA 95957

NON-NEGOTIABLE --- NOT A CHECK

Invoice #	Description	Amt Due	Discount	Payment
91351	Purchase Order: 73977	10,035.85		10,035.85
91052	Purchase Order: 73975	21,143.91		21,143.91
91053	Purchase Order: 73976	33,191.63		33,191.63

Totals: 64,371.39 64,371.39

P.O. Box 150
344 East Laurel Street
(530) 934-8881

PURCHASE ORDER
Glenn-Colusa Irrigation District
WILLOWS, CALIFORNIA 95988

No. 73976

Vendor DAVIS MACHINE Date 2/29/24

Ship or Deliver To _____ F.O.B. _____

QUANTITY	DESCRIPTION	PRICE
	REBUILD Pump + REWIND MOTOR MATERIALS	8742 ³⁸
	LABOR	23815 ⁴³
	TAX	633 ⁸²
		33,191 ⁶³



INSTRUCTIONS:

- 1. INVOICES MUST BE SIGNED BY PERSON RECEIVING MATERIAL OR SERVICES
- 2. PURCHASE ORDER NUMBER MUST BE SHOWN ON ALL INVOICES, SHIPPING PAPERS
- 3. COPIES OF INVOICES INCLUDED WITH MONTHLY STATEMENT

Where used Hunter Creek #2 Segregation 11-1040 By _____ Purchasing Agent

(OR UNIT NO.)

DAVIS MACHINE SHOP, INC.
 P.O. BOX 37 • (530) 696-2576
 MERIDIAN, CA 95957

NAME GC1D Hunter Creek #2
 DATE 10-3-23 PAGE 2 OF 5 INVOICE NO. 91053

QTY	MATERIAL USED	UNIT PRICE	TOTAL
4 lbs	.085 Alum. bronze wire	45.00	180.00
1	1 1/8" MSP 60" x 50"	458 lbs	6676.50
1	1 1/8" MSP 38" x 28"	252 lbs	441.00
1	3/4" MSP 12" x 38"	48 lbs	72.83
1	3/8" x 24" OD pipe	115.69	1,572.23
1	12ga SS 24" x 2 1/2"	15 lbs	64.08
40"	1 1/16" SS Ø	33 lbs	106.74
4"	1/2" SS Ø	5 lb	4.08
34	Tube of Belzona		388.14
30"	3" SC 80 pipe	15.5'	37.95
29"	2 1/2" SC 80 pipe	11.8'	22.76
6"	2 3/4" x 3 1/4" Dam	9.842'	49.21
1	2 1/2" Berle Factory tube		109.23
98"	1 1/2" PG Ø	49 lbs	121.75
1	1 1/2" x 87.P.I.		62.00
3"	3/8" key stock	.5 lb	2.38
7"	3 1/2" x 1" Brass	30.28'	21.96
1	2 1/2" - 12 x 1 1/2" Berle Fine Brg		60.44
1	1 1/2" Prime tension cap ass.		1280.00
16	5/8 - 11 x 2 1/2" SS Bolt	4.29	68.64
16	5/8 - 11 SS nuts	1.15	18.40
1	3/4" SS pipe plug		2.60
8	1/4" x 3/4" SS Bolt	27	216
8	1/4" SS nuts	27	56
16	3/4" SS nuts	1.24	19.84
16	3/4" x 2 1/2" SS Bolt	7.49	119.84
SUB TOTAL →			6694.85

JOB TIME AND COST REPORT
 SUPPLEMENT SHEET

DAVIS MACHINE SHOP, INC.
 P.O. BOX 37 • (530) 696-2576
 MERIDIAN, CA 95957

NAME CP10 Hunter Creek #2
 DATE 10/3/23 PAGE 5 OF 5 INVOICE NO. 91053

QTY	MATERIAL USED	UNIT PRICE	TOTAL
11-2	Tony 8hr	880.00	
11-6	Tony 4hr	440.00	
11-7	Tony 1 1/2 hr	165.00	
2-3	Mentor 1hr	115.00	
2-4	Mentor 4hr	460.00	
2-19	George 3hr	330.00	
2-20	George 2hr	220.00	
1-23	Mentor 4hr	28.75	
1-26	Mentor 1hr	115.00	
1-18	Mentor 4hr	57.50	
1-15	Devia 15min	51.25	
1-16	Mentor 4hr	920.00	
1-18	Devia 1hr	125.00	
1-1	1 hr 30min RT	229.10	
1-17	1hr 20	920.00	
1-18	Mentor 4hr	517.50	
1-12	Scott 8hr	220.00	
1-22	Devia 30min	62.50	
1-1	1 30min RT	12.70	
1-10	Mentor 6hr	660.00	
1-17	Lee 4 Shop	880.00	
1-12	Lee 4 Shop	880.00	
1-20	Alexis 8 Shop	880.00	
1-10	1 hr 20	880.00	
1-25	Mentor 1hr	27.50	
1-25	Alexis 5 Shop	550.00	
1-24	Mentor 3hr	920.00	
1-10	Mentor 6hr	920.00	
SUB TOTAL			12,496.68

JOB TIME AND COST REPORT
 SUPPLEMENT SHEET



May 8, 2024

Bruce McLaughlin
General Manager
Power and Water Resources Pooling Authority
3514 W. Lehman Road
Tracy, CA 95304

Subject: P-3 Disbursement Request, Zone 7

Dear Mr. McLaughlin,

Zone 7 hereby requests approval to disburse funds from its designated Public Purpose Program (P-3) account for activities performed as part of Zone 7's ongoing Energy Master Plan study, including research and feasibility studies to identify cost-effective energy efficiency savings, opportunities for distributed generation and renewable generation, and energy audits.

Enclosed is the P-3 Disbursement Request Form, as well as a copy of a recent invoice from Zone 7's consultant on the project that document costs in excess of the requested disbursement.

Zone 7 is seeking disbursement of \$76,894.14 from P-3 funds collected through 2022. Please advise if you have any questions, by phone at (925)454-5036 or via email at jcarney@zone7water.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "James Carney", is written over a light blue circular background.

James Carney
Senior Planner

Enc.

cc: David Weisenberger, PWRPA
Osborn Solitei, Zone 7
Ken Minn, Zone 7
Teri Yasuda, w/ Enclosures, Zone 7

P-3 Disbursement Request Form

Request date: 5/7/2024

Effective date: 5/7/2024

Participant: Zone 7 Water Agency

Project description (check below and attach a project plan plus schedule):

The Zone 7 Energy Master Plan study includes a baseline energy assessment, development and adoption of an energy policy, the development and initial application of a conceptual level project identification and screening framework, and the development of an Energy Master Plan to guide future energy management efforts at Zone 7. Study is scheduled to be completed by the end of 2024.

Requested amount (funds must be used within 1 year of effective date): \$76,894.14

Funds available in Participant's Designated Account: \$116,772.91

Funds available in PWRPA Undesignated Account: _____

Approved by Board on date: _____

	Purchase, installation of interval recording meters and telemetry. (Required by Resolutions 07-02-01 and 07-04-02)
	Purchase, installation of power monitoring equipment.
	Purchase, installation of Supervisory Control and Data Acquisition (SCADA) equipment
X	Research and feasibility studies to identify all potentially achievable cost-effective energy efficiency savings.
	Testing, replacement or repair of pumps and motors.
	Purchase, installation of automation equipment to facilitate future on-farm efforts to use energy in off-peak hours.
	Rebates, incentives for on-farm utilization of micro-sprinklers, drip tape, or other low volume irrigation systems.
X	Energy audits.
	Research and feasibility studies of water use reductions that may have upstream energy conservation impacts.
	Purchase, installation of variable frequency drives or soft starts on motors.
X	Research and feasibility studies to identify opportunities for distributed generation and renewable generation.
	Development, construction of new distributed generation and renewable generation, or activities to increase output of existing units.
	Costs for the development and administration of P3 programs.
	Expenditures to develop a long-term load forecasting software platform for electricity planning purposes (project authorized by Resolution 07-08-09)
	Costs, charges or non-usage fees incurred due to zero electricity demand at points of interconnection serving agricultural purposes.

David Weisenberger
Chairman

David Nixon
Treasurer

Project Plan and Schedule

The purpose of the Energy Master Plan (EMP) study is to address Zone 7's 2020-2024 Strategic Plan Initiative #16, Develop and Implement and Energy Strategy. The EMP study will result in a living document that guides future energy management efforts at Zone 7. Additionally, the study will facilitate the adoption of an energy policy the Board, and will identify a preliminary list of priority energy projects that Zone 7 should consider implementing based on their cost effectiveness, energy efficiency, and contribution to operational reliability, resilience, and greenhouse gas emission goals.

The Energy Master Plan study includes four main technical tasks:

- 1) Baseline Energy Assessment
- 2) Energy Policy Development
- 3) Project Screening and Prioritization
- 4) Energy Master Plan report

The study was initiated in Fall 2023 and is scheduled to be completed at the end of 2024. Zone 7 is being supported by Carollo Engineers. Zone 7 has completed the baseline energy assessment, is currently working toward adoption of an energy policy in summer 2024, followed by identification of priority projects in fall, and completion of the final Energy Master Plan report by the end of 2024.



Alameda County FC & WC District
 Attn: Zone 7 Water Agency
 Livermore, CA 94551
 United States

Invoice : FB50460
 Invoice Date : 5/6/2024
 Project : 202489
 Project Name : ACFCWCD Zone 7 Energy Master Plan

For Professional Services Rendered For 4/1/2024 Through 4/30/2024

Zone 7 Water Agency Energy Master Plan
 Contract No. A24-34-CAR
 Dated: 08/29/2023
 Total Contract Amount: \$349,990.00
 Contingency Amount: \$32,272.00 (Unauthorized)
 Total Awarded Amount: \$317,718.00

	Fee	Available	Billings		
			To Date	Previous	Current
000000 - Study					
000100 - Baseline Energy Assessment	85,838.00	15.00	85,823.00	85,823.00	0.00
000200 - Energy Policy Development	53,329.00	1.50	53,327.50	53,327.50	0.00
000300 - Screening Framework Development	36,312.00	13,145.00	23,444.00	23,167.00	277.00
000400 - Initial Project Screening and Prioritization	65,274.00	9,826.25	58,036.75	55,447.75	2,589.00
000500 - Monitoring, Periodic Evaluation, and Reporting	16,282.00	16,282.00	0.00	0.00	0.00
000600 - Project Management	10,997.00	4.55	10,992.45	10,992.45	0.00
000700 - Development of Phase 2 Approach	4,686.00	4,686.00	0.00	0.00	0.00
000800 - Dougherty Reservoir Power Study	45,000.00	23,137.16	24,460.09	21,862.84	2,597.25
000900 - 10% Contingency (not authorized)	0.00	0.00	0.00	0.00	0.00
			Current Billings		5,463.25
			Amount Due This Bill		5,463.25

Total Fee : 317,718.00
To Date Billings : 256,083.79
Total Remaining : 61,634.21

OFFICERS

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Herum\Crabtree\Suntag

3514 West Lehman Road • Tracy, California 95304
Phone (209) 835-4670 • Fax (209) 835-2009

May 15, 2024

Mr. Bruce McLaughlin
Power and Water Resources Pooling Authority
c/o Banta-Carbona Irrigation District
3514 W. Lehman Road
Tracy, Ca 95304

Re: Request for Release of P-3 Funds and Cap & Trade Funds to Banta-Carbona Irrigation District

Dear Mr. McLaughlin,

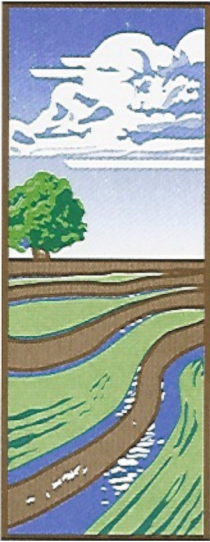
The purpose of this letter is to request a disbursement of \$194,063.02 to the Banta-Carbona Irrigation District (BCID) from its P-3 funds for collection years of 2020, 2021, 2022, and 2023. BCID has recently purchased five new pumps and motors equipped with three VFD's allowing for SCADA controlled pumping. This project required the purchase of five new higher efficiency pumps with three pumps driven by VFD controllers. This equipment is for the replacement of our existing Pumping Plant #3. This P3 request is for partial re-imbursement for the variable frequency drives (VFD) that will control three of the new pumps, pumps, and new motors.

In addition, the BCID requests its Cap and Trade Funds be disbursed to BCID totaling \$635,001.49.

If you have any questions or comments please don't hesitate to contact me.

Sincerely,

David Weisenberger
General Manager



May 21, 2024

Mr. David Nixon, Treasurer
Power and Water Resources Pooling Authority
P.O. Box 160
Arvin, CA 93203

RECLAMATION
DISTRICT

108

975 Wilson Bend Road
P.O. Box 50
Grimes, CA 95950-0050
(530)437-2221
Fax: (530)437-2248
www.rd108.org

Dear David,

Reclamation District 108 is requesting the use of P3 funds for reimbursement of performance improvement work at Sycamore Slough Solar Plant (Peak Performance Energy Invoice #24.5818). **\$13,174.19 requested**

Please utilize RD108's funds from the oldest layers first.

Thank you,

Jordon Navarrot

Jordon Navarrot
Superintendent
Reclamation District 108

Enclosures

cc: Bruce McLaughlin, PWRPA General Manager
Cori Bradley, RBI

Board of Trustees
Roger Cornwell, President
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and Secretary
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Deputy Managers
Meegan Nagy
William Vanderwaal

Integrated Resource Planning - Integrated Resource Plan Annual Report

Customer Name:	Power & Water Resources Pooling Authority
Customer Point of Contact:	Cori Bradley
Title:	Operations Manager
Phone:	916.405.8923
E-Mail Address:	cori@robertson-bryan.com
Report Year:	2024, reporting on 2023 data

Insert appropriate year

1. Instructions

Congress requires the Western Area Power Administration and its customers to provide an annual report of supply-side, demand-side, and renewable resource activities undertaken as a result of the National Energy Policy Act of 1992 (EPAct). This online Integrated Resource Plan (IRP) Reporting Program provides Western's customers the ability to electronically report the information required in 10 CFR Part 905, Western's Energy Planning and Management Program. This program was developed for the convenience of Western's customers. Its use is not mandatory. Western's customers can report the information contained in this program in any format they choose, as long as the information is submitted to Western for review and approval. For more information, contact your Regional Energy Services Representative. Western's IRP Regulations (10 CFR Part 905) require customers to submit IRPs every 5 years and annual IRP progress reports "in such form and containing such information as to describe the customer's accomplishments achieved pursuant to the action plan, including projected goals, implementation schedules, resource expenditures, energy and capacity benefits and renewable energy developments achieved as compared to those anticipated." This electronic reporting program will take you through each required reporting step. Please use the navigation bar on the left side of this page to continue. NOTE: Estimates of energy, capacity, and resource expenditures for all resource activities are acceptable if actual measures are unavailable or too costly to obtain. This online IRP Reporting Program satisfies the customer reporting requirement. However, you will need to inform Western of how and/or why goals in your action plan changed, and how and/or why expected accomplishments were exceeded or not met (if either of these occurred). This program allows you to do this in one of two ways: 1. Use the "Notes to Western" text boxes following each section, or 2. Submit a cover letter with this IRP Reporting Program. Either method is acceptable by Western, as long as all necessary information is included. (See the appropriate checklist by clicking on "10. Checklists" in the left-hand navigation bar on this page, or view all of the checklists on Western's Energy Services Web site at <http://www.wapa.gov/es/irp/IRPchecklist.htm>. Customers must submit IRP progress reports each year within 30 days of the anniversary date of approval of the currently applicable IRP, unless other arrangements have been made with your regional representative.

Notes to Western:

2. Western Allocation

Your Western allocation is that portion of your energy (kWh) and/or capacity (kW) that comes from one or more Regional offices of Western Area Power Administration. NOTE: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for your Western allocations (including those contracts that came on-line during the current reporting period), by the Region from which you purchased the power. If you are a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all Western allocations are included here. Contact your Regional customer representative for more information. This total should not include purchases made for you by Western outside of your Firm Power allocation contract (i.e., you have a supplemental contract with Western). All supplemental purchases made for you by Western should be reported under Category 4 or 5 if discontinued.

Region	Current kW	Current kWh
Sierra Nevada Region	-	162,601,000

Total kWh (On+Off) from annual Recon, Annual tab, BR and WWD BOR tables

	(\$)
Actual Expenditures:	\$ 4,151,716
Target Expenditures:	\$ 5,251,873
Expenditure Difference:	\$ (1,100,158)

Total \$ (On+Off) from annual Reconciliation, Annual tab, BR table
WAPA total from budget, Average
^ Actual - Target

Notes to Western:

3. Discontinued Western Allocation

Please list kW and kWh for Western Allocations that went off-line during this reporting period, i.e., you are no longer purchasing that power from Western. If you have more than one contract with a Region (such as two contracts with Rocky Mountain Region), please add and put totals in kW and kWh cells. Include any reduction in allocation resulting from a firm power re-allocation.

Region	Off-line kW	Off-line kWh
Sierra Nevada Region	-	-

Notes to Western:

4. Supply-Side Activities

Do not include any Western allocations here. Supply-side activities include conventional generation (coal - list conventional - IGCC - fluidized bed - other, natural gas, oil, combined cycle gas/oil, diesel, nuclear, fuel cell, other) and purchased power. For renewable resources, see the Renewable Activities report category in this program. Do include supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. Note: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for supply-side activities (including those resources that came on-line during the current reporting period), by type. If you are a member of a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all supply-side resources are included here. For those activities with two or more sources such as purchased power contracts, please add and include totals in the kW and kWh fields. Contact your regional representative for more information.

Resource	kW	kWh
1. Hydro (non-Western)	-	-
2. Natural Gas	-	-
3. Oil	-	-
4. Combined Cycle Gas/Oil	-	28,540,340
5. Coal	-	-
6. Nuclear	-	-
7. Fuel Cell	-	-
8. Purchased Power Contract (including supplemental purchases made by Western)	-	-
9. Diesel	-	-
Total:	-	28,540,340

Total kWh (On+Off) from annual Reconciliation, Annual tab, SpecialProjects(Conventional) table

Total kWh (On+Off) from annual Recon, Allocation from FixedAllocation table + Purchase/Sell from Variable/DA/PDA tables

Actual Expenditures:	\$ 2,791,441
Target Expenditures:	\$ 3,617,514
Expenditure Difference:	\$ (826,073)

Total \$ (On+Off) from annual Recon Allocation/PoolingCost/PoolingCredit from FixedAllocation/Special(Conventional) table + Cost/Credit from Variable/DA/PDA tables
SpecialProjects->Lodi Energy/Fixed + Supplemental from budget, Average
^ Actual - Target

Notes to Western:

5. Discontinued Supply-side Activities

Please list kW and kWh for supply-side activities that went off-line during this reporting period, i.e., you are no longer generating or purchasing. Do include discontinued supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. For those activities with two or more sources such as two purchase power contracts, please add and report totals.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Hydro (non-Western)		
2. Natural Gas		
3. Oil		
4. Combined cycle gas/oil		
5. Coal		
6. Nuclear		
7. Fuel Cell		
8. Purchased Power Contract (including discontinued supplemental purchases made by Western)		
9. Diesel		
Total:	-	-

6. Demand-Side Activities

Demand-side activities include measures the utility undertakes to change customer use of electricity, such as strategic conservation, peak clipping, load shifting, etc. Note: Estimates of energy and capacity savings, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for demand-side activities (including those activities that came on-line during the reporting period), by type (residential appliance rebate program, commercial lighting measures, etc.). Include kW and kWh savings for all utilities covered in this report when multiple customers are involved (MBAs, etc.). Contact your regional representative for more information.

Current Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs	835	
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures		
18. Com./Ind./Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebate programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other: Electric Vehicles		
Other: Water Use Efficiency		
Total:	835	-

Participation in Capacity Bidding Program

Actual Expenditures:	\$	-
Target Expenditures:	\$	-
Expenditure Difference:	\$	-

Notes to Western:

PWRPA: Two districts – SCVWD and SCWA – participated in the 2023 DSGS program, with a combined curtailable load of 2.8 MWs. California's Demand Side Grid Support (DSGS) Program, provided incentives to reduce customer net energy load during extreme events with upfront capacity commitments and per-unit reductions in net load.

7. Discontinued Demand-Side Activities

Please list your kW and kWh for demand-side activities that went off-line during this reporting period or are no longer saving energy. Account for each demand-side activity only once to avoid double counting. Identify residential, commercial, industrial, agricultural, and irrigation.

Discontinued Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures		
18. Com./Ind./Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebate programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other		
Total:	-	-

Notes to Western:

--

8. Current Renewable Resource Activities

Renewable resource activities include generation sources owned by your utility or purchased via contract that are renewable in nature such as solar photovoltaic systems, small-scale hydro, geothermal power, wind power, biomass generation, green tags, white tags, etc. Note: Estimates of energy and capacity, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for renewable resource activities (including those resources that came on-line during this reporting period), by type (such as solar photovoltaic, wind energy, etc.) and include the totals for all utilities which are included in this report. Contact your regional representative for more information.

Current Activities	Current kW	Current kWh
1. Bio-Gas	-	-
2. Bio-mass	-	-
3. Fuel Cells	-	-
4. Geothermal	-	-
5. Hydro - small scale	-	-
6. Solar	-	111,650,836
7. Wind	-	-
8. Green Tags Generated/purchased	-	-
9. White Tags Generated/purchased	-	-
Other	-	-
Total:	-	111,650,836

WSH
Astoria+Whitney+Slate

Actual Expenditures:	\$ 5,020,729
Target Expenditures:	\$ 5,806,394
Expenditure Difference:	\$ (785,665)

Total kWh (On+Off) from annual Recon: Allocation/PoolingCont/PoolingRec from SpecialProjects(Renewable) table

Total kWh (On+Off) from annual Recon: Allocation/PoolingCont/PoolingRec from SpecificApplication table

Total \$ (On+Off) from annual Recon Allocation/PoolingCost/PoolingCredit from FixedAllocation/Special(Conventional) table + Cost/Credit from Variable/DA/PDA tables
SpecialProjects->Sonoma+WarmSprings from budget, Average
^ Actual - Target

Notes to Western:

Several Districts are exploring District cited renewable projects

9. Discontinued Renewable Resource Activities

Please list kW and kWh for renewable resource activities that went off-line during this reporting period (i.e., resources that are no longer generating or purchases no longer being made). For those activities with two or more sources (such as two wind energy projects), please add and include totals in the required fields.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Bio-Gas		
2. Bio-mass		
3. Fuel Cells		
4. Geothermal		
5. Hydro - small scale		
6. Solar		
7. Wind		
8. Green Tags Generated/purchased		
9. White Tags Generated/purchased		
Other		
Total:	-	-

Notes to Western:

10. Report Checklist

Required activities for compliance with 10 CFR Part 905. Before submitting your report, you must acknowledge that you have complied with the activities listed below by checking each of the checkboxes.

1. Projected goals and implementation schedules.	
2. Energy and capacity benefits and renewable energy developments achieved as compared to those anticipated.	

Integrated Resource Planning - Integrated Resource Plan Annual Report

Customer Name:	Power & Water Resources Pooling Authority
Customer Point of Contact:	Cori Bradley
Title:	Operations Manager
Phone:	916.405.8923
E-Mail Address:	cori@robertson-bryan.com
Report Year:	2023, reporting on 2022 data

Insert appropriate year

1. Instructions

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Notes to Western:

2. Western Allocation

Your Western allocation is that portion of your energy (kWh) and/or capacity (kW) that comes from one or more Regional offices of Western Area Power Administration. NOTE: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for your Western allocations (including those contracts that came on-line during the current reporting period), by the Region from which you purchased the power. If you are a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all Western allocations are included here. Contact your Regional customer representative for more information. This total should not include purchases made for you by Western outside of your Firm Power allocation contract (i.e., you have a supplemental contract with Western). All supplemental purchases made for you by Western should be reported under Category 4 or 5 if discontinued.

Region	Current kW	Current kWh
Sierra Nevada Region	-	61,087,000

Total kWh (On+Off) from annual Recon, Annual tab, BR and WWD BOR tables

	(\$)
Actual Expenditures:	\$ 5,550,133
Target Expenditures:	\$ 6,212,026
Expenditure Difference:	\$ (661,893)

Total \$ (On+Off) from annual Reconciliation, Annual tab, BR table
WAPA total from budget, Average
^ Actual - Target

Notes to Western:

3. Discontinued Western Allocation

Please list kW and kWh for Western Allocations that went off-line during this reporting period, i.e., you are no longer purchasing that power from Western. If you have more than one contract with a Region (such as two contracts with Rocky Mountain Region), please add and put totals in kW and kWh cells. Include any reduction in allocation resulting from a firm power re-allocation.

Region	Off-line kW	Off-line kWh
Sierra Nevada Region	-	-

Notes to Western:

4. Supply-Side Activities

Do not include any Western allocations here. Supply-side activities include conventional generation (coal - list conventional - IGCC - fluidized bed - other, natural gas, oil, combined cycle gas/oil, diesel, nuclear, fuel cell, other) and purchased power. For renewable resources, see the Renewable Activities report category in this program. Do include supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. Note: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for supply-side activities (including those resources that came on-line during the current reporting period), by type. If you are a member of a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all supply-side resources are included here. For those activities with two or more sources such as purchased power contracts, please add and include totals in the kW and kWh fields. Contact your regional representative for more information.

Resource	kW	kWh
1. Hydro (non-Western)	-	-
2. Natural Gas	-	-
3. Oil	-	-
4. Combined Cycle Gas/Oil	-	22,418,600
5. Coal	-	-
6. Nuclear	-	-
7. Fuel Cell	-	-
8. Purchased Power Contract (Including supplemental purchases made by Western)	-	-
9. Diesel	-	-
Total:	-	22,418,600

Total kWh (On+Off) from annual Reconciliation, Annual tab, SpecialProjects(Conventional) table

Total kWh (On+Off) from annual Recon, Allocation from FixedAllocation table + Purchase/Sell from Variable/DA/PDA tables

Actual Expenditures:	\$ 3,501,664
Target Expenditures:	\$ 2,216,102
Expenditure Difference:	\$ 1,285,562

Total \$ (On+Off) from annual Recon Allocation/PoolingCost/PoolingCredit from FixedAllocation/Special(Conventional) table + Cost/Credit from Variable/DA/PDA tal SpecialProjects->Lodi Energy/Fixed + Supplemental from budget, Average
^ Actual - Target

Notes to Western:

Increase in Expense due to dramatic increases in gas prices.

5. Discontinued Supply-side Activities

Please list kW and kWh for supply-side activities that went off-line during this reporting period, i.e., you are no longer generating or purchasing. Do include discontinued supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. For those activities with two or more sources such as two purchase power contracts, please add and report totals.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Hydro (non-Western)		
2. Natural Gas		
3. Oil		
4. Combined cycle gas/oil		
5. Coal		
6. Nuclear		
7. Fuel Cell		
8. Purchased Power Contract (Including discontinued supplemental purchases made by Western)		
9. Diesel		
Total:	-	-

6. Demand-Side Activities

Demand-side activities include measures the utility undertakes to change customer use of electricity, such as strategic conservation, peak clipping, load shifting, etc. Note: Estimates of energy and capacity savings, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for demand-side activities (including those activities that came on-line during the reporting period), by type (residential appliance rebate program, commercial lighting measures, etc.). Include kW and kWh savings for all utilities covered in this report when multiple customers are involved (MBAs, etc.). Contact your regional representative for more information.

Current Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures	585	341,859
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures		
18. Com./Ind./Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebate programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		20,592
27. Res. Load Management programs		296,000
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other: Electric Vehicles		
Other: Water Use Efficiency		
Total:	585	658,451

WWD

Actual Expenditures:	\$	181,665
Target Expenditures:	\$	127,000
Expenditure Difference:	\$	54,665

Notes to Western:

PWRPA: Four districts – AEWS, SCVWD, WWD, and Z7 – participated in the 2022 DSGS program, curtailing a total of 296 MWhs. California's Demand Side Grid Support (DSGS) Program, provided incentives to reduce customer net energy load during extreme events with upfront capacity commitments and per-unit reductions in net load.
RD108 - Replaced 12 750W HPS light fixtures at Wilkins Slough shop with 12 200W LED light fixtures. Estimated 20,592 kwh savings.
WWD: pump upgrades

7. Discontinued Demand-Side Activities

Please list your kW and kWh for demand-side activities that went off-line during this reporting period or are no longer saving energy. Account for each demand-side activity only once to avoid double counting. Identify residential, commercial, industrial, agricultural, and irrigation.

Discontinued Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
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16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures		
18. Com./Ind./Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebate programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other		
Total:	-	-

Notes to Western:

8. Current Renewable Resource Activities

Renewable resource activities include generation sources owned by your utility or purchased via contract that are renewable in nature such as solar photovoltaic systems, small-scale hydro, geothermal power, wind power, biomass generation, green tags, white tags, etc. Note: Estimates of energy and capacity, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for renewable resource activities (including those resources that came on-line during this reporting period), by type (such as solar photovoltaic, wind energy, etc.) and include the totals for all utilities which are included in this report. Contact your regional representative for more information.

Current Activities	Current kW	Current kWh
1. Bio-Gas	-	-
2. Bio-mass	-	-
3. Fuel Cells	-	-
4. Geothermal	-	-
5. Hydro - small scale	-	-
6. Solar	-	122,965,695
7. Wind	-	-
8. Green Tags Generated/purchased	-	-
9. White Tags Generated/purchased	-	-
Other	-	-
Total:	-	122,965,695

WSH
Astoria+Whitney+Slate

Actual Expenditures:	\$ 5,371,953
Target Expenditures:	\$ 5,836,376
Expenditure Difference:	\$ (464,423)

Notes to Western:

Total kWh (On+Off) from annual Recon: Allocation/PoolingCont/PoolingRec from SpecialProjects(Renewable) table

Total kWh (On+Off) from annual Recon: Allocation/PoolingCont/PoolingRec from SpecificApplication table

Total \$ (On+Off) from annual Recon Allocation/PoolingCost/PoolingCredit from FixedAllocation/Special(Conventional) table + Cost/Credit from Variable/DA/PDA tal
SpecialProjects->Sonoma+WarmSprings from budget, Average
^ Actual - Target

9. Discontinued Renewable Resource Activities

Please list kW and kWh for renewable resource activities that went off-line during this reporting period (i.e., resources that are no longer generating or purchases no longer being made). For those activities with two or more sources (such as two wind energy projects), please add and include totals in the required fields.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Bio-Gas		
2. Bio-mass		
3. Fuel Cells		
4. Geothermal		
5. Hydro - small scale		
6. Solar		
7. Wind		
8. Green Tags Generated/purchased		
9. White Tags Generated/purchased		
Other		
Total:	-	-

Notes to Western:

10. Report Checklist

Required activities for compliance with 10 CFR Part 905. Before submitting your report, you must acknowledge that you have complied with the activities listed below by checking each of the checkboxes.

1. Projected goals and implementation schedules.	<input type="checkbox"/>
2. Energy and capacity benefits and renewable energy developments achieved as compared to those anticipated.	<input type="checkbox"/>

Integrated Resource Planning - Integrated Resource Plan Annual Report

Customer Name:	Power & Water Resources Pooling Authority
Customer Point of Contact:	Cori Bradley
Title:	Operations Manager
Phone:	916.405.8923
E-Mail Address:	cori@pwrpa.com
Report Year:	2022, reporting on 2021 data

1. Instructions

Congress requires the Western Area Power Administration and its customers to provide an annual report of supply-side, demand-side, and renewable resource activities undertaken as a result of the National Energy Policy Act of 1992 (EPAct). This online Integrated Resource Plan (IRP) Reporting Program provides Western's customers the ability to electronically report the information required in 10 CFR Part 905, Western's Energy Planning and Management Program. This program was developed for the convenience of Western's customers. Its use is not mandatory. Western's customers can report the information contained in this program in any format they choose, as long as the information is submitted to Western for review and approval. For more information, contact your Regional Energy Services Representative. Western's IRP Regulations (10 CFR Part 905) require customers to submit IRPs every 5 years and annual IRP progress reports "in such form and containing such information as to describe the customer's accomplishments achieved pursuant to the action plan, including projected goals, implementation schedules, resource expenditures, energy and capacity benefits and renewable energy developments achieved as compared to those anticipated." This electronic reporting program will take you through each required reporting step. Please use the navigation bar on the left side of this page to continue. NOTE: Estimates of energy, capacity, and resource expenditures for all resource activities are acceptable if actual measures are unavailable or too costly to obtain. This online IRP Reporting Program satisfies the customer reporting requirement. However, you will need to inform Western of how and/or why goals in your action plan changed, and how and/or why expected accomplishments were exceeded or not met (if either of these occurred). This program allows you to do this in one of two ways: 1. Use the "Notes to Western" text boxes following each section, or 2. Submit a cover letter with this IRP Reporting Program. Either method is acceptable by Western, as long as all necessary information is included. (See the appropriate checklist by clicking on "10. Checklists" in the left-hand navigation bar on this page, or view all of the checklists on Western's Energy Services Web site at <http://www.wapa.gov/es/irp/IRPchecklist.htm>. Customers must submit IRP progress reports each year within 30 days of the anniversary date of approval of the currently applicable IRP, unless other arrangements have been made with your regional representative.

Notes to Western:

2. Western Allocation

Your Western allocation is that portion of your energy (kWh) and/or capacity (kW) that comes from one or more Regional offices of Western Area Power Administration. NOTE: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for your Western allocations (including those contracts that came on-line during the current reporting period), by the Region from which you purchased the power. If you are a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all Western allocations are included here. Contact your Regional customer representative for more information. This total should not include purchases made for you by Western outside of your Firm Power allocation contract (i.e., you have a supplemental contract with Western). All supplemental purchases made for you by Western should be reported under Category 4 or 5 if discontinued.

Region	Current kW	Current kWh
Sierra Nevada Region	-	128,317,876

	(\$)
Actual Expenditures:	\$ 6,429,973
Target Expenditures:	\$ 6,212,026
Expenditure Difference:	\$ 217,947

Notes to Western:

3. Discontinued Western Allocation

Please list kW and kWh for Western Allocations that went off-line during this reporting period, i.e., you are no longer purchasing that power from Western. If you have more than one contract with a Region (such as two contracts with Rocky Mountain Region), please add and put totals in kW and kWh cells. Include any reduction in allocation resulting from a firm power re-allocation.

Region	Off-line kW	Off-line kWh
Sierra Nevada Region	-	-

Notes to Western:

4. Supply-Side Activities

Do not include any Western allocations here. Supply-side activities include conventional generation (coal - list conventional - IGCC - fluidized bed - other, natural gas, oil, combined cycle gas/oil, diesel, nuclear, fuel cell, other) and purchased power. For renewable resources, see the Renewable Activities report category in this program. Do include supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. Note: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for supply-side activities (including those resources that came on-line during the current reporting period), by type. If you are a member of a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all supply-side resources are included here. For those activities with two or more sources such as purchased power contracts, please add and include totals in the kW and kWh fields. Contact your regional representative for more information.

Resource	kW	kWh
1. Hydro (non-Western)	-	-
2. Natural Gas	-	-
3. Oil	-	-
4. Combined Cycle Gas/Oil	-	46,031,190
5. Coal	-	-
6. Nuclear	-	-
7. Fuel Cell	-	-
8. Purchased Power Contract (Including supplemental purchases made by Western)	-	62,842,000
9. Diesel	-	-
Total:	-	108,873,190

LEC

Actual Expenditures:	\$ 4,603,291
Target Expenditures:	\$ 2,216,102
Expenditure Difference:	\$ 2,387,189

Notes to Western:

5. Discontinued Supply-side Activities

Please list kW and kWh for supply-side activities that went off-line during this reporting period, i.e., you are no longer generating or purchasing. Do include discontinued supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. For those activities with two or more sources such as two purchase power contracts, please add and report totals.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Hydro (non-Western)		
2. Natural Gas		
3. Oil		
4. Combined cycle gas/oil		
5. Coal		
6. Nuclear		

7. Fuel Cell		
8. Purchased Power Contract (Including discontinued supplemental purchases made by Western)		
9. Diesel		
Total:	-	-

6. Demand-Side Activities

Demand-side activities include measures the utility undertakes to change customer use of electricity, such as strategic conservation, peak clipping, load shifting, etc. Note: Estimates of energy and capacity savings, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for demand-side activities (including those activities that came on-line during the reporting period), by type (residential appliance rebate program, commercial lighting measures, etc.). Include kW and kWh savings for all utilities covered in this report when multiple customers are involved (MBAs, etc.). Contact your regional representative for more information.

Current Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures	552	322,262
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures	35	44,000
18. Com./Ind/Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebates programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other: Electric Vehicles		
Other: Water Use Efficiency		
Total:	587	366,262

Actual Expenditures:	
Target Expenditures:	
Expenditure Difference:	\$ -

Notes to Western:

PWRPA: Participated in California Emergency Demand Response Program (CSEP), no calls to actually curtail.

SCVWD:

- Replaced existing lighting fixtures and lamps with energy efficient fixtures and LED lamps at Almaden campus, water treatment, and pumping plants.
- EV charging station at HQ carport not reported (increased load, decreased GHG emissions)

7. Discontinued Demand-Side Activities

Please list your kW and kWh for demand-side activities that went off-line during this reporting period or are no longer saving energy. Account for each demand-side activity only once to avoid double counting. Identify residential, commercial, industrial, agricultural, and irrigation.

Discontinued Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures		
18. Com./Ind/Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebate programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other		

Total:		-	-
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Notes to Western:

8. Current Renewable Resource Activities

Renewable resource activities include generation sources owned by your utility or purchased via contract that are renewable in nature such as solar photovoltaic systems, small-scale hydro, geothermal power, wind power, biomass generation, green tags, white tags, etc. Note: Estimates of energy and capacity, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for renewable resource activities (including those resources that came on-line during this reporting period), by type (such as solar photovoltaic, wind energy, etc.) and include the totals for all utilities which are included in this report. Contact your regional representative for more information.

Current Activities	Current kW	Current kWh
1. Bio-Gas	-	-
2. Bio-mass	-	-
3. Fuel Cells	-	-
4. Geothermal	-	-
5. Hydro - small scale	-	-
6. Solar	-	61,538,196
7. Wind	-	-
8. Green Tags Generated/purchased	-	-
9. White Tags Generated/purchased	-	-
Other	-	-
Total:	-	61,538,196

WSH
Astoria+Whitney+HQ carport+PWTP/S

Actual Expenditures:	\$ 3,698,128
Target Expenditures:	\$ 3,784,774
Expenditure Difference:	\$ (86,646)

Notes to Western:

SCVWD:
Rehab of Almaden Campus (HQ) carport solar with new panels and inverters with generation beginning in 2021 and produced a total of 142MWh. Water treatment plant solar continued operation and produced 545.4MWh.

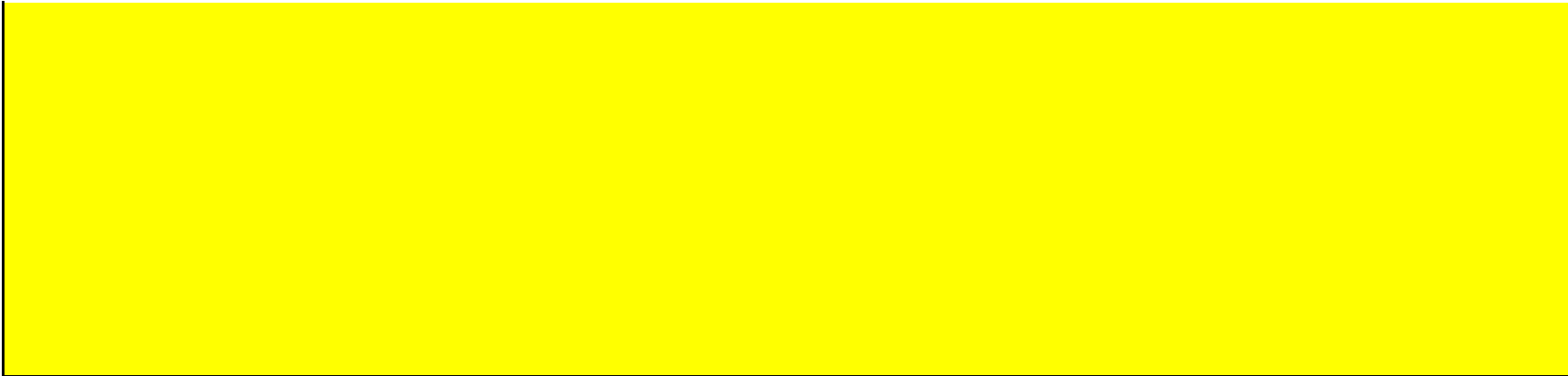
PWRPA: project development and construction for the Slate Solar + Battery project in 2021, operational in 2022.

9. Discontinued Renewable Resource Activities

Please list kW and kWh for renewable resource activities that went off-line during this reporting period (i.e., resources that are no longer generating or purchases no longer being made). For those activities with two or more sources (such as two wind energy projects), please add and include totals in the required fields.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Bio-Gas		
2. Bio-mass		
3. Fuel Cells		
4. Geothermal		
5. Hydro - small scale		
6. Solar		
7. Wind		
8. Green Tags Generated/purchased		
9. White Tags Generated/purchased		
Other		
Total:	-	-

Notes to Western:



10. Report Checklist

Required activities for compliance with 10 CFR Part 905. Before submitting your report, you must acknowledge that you have complied with the activities listed below by checking each of the checkboxes.

1. Projected goals and implementation schedules.	
2. Energy and capacity benefits and renewable energy developments achieved as compared to those anticipated.	

Integrated Resource Planning - Integrated Resource Plan Annual Report

Customer Name:	Power & Water Resources Pooling Authority
Customer Point of Contact:	Cori Bradley
Title:	Operations Manager
Phone:	916.405.8923
E-Mail Address:	cori@pwrpa.com
Report Year:	2021

1. Instructions

Congress requires the Western Area Power Administration and its customers to provide an annual report of supply-side, demand-side, and renewable resource activities undertaken as a result of the National Energy Policy Act of 1992 (EPAct). This online Integrated Resource Plan (IRP) Reporting Program provides Western's customers the ability to electronically report the information required in 10 CFR Part 905, Western's Energy Planning and Management Program. This program was developed for the convenience of Western's customers. Its use is not mandatory. Western's customers can report the information contained in this program in any format they choose, as long as the information is submitted to Western for review and approval. For more information, contact your Regional Energy Services Representative. Western's IRP Regulations (10 CFR Part 905) require customers to submit IRPs every 5 years and annual IRP progress reports "in such form and containing such information as to describe the customer's accomplishments achieved pursuant to the action plan, including projected goals, implementation schedules, resource expenditures, energy and capacity benefits and renewable energy developments achieved as compared to those anticipated." This electronic reporting program will take you through each required reporting step. Please use the navigation bar on the left side of this page to continue. NOTE: Estimates of energy, capacity, and resource expenditures for all resource activities are acceptable if actual measures are unavailable or too costly to obtain. This online IRP Reporting Program satisfies the customer reporting requirement. However, you will need to inform Western of how and/or why goals in your action plan changed, and how and/or why expected accomplishments were exceeded or not met (if either of these occurred). This program allows you to do this in one of two ways: 1. Use the "Notes to Western" text boxes following each section, or 2. Submit a cover letter with this IRP Reporting Program. Either method is acceptable by Western, as long as all necessary information is included. (See the appropriate checklist by clicking on "10. Checklists" in the left-hand navigation bar on this page, or view all of the checklists on Western's Energy Services Web site at <http://www.wapa.gov/es/irp/IRPchecklist.htm>. Customers must submit IRP progress reports each year within 30 days of the anniversary date of approval of the currently applicable IRP, unless other arrangements have been made with your regional representative.

Notes to Western:

2. Western Allocation

Your Western allocation is that portion of your energy (kWh) and/or capacity (kW) that comes from one or more Regional offices of Western Area Power Administration. NOTE: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for your Western allocations (including those contracts that came on-line during the current reporting period), by the Region from which you purchased the power. If you are a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all Western allocations are included here. Contact your Regional customer representative for more information. This total should not include purchases made for you by Western outside of your Firm Power allocation contract (i.e., you have a supplemental contract with Western). All supplemental purchases made for you by Western should be reported under Category 4 or 5 if discontinued.

Region	Current kW	Current kWh
Sierra Nevada Region	-	202,946,000

	(\$)
Actual Expenditures:	\$ 6,189,752
Target Expenditures:	\$ 6,878,826
Expenditure Difference:	\$ (689,074)

Notes to Western:

3. Discontinued Western Allocation

Please list kW and kWh for Western Allocations that went off-line during this reporting period, i.e., you are no longer purchasing that power from Western. If you have more than one contract with a Region (such as two contracts with Rocky Mountain Region), please add and put totals in kW and kWh cells. Include any reduction in allocation resulting from a firm power re-allocation.

Region	Off-line kW	Off-line kWh
Sierra Nevada Region	-	-

Notes to Western:

4. Supply-Side Activities

Do not include any Western allocations here. Supply-side activities include conventional generation (coal - list conventional - IGCC - fluidized bed - other, natural gas, oil, combined cycle gas/oil, diesel, nuclear, fuel cell, other) and purchased power. For renewable resources, see the Renewable Activities report category in this program. Do include supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. Note: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for supply-side activities (including those resources that came on-line during the current reporting period), by type. If you are a member of a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all supply-side resources are included here. For those activities with two or more sources such as purchased power contracts, please add and include totals in the kW and kWh fields. Contact your regional representative for more information.

Resource	kW	kWh
1. Hydro (non-Western)	-	-
2. Natural Gas	-	-
3. Oil	-	-
4. Combined Cycle Gas/Oil	-	18,003,973
5. Coal	-	-
6. Nuclear	-	-
7. Fuel Cell	-	-
8. Purchased Power Contract (Including supplemental purchases made by Western)	-	80,701,000
9. Diesel	-	-
Total:	-	98,704,973

LEC

Actual Expenditures:	\$ 3,669,282
Target Expenditures:	\$ 3,138,698
Expenditure Difference:	\$ 530,583

Notes to Western:

5. Discontinued Supply-side Activities

Please list kW and kWh for supply-side activities that went off-line during this reporting period, i.e., you are no longer generating or purchasing. Do include discontinued supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. For those activities with two or more sources such as two purchase power contracts, please add and report totals.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Hydro (non-Western)		
2. Natural Gas		
3. Oil		
4. Combined cycle gas/oil		
5. Coal		
6. Nuclear		

7. Fuel Cell		
8. Purchased Power Contract (Including discontinued supplemental purchases made by Western)		
9. Diesel		
Total:	-	-

6. Demand-Side Activities

Demand-side activities include measures the utility undertakes to change customer use of electricity, such as strategic conservation, peak clipping, load shifting, etc. Note: Estimates of energy and capacity savings, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for demand-side activities (including those activities that came on-line during the reporting period), by type (residential appliance rebate program, commercial lighting measures, etc.). Include kW and kWh savings for all utilities covered in this report when multiple customers are involved (MBAs, etc.). Contact your regional representative for more information.

Current Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures		
18. Com./Ind/Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebates programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other: Electric Vehicles		
Other: Water Use Efficiency		47,119
Total:	-	47,119

Actual Expenditures:	
Target Expenditures:	
Expenditure Difference:	\$ -

Notes to Western:

GCID: The District reconditioned two pumps and two pump motors at our main pump station, reconditioned three recapture pump motors, and reconditioned four recapture pumps during 2021. The savings from this work is unknown.

SCWA: Replaced aging transformers at Sonoma Booster Stations - same capacity, but circumstantially more efficient since they are new. Water Use Efficiency based on energy intensity of at 2,100 kWh/MG and 22,437,658 gals saved in 2020 on measures including residential, business, landscape, and other programs.

7. Discontinued Demand-Side Activities

Please list your kW and kWh for demand-side activities that went off-line during this reporting period or are no longer saving energy. Account for each demand-side activity only once to avoid double counting. Identify residential, commercial, industrial, agricultural, and irrigation.

Discontinued Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures		
18. Com./Ind/Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebate programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other		
Total:	-	-

Notes to Western:

8. Current Renewable Resource Activities

Renewable resource activities include generation sources owned by your utility or purchased via contract that are renewable in nature such as solar photovoltaic systems, small-scale hydro, geothermal power, wind power, biomass generation, green tags, white tags, etc. Note: Estimates of energy and capacity, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for renewable resource activities (including those resources that came on-line during this reporting period), by type (such as solar photovoltaic, wind energy, etc.) and include the totals for all utilities which are included in this report. Contact your regional representative for more information.

Current Activities	Current kW	Current kWh
1. Bio-Gas	-	-
2. Bio-mass	-	-
3. Fuel Cells	-	-
4. Geothermal	-	-
5. Hydro - small scale	-	-
6. Solar	-	46,377,701
7. Wind	-	-
8. Green Tags Generated/purchased	-	-
9. White Tags Generated/purchased	-	-
Other	-	-
Total:	-	46,377,701

WSH
Astoria+Whitney

Actual Expenditures:	\$ 2,465,623
Target Expenditures:	\$ 3,557,752
Expenditure Difference:	\$ (1,092,129)

Notes to Western:

9. Discontinued Renewable Resource Activities

Please list kW and kWh for renewable resource activities that went off-line during this reporting period (i.e., resources that are no longer generating or purchases no longer being made). For those activities with two or more sources (such as two wind energy projects), please add and include totals in the required fields.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Bio-Gas		
2. Bio-mass		
3. Fuel Cells		
4. Geothermal		
5. Hydro - small scale		
6. Solar		
7. Wind		
8. Green Tags Generated/purchased		
9. White Tags Generated/purchased		
Other		
Total:	-	-

Notes to Western:

10. Report Checklist

Required activities for compliance with 10 CFR Part 905. Before submitting your report, you must acknowledge that you have complied with the activities listed below by checking each of the checkboxes.

1. Projected goals and implementation schedules.	
--	--

2. Energy and capacity benefits and renewable energy developments achieved as compared to those anticipated.	
--	--

Integrated Resource Planning - Integrated Resource Plan Annual Report

Customer Name:	Power & Water Resources Pooling Authority
Customer Point of Contact:	Cori Bradley
Title:	Operations Manager
Phone:	916.405.8923
E-Mail Address:	cori@pwrpa.com
Report Year:	2020

1. Instructions

Congress requires the Western Area Power Administration and its customers to provide an annual report of supply-side, demand-side, and renewable resource activities undertaken as a result of the National Energy Policy Act of 1992 (EPAAct). This online Integrated Resource Plan (IRP) Reporting Program provides Western's customers the ability to electronically report the information required in 10 CFR Part 905, Western's Energy Planning and Management Program. This program was developed for the convenience of Western's customers. Its use is not mandatory. Western's customers can report the information contained in this program in any format they choose, as long as the information is submitted to Western for review and approval. For more information, contact your Regional Energy Services Representative. Western's IRP Regulations (10 CFR Part 905) require customers to submit IRPs every 5 years and annual IRP progress reports "in such form and containing such information as to describe the customer's accomplishments achieved pursuant to the action plan, including projected goals, implementation schedules, resource expenditures, energy and capacity benefits and renewable energy developments achieved as compared to those anticipated." This electronic reporting program will take you through each required reporting step. Please use the navigation bar on the left side of this page to continue. NOTE: Estimates of energy, capacity, and resource expenditures for all resource activities are acceptable if actual measures are unavailable or too costly to obtain. This online IRP Reporting Program satisfies the customer reporting requirement. However, you will need to inform Western of how and/or why goals in your action plan changed, and how and/or why expected accomplishments were exceeded or not met (if either of these occurred). This program allows you to do this in one of two ways: 1. Use the "Notes to Western" text boxes following each section, or 2. Submit a cover letter with this IRP Reporting Program. Either method is acceptable by Western, as long as all necessary information is included. (See the appropriate checklist by clicking on "10. Checklists" in the left-hand navigation bar on this page, or view all of the checklists on Western's Energy Services Web site at <http://www.wapa.gov/es/irp/IRPchecklist.htm>. Customers must submit IRP progress reports each year within 30 days of the anniversary date of approval of the currently applicable IRP, unless other arrangements have been made with your regional representative.

Notes to Western:

2. Western Allocation

Your Western allocation is that portion of your energy (kWh) and/or capacity (kW) that comes from one or more Regional offices of Western Area Power Administration. NOTE: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for your Western allocations (including those contracts that came on-line during the current reporting period), by the Region from which you purchased the power. If you are a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all Western allocations are included here. Contact your Regional customer representative for more information. This total should not include purchases made for you by Western outside of your Firm Power allocation contract (i.e., you have a supplemental contract with Western). All supplemental purchases made for you by Western should be reported under Category 4 or 5 if discontinued.

Region	Current kW	Current kWh
Sierra Nevada Region	-	218,772,000

	(\$)
Actual Expenditures:	\$ 6,351,434
Target Expenditures:	\$ 7,915,787
Expenditure Difference:	\$ (1,564,353)

Notes to Western:

3. Discontinued Western Allocation

Please list kW and kWh for Western Allocations that went off-line during this reporting period, i.e., you are no longer purchasing that power from Western. If you have more than one contract with a Region (such as two contracts with Rocky Mountain Region), please add and put totals in kW and kWh cells. Include any reduction in allocation resulting from a firm power re-allocation.

Region	Off-line kW	Off-line kWh
Sierra Nevada Region	-	-

Notes to Western:

4. Supply-Side Activities

Do not include any Western allocations here. Supply-side activities include conventional generation (coal - list conventional - IGCC - fluidized bed - other, natural gas, oil, combined cycle gas/oil, diesel, nuclear, fuel cell, other) and purchased power. For renewable resources, see the Renewable Activities report category in this program. Do include supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. Note: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for supply-side activities (including those resources that came on-line during the current reporting period), by type. If you are a member of a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all supply-side resources are included here. For those activities with two or more sources such as purchased power contracts, please add and include totals in the kW and kWh fields. Contact your regional representative for more information.

Resource	kW	kWh
1. Hydro (non-Western)	-	-
2. Natural Gas	-	-
3. Oil	-	-
4. Combined Cycle Gas/Oil	-	31,549,934
5. Coal	-	-
6. Nuclear	-	-
7. Fuel Cell	-	-
8. Purchased Power Contract (Including supplemental purchases made by Western)	-	23,538,000
9. Diesel	-	-
Total:	-	55,087,934

LEC

Actual Expenditures:	\$ 1,895,509
Target Expenditures:	\$ 2,178,656
Expenditure Difference:	\$ (283,147)

Notes to Western:

5. Discontinued Supply-side Activities

Please list kW and kWh for supply-side activities that went off-line during this reporting period, i.e., you are no longer generating or purchasing. Do include discontinued supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. For those activities with two or more sources such as two purchase power contracts, please add and report totals.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Hydro (non-Western)		
2. Natural Gas		
3. Oil		
4. Combined cycle gas/oil		
5. Coal		
6. Nuclear		
7. Fuel Cell		
8. Purchased Power Contract (Including discontinued supplemental purchases made by Western)		
9. Diesel		

Total:		-	-
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6. Demand-Side Activities

Demand-side activities include measures the utility undertakes to change customer use of electricity, such as strategic conservation, peak clipping, load shifting, etc. Note: Estimates of energy and capacity savings, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for demand-side activities (including those activities that came on-line during the reporting period), by type (residential appliance rebate program, commercial lighting measures, etc.). Include kW and kWh savings for all utilities covered in this report when multiple customers are involved (MBAs, etc.). Contact your regional representative for more information.

Current Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures		
18. Com./Ind/Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebates programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other: Electric Vehicles		
Other: Water Use Efficiency		
Total:	-	-

Actual Expenditures:	
Target Expenditures:	
Expenditure Difference:	\$ -

Notes to Western:

GCID - Reconditioned two pumps and one pump motor at main pump station. Reconditioned two smaller recapture pumps and motors. Savings unknown at this time.

7. Discontinued Demand-Side Activities

Please list your kW and kWh for demand-side activities that went off-line during this reporting period or are no longer saving energy. Account for each demand-side activity only once to avoid double counting. Identify residential, commercial, industrial, agricultural, and irrigation.

Discontinued Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
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20. Res. Air Conditioning measures		
21. Res. Appliance rebate programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other		
Total:	-	-

Notes to Western:

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8. Current Renewable Resource Activities

Renewable resource activities include generation sources owned by your utility or purchased via contract that are renewable in nature such as solar photovoltaic systems, small-scale hydro, geothermal power, wind power, biomass generation, green tags, white tags, etc. Note: Estimates of energy and capacity, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for renewable resource activities (including those resources that came on-line during this reporting period), by type (such as solar photovoltaic, wind energy, etc.) and include the totals for all utilities which are included in this report. Contact your regional representative for more information.

Current Activities	Current kW	Current kWh
1. Bio-Gas	-	-
2. Bio-mass	-	-
3. Fuel Cells	-	-
4. Geothermal	-	-
5. Hydro - small scale	-	-
6. Solar	-	57,345,741
7. Wind	-	-
8. Green Tags Generated/purchased	-	-
9. White Tags Generated/purchased	-	-
Other	-	-
Total:	-	57,345,741

WSH
Astoria+Whitney

Actual Expenditures:	\$ 3,480,148
Target Expenditures:	\$ 4,108,763
Expenditure Difference:	\$ (628,615)

Notes to Western:

9. Discontinued Renewable Resource Activities

Please list kW and kWh for renewable resource activities that went off-line during this reporting period (i.e., resources that are no longer generating or purchases no longer being made). For those activities with two or more sources (such as two wind energy projects), please add and include totals in the required fields.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Bio-Gas		
2. Bio-mass		
3. Fuel Cells		
4. Geothermal		
5. Hydro - small scale		
6. Solar		
7. Wind		
8. Green Tags Generated/purchased		
9. White Tags Generated/purchased		
Other		
Total:	-	-

Notes to Western:

10. Report Checklist

Required activities for compliance with 10 CFR Part 905. Before submitting your report, you must acknowledge that you have complied with the activities listed below by checking each of the checkboxes.

1. Projected goals and implementation schedules.	
2. Energy and capacity benefits and renewable energy developments achieved as compared to those anticipated.	

Integrated Resource Planning - Integrated Resource Plan Annual Report

Customer Name:	Power & Water Resources Pooling Authority
Customer Point of Contact:	Cori Bradley
Title:	Operations Manager
Phone:	916.405.8923
E-Mail Address:	cori@pwrpa.com
Report Year:	2019

1. Instructions

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Your Western allocation is that portion of your energy (kWh) and/or capacity (kW) that comes from one or more Regional offices of Western Area Power Administration. NOTE: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for your Western allocations (including those contracts that came on-line during the current reporting period), by the Region from which you purchased the power. If you are a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all Western allocations are included here. Contact your Regional customer representative for more information. This total should not include purchases made for you by Western outside of your Firm Power allocation contract (i.e., you have a supplemental contract with Western). All supplemental purchases made for you by Western should be reported under Category 4 or 5 if discontinued.

Region	Current kW	Current kWh
Sierra Nevada Region	-	169,039,000

	(\$)
Actual Expenditures:	\$ 5,875,786
Target Expenditures:	\$ 6,924,691
Expenditure Difference:	\$ (1,048,905)

Notes to Western:

3. Discontinued Western Allocation

Please list kW and kWh for Western Allocations that went off-line during this reporting period, i.e., you are no longer purchasing that power from Western. If you have more than one contract with a Region (such as two contracts with Rocky Mountain Region), please add and put totals in kW and kWh cells. Include any reduction in allocation resulting from a firm power re-allocation.

Region	Off-line kW	Off-line kWh
Sierra Nevada Region	-	-

Notes to Western:

4. Supply-Side Activities

Do not include any Western allocations here. Supply-side activities include conventional generation (coal - list conventional - IGCC - fluidized bed - other, natural gas, oil, combined cycle gas/oil, diesel, nuclear, fuel cell, other) and purchased power. For renewable resources, see the Renewable Activities report category in this program. Do include supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. Note: Estimates of energy and capacity are acceptable if actual measures are unavailable. Please list your current kW and kWh for supply-side activities (including those resources that came on-line during the current reporting period), by type. If you are a member of a member-based association reporting for a number of utilities or a group of utilities reporting as an IRP cooperative, make certain all supply-side resources are included here. For those activities with two or more sources such as purchased power contracts, please add and include totals in the kW and kWh fields. Contact your regional representative for more information.

Resource	kW	kWh
1. Hydro (non-Western)	-	-
2. Natural Gas	-	-
3. Oil	-	-
4. Combined Cycle Gas/Oil	-	58,890,330
5. Coal	-	-
6. Nuclear	-	-
7. Fuel Cell	-	-
8. Purchased Power Contract (Including supplemental purchases made by Western)	-	-
9. Diesel	-	-
Total:	-	58,890,330

LEC

Actual Expenditures:	\$ 1,879,423
Target Expenditures:	\$ 1,478,248
Expenditure Difference:	\$ 401,175

Notes to Western:
[Project was picked up to run more often than the budget.](#)

5. Discontinued Supply-side Activities

Please list kW and kWh for supply-side activities that went off-line during this reporting period, i.e., you are no longer generating or purchasing. Do include discontinued supplemental purchases made by Western on your behalf. Supplemental purchases are those purchases made for you in excess of your firm power allocation. For those activities with two or more sources such as two purchase power contracts, please add and report totals.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Hydro (non-Western)		
2. Natural Gas		
3. Oil		
4. Combined cycle gas/oil		
5. Coal		
6. Nuclear		
7. Fuel Cell		
8. Purchased Power Contract (Including discontinued supplemental purchases made by Western)		
9. Diesel		

Total:		-	-
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6. Demand-Side Activities

Demand-side activities include measures the utility undertakes to change customer use of electricity, such as strategic conservation, peak clipping, load shifting, etc. Note: Estimates of energy and capacity savings, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for demand-side activities (including those activities that came on-line during the reporting period), by type (residential appliance rebate program, commercial lighting measures, etc.). Include kW and kWh savings for all utilities covered in this report when multiple customers are involved (MBAs, etc.). Contact your regional representative for more information.

Current Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
16. Com./Ind. ventilation measures		
17. Com./Ind./Agr./Irr. Lighting measures		
18. Com./Ind/Agr./Irr. Load Mgmt programs		
19. Ind. Process measures		
20. Res. Air Conditioning measures		
21. Res. Appliance rebates programs		
22. Res. Audit and building envelope measures		
23. Res. Cooking Measures		
24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other: Electric Vehicles		
Other: Water Use Efficiency		
Total:	-	-

Actual Expenditures:	
Target Expenditures:	
Expenditure Difference:	\$ -

Notes to Western:

Districts water conservation efforts:

- Continue to encourage water conservation from water users by billing per Acre-foot of water used.
- Additional water savings measures include the elimination of tailwater spill by converting manually operated canal gates to automatically controlled gates with SCADA level control technology. The estimated savings from the canal automation project is 1,200-1,500 Acre-feet annually.
- These water conservation programs reduce load from pumping costs within the districts irrigation system.

Pump Efficiencies:

- Rebuilding of pumps at an approximate cost of \$125,000, with this upgrade the District anticipates an improvement in pumping efficiency and energy savings.
- A District overhauled 26 pumps representing 4,250 H.P. (3,169 kW).
- Under the District’s pump test and overhaul program, pumps are selected for overhaul if the efficiency is declining toward 60 percent efficiency or less. Increases in efficiency average approximately 10%.
- Actual costs for testing and overhaul for 2018 totaled \$248,995.

7. Discontinued Demand-Side Activities

Please list your kW and kWh for demand-side activities that went off-line during this reporting period or are no longer saving energy. Account for each demand-side activity only once to avoid double counting. Identify residential, commercial, industrial, agricultural, and irrigation.

Discontinued Resource Activities	kW Savings	kWh Savings
1. Agr./Irr. Appliance Rebate programs		
2. Agr./Irr. Audit and Bldg Env. measures		
3. Agr./Irr. Cooling/Ventilation measures		
4. Agr./Irr. Heating/Drying measures		
5. Agr./Irr. Load Mgmt programs		
6. Agr./Irr. Pump/motor/ASD measures		
7. Agr./Irr. Refrigerator/Freezer measures		
8. Com./Ind. Air Conditioning measures		
9. Com./Ind. Appliance rebate programs		
10. Com./Ind. Audit and Bldg Envelope measures		
11. Com./Ind. Cooking measures		
12. Com./Ind. Heating measures		
13. Com./Ind. Hot Water measures		
14. Com./Ind. Motor/ASD programs		
15. Com./Ind. Refrigerator/Freezer measures		
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24. Res. Domestic Hot Water measures		
25. Res. Heating measures		
26. Res. Lighting measures		
27. Res. Load Management programs		
28. Res. Refrigerator/Freezer measures		
29. Res. Ventilation measures		
Other		
Total:	-	-

Notes to Western:

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8. Current Renewable Resource Activities

Renewable resource activities include generation sources owned by your utility or purchased via contract that are renewable in nature such as solar photovoltaic systems, small-scale hydro, geothermal power, wind power, biomass generation, green tags, white tags, etc. Note: Estimates of energy and capacity, and resource expenditures are acceptable if actual measures are unavailable. Please list your current kW and kWh for renewable resource activities (including those resources that came on-line during this reporting period), by type (such as solar photovoltaic, wind energy, etc.) and include the totals for all utilities which are included in this report. Contact your regional representative for more information.

Current Activities	Current kW	Current kWh	
1. Bio-Gas	-	-	SCLF
2. Bio-mass	-	-	
3. Fuel Cells	-	-	
4. Geothermal	-	-	
5. Hydro - small scale	-	3,162,046	WSH
6. Solar	-	59,749,280	
7. Wind	-	-	
8. Green Tags Generated/purchased	-	-	
9. White Tags Generated/purchased	-	-	
Other	-	-	
Total:	-	62,911,325	

Actual Expenditures:	\$ 3,787,436
Target Expenditures:	\$ 4,390,686
Expenditure Difference:	\$ (603,250)

Notes to Western:

9. Discontinued Renewable Resource Activities

Please list kW and kWh for renewable resource activities that went off-line during this reporting period (i.e., resources that are no longer generating or purchases no longer being made). For those activities with two or more sources (such as two wind energy projects), please add and include totals in the required fields.

Discontinued Resource Activities	Off-line kW	Off-line kWh
1. Bio-Gas		
2. Bio-mass		
3. Fuel Cells		
4. Geothermal		
5. Hydro - small scale		
6. Solar		
7. Wind		
8. Green Tags Generated/purchased		
9. White Tags Generated/purchased		
Other		
Total:	-	-

Notes to Western:

10. Report Checklist

Required activities for compliance with 10 CFR Part 905. Before submitting your report, you must acknowledge that you have complied with the activities listed below by checking each of the checkboxes.

1. Projected goals and implementation schedules.	
2. Energy and capacity benefits and renewable energy developments achieved as compared to those anticipated.	

Power & Water Resources Pooling Authority

Regular Agenda • Item 5.A

1. Report by Auditors. Consider and possibly accept R24-06-04 *2023 Annual Audit*

**Power & Water Resources Pooling Authority
Resolution 24-06-04**

ANNUAL AUDIT FOR CONTRACT YEAR 2023

WHEREAS, the Power and Water Resources Pooling Authority (“PWRPA”) was created by a Joint Powers Agreement (“JPA”) to, among other things, acquire, construct, maintain, operate, and finance water and energy related projects; and

WHEREAS, Section 4.2.2 of the JPA provides that all funds shall be strictly, and separately, accounted for; and regular reports shall be rendered of all receipts and disbursements, at least quarterly during the fiscal year; and

WHEREAS, Sections 3.11.3 and 4.2.2 of the JPA provide that unless otherwise exempted from such requirement, the Board of Directors shall contract with a certified public accountant or public accountant to make an annual audit of PWRPA’s accounts and records, which shall be conducted in accordance with the requirements of Government Code Section 6505.

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

1. Accepts the Annual Audit for Contract Year 2023, appended hereto as Attachment A.

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 5th day of June 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, West Stanislaus ID, Westlands Water District, Zone 7 WA (100.0% Voting Shares)
NOES	None
ABSENT	None

David Weisenberger
Chairman

Attest by: Bruce McLaughlin
Secretary

**ATTACHMENT A
to
RESOLUTION 24-06-04**

*Power and Water Resources
Pooling Authority*

Financial Statements

December 31, 2023 and 2022

Draft

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(Required Supplementary Information)***

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Independent Auditors' Report

Board of Directors
Power and Water Resources Pooling Authority
Tracy, California

Opinions

We have audited the accompanying financial statements of the Power and Water Resources Pooling Authority as of and for the years ended December 31, 2023 and 2022, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the Power and Water Resources Pooling Authority as of December 31, 2023 and 2022, and the respective changes in financial position and cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Power and Water Resources Pooling Authority, and to meet our ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Power and Water Resources Pooling Authority's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Power and Water Resources Pooling Authority's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Power and Water Resources Pooling Authority's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and budgetary comparison information on pages 4 through 15, be presented to supplement the basic financial statements. Such information is the responsibility of management, and although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context.

We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Supplementary Information

Our audits were conducted for the purpose of forming an opinion on the Authority's basic financial statements. The schedules of revenue and operating expenses and insurance coverage on pages 32 through 34 are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedules of revenues and operating expenses and insurance coverage are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

**BARBICH HOOPER KING
DILL HOFFMAN, LLP**

Bakersfield, California
DATE, 2024

Power and Water Resources Pooling Authority

Management's Discussion and Analysis

As management of the Power and Water Resources Pooling Authority (“Authority”), we offer readers of the Authority’s financial statements this narrative overview and analysis of the Authority’s financial performance during the fiscal years ended December 31, 2023 and 2022. Please read it in conjunction with the Authority’s financial statements, which follow this section.

Introduction

The Authority operates as a publicly-owned electric utility and provides retail electric service to its public agency customers.¹ The Authority began providing retail electric service to its Project Participants on January 1, 2005, pursuant to contracts and agreements put into place in 2004.² The Authority’s public agency customers utilize electric power to pump, convey, store, treat, and distribute water for agricultural and municipal purposes. The Authority recognizes that water-related activities and electric power consumption are directly related and that the exchange of water and electric power resources is a variable means of managing both electric power consumption and water supplies.

The Authority is comprised of certain “Parties”, with additional participation by “Stakeholders”, as such terms are defined under the Joint Powers Agreement. Parties include Banta-Carbona Irrigation District, Byron Bethany Irrigation District, Glenn-Colusa Irrigation District, James Irrigation District, Lower Tule River Irrigation District, Princeton-Codora-Glenn Irrigation District, Provident Irrigation District, and West Stanislaus Irrigation District. Public agencies that have executed the Cost Sharing Agreement to become Stakeholders are Arvin-Edison Water Storage District, Cawelo Water District, Reclamation District 108, Santa Clara Valley Water District, Sonoma County Water Agency, Westlands Water District, and Zone 7 Water Agency. Parties and Stakeholders, collectively referred to as Project Participants, are retail electricity customers of the Authority by virtue of executing the Aggregated Services Agreement (“ASA”).

The Project Participants possess the right to receive capacity and energy from the Western Area Power Administration (“WAPA”), a federal agency engaged in the marketing of power generated by federally owned facilities, including the Central Valley Project (“CVP”). The Project Participants have assigned their CVP resource rights to the Authority. The Project Participants recognize the benefits of aggregating their individual allocations of CVP resources, as well as other resources, under a service arrangement whereby the Project Participants can optimize available energy and capacity resources. The Authority has established the capability to calculate the Project Participants’ hourly loads, schedule resources into the electricity market operated by the California Independent System Operator (“CAISO”), provide cost accounting, and bill for electric services provided by the Authority. The provision of retail electric services by the Authority optimizes the efficient use of facilities and resources by allowing the Project Participants to more efficiently aggregate, schedule, dispatch, and deliver energy resources owned, controlled, or purchased by the Authority.

¹ The Authority was established in 2004 as a public agency pursuant to the Joint Exercise of Powers Act, Articles 1 and 2 of Chapter 5 of Division 7 of Title 1 of the Government Code of the State of California commencing with Section 6500, and all laws which amend or supplement it.

² The Authority has the right to purchase electric power from any agency or entity, public or private, and the authority to provide for the acquisition, operation, leasing, and control of facilities for the generation, transmission, distribution, and sale of electric power.

Power and Water Resources Pooling Authority

Management's Discussion and Analysis

Authority Governance and Management

The Board of Directors ("Board"), consisting of a representative from each of the Project Participants, is responsible for overseeing the Authority's operations and making decisions on behalf of the Participants that formed the Authority. This includes acting as the local regulatory authority for setting policies, approving budgets, hiring staff, entering into contracts, and managing the Authority's finances. The Directors have a fiduciary duty to act with good faith and in the best interest of the Authority and the Participants.

The Authority has a General Manager and an Operations Manager who are appointed by the Board to conduct the Authority's business in accordance with Board policies. Pursuant to Resolutions adopted by the Board in 2007 and 2008, including the adoption of a comprehensive Risk Management Policy and associated exhibits and amendments thereto, the Managers are authorized to, among other things, purchase supplemental power and natural gas on behalf of the Authority in forward markets. The Authority has a General Counsel and a Treasurer, both of whom provide advice to the General Manager, but remain separate and independent as they each report directly to the Board.

Since the Authority's inception, Robertson-Bryan, Inc. ("RBI") has provided a broad scope of services necessary for operations including, among other things, preparing the annual budget and Pro Forma rates, making recommendations to the Board on revenue and expenditure levels, managing all metering issues, managing Scheduling Coordinator functions including load and resource portfolio strategy protocols and coordinating with the Treasurer on all aspects of vendor invoicing, audits, and Participant allocation, monthly and annual reconciliation processes.

Beginning in 2006, the Authority engaged Aces Power Marketing, LLC ("ACES") to provide 24-hour coverage of the Authority's energy management and trading functions, market settlements, credit and risk compliance, and certain other planning functions, including compliance with all future market requirements. ACES' duties have been expanded to include serving as the Scheduling Agent for the Authority's power purchase agreements with: (a) battery energy storage systems; and (b) small solar and hydroelectric facilities that will export electricity to the CAISO grid.

The Authority management continuously evaluates costs of service and cost allocation issues, and then provides recommendations to the Board. Significant and enduring changes were made in 2016 by the Board through: (a) adopting Resolution 15-06-08 *Procedures and Policies to Ensure Business Continuity Including Modifications to the Operating Rules and Regulations*; (b) approving new service agreements with key vendors that set fixed rates with substantial savings for services that fulfilled the Authority's managerial, operational, and legal needs; (c) adopting a zero carbon resource portfolio enabling any Participant to voluntarily procure a customized allocation of power resources within the Authority to achieve its low carbon goals while simultaneously reducing power portfolio costs for all other Participants; and (d) adopting Resolution 16-12-07 which implemented new cost categories and cost allocation algorithms of ASA in Exhibit E.

Power and Water Resources Pooling Authority

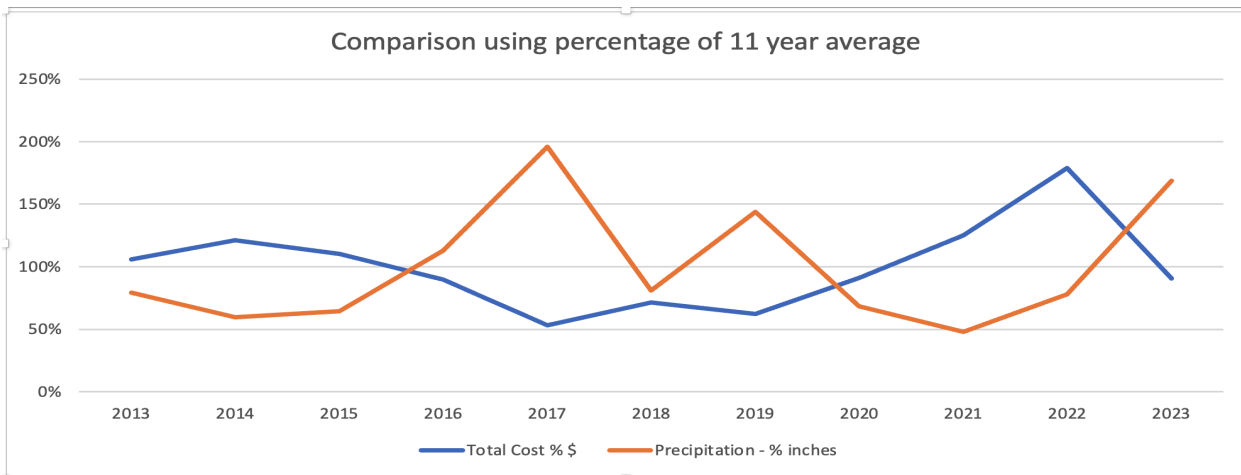
Management's Discussion and Analysis

2023 in Review – Transitioning from Drought to Floods

Hydrology is the major source of change in the Authority's operational cost from year to year. In California, variation in hydrology across calendar years is a certainty. The frequency, timing and duration are the uncertainties. Changes in hydrology will always impact the Authority's operations and particularly the power demand, hydroelectric generation allocation, total cost and composite rate. When the hydrology is wet, the Authority's aggregate power demand and total cost typically go down while the available hydroelectric generation and composite rate go up. The latter increase is mostly a function of fixed costs being spread over fewer megawatt hours. When the hydrology is dry, the Authority's aggregate power demand increases significantly as surface water supplies dwindle and pumping operations ramp up. This entails procuring additional power resources with the attendant delivery costs, i.e., for transmission and distribution services.

The Authority exists solely to serve its Project Participants' need for a cost-effective and reliable electricity supply. There is no profit emphasis like the private utilities and the Authority's Pro Forma rates are principally constructed as a revenue collection mechanism to ensure the long-term sustainability of its operations. The costs and revenues attributable to each Project Participant are tracked, verified and reconciled on an annual basis so that no Project Participant is over or undercharged for services received. Throughout the year, the Authority tracks this on a monthly basis using what is called a "pre-reconciliation." The pre-reconciliations serve as the metric to forecast whether current rates would cause revenue collections to exceed costs or vice versa. No less frequently than quarterly, the Authority evaluates the Pro Forma rates by Project Participant and determines whether the collections should be increased or reduced. This strategic approach serves as a vital tactic for the Authority's resilience amidst the unpredictable nature of California's hydrology, which is characterized by a state of "certain uncertainty."

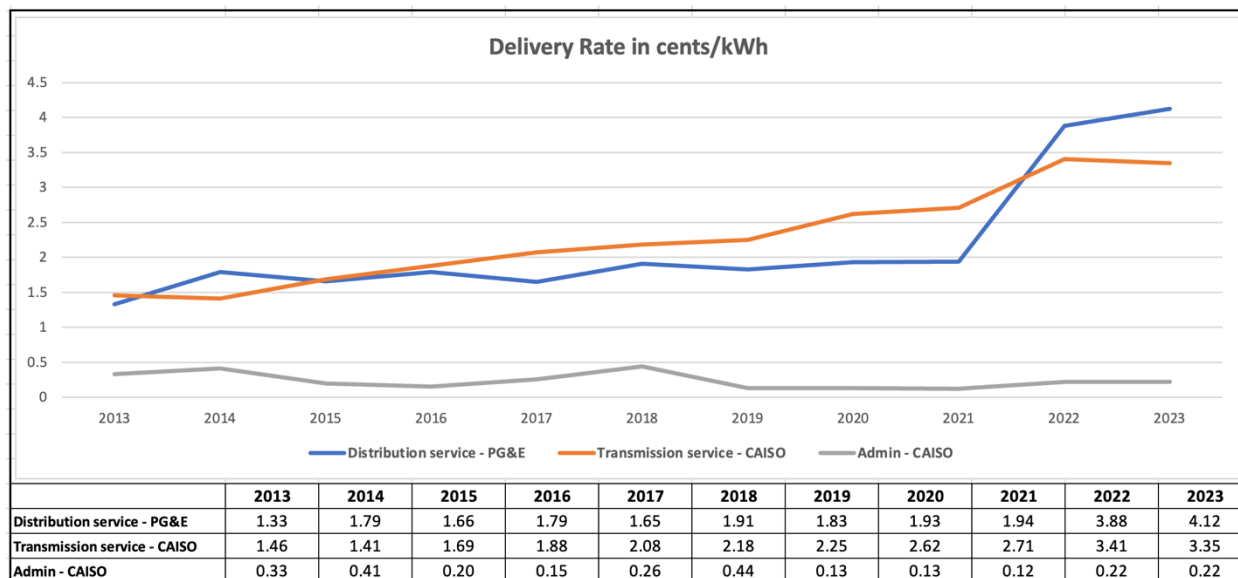
True to form, the 2020 through 2022 Water Years went down as the driest three years in California's recent recorded history. After a sporadic start, 2023 brought torrential rains, floods and abundant snowfall in all the right places. The 2023 Water Year ended up with 141 percent of the statewide average precipitation and 237 percent of April 1st Sierra-Cascades snowpack. The Authority's Board had adopted Dry pro forma rates in December 2022 in light of the drought. Early in 2023, however, the hydrology had truly shifted to a wet year-type and the Board responded appropriately to reset certain fixed power and energy rates to adjust for overcollections from some Project Participants. At that time, the revised total cost was estimated to be \$48 Million dollars, down from \$89 Million that was originally forecast in the dry year budget. The drivers were the decrease in power demand by 36% and a large increase in hydroelectric power generation delivered from the CVP.



Power and Water Resources Pooling Authority

Management's Discussion and Analysis

Despite the significantly reduced load and lower total cost in 2023, the delivery rate per kilowatt hour continued its climb as shown in the graph and further explained below.



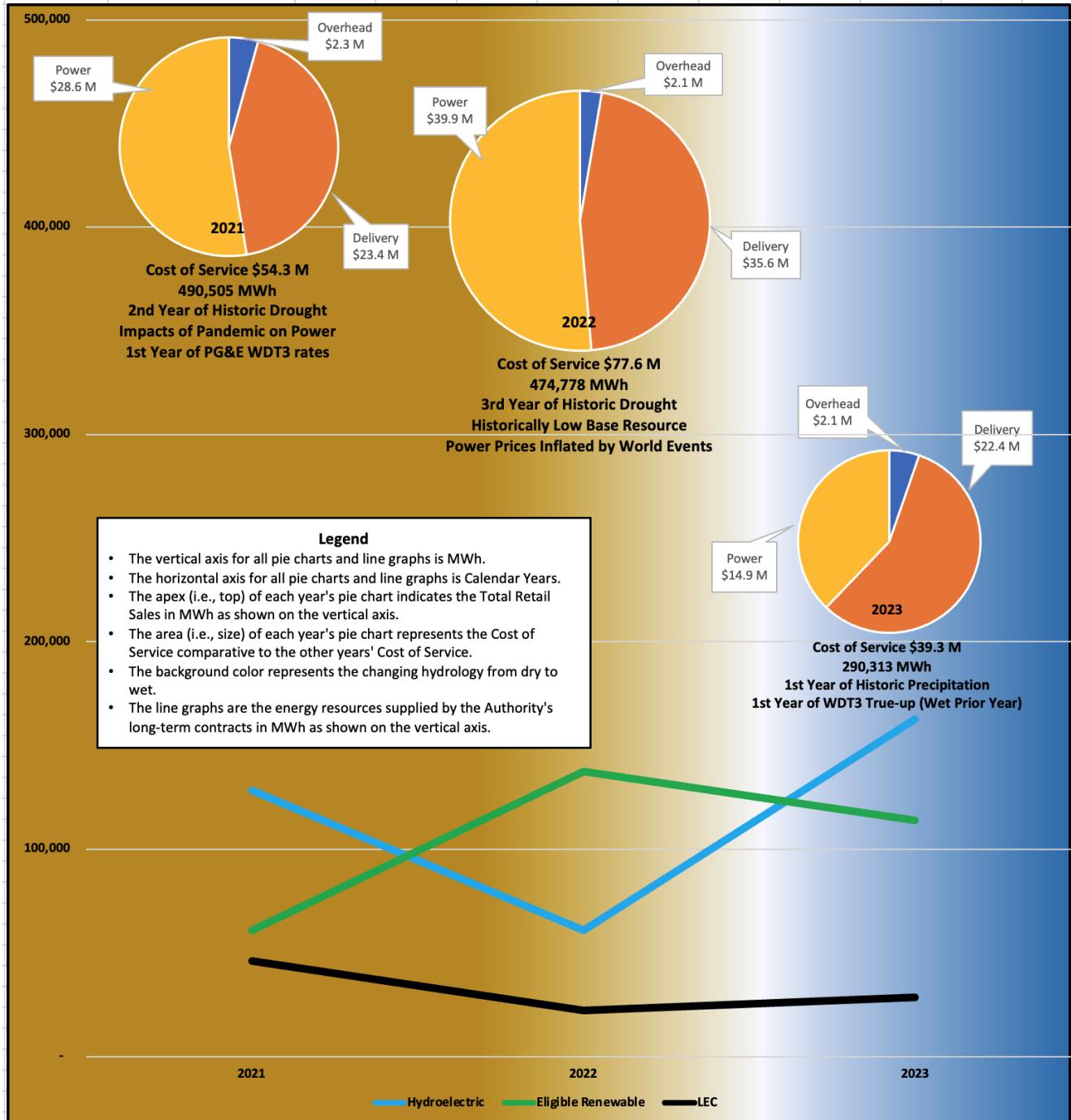
Virtually all of the Project Participants' load points are located some distance from the contracted electricity generating source. The electricity is delivered successively using the high voltage transmission grid operated by the CAISO (voltages of 60kV and higher) and then the low voltage (under 60kV) distribution system owned and operated by the Pacific Gas & Electric Company ("PG&E"). The CAISO transmission rates decreased in 2023 which is atypical. These rates reflect the cost of the transmission assets that are assigned to the CAISO by participating transmission owners ("PTO's"). The rate is routinely calculated and updated by the CAISO. For the 2023 versus 2022 period, the rate decreased because, among other things, the PTO's transmission revenue requirements decreased by \$78 million.

The PG&E Wholesale Distribution Tariff ("WDT") rates continued to climb in 2023 using the Formula Rate Model ("Model") that was approved by the Federal Energy Regulatory Commission ("FERC") in 2020. Each year (called the "Filing Year") PG&E updates the Model using its customers' load data and its Distribution Revenue Requirement ("DRR") from the previous year (called the "Prior Year") to calculate new primary and secondary rates for the following year (called the "Rate Year"). The Model also includes an Annual True-up Adjustment ("ATA") that compares PG&E's actual costs incurred for serving each wholesale distribution customer in the *Prior Year* to the amount that was collected using the rates set in the *Filing Year* two years earlier. Accordingly, for 2023, PG&E's annual update: (a) to calculate the WDT rates the Authority would pay in *Rate Year 2023*; (b) was performed in *Filing Year 2022*; (c) using the actual load and DRR from *Prior Year 2021*; and included (d) a true-up of the 2021 rates calculated in *Filing Year 2020* that used 2019 as its *Prior Year*. The bottom line of that confusing scenario is that the *Rate Year 2023* rates incurred an additive ATA of \$9.4 million. This adjustment reflected PG&E's under collection in the *Rate Year 2021* that was exacerbated because 2021 actually was a dry year but the rates were originally calculated using the *Prior Year 2019* data from a wet year.

Power and Water Resources Pooling Authority

Management's Discussion and Analysis

The infographic below showcases three years of costs, loads, hydrological conditions and long-term generation resources of the Authority. Notably, the size of each pie chart in the visual representation reflects the total annual cost incurred. Larger pie charts indicate higher costs, while smaller ones signify lower expenses. Additionally, the vertical position of the pie charts on the page corresponds to the total Retail Sales in megawatt hours, with higher positions indicating greater electricity demand. The horizontal axis aligns with the years, allowing viewers to observe trends and changes over time. By incorporating these visual elements, the infographic aids in understanding the Authority's financial performance, energy demand, and resource procurement, providing valuable insights for the reader.



Power and Water Resources Pooling Authority

Management's Discussion and Analysis

Impacts and Accomplishments in 2023

During calendar year 2023, the Authority delivered to the Project Participants 290,312,954 kWh, compared to 2022 deliveries of 474,778,459 kWh. As a result of surface water availability and operational differences, the change in energy demand of the individual customers varied greatly between the two successive years. The Authority's two largest customers are a case in point. Westlands Water District decreased its energy usage by 189,027,369 kWh (85%) by relying mostly on gravity flow to deliver surface water. Arvin-Edison Water Storage District, on the other hand, increased energy consumption by 3,121,815 kWh (2.6%) as it maximized the opportunity for groundwater recharging and in lieu water deliveries.

Each Project Participant's cost of power is unique and may vary materially based on: (1) load shape throughout the year; (2) unique transmission and distribution situations; (3) the amount of CVP allocation and renewable energy generation procured to serve its load throughout the year; (4) its participation in special projects involving long-term contracts for renewable energy and/or Renewable Energy Certificates ("RECs"); and (5) a voluntary selection to serve its load solely with carbon-free power resources. The average composite cost of power delivered to all Project Participants in 2023 was calculated to be approximately 13.53 cents/kWh. The range in the rates for delivered power was approximately 10.31 cents/kWh to 28.87 cents/kWh, with the higher rates resulting from significantly reduced power deliveries owing to the wet hydrology. Two customers, in fact, had substantially lower costs than 2022, but experienced *rate* increases because the costs were spread across loads roughly one quarter of their 10-year averages.

In 2023, the Board, together with the General Manager, Operations Manager, and key consultants, successfully accomplished the following:

- Continued to implement pro-forma electricity rates having rate components contributing to a Renewable Power fund in amounts sufficient to cover current compliance period RPS obligations.
- Scheduled loads and resources pursuant to its Scheduling Coordinating Agreement with the CAISO utilizing ACES as its scheduling agent and settled such schedules with the CAISO and all wholesale power suppliers.
- Maintained credit and appropriate financial agreements with WAPA, the CAISO, and other wholesale power suppliers.
- Continued to participate in the Lodi Energy Center Project pursuant to the Authority's 2.667% interest in the efficient natural gas-fired combined cycle power plant project.
- Continued to participate in the long-term procurement of renewable resources through its: (a) 13.333% participation in the 75 MW Astoria Solar photovoltaic generation project located in Kern County; (b) 55% participation in the 20 MW Whitney Point Solar photovoltaic generation project located near Fresno, California; (c) 100% participation in the solar facilities at the Penitencia Water Treatment Plant ("WTP"), Santa Teresa WTP, and Santa Clara Valley Water District administrative facility; (d) 100% ownership interest in the Sonoma WTP solar facility; and (e) its participation in the 300 MW Slate Solar and Storage photovoltaic generation project located in Kings County, with a 26 MW share of the solar output and 10 MW of installed battery energy storage.
- Adopted Resolution 23-06-09 *Renewable Energy Purchase Agreement* with Authority customer Lower Tule River Irrigation District to purchase the full output and environmental attributes of the 1.4 MW hydroelectric Success Power Project.

Power and Water Resources Pooling Authority

Management's Discussion and Analysis

- Adopted Resolution 23-08-12 *BCID Solar Project* and Resolution 23-12-21 *WSID Solar Project* approving power purchase agreements with two solar projects in San Joaquin County that are being designed and constructed to economically serve pumping load connected to the Authority's distribution system while also having the capability to export excess electricity for sale in the CAISO market.
- Adopted Resolution 23-09-13 *Luna Valley Solar Project* approving a 2 MW power purchase agreement with a large solar project being constructed in Fresno County. The output from this resource will be dedicated solely to Authority customer Westlands Water District.
- Participated with Cawelo Water District, Reclamation District 108, Sonoma County Water Agency, Zone 7 Water Agency, Johnston Farms, and Central Valley AG-Partners, for the purchase of Portfolio Content Category 3 RECs.
- Continued participation in the California Air Resources Board ("CARB") Cap-and-Trade Program including the auction for greenhouse gas allowances ("Allowances"). Annually, the Authority is allocated Allowances from CARB which must then be consigned to one or more of the auctions in the same vintage year for which the Allowances were received. The auction revenue received by the Authority is used exclusively to benefit the Project Participants in a manner consistent with California law. Furthermore, the Authority's participation in the LEC requires that the Authority procure sufficient Allowances for meeting its representative share of the LEC's Cap-and-Trade Program compliance obligation and transfer those Allowances to the LEC's operator.
- Evaluated available technologies including energy storage, distributed solar generation, microgrid systems, and in-canal hydroelectric generators. The Authority is collaborating with the Pacific Northwest National Laboratory and Argonne National Laboratory to evaluate the current limitations associated with the San Luis Reservoir for pump storage hydropower operations at the Gianelli Powerhouse. The study has the potential to inform future cost benefit analysis of available retrofit options of similar water storage and delivery facilities.
- Adopted Resolution 23-06-03 approving the *Annual Audit for 2022*.
- Adopted Resolution 23-06-04 approving the *Rate Review and Revised Pro Forma Rate Schedule* to compensate for the unexpected wet hydrology in 2023.
- Adopted Resolutions 23-06-06 and 23-10-14 approving the *2022 Power Source Disclosure and Power Content Labels* which included a Standard Water Portfolio having a GHG Emissions Intensity of 660 pounds CO_{2e} per MWh and a Zero Carbon Water Portfolio having a GHG Emissions Intensity of 0 pounds CO_{2e} per MWh.
- Adopted Resolution 23-06-08 updating the *Wildfire Mitigation Plan* for the Authority's distribution facilities in accordance with Public Utilities Code Section 8387.
- Adopted Resolution 23-08-11 approving the *2022 Annual Reconciliation Statement and Related Documentation Authorizing the Collection of the Total Refund Balances and Disbursements*.
- Met all its financial and operational obligations throughout its nineteenth year of operation.
- Adopted Resolution 23-12-16 Approving the *Annual Budget and Associated Pro Forma Rate Schedule for 2024*.
- Adopted Resolution 23-12-22 *Verification, Estimation and Editing of Interval Meter Data* to update the Authority's existing load metering policy.

Power and Water Resources Pooling Authority

Management's Discussion and Analysis

Financial Highlights

This marked the twentieth year of existence for the Authority and the nineteenth year in which it operated as a publicly owned electric utility. Power demand in 2023 was approximately 40% lower as compared to that of 2022 due to significant amounts of rainfall and an abundance of available surface water. The Authority's average power cost to the Project Participants for 2023 was approximately 13.53 cents/kWh as compared to 16.35 cents/kWh in 2022.

Overview of the Financial Statements

This annual financial report includes this management's discussion and analysis, the independent auditors' report, the basic financial statements of the Authority and selected additional information. The financial statements also include notes that explain in more detail some of the information in the financial statements.

Required Financial Statements

The financial statements of the Authority report information of the Authority using accounting methods similar to those used by private sector companies. These statements offer short and long-term financial information about its activities. The Statement of Net Position includes all of the Authority's assets and liabilities and provides information about the nature and amounts of investments in resources (assets) and the obligations to the Authority's creditors (liabilities). It also provides the basis for evaluating the capital structure of the Authority and assessing the liquidity and financial flexibility of the Authority.

All of the current year's revenues and expenses are accounted for in the Statement of Revenues, Expenses and Changes in Net Position. This statement can be used to determine whether the Authority has successfully recovered all its costs through its user fees and other charges, and to determine its profitability and its credit worthiness.

The final required financial statement is the Statement of Cash Flows. This statement reports cash receipts, cash payments, and net changes in cash resulting from operations, financing, and investing activities, and provides answers to such questions as where did cash come from, what was cash used for, and what was the change in the cash balance during the reporting period.

Financial Analysis of the Authority

In summation of the actions taken by the Authority during 2023, one must consider if the Authority, as a whole, is better off or worse off? The Statement of Net Position, and the Statement of Revenues, Expenses, and Change in Net Position reports information about the Authority's activities in a way that will help answer this question. These two statements report the net position of the Authority and the changes in it. One can think of the Authority's net position—the difference between assets and liabilities—as one way to measure financial health or financial position. Overtime, increases and decreases in the Authority's net position is one indicator of whether its financial health is improving or deteriorating. However, other non-financial factors such as changes in economic conditions, hydrological conditions, and new or changed governmental regulation also need to be considered.

Power and Water Resources Pooling Authority

Management's Discussion and Analysis

Table A
Condensed Statements of Net Position
December 31, 2023 and 2022

	<u>2023</u>	<u>2022</u>	<u>Dollar</u> <u>Change</u>	<u>%</u> <u>Change</u>	<u>2021</u>	<u>Dollar</u> <u>Change</u>	<u>%</u> <u>Change</u>
Assets							
Current assets	\$ 18,050,519	\$ 18,220,095	\$ (169,576)	(0.9%)	\$ 19,660,865	\$(1,440,770)	(7.3%)
Other assets	996	996	-	0.0%	996	-	0.0%
Restricted assets	10,380,796	9,167,132	1,213,664	13.2%	6,053,094	3,114,038	51.4%
Capital assets	272,114	283,945	(11,831)	(4.2%)	295,776	(11,831)	(4.0%)
	<u>\$ 28,704,425</u>	<u>\$ 27,672,168</u>	<u>\$ 1,032,257</u>	<u>3.7%</u>	<u>\$ 26,010,731</u>	<u>1,661,437</u>	<u>6.4%</u>
Liabilities							
Current liabilities	\$ 16,497,275	\$ 17,307,766	\$ (810,491)	(4.7%)	\$ 11,844,468	5,463,298	46.1%
Net Position							
Invested in capital assets	272,114	283,945	(11,831)	(4.2%)	295,776	(11,831)	(4.0%)
Unrestricted	11,935,036	10,080,457	1,854,579	18.4%	13,870,487	(3,790,030)	(27.3%)
	<u>\$ 28,704,425</u>	<u>\$ 27,672,168</u>	<u>\$ 1,032,257</u>	<u>3.7%</u>	<u>\$ 26,010,731</u>	<u>1,661,437</u>	<u>6.4%</u>

2023 to 2022

As can be seen from Table A, the Authority's Total Assets increased \$1.0 million or 3.7% in 2023 compared to 2022. This change is primarily due to a decrease in Current Assets of \$0.2 million as a result of an increase in cash and cash equivalents of \$5.0 million, decreases in accounts receivables of \$2.7 million and deposits of \$2.5 million, offset by increase in other assets of \$1.2 million as a result of an increase in restricted assets of \$1.2 million due to increases in the funds available in the Cap-and-Trade Program and Public Purpose Program of \$1.0 million and \$0.2 million respectively.

Also, as can be seen in Table A, the Authority's current liabilities decreased by \$.8 million or 4.7% in 2023 compared to 2022. This change is due to decreases in accounts payable of \$1.1 million, and funds on deposit from Project Participants of \$0.9 million, offset by increases in the Public Purpose Program of \$0.2 million and Cap-and-Trade Program Fund of \$1.0 million.

2022 to 2021

As can be seen from Table A, the Authority's Total Assets increased \$1.7 million or 6.4% in 2022 compared to 2021. This change is due to an increase in restricted assets of \$3.1 million due to a rise in funds available to participants in the Cap-and-Trade Program and Public Purpose Program of \$2.5 million and \$0.6 million respectively, an increase in deposits of \$1.7 million, and an increase in accounts receivable of \$0.1 million, offset by a decrease in cash and cash equivalents of \$3.2 million.

Also, as can be seen in Table A, the Authority's Current Liabilities increased by approximately \$5.5 million or 46.1% in 2022 compared to 2021. This change is due to an increase in accounts payable of \$2.3 million, an increase in funds available to participants in the Cap-and-Trade Program Funds of \$2.5 million, and an increase in funds available in the Public Purpose Program payable of \$0.6 million.

Table B

Power and Water Resources Pooling Authority

Management's Discussion and Analysis

Condensed Statements of Revenues, Expenses and Changes in Net Position

For Years Ended December 31, 2023 and 2022

	<u>2023</u>	<u>2022</u>	<u>Dollar Change</u>	<u>% Change</u>	<u>2021</u>	<u>Dollar Change</u>	<u>% Change</u>
Operating revenues	\$42,255,641	\$77,930,011	\$(35,674,370)	(45.8%)	\$58,387,615	\$19,542,396	33.5%
Operating expenses	41,285,773	81,965,794	(40,680,021)	(49.6%)	57,342,266	24,623,528	42.9%
Operating income (loss)	969,868	(4,035,783)	5,005,651	124.0%	1,045,349	(5,081,132)	(486.1%)
Nonoperating income	872,880	233,922	638,958	273.2%	66,225	167,697	253.2%
Change in net position	1,842,748	(3,801,861)	5,644,609	148.5%	1,111,574	(4,913,435)	(442.0%)
Net position, beginning of year	10,364,402	14,166,263	(3,801,861)	(26.8%)	13,054,689	1,111,574	8.5%
Net position, end of year	<u>\$12,207,150</u>	<u>\$10,364,402</u>	<u>\$ 1,842,748</u>	17.8%	<u>\$14,166,263</u>	<u>\$ (3,801,861)</u>	(26.8%)

2023 to 2022

As can be seen from Table B, the Authority's change in net position increased \$5.6 million or 148.5% in 2023, compared to 2022. This change is due to the net effect of a decrease in operating revenue of \$35.7 million for the year derived from power billings from the Project Participants, a decrease in operating expenses of \$40.7 million and an increase in interest income of \$0.6 million.

Operating revenues decreased by \$35.7 million in 2023 as compared to 2022 due to a decrease in power usage of approximately 184,465,535 kWh or 39%. The large decrease is a result of the very wet year experienced in California as explained above in the MD&A.

Operating expenses decreased by \$40.7 million in 2023 as compared to 2022 as a result in much lower demands for power in 2023 compared to 2022 as a result of wet hydrological conditions. The wet conditions resulted in decreases in all expenses of the Authority that are based on usage/demand except for the increase in renewable energy power of \$1.3 million compared to 2022 as a result of revenue derived from the CASIO for the renewable energy from Astoria, Whitney Point and Slate Solar/Battery LLC being 40% lower than 2022 and an increase in contractual cost of 10% as compared to 2022.

2022 to 2021

As can be seen from Table B, the Authority's change in net position decreased by \$4.9 million or 442.0% in 2022 compared to 2021. This change is due to the net effect of an increase in operating revenues of \$19.5 million for the year derived from power billings from Project Participants and the increase in operating expenses of \$24.6 million, offset by an increase of \$.2 million in non-operating income mainly due to increase in interest income as a result of higher interest rates in 2022.

Operating revenues increased \$19.5 million in 2022 as compared to 2021 due to an increase in the average composite rate of delivered power of 5.29 cents/kWh offset by a decrease in power usage of approximately 15,726,000 kWh or 3.3%.

Power and Water Resources Pooling Authority

Management's Discussion and Analysis

The Authority's operating expenses increased \$24.6 million in 2022 as compared to 2021, this increase is due to significant increases in the cost of power and for the distribution and transmission of power to the Authority's Participants. Total power costs increased \$11.7 million in 2022 compared to 2021, this is a result of increases in supplemental power of \$10.6 million, an increase in the cost of the Lodi Energy Center of \$.8 million, and an increase in renewable energy of \$1.2 million, offset by a decrease in base resource power of \$0.9 million. The total cost to deliver power to the Authority's Participants increased \$11.9 million in 2022 as compared to 2021. This is due to increases in the amounts paid to PG&E and CAISO for the transmission and distribution of power in the amount of \$10.1 million and \$1.8 million, respectively, in 2022 as compared to 2021. In addition, prior year power cost adjustments increased \$1.2 million as compared to 2021 and general and administrative cost decreased \$0.2 million.

**Table C
Condensed Budget to Actual Comparison
December 31, 2023**

	2023				2022			
	<i>Actual</i>	<i>Budget</i>	<i>Dollar Change</i>	<i>% Change</i>	<i>Actual</i>	<i>Budget</i>	<i>Dollar Change</i>	<i>% Change</i>
Operating revenue	\$42,255,641	\$82,139,185	\$(39,883,544)	(48.6%)	\$77,930,011	\$64,640,687	\$13,289,324	20.6%
Operating expenses	(41,285,773)	(82,139,185)	40,853,412	(49.7%)	(81,965,794)	(64,640,687)	(17,325,107)	26.8%
Other income	872,880	-	872,880	100.0%	233,922	-	233,922	100.0%
Change in position	\$ 1,842,748	\$ -	\$ 1,842,748	100.0%	\$ (3,801,861)	\$ -	\$ (3,801,861)	100.0%

Budgetary Highlights

2023

The Authority operated under a formal budget for the year ending on December 31, 2023. The approved 2023 budget included pro forma rates to charge the Project Participants for their individual power use. These rates were developed using a dry condition water year scenario, which included an assumption that reduced deliveries of hydropower would be available during the year.

During 2023, the Authority had interest income of \$0.9 million and \$1.8 million in prior period expenses included in Table C in operating expenses. These items were not included in the 2023 budget.

2022

The Authority operated under a formal budget for the year ending on December 31, 2022. The approved 2022 budget included pro forma rates to charge the Project Participants for their individual power use. These rates were developed using an average condition water year scenario, which included an assumption that average hydropower would be available during the year.

During 2022, the Authority had interest income of \$0.2 million and \$3.6 million in prior period expenses included in operating expenses in Table C. These items were not included in the 2022 budget.

Power and Water Resources Pooling Authority

Management's Discussion and Analysis

Capital Asset

During 2023 and 2022 the Authority did not purchase or receive capital assets.

Debt Service Requirements

No debt was outstanding as of December 31, 2023 and 2022.

Contacting the Authority's Management

This annual financial report is designed to provide a general overview of the Authority's finances and to demonstrate the Authority's accountability for the money it receives. If you have questions about this report or need additional financial information, contact the Power and Water Resources Pooling Authority, P. O. Box 160, Arvin, CA 93203.

Draft

Power and Water Resources Pooling Authority

**Statements of Net Position
December 31, 2023 and 2022**

ASSETS	2023	2022
Current Assets		
Cash and cash equivalents	\$ 14,546,759	\$ 9,516,707
Accounts receivable, customers	795,675	3,518,393
Accounts receivable, miscellaneous	63,915	326,030
Deposits	2,232,152	4,704,792
Other current assets	412,018	154,173
	<u>18,050,519</u>	<u>18,220,095</u>
Noncurrent Assets		
Capital assets, at cost	414,087	414,087
Less accumulated depreciation	(141,973)	(130,142)
	<u>272,114</u>	<u>283,945</u>
Other Assets		
Green House Gas allowances	996	996
Restricted receivable	31,226	84,516
Restricted cash and cash equivalents	10,349,570	9,082,616
	<u>10,381,792</u>	<u>9,168,128</u>
	<u>\$ 28,704,425</u>	<u>\$ 27,672,168</u>
 LIABILITIES AND NET POSITION		
Current Liabilities		
Accounts payable	\$ 3,659,917	\$ 4,795,368
Funds on deposit, Project Participants	2,456,562	3,345,267
Public Purpose Program Fund	3,241,447	3,060,025
Cap-and-Trade Program Fund	7,139,349	6,107,106
	<u>16,497,275</u>	<u>17,307,766</u>
Net Position		
Net investment in capital assets	272,114	283,945
Unrestricted	11,935,036	10,080,457
	<u>12,207,150</u>	<u>10,364,402</u>
	<u>\$ 28,704,425</u>	<u>\$ 27,672,168</u>

See Notes to Financial Statements.

Power and Water Resources Pooling Authority

***Statements of Revenues, Expenses, and Changes in Net Position
For Years Ended December 31, 2023 and 2022***

<i>Revenues:</i>	<i>2023</i>	<i>2022</i>
Service, customer, and general and administrative charges	\$ 42,255,641	\$ 77,930,011
 <i>Operating expenses:</i>		
Power - base resource	4,151,459	5,550,399
Power - supplemental	5,422,303	30,567,189
Power - LEC	534,634	2,182,915
Power - renewable energy	4,270,025	2,945,503
Power - surcharges	87,784	142,686
Transmission and distribution	22,204,536	32,480,566
CAISO	270,222	2,011,048
Scheduling and coordinating	497,050	496,349
Metering	592,839	637,216
Prior year power cost adjustments	1,928,536	3,631,064
General and administrative	1,326,385	1,320,859
	41,285,773	81,965,794
Operating income (loss)	969,868	(4,035,783)
 <i>Nonoperating income:</i>		
Interest income	872,880	224,244
Other income	-	9,678
	872,880	233,922
Change in net position	1,842,748	(3,801,861)
<i>Net position, beginning of year</i>	10,364,402	14,166,263
<i>Net position, end of year</i>	\$ 12,207,150	\$ 10,364,402

See Notes to Financial Statements.

Power and Water Resources Pooling Authority

*Statements of Cash Flows
For Years Ended December 31, 2023 and 2022*

	<u>2023</u>	<u>2022</u>
<i>Cash flows from operating activities:</i>		
Cash receipts from Project Participants	\$ 49,583,133	\$ 81,268,097
Cash payments to Project Participants	(6,080,432)	(1,939,584)
Cash receipts from others as a return of a collateral deposit	2,472,640	-
Cash payments to others as a collateral deposit	-	(1,679,018)
Cash payments to other suppliers for goods and services	<u>(40,402,666)</u>	<u>(77,968,349)</u>
Net cash provided by (used in) operating activities	<u>5,572,675</u>	<u>(318,854)</u>
<i>Cash flows from investing activities:</i>		
Interest income	<u>724,331</u>	<u>163,212</u>
<i>Net increase (decrease) in cash and cash equivalents</i>	6,297,006	(155,642)
<i>Cash and cash equivalents at beginning of year</i>	<u>18,599,323</u>	<u>18,754,965</u>



	<u>2023</u>	<u>2022</u>
<i>Reconciliation of operating income (loss) to net cash provided by (used in) operating activities:</i>		
Operating income (loss)	\$ 969,868	\$ (4,035,783)
<i>Adjustments to reconcile operating income (loss) to net cash provided by (used in) operating activities:</i>		
Depreciation	11,831	11,831
Other income	-	9,678
<i>Changes in operating assets and liabilities:</i>		
Accounts receivable and restricted receivable	3,038,123	(109,118)
Deposits and other assets	2,363,344	(1,658,760)
Accounts payable	(1,135,451)	2,335,577
Other liabilities	324,960	3,127,721
	<u>5,572,675</u>	<u>(318,854)</u>
Net cash provided by (used in) operating activities	<u>\$ 5,572,675</u>	<u>\$ (318,854)</u>
<i>Supplemental disclosures of cash flow information:</i>		
<i>Reconciliation of cash and cash equivalents:</i>		
Cash and cash equivalents	\$ 14,546,759	\$ 9,516,707
Restricted cash and cash equivalents	10,349,570	9,082,616
	<u>24,896,329</u>	<u>18,599,323</u>

Power and Water Resources Pooling Authority

Notes to Financial Statements

Note 1. Nature of Activities and Summary of Significant Accounting Policies

The reporting entity:

The Authority was established by a Joint Powers Agreement, dated January 22, 2004, under the California Joint Exercise of Powers Act. The Authority is a public agency comprised of irrigation districts. The Joint Powers Agreement provides that the Authority shall have the power to study, promote, develop, conduct, design, finance, acquire, construct, and/or operate water and energy-related projects and programs. In furtherance of these rights, the Authority operates as a publicly owned electric utility and provides retail electric service to the Project Participants.

Project Participants:

As of December 31, 2023 and 2022, the Authority's Project Participants and their respective voting percentages are as follows:

	<u>Effective April 1, 2023</u>	<u>Effective April 1, 2022</u>
Arvin-Edison Water Storage District	18.5972%	18.6674%
Banta-Carbona Irrigation District	5.7749	5.9784
Cawelo Water District	3.9111	5.6750
Glenn-Colusa Irrigation District	5.3314	5.1376
James Irrigation District	4.8055	3.9954
Lower Tule River Irrigation District	3.9843	4.9609
Princeton-Codora-Glenn Irrigation District and Provident Irrigation District	4.7453	4.0427
Reclamation District 108	3.9150	4.2128
Santa Clara Valley Water District	4.0137	6.6395
Sonoma County Water Agency	6.3922	8.5751
Byron Bethany Irrigation District	8.1305	3.9387
West Stanislaus Irrigation District	5.6951	5.7436
Westlands Water District	20.1898	18.0267
Zone 7 Water Agency	4.5140	4.4065

Management and Board of Directors:

The Authority's governing body is its fourteen-member Board of Directors, which annually elects a Chairman and Vice-Chairman. The Joint Powers Agreement directs that voting is based on a formula reflecting, among other things, each Project Participant's annual energy usage.

Basis of accounting and financial reporting:

The accompanying financial statements are reported using the economic resources measurement focus and the accrual basis of accounting, in conformity with the uniform system of accounts prescribed for water districts by the Controller of the State of California. Revenues are recognized when earned and expenses are recognized when incurred regardless of the timing of cash payments or receipts.

Notes to Financial Statements

When the Authority has both unrestricted and restricted resources available for Authority purposes, it is the Authority's practice to first expend restricted resources, subsequently utilizing unrestricted resources as needed.

The Authority utilizes a net position presentation in accordance with GASB Statement No. 34, *Basic Financial Statements - and Management's Discussion and Analysis - for State and Local Governments*, as amended by GASB Statement No. 63, *Financial Reporting of Deferred Outflows or Resources, Deferred Inflows of Resources, and Net Position*. Net position is categorized as invested in capital assets, net of related debt, restricted components of net position and unrestricted components of net position. These categories are defined as follows:

Net investment in capital assets - This component of net position consists of capital assets, including restricted capital assets, net of accumulated depreciation and the deferred outflow of advanced refunding of bonds, reduced by the outstanding balances of any bonds, mortgages, notes, or other borrowings that are attributable to the acquisition, construction, or improvement of those assets. If there are significant unspent related debt proceeds at year-end, the portion of the debt attributable to the unspent proceeds are not included in the calculation of invested in capital assets, net of related debt. Rather, that portion of the debt is included in the same net position component as the unspent proceeds.

Restricted components of net position - This component of net position consists of restricted assets reduced by liabilities and deferred inflows of resources related to those assets. Generally, a liability relates to restricted assets if the asset results from a resource flow that also results in the recognition of a liability or if the liability will be liquidated with the restricted assets reported.

Unrestricted components of net position - This component of net position is the net amount of assets, deferred outflows of resources, liabilities, and deferred inflows of resources that are not included in the determination of net investment in capital assets or the restricted component of net position.

Fund accounting:

The Authority utilizes a proprietary enterprise fund category to account for its activities. Enterprise funds are used to account for operations: (a) that are financed and operated in a manner similar to private business enterprises - where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges; or, (b) where the governing body has decided that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control, accountability or other purposes. Other items not properly included among operating revenues are reported as nonoperating revenues. All assets and liabilities associated with an enterprise fund's activities are included on its statements of net position.

Notes to Financial Statements

Use of estimates:

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Cash and cash equivalents:

For the purpose of reporting cash flows, the Authority considers cash equivalents to be all highly liquid debt instruments purchased with an original maturity of three months or less. At December 31, 2023 and 2022, cash and cash equivalents include cash on hand and amounts deposited with banks, California Asset Management Program (CAMP), and the State Treasurer's Local Agency Investment Fund (LAIF).

The Authority has invested funds in the California Asset Management Program (CAMP). CAMP is a joint powers authority established in 1989 which provides California public agencies with professional investment services. Investments offered through the CAMP pool are permitted investments for all local agencies under the California Government Code Section 53601 (p). CAMP is directed by a Board of Trustees, which is made up of experienced local government finance directors and treasurers. The pool is a short-term cash reserve portfolio. As the pool does not make share-value adjustments due to immaterial differences between fair value and cost, the Authority's cost basis in the fund is reflected in cash and cash equivalents on the statements of net position as of December 31, 2023.

The Authority invests any excess funds not needed for immediate needs into the State of California managed Local Agency Investment Fund ("LAIF"), which is a permitted investment by both State law and the Authority's investment policy. Created by state statute, the LAIF is a component of a pooled money program that is administered by the State Treasurer's Office. The fund has regulatory oversight from the Local Investment Advisory Board, which is comprised of the State Treasurer as chair, the State Controller, and the Director of Finance. As the LAIF does not make share-value adjustments due to immaterial differences between fair value and cost, the Authority's cost basis in the fund is reflected in cash and cash equivalents on the statements of net position as of December 31, 2023 and 2022.

Cash flows:

GASB Statement No. 9, *Reporting of Cash Flows for Proprietary and Nonexpendable Trust Funds and Governmental Entities that Use Proprietary Fund Accounting*, states for purposes of preparing the statements of cash flows, all transactions not classified as capital and related financing activities or investing activities are classified as operating activities. The adjustments to reconcile operating income (loss) to net cash provided by (used in) operating activities includes other income and expenses.

Notes to Financial Statements

Accounts receivable:

Accounts receivable are stated at the amount management expects to collect from balances outstanding at year-end. The Authority considers accounts receivable to be fully collectable. Based on the credit history with customers having outstanding balances and current relationships with them, it has concluded that bad debt on balances outstanding at year-end is not necessary.

Concentration of credit risk:

Credit is extended, in the form of accounts receivable, to the Project Participants who are located throughout northern and central California.

Capital assets:

Capital assets are defined by the District as assets with an individual cost of more than \$5,000 and an estimated useful life greater than two years. Depreciation is computed using the straight-line method over the estimated useful life of 35 years.

Maintenance and repairs of property, plant and equipment are charged to operations and major improvements are capitalized. Upon retirement, sale or other disposition of capital assets, the cost and accumulated amortization are eliminated from the accounts and gain or loss is included in operations.

Revenue recognition:

Income is derived from the levy of power service charges as determined annually by the Board of Directors. Revenues from power sales are recognized as power is delivered.

Derivative instruments and hedging activities:

The Authority enters into contracts for the purchase and sale of electricity for use in the Project Participants' business operations. GASB requires the Authority to evaluate these contracts to determine whether the contracts are derivatives. Certain contracts that literally meet the definition of a derivative may be exempt as normal purchases or normal sales. Normal purchases and normal sales are contracts that provide for the purchase or sale of something other than a financial instrument or derivative instrument that will be delivered in quantities expected to be used or sold over a reasonable period in the normal course of business. Contracts that meet the requirements of normal purchases and normal sales are documented and exempted from the accounting and reporting requirements of GASB.

The Authority's policy is to fulfill all derivative and hedging contracts by either taking delivery of power from a third party or by providing power to a third party as provided for in each contract. The Authority's policy does not authorize the use of derivatives or hedging instruments for speculative purposes such as hedging electricity pricing fluctuations beyond the Authority's estimated capacity to receive or deliver power. Normal purchases and normal sales contracts are accounted for as executory contracts as required under generally accepted accounting principles. As of December 31, 2023 and 2022, the Authority had no contracts accounted for as derivatives.

Notes to Financial Statements

Note 2. Cash and Cash Equivalents,

Cash, cash equivalents, and investments as of December 31, 2023 and 2022 are classified in the accompanying financial statements as follows:

	<i>2023</i>	<i>2022</i>
Cash and cash equivalents	\$ 14,546,759	\$ 9,516,707
Restricted cash and cash equivalents	10,349,570	9,082,616
	\$ 24,896,329	\$ 18,599,323

Cash, cash equivalents, and investments as of December 31, 2023 and 2022 consist of the following:

	<i>2023</i>	<i>2022</i>
Deposits with banks	\$ 3,769,486	\$ 5,465,469
Deposits with State of California LAIF	14,662,135	13,133,854
Deposits with with CAMP	6,464,708	-
	\$ 24,896,329	\$ 18,599,323

Investments authorized by the Authority's investment policy:

The Authority's investment policy only authorizes investment in the local government investment pool administered by the State of California Local Agency Investment Fund, California Asset Management Program, and obligations of the U.S. Treasury as authorized by the Government Code. Other types of investments that are authorized by the Government Code can be added as an amendment to the approved policy. The Authority's policy does not contain any specific provisions intended to limit the Authority's exposure to interest rate risk, credit risk, custodial credit risk, and concentration of credit risk or foreign currency risk.

Disclosures relating to interest rate risk:

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value of changes in market interest rates.

Information about the sensitivity of the fair values of the Authority's investments to market interest rate fluctuations is provided by the following table that shows the maturity date of each investment as of December 31, 2023:

<i>Investments</i>	<i>Reported Amount</i>	<i>Maturity Date</i>
Local Agency Investment Fund	\$ 14,662,135	N/A
California Asset Management Program	\$ 6,464,708	N/A

Notes to Financial Statements

Disclosures relating to credit risk:

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. The LAIF does not have a rating provided by a nationally recognized statistical rating organization. The CAMP Program received a AAAM rating from Standard and Poor's.

The investment policy of the Authority contains no limitations on the amount that can be invested in any one issuer beyond that stipulated by the California Government Code. There were no investments in any one issuer (other than the external investment pools) that represent 5% or more of total investments at December 31, 2023 and 2022.

Custodial credit risk

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, the Authority will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g. broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. With respect to investments, custodial credit risk generally applies only to direct investments in marketable securities. Custodial credit risk does not apply to a local government's indirect investment in securities through the use of mutual funds or government investment pools (such as LAIF and CAMP). The California Government Code and the Authority's investment policy do not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits, other than the following provisions for deposits: The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The market value of the pledged securities in the collateral pool must equal at least 110% of the total deposited by the public agencies. California law also allows financial institutions to secure governmental deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits. At December 31, 2023 and 2022, the Authority had no risk associated with deposits.

Note 3. Capital Assets

In 2011, the Authority entered into three Distribution Facilities Agreements with Project Participants (Glenn-Colusa Irrigation District, effective March 2, 2011; Reclamation District 108, effective March 30, 2011 and Santa Clara Valley Water District, effective August 23, 2011). Under the Distribution Facilities Agreements, the Project Participants are responsible for installing electric distribution facilities that will be used by the Authority to provide electric service to the Project Participants' respective new electric loads. Upon inspection and acceptance by the Authority, the electric distribution facilities were transferred to and became the property of the Authority. The Project Participants are responsible for all costs related to the installation, operation, maintenance and replacement of the electric distribution facilities. In 2011, Glenn-Colusa Irrigation District transferred \$290,616 and Reclamation District 108 transferred \$123,471 of Distribution facilities to the Authority. As of December 31, 2023 and 2022, capital assets balance is \$414,087.

Notes to Financial Statements

Note 4. Restricted Assets

Public Purpose Program (P3):

The restricted balance for the P3 Program, as of December 31, 2023 and 2022 was \$3,241,447 and \$3,060,025, respectively, included in restricted cash and cash equivalents and restricted receivable and an equivalent liability balance. The restricted assets are required by Public Utilities Code §385(a) which states that each publicly-owned electric utility shall establish a non-bypassable, usage based charge on local distribution service of not less than the lowest expenditure level of 1996 from the three largest electrical corporations in California on a percent of revenue basis. The Public Utilities Code requires that the collected charges shall be used to fund investments in certain designated projects including energy efficiency, energy conservation, and renewable energy. In September 2006, the Authority's Board adopted Public Purpose Program (P3) Guidelines establishing that each Project Participant shall contribute an amount equal to 2.85% times its amount invoiced for energy delivered based upon the current pro-forma rates in effect for the period. The P3 Guidelines require the collected funds to be placed in an interest-bearing account whereby the Board Treasurer shall track the deposits, withdrawals, and balance attributable to each Project Participant. Any Project Participant may propose a P3 project and request disbursement from that Project Participant's designated P3 funds. Every conforming P3 project, as determined by the Authority's Board, shall receive funding from the requesting Project Participant's available designated P3 funds. Not less than once a year, coinciding with the annual cost reconciliation process and the Authority's audit of its financial performance, an internal audit of the P3 Account shall be undertaken to assess conformance with the Public Utilities Code and P3 Guidelines.

Cap-and-Trade Program:

The California Cap-and-Trade Program ("Program") became effective on January 1, 2012. The Program was designed to provide entities subject to its regulation the flexibility to seek out and implement the lowest-cost options to reduce greenhouse gas ("GHG") emissions. As part of the Cap-and-Trade Program, the California Air Resources Board ("CARB") created GHG allowances ("Allowances") to represent the right to emit one metric ton of greenhouse gases. Each year, CARB allocates a pre-determined amount of "free" Allowances to electric distribution utilities, such as the Authority, while the remainder of Allowances are made available for purchase in quarterly auctions ("Auction"). Pursuant to the Program regulations, the Authority may not directly sell the Allowances to other entities but may only consign the Allowances for sale in one or more of ARB's quarterly auctions. The Auction revenue that the Authority receives from the sale of free Allowances shall be used solely for the benefit of Authority ratepayers in a manner consistent with California law. The restricted balance of the Cap-and-Trade Program, as of December 31, 2023 and 2022 was \$7,139,349 and \$6,107,106, respectively, included in restricted cash and cash equivalents and an equivalent liability.

Note 5. Board Designated Reserves

The Board Designated Reserves are presented as internally constrained Unrestricted Net Assets of the Authority to be used for their respective purposes. The Board Designated a \$10,000,000 Energy Reserve at December 31, 2023 and 2022.

Notes to Financial Statements

Note 6. Related Party Transactions

The Authority has engaged the services of the Arvin-Edison Water Storage District (AEWSD), a Project Participant, to provide treasurer and accounting services. The Authority paid AEWSD \$86,956 and \$82,673 for services for the years ended December 31, 2023 and 2022, respectively. The Authority paid \$4,478 and \$3,210 to AEWSD for office and administrative expenses for the years ended December 31, 2023 and 2022, respectively.

Revenues for the years ended December 31, 2023 and 2022 of \$42,255,641 and \$77,930,011, respectively, were generated by the payments made by the Authority's Project Participants. Total accounts receivable of \$795,675 and \$3,518,393 at December 31, 2023 and 2022, respectively, were due from the Authority's Project Participants.

Note 7. Prior Year Power Cost Adjustments

On or before July 1 of each succeeding year, the Authority provides the Project Participants with a final accounting of power charges and other operating expenses for the previous calendar year. Adjustments of prior year power costs resulted in a net decrease to income for the years ended December 31, 2023 and 2022. The adjustments consist of the following items:

	<i>2023</i>	<i>2022</i>
Reconciliation refund to participants	\$ 1,482,395	\$ 4,036,910
Miscellaneous prior year	446,141	(405,846)
	\$ 1,928,536	\$ 3,631,064

Note 8. Commitments

The Authority contracted with WAPA in August 2004 to receive a percentage of the Central Valley Project's power resources available for marketing on an hourly basis. WAPA provides a percentage of the CVP power resources consistent with WAPA's post-2004 Power Marketing Plan. The contract for service is for January 1, 2005, through December 31, 2024. The agreement was extended for an additional ten-year period to December 31, 2034.

The Authority has entered into various other power purchase agreements with wholesale power suppliers through which the Authority buys power that is supplemental to power received under the Authority's contract with WAPA. The Authority has access to various third-party marketers through its Edison Electric Institute and Western Systems Power Pool agreements. In 2018, the Authority had fixed power purchase agreements and capacity contracts with NextEra Energy Marketing.

Subject to certain early termination rights, these agreements specify minimum purchase obligations. The Authority is obligated to purchase this supplemental power at contract rates and may be subject to margin calls from these third-party suppliers if the Authority were to violate the credit terms of these contracts. The Authority has reciprocal rights to margin its suppliers in the unlikely event of their financial distress.

Notes to Financial Statements

In 2008, the Authority executed a Second Phase Agreement with the Northern California Power Agency (“NCPA”) to participate in the construction and operation of the Lodi Energy Center (“LEC”). The Authority has a 2.667% subscription (approximately 7 MW) of the 302 megawatt (“MW”) natural gas-fired combined cycle power generation facility. The Commercial Operation Date (“COD”) was declared in November 2012.

Effective July 23, 2014, the Authority entered into a 20-year power purchase agreement (“PPA”) with RE Astoria 2, LLC to purchase certain renewable energy and associated environmental attributes from a 75 MW photovoltaic solar facility in Kern County. The COD occurred on December 5, 2016.

Effective April 17, 2015, the Authority entered into a 20-year PPA with Whitney Point Solar, LLC to purchase certain renewable energy and associated environmental attributes from a 20 MW photovoltaic solar facility in Fresno County. The COD occurred on April 14, 2017.

Effective March 22, 2019, the Authority entered into a 20-year PPA with RE Slate 4, LLC to purchase certain renewable energy, capacity and associated environmental attributes from a 300 MW photovoltaic solar facility in Kings County. In 2020, the PPA was assigned to Slate 1, LLC and amended to include a subscription for 10 MW of co-located battery energy storage. The COD for both solar and storage occurred on March 23, 2022.

Effective August 31, 2023, the Authority entered into a 35-year PPA with BCID Solar, LLC, to purchase certain renewable energy and associated environmental attributes from a 3.6 MW photovoltaic solar facility in San Joaquin. This facility is being designed and constructed to optimize the delivery of solar power for water pumping load and to the CAISO grid. The sole participating customer for this project is the Banta CARboa Irrigation District. The expected COD is late in 2025.

Effective September 6, 2023, the Authority entered into a PPA with Lower Tule River Irrigation District to purchase certain renewable energy and associated environmental attributes from a 1.4 MW hydroelectric facility in Tulare County. As a result of interconnection agreement delays, the facility COD did not occur until May 6, 2024.

Effective September 27, 2023, the Authority entered into a 20-year PPA with Luna Valley Solar I, LLC to purchase certain renewable energy and associated environmental attributes from a 2 MW photovoltaic solar facility in Fresno County. The sole participating customer for this project is the Westlands Water District. The expected COD is September 1, 2025.

Before the Authority entered the long-term agreements, it had received executed rate agreements from the Authority’s participating customers that will be allocated output from each respective solar facility. Each rate agreement obligates the participating customers on a “take-or-pay” basis for all costs associated with the Authority’s generation entitlement share of facility output.

Notes to Financial Statements

Renewable Portfolio Standard (RPS):

In April 2011, Senate Bill X1 2, the California Renewable Energy Resources Act, was signed into law and set a Renewable Portfolio Standard (RPS) target for publicly owned electric utilities (POUs). The Authority's Board of Directors adopted policies for implementing the RPS requirements including establishing a renewable energy resources procurement plan. Accordingly, the Authority will procure a minimum quantity of electricity products from eligible renewable energy resources, including renewable energy certificates (RECs), as a specified percentage of total kilowatt hours actually sold to the Authority's retail end use customers. On April 2, 2014, the Authority established an RPS Cost of Compliance Rule (Compliance Rule). Pursuant to the Compliance Rule the Authority assigns each Project Participant its respective RPS compliance obligation and cost, routinely evaluates the Authority's RPS position relative to the compliance target, sets rates to cover costs, and deposits collected amounts into the P3-RPS Compliance Account. In September 2018, Senate Bill 100 ("SB 100") was signed into law and made several substantive changes to the California publicly owned electric utilities including: (a) increasing the procurement target to 60% of retail sales by 2030; (b) permitting the banking of renewable resource contracts of any duration for use in future compliance periods; and (c) requiring that at least 65% of the RECs used in any compliance period are from either owned resources or contracts at least 10 years in duration. SB 100 provides for a reduction of an annual RPS requirement if, during a year within a compliance period, a POU receives more than 40 percent of its retail sales from the CVP's large hydroelectric generation. Lastly, SB 100 sets forth California's policy that eligible renewable energy resources and zero-carbon resources should supply 100% of all retail electricity sales to California end-use customers by December 2045.

Service agreements:

ACES provides power scheduling and coordinating services to the Authority. The agreement expired December 31, 2023 with additional one year terms available until terminated by either party. The annual fee for the year ended December 31, 2024 is \$395,000 and will increase 4% annually beginning January 1, 2025. The Authority paid \$300,000 to ACES for the years ended December 31, 2023 and 2022.

The Authority executed a fixed fee agreement with Robertson-Bryan, Inc. ("RBI") to provide operations and management services for a one-year term ending January 16, 2024, for a monthly amount of \$51,013 plus expenses. The agreement was extended through January 2027. The annual fee will be \$636,636 to be paid in monthly installments of \$53,053. The fixed fee will have an annual escalation of 3% plus expenses. The Authority paid \$821,110 and \$793,273 to RBI for these services during the years ended December 31, 2023 and 2022, respectively.

Future annual payments are as follows in equal monthly installments:

<u><i>Year Ending December 31,</i></u>	
2024	\$ 636,636
2025	655,735
2026	675,407
2027	695,669
	<u>\$ 2,663,447</u>

Notes to Financial Statements

The Authority extended its Alternative Fee Agreement with Cameron-Daniel, P.C., to provide deputy general manager services (general manager and general counsel) for a term ending on October 31, 2025. The monthly fee is \$36,650, plus expenses. The monthly fee is reviewed annually and subject to increases at the discretion of the Authority. The Authority paid \$450,239 and \$477,179 for the general manager services during the years ended December 31, 2023 and 2022, respectively.

Note 9. *Litigation*

In September 2020, the Authority intervened in FERC docket No. ER20-2878-000 through which PG&E sought to increase the rates paid by WAPA, PWRPA, and other entities for distribution service under the Wholesale Distribution Tariff (“WDT”). The Commission accepted PG&E’s filing that included a proposed formula rate, a substantially increased 2021 distribution revenue requirement (“DRR”) and revisions to WDT service agreements with WAPA and PWRPA.

As a result of negotiations between the parties, a First Partial Settlement was granted that deferred the effective date for rates initially filed in the proceeding and implemented new lower interim rates beginning June 1, 2021. On December 1, 2021, PG&E filed its first Annual Update for Rate Year 2022 revising the DRR, Distribution Rates, Cost of Ownership rates, and Customer Service Charges using the Formula Rate Model as revised pursuant to the First Partial Settlement.

A Second Partial Settlement was approved by the Commission on June 2, 2022, and resolved some, but not all, of the contested issues in the proceeding. Among other things, the Second Partial Settlement included an allocated DRR credit over the 4-year period of the WDT Formula Rate. The DRR credit is \$3.5 million in each of 2021 and 2022, \$2 million in 2023, and \$1 million in 2024. The Second Partial Settlement also allows extended periods of non-usage for agricultural delivery points which, to avoid termination, have the option of entering into a long-term agreement to pay a minimum monthly charge for each month of non-usage. On December 1, 2022, PG&E filed its first Annual Update for Rate Year 2023 revising the DRR, Distribution Rates, Cost of Ownership rates, and Customer Service Charges using the Formula Rate Model as revised pursuant to the Second Partial Settlement.

In late 2022, ER20-2878 was consolidated with a similar PG&E proceeding at FERC and a trial-type hearing was scheduled under docket ER22-619. The hearing commenced on March 9, 2023, and ended on March 13, 2023. In August 2023, PG&E filed an Unopposed Joint Motion to Hold Proceeding in Abeyance in order to facilitate the conclusion of settlement negotiations that were occurring among the parties. The judge granted the motion and the Authority, together with other parties, continued the negotiations on several important issues. The chief being the parties’ request that, during the term of the new WDT Service Agreement, PG&E will continue to provide secondary voltage service to WAPA and its customers, including the right of WAPA to change, modify or add Points of Delivery at secondary voltages. The proceeding is held in abeyance into 2024 as the parties continued the settlement negotiations.

On December 1, 2022, PG&E filed its Annual Update for Rate Year 2024 revising the DRR, Distribution Rates, Cost of Ownership rates, and Customer Service Charges using the Formula Rate Model.

Notes to Financial Statements

Note 10. Contingencies

Self-insurance:

The Authority is a member of the Special District Risk Management Authority (SDRMA), an intergovernmental risk sharing joint powers authority. SDRMA bills each member a deposit premium at the beginning of each policy year, which is placed in a reserve fund to cover the self-insurance portion of any claim. Settlements and/or expenses related to claims during the year are charged against the reserve. If the balance of the reserve at the end of the year is deemed too low in relation to the amount of outstanding claims, the Authority is billed for additional premiums. When the claims are fully settled, any amounts remaining in the reserve are refunded to the Authority. During the current year, there were no significant reductions in coverage.

Draft

Supplementary Information

Draft

Power and Water Resources Pooling Authority

***Schedules of Revenues and Operating Expenses
For Years Ended December 31, 2023 and 2022***

	<u>2023</u>	<u>2022</u>
<i>Revenues:</i>		
Service charges	\$ 42,255,641	\$ 77,930,011
<i>Operating Expenses:</i>		
<i>Power:</i>		
Power - base resource	\$ 3,517,054	\$ 4,485,527
Power - base restoration	634,405	1,064,872
Power - supplemental	5,422,303	30,567,189
Power - LEC	534,634	2,182,915
Power - renewable energy	4,270,025	2,945,503
Power - energy surcharges	87,784	142,686
	<u>\$ 14,466,205</u>	<u>\$ 41,388,692</u>
<i>Transmission and distribution</i>	<u>\$ 22,204,536</u>	<u>\$ 32,480,566</u>
<i>CAISO</i>	<u>\$ 270,222</u>	<u>\$ 2,011,048</u>
<i>Scheduling and coordinating</i>	<u>\$ 497,050</u>	<u>\$ 496,349</u>
<i>Metering</i>	<u>\$ 592,839</u>	<u>\$ 637,216</u>

	<u>2023</u>	<u>2022</u>
<i>Prior year power cost adjustments:</i>		
Reconciliation refund to participants	\$ 1,482,395	\$ 4,036,910
Miscellaneous prior year	446,141	(405,846)
	<u>\$ 1,928,536</u>	<u>\$ 3,631,064</u>
<i>General and administrative:</i>		
Dues and subscriptions	\$ 1,975	\$ 1,881
Insurance	22,312	22,691
Depreciation	11,831	11,831
Travel and entertainment	1,464	1,997
Licenses and fees	419	-
Office expenses	9,547	3,904
Professional fees	1,278,837	1,278,555
	<u>\$ 1,326,385</u>	<u>\$ 1,320,859</u>

Power and Water Resources Pooling Authority

*Schedule of Insurance Coverage
December 31, 2023*

General and auto liability, public officials' and employees' errors and omissions and employment practices liability:

Liability (\$500 deductible for 3rd party general liability property damage; \$1,000 deductible per occurrence for 3rd party auto liability property damage) \$ 2,500,000
(per occurrence)

Property loss:

Blanket coverage (\$1,000 deductible per occurrence) \$1,000,000,000
(per occurrence)

Employee dishonesty coverage:

Public employee dishonesty, forgery or alteration and theft, disappearance and destruction \$ 1,000,000
(per loss)

Boiler and machinery:

Blanket coverage (\$1,000 deductible per occurrence) \$ 100,000,000
(per occurrence)

Public officials' personal liability:

Annual aggregate of \$500,000 per each elected/appointed official, subject to terms, conditions and exclusions (\$1,000 deductible per claim) \$ 500,000
(per occurrence)

**Power & Water Resources Pooling
Authority**

Regular Agenda • Item 5.B

1. Treasurer's Report.



POWER AND WATER RESOURCES POOLING AUTHORITY

DISBURSEMENT LIST

May 2024

Check #	Vendor-name	Payment-description	Check-amount
3541	Advanced Data Storage	Document Storage - May 2024	\$ 44.50
3542	Arvin-Edison Water Storage District	Treasurer's Duties	8,642.25
3543	Barbich Hooper King	Audit Services	9,550.00
3544	Braun Blaising & Wynne, P.C.	Legal Services - April 2024	451.71
3545	Michael McCarty Law Office PLLC	Consultant	3,000.00
3546	Robertson Bryan Inc.	Consultant	66,723.23
3547	Banta-Carbona Irrigation District	Cap & Trade	635,001.49
3548	Banta-Carbona Irrigation District	Approved P-3 Project	194,063.02
3549	Glenn-Colusa Irrigation District	Approved P-3 Project	33,191.63
3550	RD 108	Approved P-3 Project	13,174.19
3551	Zone 7	Approved P-3 Project	76,894.14
Sub-Total			<u>\$ 1,040,736.16</u>
Wire Transfers:			
Wire	Cameron-Daniel, P.C.	General Manager/General Council	\$ 38,401.66
Wire	Holland & Knight	FERC Wholesale Distribution Filing Legal Fees	765.45
Total			<u><u>\$ 1,079,903.27</u></u>

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

CASH ACTIVITY:

BALANCE MARCH 31, 2024 \$ 21,376,878.91

Increases:

Power Billing Invoices	\$ 1,895,862.18	
NCPA - LEC	73,280.00	
CAISO	47,287.60	
TCB - Monthly Interest	26,955.72	
State of California	5,596.00	
APX - Astoria Solar	1,038.92	
		2,050,020.42

Decreases:

CAISO	367,746.50	
NCPA - LEC GHG Allowance Auction Deposit	250,275.00	
WAPA - Power March 2024	200,301.20	
WAPA O&M	142,541.00	
NextEra Whitney Point Solar - March 2024	134,323.88	
Canadian Solar - Astoria Solar - March 2024	119,193.24	
Robertson-Bryan, Inc	66,269.98	
PG&E - GCID, RD 108, SCVWD, Zone 7	50,460.42	
WAPA - Restoration March 2024	48,464.34	
Trimark - Cell, Meter Reading and T&M March 2024	48,354.37	
Cameron-Daniel, P.C.	36,778.16	
Aces - April 2024	32,916.67	
Arvin-Edison Water Storage District-Treasurer	13,387.72	
California Dept of Tax and Fee - Energy Surcharge	8,649.00	
RD 108 - REC Purchase	6,465.00	
Zone 7 - REC Purchase	6,010.00	
GL Renewables	4,416.23	
Michael McCarty Law Office, PLLC	3,000.00	
Holland and Knight	2,757.13	
White Pines Solar Santa Clara WD - March 2024	2,630.63	
Banta Carbona I.D. - Board Lunches	853.98	
Wregis	532.31	
Barbich Hooper King - 2023 Financial Audit	525.00	
Bank Fees	500.00	
Braun Blaising & Wynne, P.C.	495.87	
Johnston Farms - REC Purchase	212.30	
Advanced Data Storage	44.50	
Central Valley Ag Partners - REC Purchase	25.75	
		1,548,130.18

BALANCE APRIL 30, 2024 \$ 21,878,769.15

TREASURERS REPORT:

Operating Account:

Tri Counties Bank - General Operating Account #1031821, yield 5.004% \$ 7,088,608.65

Local Agency Investment Fund (LAIF) - Account # 90-39007, yield 4.36%

Reserve Funds	\$ 4,762,990.45	
Cap & Trade Allowance Revenue	4,016,309.17	8,779,299.62

California Asset Management Program (CAMP) #6218-001, yield 5.44%

Funds on Deposit	\$ 2,010,860.88	
Cap & Trade Allowance Revenue	4,000,000.00	6,010,860.88

TOTAL PWRPA FUNDS - APRIL 30, 2024 \$ 21,878,769.15

Public Purpose Program (P-3) Tri Counties Bank Account #1031856, yield 5.004% 3,297,409.36

TOTAL FUNDS ON DEPOSIT WITH PWRPA - APRIL 30, 2024 \$ 25,176,178.51

CAISO Collateral Deposit Account 2,309,468.04

Western Area Power Administration - PWRPA Trust Account 1,000.00

TOTAL FUNDS - PWRPA & OTHER AGENCIES - APRIL 30, 2024 \$ 27,486,646.55

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	127,894.17
RD108	60,000.00	West Side ID	57,887.44
Santa Clara	565,798.94	Zone 7	28,012.40

Total	\$ 2,010,860.88
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Power and Water Resources Pooling Authority
P-3 Remaining Funds By Year
as of April 30, 2024

Member Agency	2020	2021	2022	2023	2024	Total Available P-3 Funds (f)	Expenditures	
	(a)	(b)	(c)	(d)	(e)		Total to Date (g)	April-24 (h)
Arvin-Edison WSD	\$0.00	\$0.00	\$0.00	\$363,832.60	\$35,097.37	\$398,929.97	\$5,570,834.85	\$0.00
Banta Carbona ID	28,418.11	49,489.90	69,174.18	46,980.83	7,635.83	201,698.85	404,708.20	0.00
Byron-Bethany ID	0.00	0.00	0.00	8,141.09	1,644.00	9,785.09	171,290.66	0.00
Cawelo WD	0.00	0.00	4,271.92	77,807.64	3,911.20	85,990.76	962,841.11	0.00
Glenn-Colusa ID	23,300.11	32,132.77	16,890.62	37,269.19	2,860.84	112,453.53	348,863.79	0.00
James ID	10,457.51	15,685.23	21,738.73	7,617.89	1,466.49	56,965.85	130,969.96	0.00
Lower Tule ID	0.00	0.00	34,283.20	42,122.57	4,470.14	80,875.91	331,806.44	0.00
Princeton ID	0.00	0.00	0.00	16,001.17	1,044.82	17,045.99	177,976.09	0.00
RD 108	13,564.87	16,362.76	12,132.54	13,840.26	1,318.80	57,219.23	213,468.71	0.00
Santa Clara Valley WD	0.00	0.00	0.00	54,969.15	15,742.64	70,711.79	901,682.87	0.00
Sonoma County WA	99,654.97	109,040.76	150,507.89	120,836.42	21,030.64	501,070.68	1,490,752.21	0.00
West Stanislaus ID	0.00	0.00	58,050.32	40,541.61	4,084.81	102,676.74	496,284.30	0.00
Westlands WD	0.00	102,451.51	1,100,668.62	243,316.28	38,668.59	1,485,105.00	5,531,125.34	0.00
Zone 7	9,318.79	25,493.12	42,082.23	35,062.39	4,816.38	116,772.91	71,833.02	0.00
Undesignated/Forfeited/Misc	0.00	0.00	0.00	0.00	0.00	107.06	35,133.04	0.00
Total	\$184,714.36	\$350,656.05	\$1,509,800.25	\$1,108,339.09	\$143,792.55	\$3,297,409.36	\$16,839,570.59	\$0.00
Exclusive access Date	08/03/24	08/02/25	08/01/26					

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

Power and Water Resources Pooling Authority
 Cap and Trade Allowance Revenue
 Pursuant to Resolution 13-04-05 and Resolution 21-11-14
 As of April 30, 2024

District	Resolution 13-04-05		Resolution 21-11-14				Total Revenue	Expenditures	Balance
	Allocation	Revenue	2021	2022	2023	2024			
Arvin-Edison	37.478%	\$3,421,905.95	\$208,146.78	\$831,876.00	\$855,689.42	\$263,538.75	\$5,581,156.90	\$3,921,905.95	\$1,659,250.95
Banta-Carbona	3.115%	284,413.18	33,717.30	132,634.85	145,589.41	38,646.75	635,001.49	0.00	635,001.49
Byron-Bethany	0.708%	64,643.51	5,278.35	20,240.47	20,602.13	5,958.07	116,722.53	110,764.46	5,958.07 (a)
Cawelo	8.447%	771,248.19	32,760.55	115,918.41	94,183.35	30,868.99	1,044,979.49	1,014,110.50	30,868.99
Glenn-Colusa	2.849%	260,126.21	23,174.67	86,307.16	74,702.20	21,644.25	465,954.49	444,310.24	21,644.25 (b)
James	0.798%	72,860.90	5,746.23	23,359.47	28,943.78	7,241.06	138,151.44	0.00	138,151.44
Lower Tule	1.005%	91,760.91	20,089.23	76,569.91	67,661.73	20,588.39	276,670.17	256,081.78	20,588.39
Princeton	1.334%	121,800.06	7,684.74	25,968.74	20,055.39	6,026.47	181,535.40	97,711.01	83,824.39
RD 108	1.368%	124,904.41	10,013.47	35,342.29	29,148.43	7,757.59	207,166.19	199,408.60	7,757.59 (a)
Santa Clara	4.853%	443,100.21	45,211.76	169,068.24	166,942.93	49,473.70	873,796.84	726,222.17	147,574.67
Sonoma	7.787%	710,987.29	71,470.54	275,734.34	277,421.66	79,962.97	1,415,576.80	196,000.00	1,219,576.80
West Stan	3.228%	294,730.57	31,345.36	119,698.69	134,401.03	37,248.00	617,423.65	150,789.15	466,634.50
Westlands	27.030%	2,467,957.68	202,357.42	796,569.54	1,084,844.98	291,472.56	4,843,202.18	1,390,020.55	3,453,181.63
Zone 7	0.000%	0.00	9,503.60	46,016.34	54,243.62	16,532.45	126,296.01	0.00	126,296.01
Total	100.000%	\$9,130,439.07	\$706,500.00	\$2,755,304.45	\$3,054,430.06	\$876,960.00	\$16,523,633.58	\$ 8,507,324.41	\$ 8,016,309.17

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

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

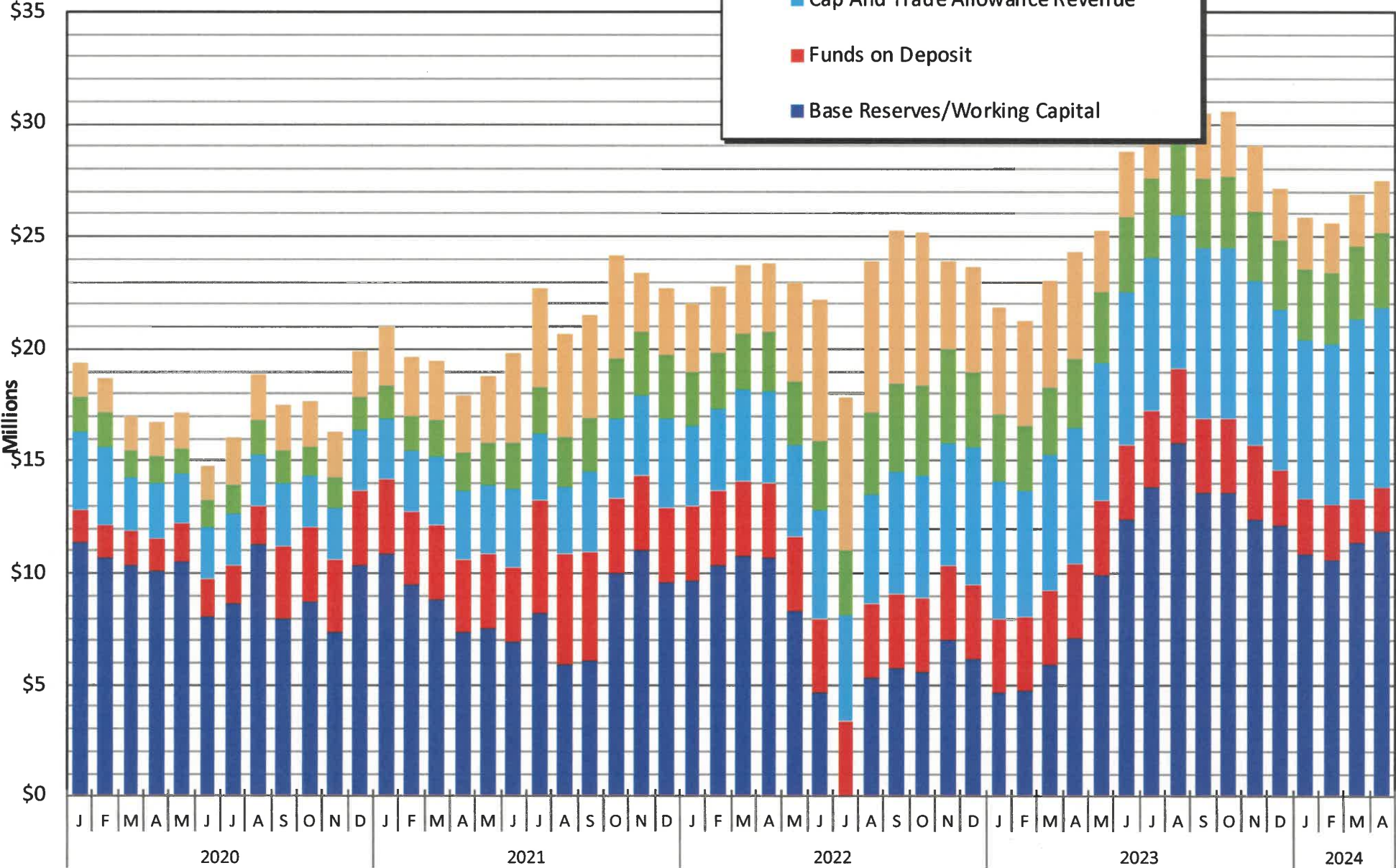
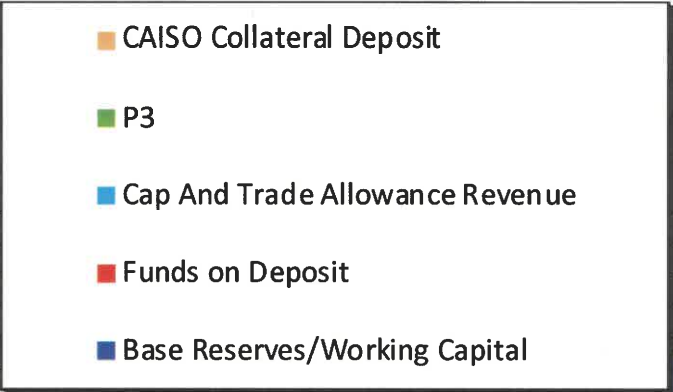
District	Exhibit B Allocation			
	2021	2022	2023	2024
Arvin	29.4617%	30.1918%	28.0147%	30.0514%
Banta Carbona	4.7724%	4.8138%	4.7665%	4.4069%
Byron Bethany	0.7471%	0.7346%	0.6745%	0.6794%
Cawelo	4.6370%	4.2071%	3.0835%	3.5200%
Glenn-Colusa	3.2802%	3.1324%	2.4457%	2.4681%
James	0.8133%	0.8478%	0.9476%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

Sale of Freely Allocated Allowances

Year	March	June	September	December	Total
2012				\$ 216,935.00	\$ 216,935.00
2013	136,200.00			370,080.76	506,280.76
2014		379,500.00	184,000.00	192,511.00	756,011.00
2015	195,360.00	196,640.00	200,320.00	212,934.71	805,254.71
2016	212,158.18	89,530.09	249,317.05	296,303.48	847,308.80
2017	115,168.59	371,399.40	265,500.00	260,748.84	1,012,816.83
2018	262,980.00	263,700.00	258,408.50	264,250.60	1,049,339.10
2019	283,140.00		446,160.00	461,227.00	1,190,527.00
2020	321,660.00		500,400.00	415,783.87	1,237,843.87
2021	445,000.00	480,622.00	582,500.00	706,500.00	2,214,622.00
2022	583,000.00	827,304.45	675,000.00	670,000.00	2,755,304.45
2023	501,300.00	758,250.00	880,000.00	914,880.06	3,054,430.06
2024	876,960.00	-	-	-	876,960.00
				Total	\$ 16,523,633.58

Resolution 13-04-05	\$9,130,439.07
Resolution 21-11-14	7,393,194.51
	<u>\$16,523,633.58</u>

SUMMARY TREASURER REPORT



POWER & WATER RESOURCES POOLING AUTHORITY

WIRE TRANSFERS

April 1 - 30, 2024

Transaction Number	Beneficiary Name	Credit Amount	Value Date
221098	ACES Power Marketing	\$32,916.67	4/3/2024
221099	Cameron-Daniel, P.C.	\$36,778.16	4/3/2024
221100	Holland & Knight	\$2,757.13	4/3/2024
221667	CAISO Market Clearing	\$1,775.99	4/8/2024
221668	Pacific Gas and Electric	\$48,654.91	4/8/2024
222635	WAPA O M	\$142,541.00	4/15/2024
222636	Western Area Power Administration	\$48,464.34	4/15/2024
222637	CAISO Market Clearing	\$40,087.98	4/15/2024
222638	Garlock Energy, LLC	\$2,630.63	4/15/2024
222639	Pacific Gas and Electric	\$1,805.51	4/15/2024
222640	WREGIS	\$532.31	4/15/2024
222646	APX, Inc.	\$447.88	4/15/2024
223574	CAISO Market Clearing	\$325,882.53	4/22/2024
223575	GL Renewables, LLC	\$4,416.23	4/22/2024
223576	APX, Inc.	\$112.22	4/22/2024
224415	Western Area Power Administration	\$200,301.20	4/29/2024
224416	Trimark Associates, Inc.	\$48,354.37	4/29/2024
224417	Astoria 2 Operating	\$119,193.24	4/29/2024
224418	Whitney Point Solar LLC	\$134,323.88	4/29/2024
224419	Northern California Power Agency	\$250,275.00	4/29/2024
Total		1,442,251.18	

**Power & Water Resources Pooling
Authority**

Regular Agenda • Item 6.B

1. Operations Manager Report.

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

Possible Action

n/a

Operations Staff Overview

1. June planned activity
 - a) Task team participation
 - b) REC purchase, forward power evaluation
 - c) 2023 reconciliation prep
2. May recap
 - a) REC procurement coord.
 - b) LTRID Hydro repairs coord.
 - c) DSGS participant signup

Operations Report:

1. Pre-Reconciliation
 - a) Actual data for Jan-Apr, May-December estimates.

Table 1: 2024 Cash Flow

Cashflow Summary: January - December 2024							
Participant	Power Invoice	Power & Ops Costs	P3	Direct Consulting + Prior Period	Change in Reserve Estimate	Total Costs	Over/(Under) Funded
Arvin-Edison	\$ 12,281,676	\$ 11,349,150	\$ 323,451	\$ 10,541	\$ 79,341	\$ 11,762,482	\$ 519,194
Banta-Carbona	\$ 1,792,588	\$ 1,823,604	\$ 51,973	\$ 1,630	\$ (9,680)	\$ 1,867,527	\$ (74,939)
Byron-Bethany	\$ 385,367	\$ 398,628	\$ 11,361	\$ (5,680)	\$ (223)	\$ 404,085	\$ (18,718)
Cawelo	\$ 2,206,272	\$ 2,107,283	\$ 60,058	\$ 1,943	\$ (3,560)	\$ 2,165,724	\$ 40,548
Glenn-Colusa	\$ 1,203,850	\$ 1,177,928	\$ 33,571	\$ (20,418)	\$ (6,037)	\$ 1,185,044	\$ 18,807
James	\$ 452,898	\$ 417,005	\$ 11,885	\$ 287	\$ (139)	\$ 429,038	\$ 23,860
Lower Tule	\$ 1,203,489	\$ 1,097,744	\$ 31,286	\$ 1,030	\$ (11,451)	\$ 1,118,609	\$ 84,880
Princeton	\$ 523,840	\$ 533,610	\$ 15,208	\$ 468	\$ 2,569	\$ 551,855	\$ (28,015)
RD108	\$ 448,230	\$ 431,684	\$ 12,303	\$ (7,336)	\$ (14,879)	\$ 421,772	\$ 26,458
Santa Clara	\$ 2,741,941	\$ 2,588,750	\$ 73,779	\$ 8,568	\$ (23,353)	\$ 2,647,744	\$ 94,197
Sonoma	\$ 3,947,959	\$ 3,465,687	\$ 98,772	\$ 3,383	\$ (30,047)	\$ 3,537,795	\$ 410,163
West Stan	\$ 1,445,874	\$ 1,330,983	\$ 37,933	\$ 1,322	\$ (19,510)	\$ 1,350,728	\$ 95,145
Westlands	\$ 10,580,348	\$ 9,921,607	\$ 282,766	\$ 5,551	\$ 53,273	\$ 10,263,197	\$ 317,151
Zone 7	\$ 1,045,982	\$ 894,547	\$ 25,495	\$ 2,258	\$ (16,303)	\$ 905,997	\$ 139,986
PWRPA	\$ 40,260,314	\$ 37,538,211	\$ 1,069,839	\$ 3,546	\$ (0)	\$ 38,611,597	\$ 1,648,717

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

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

Table 2: 2024 Cost of Service

Cost of Service Summary: January - December 2024					
Participant	Metered Energy (kWh)	Power & Ops Costs	Cap & Trade Revenue	Net Cost of Service	Composite Rate, (cent/kWh)
Arvin-Edison	103,689,915	\$ 11,349,150	\$ (263,539)	\$ 11,085,611	\$ 10.69
Banta-Carbona	16,180,559	\$ 1,823,604	\$ (38,647)	\$ 1,784,958	\$ 11.03
Byron-Bethany	2,698,968	\$ 398,628	\$ (5,958)	\$ 392,670	\$ 14.55
Cawelo	18,256,344	\$ 2,107,283	\$ (30,869)	\$ 2,076,414	\$ 11.37
Glenn-Colusa	11,267,430	\$ 1,177,928	\$ (21,644)	\$ 1,156,284	\$ 10.26
James	2,954,403	\$ 417,005	\$ (7,241)	\$ 409,764	\$ 13.87
Lower Tule	9,782,058	\$ 1,097,744	\$ (20,588)	\$ 1,077,156	\$ 11.01
Princeton	4,224,421	\$ 533,610	\$ (6,026)	\$ 527,584	\$ 12.49
RD108	2,921,979	\$ 431,684	\$ (7,758)	\$ 423,926	\$ 14.51
Santa Clara	20,504,616	\$ 2,588,750	\$ (49,474)	\$ 2,539,276	\$ 12.38
Sonoma	33,047,435	\$ 3,465,687	\$ (79,963)	\$ 3,385,724	\$ 10.25
West Stan	13,407,887	\$ 1,330,983	\$ (37,248)	\$ 1,293,735	\$ 9.65
Westlands	66,368,919	\$ 9,921,607	\$ (291,473)	\$ 9,630,135	\$ 14.51
Zone 7	6,483,193	\$ 894,547	\$ (16,532)	\$ 878,014	\$ 13.54
TOTAL	311,788,128	\$ 37,538,211	\$ (876,960)	\$ 36,661,251	\$ 11.76

2. April operations
 - a) Energy is 7 percent below budget
 - b) Load averaged 26MW, 9MW above last month
 - c) Average schedule deviation of 4MW for an estimated credit of 6000.
3. Pricing
 - a) Average monthly prices:

Table 3: Average monthly cost and ISO revenue rates

	Cost	Revenue
BR	\$ 17.89	\$ (25.33)
Displacement	\$ 17.89	\$ (17.94)
WWD BOR	\$ -	\$ (24.02)
Whitney Point	\$ 58.75	\$ (14.48)
Astoria	\$ 63.00	\$ (0.30)
Slate	\$ 26.81	\$ (12.37)
*Lodi	\$ 1,235.27	\$ (65.74)
Market		

**Lodi is energy only (no debt)*

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

Generator Reports

In March-April, LMPs have been significantly negative

- In March-April 2024, total Solar/Battery unit curtailments totaled 10,588 MWhs compared to 3,431 in 2023
- In March-April 2024, 51.3% of solar hour LMPs were negative whereas 41.2% of solar hours were negative in 2023

1. Astoria Solar

a) Generation

- 1,110 MWh, 15% capacity factor
- Net cost \$69,000 or \$62 /MWh
- Higher negative pricing than last year

Table 4: Astoria pricing summary

April 2024 - Pricing Analysis, Rates in \$/MWh		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	1,589	1,980
	Total MWh	732	1,531
	Average LMP	\$ (20.10)	\$ (15.12)
	Maximum LMP	\$ (0.00)	\$ (0.00)
	Minimum LMP	\$ (131.64)	\$ (166.09)
Positively Priced Intervals (5min) w/ Generation	Count	1,323	2,633
	Total MWh	377	1,438
	Average LMP	\$ 24.77	\$ 34.61
	Maximum LMP	\$ 142.28	\$ 685.18
	Minimum LMP	\$ 0.01	\$ 0.00

2. Whitney Point Solar

a) Generation

- 1,064 MWh, 13% capacity factor
- Net cost \$79,000, or \$74 /MWh
- Negative Pricing:

Table 5: Whitney Point pricing summary

April 2024 - Pricing Analysis, Rates in \$/MWh		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	1,589	1,980
	Total MWh	732	1,531
	Average LMP	\$ (20.10)	\$ (15.12)
	Maximum LMP	\$ (0.00)	\$ (0.00)
	Minimum LMP	\$ (131.64)	\$ (166.09)
Positively Priced Intervals (5min) w/ Generation	Count	1,323	2,633
	Total MWh	377	1,438
	Average LMP	\$ 24.77	\$ 34.61
	Maximum LMP	\$ 142.28	\$ 685.18
	Minimum LMP	\$ 0.01	\$ 0.00

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

- 3. Slate Solar + Battery
 - a) Generation
 - 4,662 MWh, 25% capacity factor
 - Net credit of \$304,000, or \$65 /MWh
 - Pricing review:

Table 6: Slate pricing summary

April 2024 - Pricing Analysis, Rates in \$/MWh		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	2,259	2,650
	Total MWh	2,321	3,215
	Average LMP	\$ (28.14)	\$ (15.26)
	Maximum LMP	\$ (0.10)	\$ (0.10)
	Minimum LMP	\$ (66.10)	\$ (80.00)
Positively Priced Intervals (5min) w/ Generation	Count	2,752	2,703
	Total MWh	2,344	2,603
	Average LMP	\$ 34.04	\$ 49.99
	Maximum LMP	\$ 249.60	\$ 614.10
	Minimum LMP	\$ 0.10	\$ 0.10

- 4. Lodi Energy Center
 - Offline, normal monthly maintenance

Power Planning & Regulatory

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

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

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

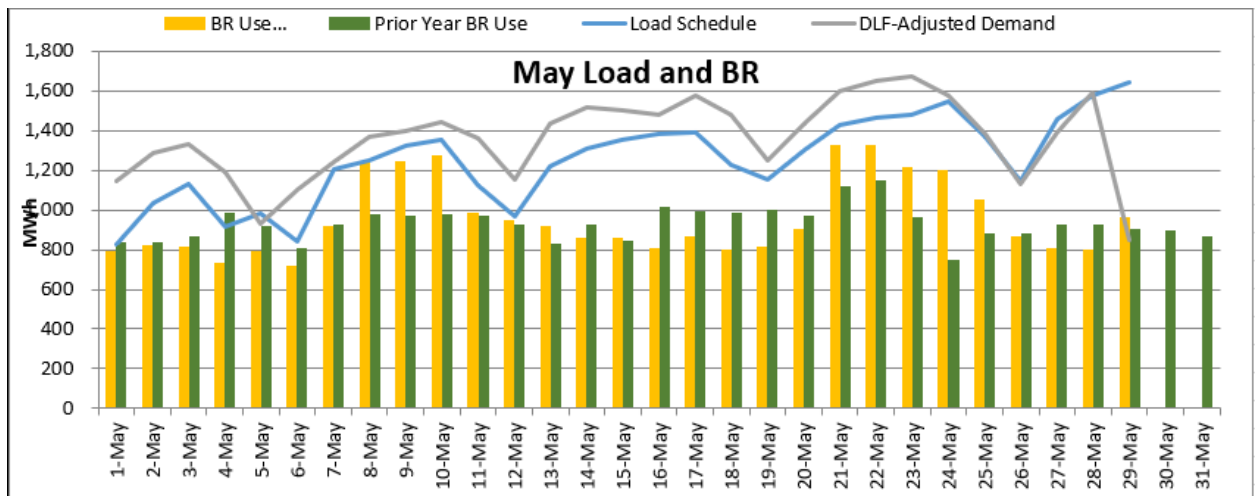
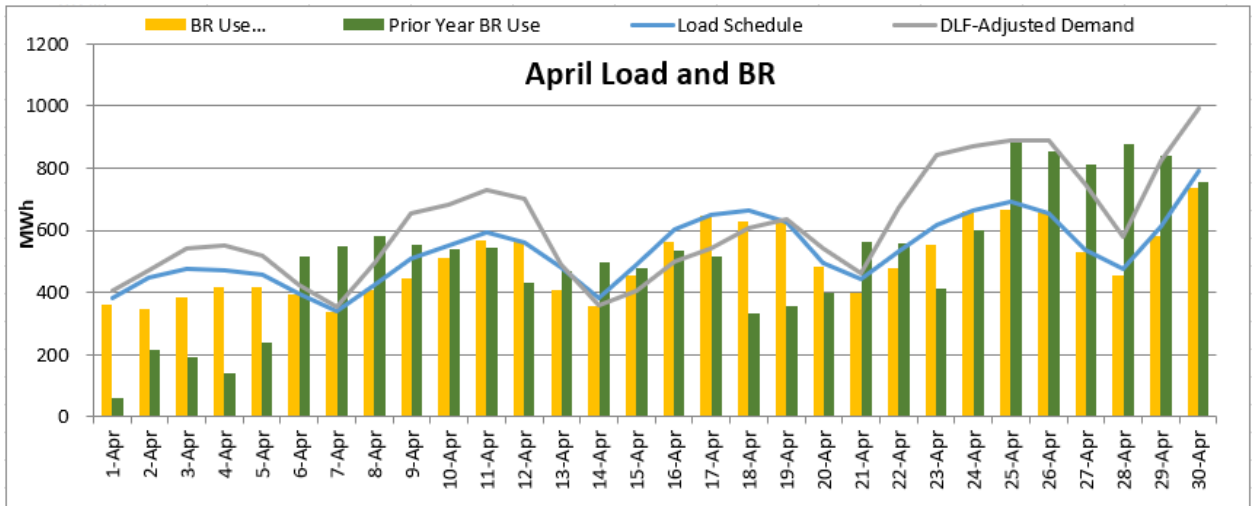
ON-PEAK	On Peak												5/2/2024 Forward Mkt	Change from last NSP	
	Demand, MW			Resources, MW			Net Long/(Short), MW			RMP	Net (Short)/Long based on RMP				
	Wet	Average	Dry	Wet	Average	Dry	Wet	Average	Dry		Wet	Average			Dry
5/1/2024	45.4	70.2	91.0	63.5	74.3	69.6	18.1	4.1	(21.4)	100%	18.1	4.1	(21.4)	\$ 17.68	\$ (7.70)
6/1/2024	60.4	77.8	95.2	59.5	58.8	61.6	(0.9)	(19.0)	(33.6)	100%	(0.9)	(19.0)	(33.6)	\$ 29.25	\$ (5.38)
7/1/2024	59.3	74.0	83.9	69.3	73.0	78.5	10.0	(0.9)	(5.4)	90%	15.9	6.5	3.0	\$ 52.75	\$ (7.45)
8/1/2024	52.1	64.3	71.8	74.8	69.0	71.5	22.8	4.7	(0.2)	90%	28.0	11.1	6.9	\$ 69.37	\$ (12.50)
9/1/2024	39.4	48.5	55.1	65.6	51.8	55.0	26.2	3.3	(0.2)	70%	38.0	17.8	16.4	\$ 59.85	\$ (13.15)
10/1/2024	31.5	40.1	48.3	59.3	37.7	36.8	27.7	(2.3)	(11.5)	70%	37.2	9.7	3.0	\$ 53.21	\$ (2.56)
11/1/2024	20.8	26.8	25.1	68.1	22.5	24.3	47.3	(4.3)	(0.8)	70%	53.5	3.7	6.8	\$ 61.99	\$ (1.06)
12/1/2024	12.7	13.6	16.1	70.1	22.0	14.6	57.4	8.4	(1.5)	50%	63.8	15.2	6.5	\$ 88.01	\$ (3.46)
1/1/2025	15.6	16.5	17.5	63.6	20.4	20.4	48.1	4.0	2.9	50%	55.9	12.2	11.7	\$ 93.74	\$ (3.29)
2/1/2025	21.9	29.5	32.5	60.9	34.9	34.3	39.0	5.3	1.9	50%	50.0	20.1	18.1	\$ 69.16	\$ 5.24
3/1/2025	25.3	33.4	43.1	61.0	63.7	42.1	35.8	30.3	(1.0)	50%	48.4	47.0	20.5	\$ 40.71	\$ (3.79)
4/1/2025	38.9	57.9	72.2	57.7	71.3	71.3	18.7	13.4	(0.9)	50%	38.2	42.3	35.2	\$ 33.67	\$ (5.48)
5/1/2025	50.0	79.9	100.1	84.1	77.4	66.6	34.1	(2.5)	(33.5)	50%	59.1	37.5	16.5	\$ 32.07	\$ (5.00)
6/1/2025	63.3	87.6	106.3	74.9	69.8	67.7	11.6	(17.8)	(38.7)	50%	43.2	26.0	14.5	\$ 41.82	\$ (5.55)
7/1/2025	60.2	79.8	96.7	86.7	81.3	82.0	26.5	1.5	(14.7)	50%	56.6	41.4	33.7	\$ 63.22	\$ (10.37)
8/1/2025	51.5	67.3	81.3	82.5	75.6	74.6	31.0	8.3	(6.7)	50%	56.7	42.0	33.9	\$ 80.82	\$ (10.46)
9/1/2025	38.0	51.1	64.4	75.7	61.7	52.6	37.7	10.6	(11.8)	30%	64.3	46.4	33.3	\$ 69.19	\$ (10.15)
10/1/2025	30.8	43.2	55.4	44.9	40.9	38.4	14.1	(2.3)	(17.0)	30%	35.6	28.0	21.8	\$ 55.45	\$ (1.92)
11/1/2025	19.2	23.3	25.8	37.2	32.2	30.6	18.0	8.9	4.8	30%	31.4	25.2	22.8	\$ 68.20	\$ 5.90
12/1/2025	12.2	14.0	16.2	54.7	34.2	17.1	42.5	20.2	0.9	30%	51.0	30.0	12.2	\$ 100.02	\$ 4.46

Off-Peak	Off Peak												5/2/2024 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
5/1/2024	35.8	54.1	69.0	44.1	54.9	50.2	8.2	0.8	(18.8)	100%	8.2	0.8	(18.8)	\$ 23.90	\$ (4.30)
6/1/2024	50.7	64.5	78.2	52.2	51.2	55.2	1.5	(13.3)	(23.0)	100%	1.5	(13.3)	(23.0)	\$ 25.18	\$ (8.50)
7/1/2024	53.0	65.2	72.7	48.0	51.9	57.6	(5.0)	(13.3)	(15.1)	90%	0.3	(6.7)	(7.8)	\$ 42.01	\$ (5.99)
8/1/2024	46.2	55.9	61.5	40.9	36.4	38.4	(5.3)	(19.6)	(23.2)	90%	(0.7)	(14.0)	(17.0)	\$ 51.01	\$ (6.79)
9/1/2024	34.8	42.0	46.6	41.8	30.4	33.0	7.0	(11.6)	(13.6)	70%	17.4	1.0	0.4	\$ 49.50	\$ (7.40)
10/1/2024	26.1	32.0	36.9	45.8	23.0	22.0	19.7	(9.0)	(14.9)	70%	27.5	0.6	(3.8)	\$ 49.48	\$ (1.45)
11/1/2024	18.1	22.6	20.6	31.5	7.3	8.3	13.4	(15.3)	(12.3)	70%	18.8	(8.5)	(6.1)	\$ 61.31	\$ (4.69)
12/1/2024	12.6	13.5	15.8	22.4	6.9	4.5	9.8	(6.6)	(11.3)	50%	16.1	0.1	(3.4)	\$ 76.63	\$ (4.52)
1/1/2025	13.4	14.1	14.9	33.9	9.3	9.3	20.6	(4.8)	(5.7)	50%	27.3	2.2	1.8	\$ 80.60	\$ (6.10)
2/1/2025	18.9	26.1	29.3	42.3	18.9	18.5	23.5	(7.2)	(10.9)	50%	32.9	5.9	3.8	\$ 72.69	\$ 0.84
3/1/2025	20.6	27.9	36.1	38.8	41.1	22.1	18.2	13.2	(14.1)	50%	28.5	27.2	4.0	\$ 45.12	\$ (3.66)
4/1/2025	27.6	43.0	54.5	32.2	43.6	43.6	4.6	0.6	(10.8)	50%	18.4	22.1	16.4	\$ 44.26	\$ (2.29)
5/1/2025	39.5	61.2	75.7	64.8	58.0	47.1	25.3	(3.2)	(28.6)	50%	45.1	27.4	9.2	\$ 36.99	\$ 0.29
6/1/2025	53.2	72.4	87.1	71.6	64.2	61.2	18.4	(8.1)	(25.9)	50%	45.0	28.1	17.6	\$ 50.10	\$ 0.91
7/1/2025	54.0	69.9	83.6	67.5	61.9	62.6	13.5	(8.0)	(21.0)	50%	40.5	27.0	20.8	\$ 59.92	\$ (2.80)
8/1/2025	45.9	58.4	69.5	51.5	46.2	45.4	5.6	(12.2)	(24.1)	50%	28.5	17.0	10.6	\$ 66.87	\$ (2.87)
9/1/2025	33.9	43.9	54.2	46.5	35.0	27.4	12.7	(9.0)	(26.8)	30%	36.4	21.8	11.2	\$ 65.33	\$ (2.59)
10/1/2025	25.6	33.7	41.7	30.4	26.2	23.6	4.8	(7.4)	(18.1)	30%	22.7	16.1	11.1	\$ 51.71	\$ (4.98)
11/1/2025	17.1	19.7	21.2	15.3	12.6	11.8	(1.8)	(7.1)	(9.4)	30%	10.1	6.7	5.4	\$ 69.48	\$ 2.86
12/1/2025	12.3	14.0	16.0	18.9	12.3	6.8	6.6	(1.7)	(9.2)	30%	15.2	8.1	2.0	\$ 95.86	\$ 1.00

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

- 2. BR output:
 - a. Covered 84% of load for April and 71% of May so far

Figure 1: Monthly BR and Load



- 3. Regulatory Items
 - a. Resource Adequacy:
 - i. Staff is working on 2025 requirements and plan to present procurement strategy in August
 - ii. Staff is tracking both CEC and CAISO changes to RA requirements
 - b. Renewable Energy Certificates
 - i. Staff working on PCC2 and PCC3 transactions to ensure there is enough room in CP4.
 - ii. Staff completed a book and claim for extra revenue for the PCC3 RECs.

**Power & Water Resources Pooling
Authority**

Regular Agenda • Item 6.C

1. Resolution 24-06-05 *WAPA Annual O&M Obligation for 2026.*

**Power & Water Resources Pooling Authority
Resolution 24-06-05**

WAPA ANNUAL O&M OBLIGATION FOR 2026

WHEREAS, the Power and Water Resources Pooling Authority (“PWRPA”) provides electric service to its customers under specified terms and conditions; and

WHEREAS, PWRPA must annually make an Individual Customer Commitment and Contribution, as part of Contract No. 96-SNR-00110, Agreement for the Funding of Operation and Maintenance (O&M) for Central Valley Project Power Facilities; and

WHEREAS, the O&M Funding Governance Board approved the Preliminary Customer O&M Funding Plan for the fiscal year (FY) 2026 in the amount of \$52,864,642; and

WHEREAS, Exhibit C, Revision 26, lists PWRPA’s minimum and Fair-Share Funding Level amounts as \$598,047.77 and \$4,399,888.30, respectively.

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

1. Approves the Contribution commitment for Fiscal Year 2026 as shown in Column 6 of Exhibit C, Revision 26, appended hereto as Exhibit A.
2. Directs the Chairman to complete, electronically sign, date and return the Exhibit C to the Western Area Power Administration.

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 5th day of June 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, West Stanislaus ID, Westlands Water District, Zone 7 WA (100.0% Voting Shares)
NOES	
ABSENT	

David Weisenberger
Chairman

Attest by: Bruce McLaughlin
Secretary

**ATTACHMENT A
to
RESOLUTION 24-06-05**

EXHIBIT C
 (Individual Customer Commitment and Contribution)

1. This Exhibit C, Revision 26, to be effective under and as a part of Contract 96-SNR-00110 (Agreement), shall become effective upon execution; and shall remain in effect until either superseded by another Exhibit C or termination of the Contract.
2. The Power and Water Resources Pooling Authority agrees to make a Contribution pursuant to Section 8 of the Agreement for the Fiscal Years (FY) and in the amounts specified in Column 6 of the table in Section 3 below.
3. Please specify your Contribution commitment level in Column 6.

	Column 2	Column 3	Column 4	Column 5	Column 6
FY	Fair-Share Funding Amount	Minimum Funding Amount ¹	Revision 25 Contribution Commitment Level Amount	Proposed Revision 26 Contribution Commitment Level Amount	Revision 26 Contribution Commitment Level Amount
2023	\$4,490,629.32	\$538,198.52	\$4,490,629.32	n/a	\$4,490,629.32
2024	\$4,595,247.42	\$517,425.07	\$4,595,247.42	n/a	\$4,595,247.42
2025	\$4,666,013.71	\$600,467.85	\$4,666,013.71	n/a	\$4,666,013.71
2026	\$4,399,888.30	\$598,047.77	n/a	\$4,399,888.30	

4. Fair-Share Funding Level amounts and Contribution commitment amounts, if any, are not shown for FYs prior to FY 2023 in the above table. For that information refer to an earlier revision of Exhibit C.

5. Electronic Signatures: This Exhibit C, Revision 26 may be executed by handwritten signature or digitally signed using Adobe Sign, Adobe E-Signature, or DocuSign. An electronic or digital signature is the same as a handwritten signature and shall be considered valid and acceptable.

The signature below commits the Customer named to make Contributions in the amounts shown in the above table, but not greater than the amount indicated in the latest revision of the Contribution commitment level for a specific FY.

¹ To participate on the Governance Board, a Customer must contribute at least 1/12th of its share of the estimated annual O&M cost for the FY that is four (4) years out from the current FY. This minimum amount is set forth in Column 3 of this Exhibit.

POWER AND WATER RESOURCES
POOLING AUTHORITY

Attest

By: _____
Title: _____

By: _____
Name: _____
Title: _____
Address: _____
Date: _____

**Power & Water Resources Pooling
Authority**

Regular Agenda • Item 7.D

1. Resolution 24-06-06 2023 Power Source Disclosure.

Power & Water Resources Pooling Authority
Resolution 24-06-06

ANNUAL POWER SOURCE DISCLOSURE FOR 2023

WHEREAS, Title 20 of the California Code of Regulations, Section 1394, requires that each Retail Supplier shall submit provide a separate annual report to the California Energy Commission containing the power source information for each electricity portfolio offered the previous calendar year, in accordance with the methodology described in Section 1393; and

WHEREAS, Retail Suppliers must submit this information on the Annual Report forms provided by the California Energy Commission; and

WHEREAS, the Power & Water Resources Pooling Authority (“PWRPA”) is a Retail Supplier in accordance with Power Source Disclosure regulations; and

WHEREAS, PWRPA offered two separate electricity portfolios to its retail customers in 2023.

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

1. Approves and ratifies the 2023 Power Source Disclosure form for Zero Carbon Water Portfolio, appended hereto in Attachment A.
2. Approves and ratifies the 2023 Power Source Disclosure form for Standard Water Portfolio, appended hereto in Attachment B.

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 5th day of June 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, West Stanislaus ID, Westlands Water District, Zone 7 WA (100.0% Voting Shares)
NOES	
ABSENT	

David Weisenberger
Chairman

Attest by: Bruce McLaughlin
Secretary

ATTACHMENT A to RESOLUTION 24-06-06

Version: April 2024

**2023 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 3: POWER CONTENT LABEL DATA
For the Year Ending December 31, 2023
Power & Water Resources Pooling Authority
Zero Carbon Water Portfolio**

Instructions: No data input is needed on this schedule. Retail suppliers should use these auto-populated calculations to fill out their Power Content Labels.

	Adjusted Net Procured (MWh)	Percent of Total Retail Sales
Renewable Procurements	21,469	35.6%
Biomass & Biowaste	-	0.0%
Geothermal	-	0.0%
Eligible Hydroelectric	283	0.5%
Solar	21,186	35.1%
Wind	-	0.0%
Coal	-	0.0%
Large Hydroelectric	38,843	64.4%
Natural gas	-	0.0%
Nuclear	-	0.0%
Other	-	0.0%
Unspecified Power	-	0.0%
Total	60,312	100.0%

Total Retail Sales (MWh)	60,312
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GHG Emissions Intensity (converted to lbs CO₂e/MWh)	-
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Percentage of Retail Sales Covered by Retired Unbundled RECs	0.0%
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ATTACHMENT B to RESOLUTION 24-06-06

Version: April 2024

**2023 POWER SOURCE DISCLOSURE ANNUAL REPORT
 SCHEDULE 3: POWER CONTENT LABEL DATA
 For the Year Ending December 31, 2023
 Power & Water Resources Pooling Authority
 Standard Water Portfolio**

Instructions: No data input is needed on this schedule. Retail suppliers should use these auto-populated calculations to fill out their Power Content Labels.

	Adjusted Net Procured (MWh)	Percent of Total Retail Sales
Renewable Procurements	99,934	43.4%
Biomass & Biowaste	-	0.0%
Geothermal	-	0.0%
Eligible Hydroelectric	6,230	2.7%
Solar	93,704	40.7%
Wind	-	0.0%
Coal	-	0.0%
Large Hydroelectric	118,143	51.4%
Natural gas	11,924	5.2%
Nuclear	-	0.0%
Other	-	0.0%
Unspecified Power	-	0.0%
Total	230,001	100.0%

Total Retail Sales (MWh)	230,001
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GHG Emissions Intensity (converted to lbs CO₂e/MWh)	45
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Percentage of Retail Sales Covered by Retired Unbundled RECs	1.6%
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OPERATIONS PACKET

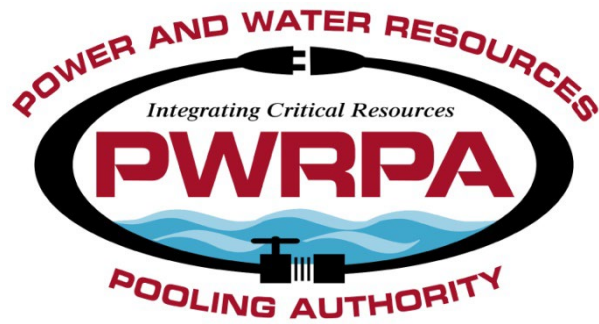
April 2024

Prepared For:

Power and Water Resources Pooling Authority

P.O. Box 299

Tracy, CA 95378-0299



Dated:

June 2024

OPERATIONS REVIEW

SUMMARY OF MONTHLY OPERATIONS

EXECUTIVE SUMMARY

- Total costs:
 - 32% under budget for April

- Energy consumption:
 - 42% under budget for April

- Total Metered Load Demand of 18,393 MWh supplied with:
 - 15,057 MWh Base Resource
 - 353 MWh WWD BOR Energy
 - 1,064 MWh Whitney Point Solar
 - 1,110 MWh Astoria Solar
 - 4,663 MWh Slate Solar
 - 43 MWh Lodi Energy Center
 - 3,897 MWh sold to CAISO

- Displacement Program:
 - 1,663 MW displaced, 11% of Base Resource
 - Net Savings of \$23,935 for the month

- Carbon Free and Renewable resources supplied 121% of demand:
 - Current RPS compliance period requirement is 33%.
 - 82% from Base Resource
 - 6% from Whitney Point Solar
 - 6% from Astoria Solar
 - 25% from Slate Solar
 - 1.9% from WWD BOR

- The Authority load ranged from 13 to 48 MW with an average of 26 MW:
 - Average deviation from schedule: 4.4 MW
 - Over-scheduling: 23% of hours on average 2.6 MW
 - Under-scheduling: 77% of hours on average 5 MW
 - Largest errors: 9 MW over-schedule, 13.2 MW under-schedule
 - Deviation resulted in a credit to PWRPA of \$6,139

TOTAL COSTS AND REVENUE

A. Monthly Actual and Annual Cost Estimate

Table 1: Actual vs Budget Cost

Table 1: Invoice Cost and Revenue Summary						
	April 2024			Annual 2024		
	Avg Budget	Actual	Difference	Avg Budget	Actual	Difference
DLF Energy (MWh)	31,623	18,393	-42%	342,786	319,558	-7%
Operations	\$ 179,047	\$ 173,256	-3%	\$ 2,148,566	\$ 2,080,361	-3%
Distribution	934,282	759,741	-19%	9,828,268	10,698,452	9%
Transmission	1,085,804	511,023	-53%	11,795,082	8,649,349	-27%
*Base Resource	(464,545)	(131,852)	-72%	(5,678,568)	(3,846,894)	-32%
Generation	1,817,717	893,352	-51%	20,487,030	18,887,207	-8%
CAISO Admin & Misc.	68,924	248,646	261%	752,061	1,069,737	42%
Total Costs	\$ 3,621,229	\$ 2,454,166	-32%	\$ 39,332,439	\$ 37,538,211	-5%
P3, Misc., etc.	103,205	71,686		1,120,975	1,073,385	
Invoice Revenue	3,499,029	2,592,112	-26%	40,453,413	40,260,314	0%
Surplus / (Deficit)	\$ (225,405)	\$ 66,260		\$ 0	\$ 1,648,717	

*BR amount is based on invoice, not cost allocation

B. Cost of Service and Cash Position:

- Main changes from budget include change in REC allocations and estimated costs. These cost will be updated once the final procurement has been completed.
- Slightly higher forward power prices and lower solar contract production due to increased negative pricing starting as early as February.

Table 2: Cash Position

Cashflow Summary: January - December 2024							
Participant	Power Invoice	Power & Ops Costs	P3	Direct Consulting+ Prior Period	Change in Reserve Estimate	Total Costs	Over/(Under) Funded
Arvin-Edison	\$ 12,281,676	\$ 11,349,150	\$ 323,451	\$ 10,541	\$ 79,341	\$ 11,762,482	\$ 519,194
Banta-Carbona	\$ 1,792,588	\$ 1,823,604	\$ 51,973	\$ 1,630	\$ (9,680)	\$ 1,867,527	\$ (74,939)
Byron-Bethany	\$ 385,367	\$ 398,628	\$ 11,361	\$ (5,680)	\$ (223)	\$ 404,085	\$ (18,718)
Cawelo	\$ 2,206,272	\$ 2,107,283	\$ 60,058	\$ 1,943	\$ (3,560)	\$ 2,165,724	\$ 40,548
Glenn-Colusa	\$ 1,203,850	\$ 1,177,928	\$ 33,571	\$ (20,418)	\$ (6,037)	\$ 1,185,044	\$ 18,807
James	\$ 452,898	\$ 417,005	\$ 11,885	\$ 287	\$ (139)	\$ 429,038	\$ 23,860
Lower Tule	\$ 1,203,489	\$ 1,097,744	\$ 31,286	\$ 1,030	\$ (11,451)	\$ 1,118,609	\$ 84,880
Princeton	\$ 523,840	\$ 533,610	\$ 15,208	\$ 468	\$ 2,569	\$ 551,855	\$ (28,015)
RD108	\$ 448,230	\$ 431,684	\$ 12,303	\$ (7,336)	\$ (14,879)	\$ 421,772	\$ 26,458
Santa Clara	\$ 2,741,941	\$ 2,588,750	\$ 73,779	\$ 8,568	\$ (23,353)	\$ 2,647,744	\$ 94,197
Sonoma	\$ 3,947,959	\$ 3,465,687	\$ 98,772	\$ 3,383	\$ (30,047)	\$ 3,537,795	\$ 410,163
West Stan	\$ 1,445,874	\$ 1,330,983	\$ 37,933	\$ 1,322	\$ (19,510)	\$ 1,350,728	\$ 95,145
Westlands	\$ 10,580,348	\$ 9,921,607	\$ 282,766	\$ 5,551	\$ 53,273	\$ 10,263,197	\$ 317,151
Zone 7	\$ 1,045,982	\$ 894,547	\$ 25,495	\$ 2,258	\$ (16,303)	\$ 905,997	\$ 139,986
PWRPA	\$ 40,260,314	\$ 37,538,211	\$ 1,069,839	\$ 3,546	\$ (0)	\$ 38,611,597	\$ 1,648,717

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

Table 3: Cost of Service

Cost of Service Summary: January - December 2024					
Participant	Metered Energy (kWh)	Power & Ops Costs	Cap & Trade Revenue	Net Cost of Service	Composite Rate, (cent/kWh)
Arvin-Edison	103,689,915	\$ 11,349,150	\$ (263,539)	\$ 11,085,611	\$ 10.69
Banta-Carbona	16,180,559	\$ 1,823,604	\$ (38,647)	\$ 1,784,958	\$ 11.03
Byron-Bethany	2,698,968	\$ 398,628	\$ (5,958)	\$ 392,670	\$ 14.55
Cawelo	18,256,344	\$ 2,107,283	\$ (30,869)	\$ 2,076,414	\$ 11.37
Glenn-Colusa	11,267,430	\$ 1,177,928	\$ (21,644)	\$ 1,156,284	\$ 10.26
James	2,954,403	\$ 417,005	\$ (7,241)	\$ 409,764	\$ 13.87
Lower Tule	9,782,058	\$ 1,097,744	\$ (20,588)	\$ 1,077,156	\$ 11.01
Princeton	4,224,421	\$ 533,610	\$ (6,026)	\$ 527,584	\$ 12.49
RD108	2,921,979	\$ 431,684	\$ (7,758)	\$ 423,926	\$ 14.51
Santa Clara	20,504,616	\$ 2,588,750	\$ (49,474)	\$ 2,539,276	\$ 12.38
Sonoma	33,047,435	\$ 3,465,687	\$ (79,963)	\$ 3,385,724	\$ 10.25
West Stan	13,407,887	\$ 1,330,983	\$ (37,248)	\$ 1,293,735	\$ 9.65
Westlands	66,368,919	\$ 9,921,607	\$ (291,473)	\$ 9,630,135	\$ 14.51
Zone 7	6,483,193	\$ 894,547	\$ (16,532)	\$ 878,014	\$ 13.54
TOTAL	311,788,128	\$ 37,538,211	\$ (876,960)	\$ 36,661,251	\$ 11.76

PORTFOLIO PERFORMANCE

A. PWRPA’s Portfolio Summary

Table 4: PWRPA Energy Summary							
	Total MWh	Avg MW		Vendor Cost / (Credit)		CAISO	
		On	Off	Cost	Rate	Cost/(Credit)	Rate
Supply:							
*Base Resource	(13,394)	20.5	16.3	\$ 239,628	\$ 17.89	\$ (339,224)	\$ (25.33)
*Displacement Program	(1,663)	2.9	1.6	\$ 29,752	\$ 17.89	\$ (29,836)	\$ (17.94)
WWD BOR Energy	(353)	0.6	0.3	\$ -	\$ -	\$ (8,479)	\$ (24.02)
Whitney Point Solar	(1,064)	2.3	0.5	\$ 62,538	\$ 58.75	\$ (15,417)	\$ (14.48)
Astoria Solar	(1,110)	2.6	0.2	\$ 69,910	\$ 63.00	\$ (329)	\$ (0.30)
Slate Solar	(4,663)	10.0	2.0	\$ 125,010	\$ 26.81	\$ (57,689)	\$ (12.37)
Lodi Energy Center	(43)	0.1	0.1	\$ 52,894	\$ 1,235.27	\$ (2,815)	\$ (65.74)
Market Resources	-	-	-	\$ -	\$ -	\$ -	\$ -
Subtotal:	(22,290)	39	21	\$ 579,733	\$ 26.01	\$ (453,789)	\$ (20.36)
Load:							
Scheduled Load (DAM)	16,019	25	19			\$ 453,687	\$ 28.32
Load Imbalance (RTM)	2,374	4	2			\$ 56,340	\$ 23.73
Subtotal:	18,393	29	21			\$ 510,027	\$ 27.73
**Net total:	(3,897)					\$ 56,239	

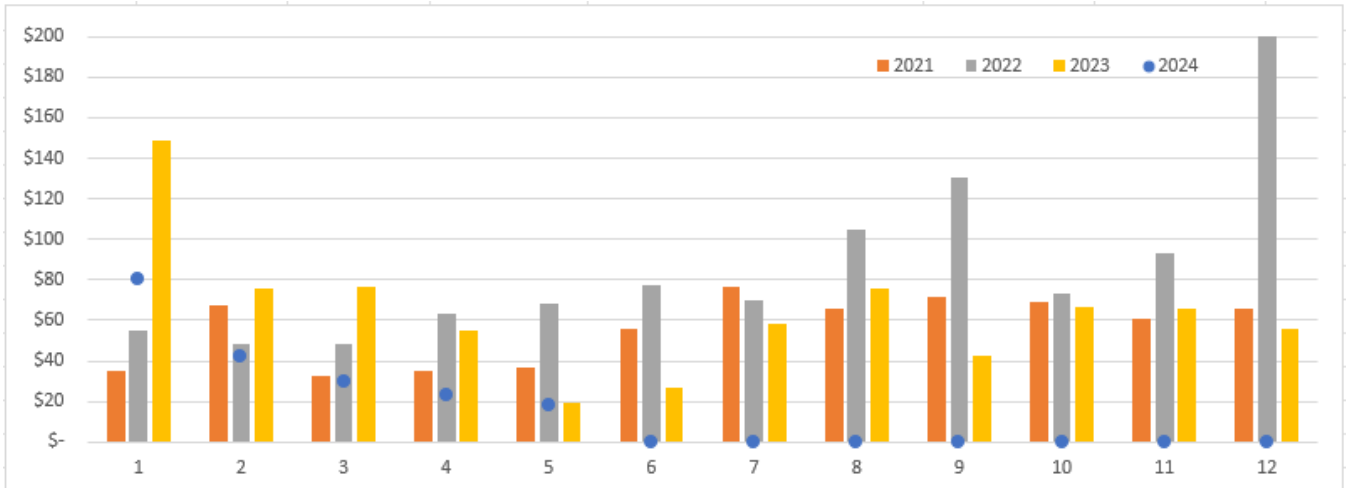
* Base Resource and Displacement dollars here are based on annual rate, not the monthly invoice.

Table 5: PWRPA Energy Supply, Energy and Rates			
	Cost / (Credit)	from/(to) CAISO (MWh)	Rate (\$/MWh)
Base Resource:	\$ 269,381	(15,057)	\$ 17.89
Vendor Market and Generation Energy:	\$ 310,352	(7,233)	\$ 42.91
CAISO credit from market and import supplies:	\$ (453,789)		\$ (20.36)
CAISO energy to serve load:	\$ 510,027	18,393	\$ 27.73
Total Energy Supply Expenditure:	\$ 635,972		\$ 34.58

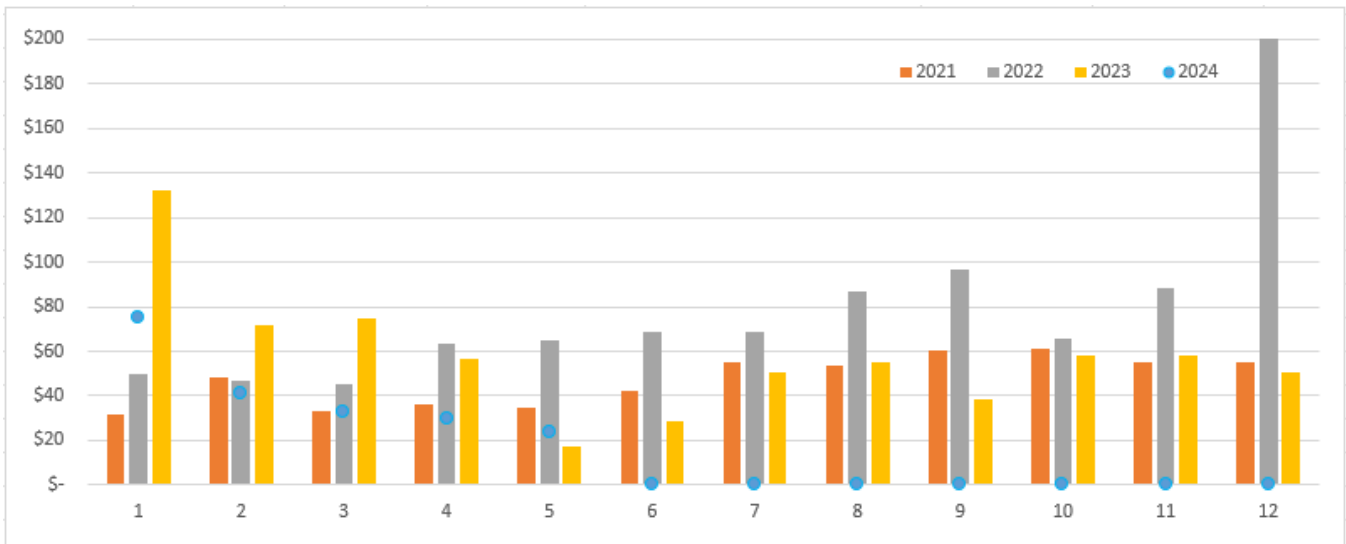
B. Rates

Table 6: CAISO Average Rates (NP15)				
Average	March		April	
	On Peak	Off Peak	On Peak	Off Peak
Day Ahead Load Rate	\$ 30.32	\$ 36.65	\$ 26.24	\$ 35.38
Real Time Load Rate	\$ 23.96	\$ 35.79	\$ 20.72	\$ 35.51
Base Resource Credit Rate	\$ 30.22	\$ 36.08	\$ 22.52	\$ 34.47
Market Resource Credit Rate	\$ 28.60	\$ 35.44	\$ 21.87	\$ 33.97

Historical and Forecast **ON PEAK** Market Rates (TH_NP15) by month:



Historical and Forecast **OFF PEAK** Market Rates (TH_NP15) by month:



GENERATION OPERATIONS

SUMMARY OF PORTFOLIO GENERATION

EXECUTIVE SUMMARY

- In March-April, LMPs have been significantly negative
 - In March-April 2024, total Solar/Battery unit curtailments totaled 10,588 MWhs compared to 3,431 in 2023
 - In March-April 2024, 51.3% of solar hour LMPs were negative whereas 41.2% of solar hours were negative in 2023

- Astoria
 - 1,110 MWh, 15% capacity factor
 - Cost Review
 - \$136 MWh Contract Cost
 - \$73 MWh of attribute value
 - Net cost of \$63/MWh

- Whitney Point
 - 1,064 MWh, 13% capacity factor
 - Cost Review
 - \$159 MWh Contract Cost
 - \$85 MWh of attribute value
 - Net cost of \$74/MWh

- Slate PV and Battery
 - 4,663 MWh, 25% capacity factor
 - Cost Review
 - \$53 MWh Contract Cost
 - \$118 MWh of attribute value
 - Net credit of \$65/MWh

- Lodi Energy Center:
 - On annual outage

Astoria Solar PV

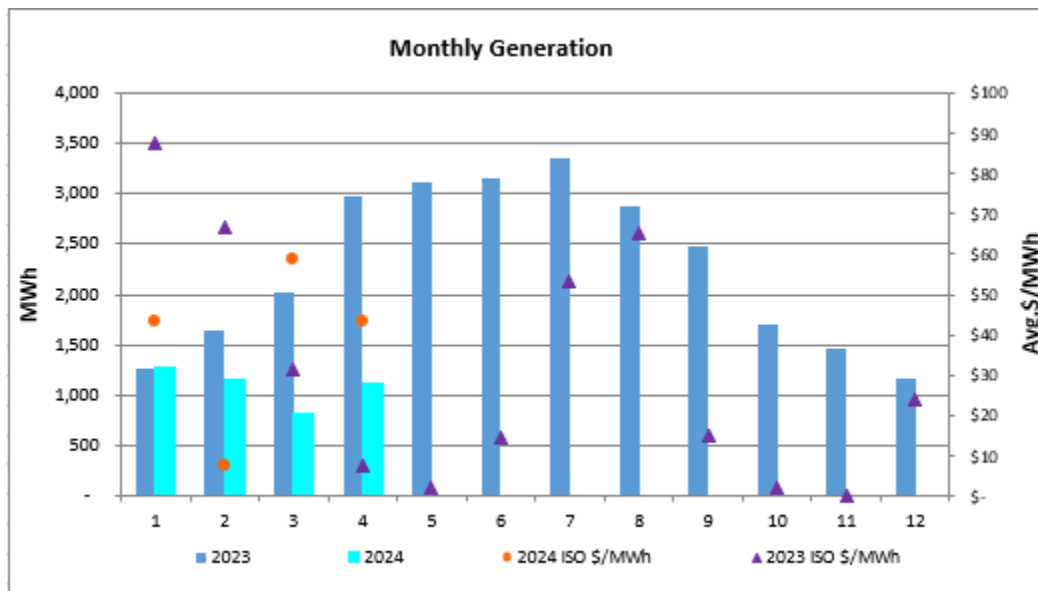
1. **Staff activity:** nothing to report

2. **Generation Review:**

Table 1: Summary of Generation

Month	Hours in Month	Max Generation Possible (MWh)	Actual Generation (MWh)	Capacity Factor	Percent Change from Prior Month	2023 Generation (MWh)	Percent Change from Prior Year
1	744	7,440	1,277	17%	10%	1,262	1%
2	720	7,200	1,158	16%	-9%	1,651	-30%
3	743	7,430	813	11%	-30%	2,021	-60%
4	720	7,200	1,110	15%	36%	2,969	-63%
5	744		-			3,120	
6	720		-			3,152	
7	744		-			3,358	
8	744		-			2,878	
9	720		-			2,476	
10	744		-			1,705	
11	721		-			1,466	
12	744		-			1,158	
YTD		29,270	4,358	14.9%		27,215	

Figure 1: Monthly Generation and Average Price



3. Cost Review:

- Review of actual costs and credits as well as avoided costs.
- REC prices are currently at \$70+ per REC, well above the historical average \$15/REC.

Table 2: Cost Review

April 2024	Volume, MWh/MW	\$	Rate (\$/MWh)
ISO Energy Revenue	1,109.7	\$ (329)	\$ 0.30
Avoided RPS	1,109.7	\$ (77,678)	\$ 70.00
Avoided RA	0.4	\$ (2,580)	\$ 2.32
Ancillary Services	-	\$ -	\$ -
Total Value:		\$ (80,586)	\$ 72.62
Generation Cost	1,109.7	\$ 69,910	\$ 63.00
Curtailment Cost/(Cred	1,277.4	\$ 80,475	\$ 63.00
Total Costs		\$ 150,385	\$ 135.52
Net Cost/(Revenue)		\$ 69,798	\$ 62.90

4. Market Price Review:

- Energy and pricing separated into positive versus negatively priced intervals using 5-minute data. Values are different than Table in section 1 due to 5 minute versus hourly data usage in pricing review.
- Table 4: May is estimated

Table 3: Interval Pricing Review

April 2024 - Pricing Analysis, Rates in \$/MWh		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	1,589	1,980
	Total MWh	732	1,531
	Average LMP	\$ (20.10)	\$ (15.12)
	Maximum LMP	\$ (0.00)	\$ (0.00)
	Minimum LMP	\$ (131.64)	\$ (166.09)
Positively Priced Intervals (5min) w/ Generation	Count	1,323	2,633
	Total MWh	377	1,438
	Average LMP	\$ 24.77	\$ 34.61
	Maximum LMP	\$ 142.28	\$ 685.18
	Minimum LMP	\$ 0.01	\$ 0.00

Table 4: Negative Pricing Detail

	Month	Total	Total MWh @	Total MWh @	Total MWh @	Neg %
		MWh	< -\$25 RT LMP	< -\$15 RT LMP	< -\$0 RT LMP	
Astoria	1	1,277	113	136	189	15%
	2	1,158	242	368	607	52%
	3	813	56	136	396	49%
	4	1,110	156	361	747	67%
	5	3,167	718	943	1,528	48%
	6	3,148	-	-	-	0%
	7	3,335	-	-	-	0%
	8	2,875	-	-	-	0%
	9	2,440	-	-	-	0%
	10	1,718	-	-	-	0%
	11	1,447	-	-	-	0%
	12	1,116	-	-	-	0%

Whitney Point Solar PV

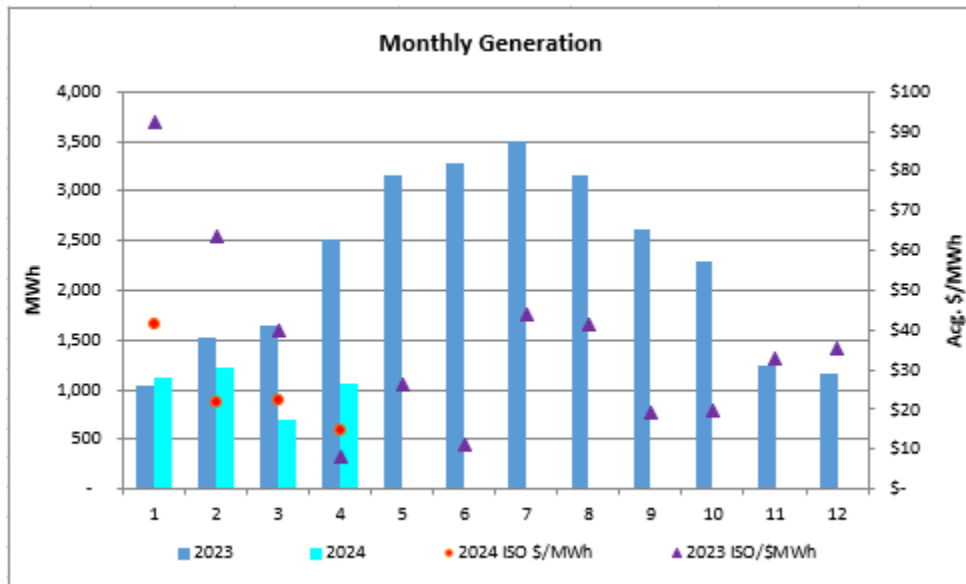
1. **Staff activity:** nothing to report

2. **Generation Review:**

Table 1: Summary of Generation

Month	Hours in Month	Max Generation Possible (MWh)	Actual Generation (MWh)	Capacity Factor	Percent Change from Prior Month	2023 Generation (MWh)	Percent Change from Prior Year
1	744	8,184	1,116	14%	-3%	1,047	7%
2	720	7,920	1,219	15%	9%	1,518	-20%
3	743	8,173	690	8%	-43%	1,639	-58%
4	720	7,920	1,064	13%	54%	2,511	-58%
5	744		-			3,160	
6	720		-			3,273	
7	744		-			3,495	
8	744		-			3,153	
9	720		-			2,604	
10	744		-			2,285	
11	721		-			1,245	
12	744		-			1,155	
YTD		32,197	4,089	12.7%		27,085	

Figure 1: Monthly Generation



3. Cost Review

- Review of actual costs and credits as well as avoided costs.
- REC prices are currently at \$70+ per REC, well above the historical average \$15/REC.

Table 2: Cost Review

April 2024	Volume, MWh/MW	\$	Rate (\$/MWh)
ISO Energy Revenue	1,064.5	\$ (15,417)	\$ 14.48
Avoided RPS	1,064.5	\$ (74,512)	\$ 70.00
Avoided RA	-	\$ -	\$ -
Ancillary Services	-	\$ -	\$ -
Total Value:		\$ (89,929)	\$ 84.48
Generation Cost	1,064.5	\$ 62,538	\$ 58.75
Curtailment Cost/(Cr	1,814.6	\$ 106,606	\$ 58.75
Total Costs		\$ 169,145	\$ 158.90
Net Cost/(Revenue)		\$ 79,216	\$ 74.42

4. Market Rate Review:

- Energy and pricing separated into positive versus negatively priced intervals using 5-minute data. Values are different than Table in section 1 due to 5-minute versus hourly data usage in pricing review.
- Table 4: May is estimated

Table 3: Interval Pricing Review

April 2024 - Pricing Analysis, Rates in \$		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	2,846	2,876
	Total MWh	544	1,731
	Average LMP	\$ (34.56)	\$ (21.52)
	Maximum LMP	\$ (0.25)	\$ (0.00)
	Minimum LMP	\$ (97.12)	\$ (113.26)
Positively Priced Intervals (5min) w/ Generation	Count	1,793	1,803
	Total MWh	521	780
	Average LMP	\$ 35.19	\$ 45.51
	Maximum LMP	\$ 82.38	\$ 228.74
	Minimum LMP	\$ 0.01	\$ 0.01

Table 4: Negative Pricing Detail

	Month	Total	Total MWh @	Total MWh @	Total MWh @	Neg %
		MWh	< -\$25 RT LMP	< -\$15 RT LMP	< -\$0 RT LMP	
Whitney	1	1,116	35	71	145	13%
	2	1,219	142	251	410	34%
	3	690	167	253	296	43%
	4	1,064	149	267	543	51%
	5	3,180	862	1,421	1,742	55%
	6	3,300	-	-	-	0%
	7	3,483	-	-	-	0%
	8	3,141	-	-	-	0%
	9	2,567	-	-	-	0%
	10	2,251	-	-	-	0%
	11	1,279	-	-	-	0%
	12	1,098	-	-	-	0%

Slate Solar PV and Battery

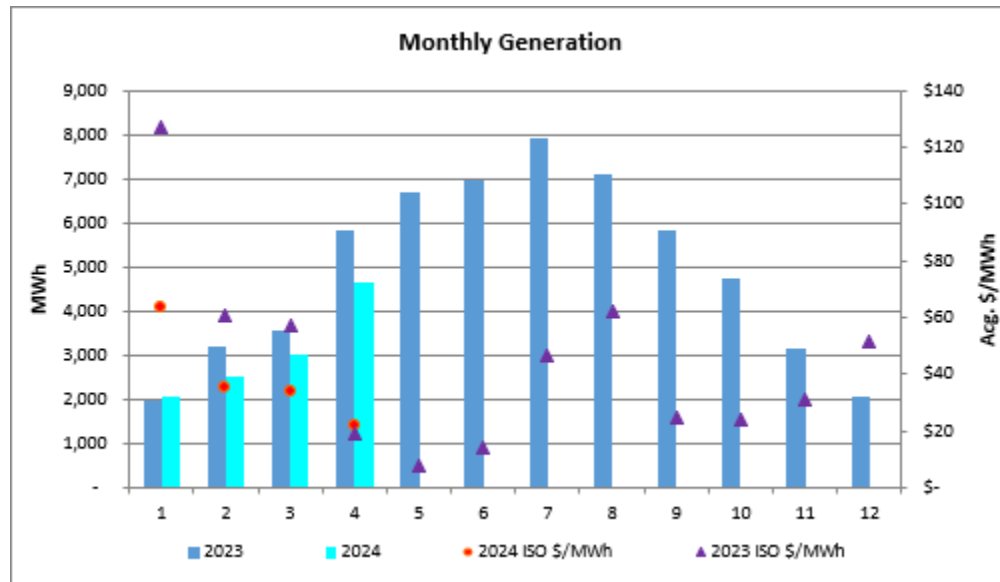
- **Staff activity:**
 - Staff working with MCG to automate data processing for the site. This will aid in staff work to split revenues between PV and Battery contract shares.

- **Generation Review:**

Table 1: Summary of Generation

Month	Hours in Month	Max Generation Possible (MWh)	Actual Generation (MWh)	Capacity Factor	Percent Change from Prior Month	2023 Generation (MWh)	Percent Change from Prior Year
1	744	19,344	2,050	11%	-1%	1,976	4%
2	720	18,720	2,543	14%	24%	3,225	-21%
3	743	19,318	3,028	16%	19%	3,570	-15%
4	720	18,720	4,663	25%	54%	5,818	-20%
5	744		-			6,704	
6	720		-			6,985	
7	744		-			7,934	
8	744		-			7,103	
9	720		-			5,813	
10	744		-			4,743	
11	721		-			3,161	
12	744		-			2,076	
YTD		76,102	12,283	16.1%		59,108	

Figure 1: Monthly Generation



- **Cost Review**

- Review of actual costs and credits as well as avoided costs.
- REC prices are currently at \$70+ per REC, well above the historical average \$15/REC.

Table 2: Cost Review

April 2024	Volume, MWh/MW	\$	Average Rate (\$/MWh)
ISO Energy Revenue	4,662.8	\$ (57,689)	\$ 12.37
Avoided RPS	4,662.8	\$ (326,397)	\$ 70.00
Avoided RA	20.9	\$ (167,520)	\$ 35.93
Ancillary Services	-	\$ -	\$ -
Total Value:		\$ (551,606)	\$ 118.30
Generation Cost	4,662.8	\$ 125,010	\$ 26.81
Curtailment Cost/(Credit)		\$ 55,671	\$ 26.81
Battery Cost, \$6.7 kW-mo	10.0	\$ 66,809	\$ 14.33
Total Costs		\$ 247,490	\$ 53.08
Net Cost/(Revenue)		\$ (304,116)	\$ (65.22)

- **Market Rate Review:**

- Energy and pricing separated into positive versus negatively priced intervals using hourly data.
- Table 4: May is estimated

Table 3: Interval Pricing Review

April 2024 - Pricing Analysis, Rates in \$/MW		2024	2023
Negatively Priced Intervals (5min) w/ Generation	Count	2,259	2,650
	Total MWh	2,321	3,215
	Average LMP	\$ (28.14)	\$ (15.26)
	Maximum LMP	\$ (0.10)	\$ (0.10)
	Minimum LMP	\$ (66.10)	\$ (80.00)
Positively Priced Intervals (5min) w/ Generation	Count	2,752	2,703
	Total MWh	2,344	2,603
	Average LMP	\$ 34.04	\$ 49.99
	Maximum LMP	\$ 249.60	\$ 614.10
	Minimum LMP	\$ 0.10	\$ 0.10

Table 4: Negative Pricing Detail

	Month	Total	Total MWh @	Total MWh @	Total MWh @	Neg %
		MWh	< -\$25 RT LMP	< -\$15 RT LMP	< -\$0 RT LMP	
Slate	1	2,050	7	27	218	11%
	2	2,543	202	378	699	28%
	3	3,028	536	763	1,184	39%
	4	4,663	702	1,592	2,282	49%
	5	6,787	1,541	2,263	3,122	46%
	6	6,994	-	-	-	0%
	7	7,906	-	-	-	0%
	8	7,093	-	-	-	0%
	9	5,694	-	-	-	0%
	10	4,765	-	-	-	0%
	11	3,140	0	0	0	0%
	12	2,180	0	0	0	0%

Lodi Energy Center

1. Unit Production:

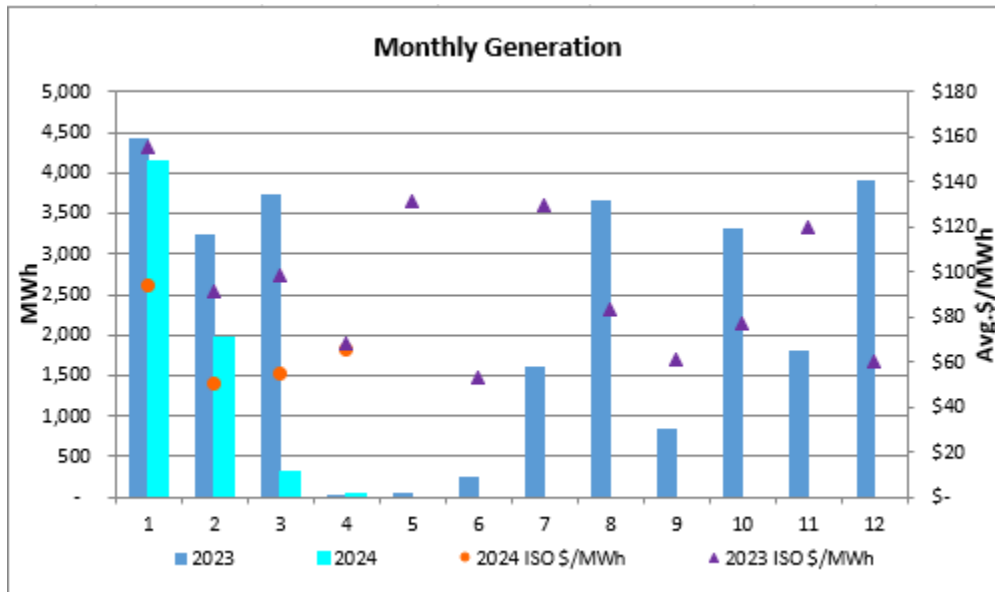
- April: annual planned outage
- LEC Hydrogen Project funding updates expected in June/July

2. Generation Review:

Table 1: Summary of Generation

Month	Hours in Month	Max Generation Possible (MWh)	Actual Generation (MWh)	Capacity Factor	Percent Change from Prior Month	2023 Generation (MWh)	Percent Change from Prior Year
1	744	5,952	4,136	69%	6%	4,434	-7%
2	720	5,760	1,968	34%	-52%	3,250	-39%
3	743	5,944	308	5%	-84%	3,742	-92%
4	720	5,760	43	1%	-86%	1	3689%
5	744		-			60	
6	720		-			262	
7	744		-			1,606	
8	744		-			3,656	
9	720		-			853	
10	744		-			3,322	
11	721		-			1,796	
12	744		-			3,898	
YTD		23,416	6,454	27.6%		26,879	

Figure 1: Monthly Generation



POWER AND REGULATORY REPORT

Power Planning and Regulatory Compliance

Power planning:

- 2024: BR forecast is as of May 2024 from WAPA. We are planning Wet year operations.
- Staff will start reviewing for an off-peak supplemental power purchase for 2025 now that prices are starting to come off. This will help hedge against any type of 2022 power spikes happening to PWRPA which makes cash flow tricky due to CAISO collateral requirements.

Table 1: May NSP for PWRPA

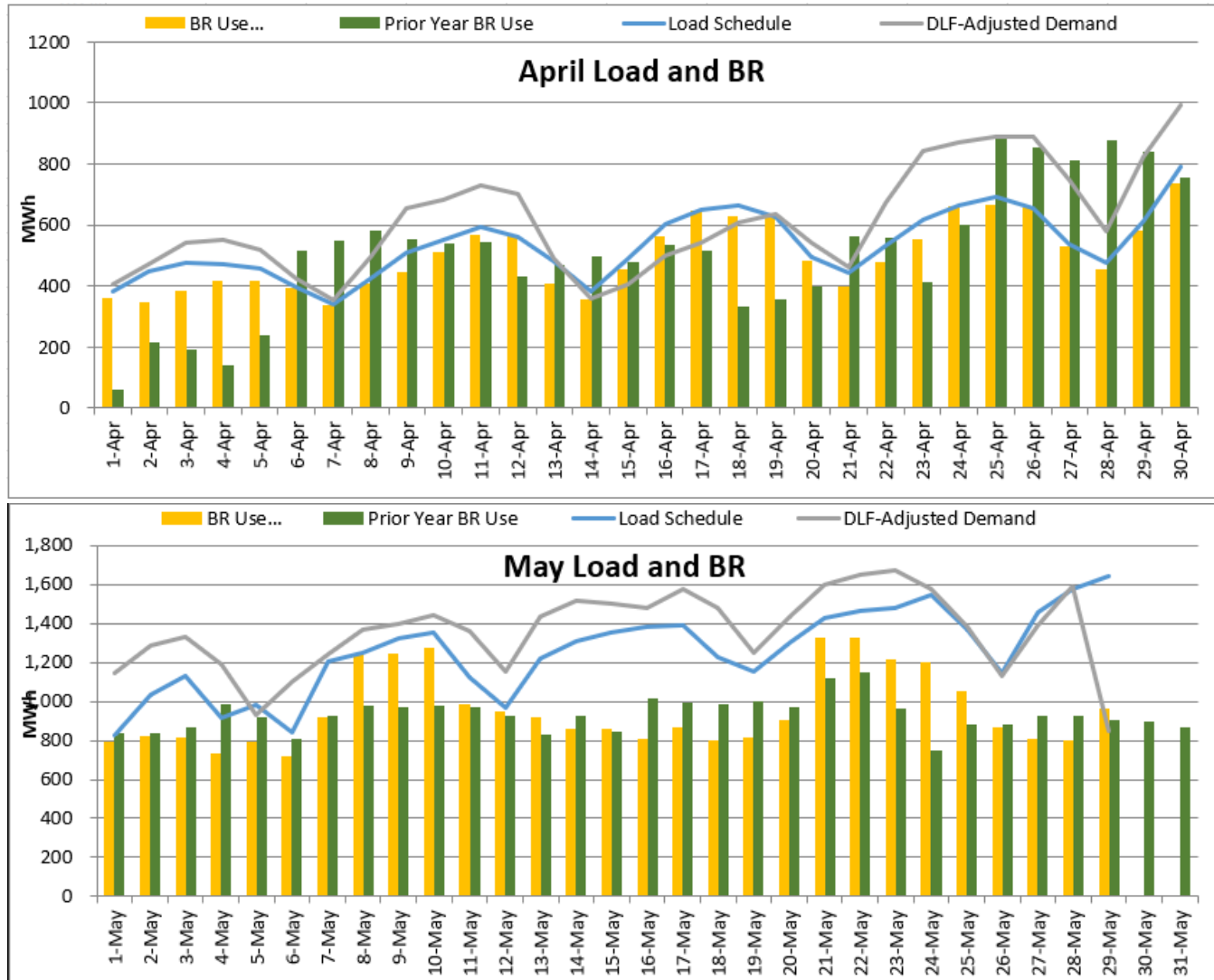
ON-PEAK	On Peak														5/2/2024 Forward Mkt	Change from last NSP
	Demand, MW			Resources, MW			Net Long/(Short), MW			RMP	Net (Short)/Long based on RMP					
	Wet	Average	Dry	Wet	Average	Dry	Wet	Average	Dry		Wet	Average	Dry			
5/1/2024	45.4	70.2	91.0	63.5	74.3	69.6	18.1	4.1	(21.4)	100%	18.1	4.1	(21.4)	\$ 17.68	\$ (7.70)	
6/1/2024	60.4	77.8	95.2	59.5	58.8	61.6	(0.9)	(19.0)	(33.6)	100%	(0.9)	(19.0)	(33.6)	\$ 29.25	\$ (5.38)	
7/1/2024	59.3	74.0	83.9	69.3	73.0	78.5	10.0	(0.9)	(5.4)	90%	15.9	6.5	3.0	\$ 52.75	\$ (7.45)	
8/1/2024	52.1	64.3	71.8	74.8	69.0	71.5	22.8	4.7	(0.2)	90%	28.0	11.1	6.9	\$ 69.37	\$ (12.50)	
9/1/2024	39.4	48.5	55.1	65.6	51.8	55.0	26.2	3.3	(0.2)	70%	38.0	17.8	16.4	\$ 59.85	\$ (13.15)	
10/1/2024	31.5	40.1	48.3	59.3	37.7	36.8	27.7	(2.3)	(11.5)	70%	37.2	9.7	3.0	\$ 53.21	\$ (2.56)	
11/1/2024	20.8	26.8	25.1	68.1	22.5	24.3	47.3	(4.3)	(0.8)	70%	53.5	3.7	6.8	\$ 61.99	\$ (1.06)	
12/1/2024	12.7	13.6	16.1	70.1	22.0	14.6	57.4	8.4	(1.5)	50%	63.8	15.2	6.5	\$ 88.01	\$ (3.46)	
1/1/2025	15.6	16.5	17.5	63.6	20.4	20.4	48.1	4.0	2.9	50%	55.9	12.2	11.7	\$ 93.74	\$ (3.29)	
2/1/2025	21.9	29.5	32.5	60.9	34.9	34.3	39.0	5.3	1.9	50%	50.0	20.1	18.1	\$ 69.16	\$ 5.24	
3/1/2025	25.3	33.4	43.1	61.0	63.7	42.1	35.8	30.3	(1.0)	50%	48.4	47.0	20.5	\$ 40.71	\$ (3.79)	
4/1/2025	38.9	57.9	72.2	57.7	71.3	71.3	18.7	13.4	(0.9)	50%	38.2	42.3	35.2	\$ 33.67	\$ (5.48)	
5/1/2025	50.0	79.9	100.1	84.1	77.4	66.6	34.1	(2.5)	(33.5)	50%	59.1	37.5	16.5	\$ 32.07	\$ (5.00)	
6/1/2025	63.3	87.6	106.3	74.9	69.8	67.7	11.6	(17.8)	(38.7)	50%	43.2	26.0	14.5	\$ 41.82	\$ (5.55)	
7/1/2025	60.2	79.8	96.7	86.7	81.3	82.0	26.5	1.5	(14.7)	50%	56.6	41.4	33.7	\$ 63.22	\$ (10.37)	
8/1/2025	51.5	67.3	81.3	82.5	75.6	74.6	31.0	8.3	(6.7)	50%	56.7	42.0	33.9	\$ 80.82	\$ (10.46)	
9/1/2025	38.0	51.1	64.4	75.7	61.7	52.6	37.7	10.6	(11.8)	30%	64.3	46.4	33.3	\$ 69.19	\$ (10.15)	
10/1/2025	30.8	43.2	55.4	44.9	40.9	38.4	14.1	(2.3)	(17.0)	30%	35.6	28.0	21.8	\$ 55.45	\$ (1.92)	
11/1/2025	19.2	23.3	25.8	37.2	32.2	30.6	18.0	8.9	4.8	30%	31.4	25.2	22.8	\$ 68.20	\$ 5.90	
12/1/2025	12.2	14.0	16.2	54.7	34.2	17.1	42.5	20.2	0.9	30%	51.0	30.0	12.2	\$ 100.02	\$ 4.46	

Off-Peak	Off Peak													5/2/2024 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		
5/1/2024	35.8	54.1	69.0	44.1	54.9	50.2	8.2	0.8	(18.8)	100%	8.2	0.8	(18.8)	\$ 23.90	\$ (4.30)
6/1/2024	50.7	64.5	78.2	52.2	51.2	55.2	1.5	(13.3)	(23.0)	100%	1.5	(13.3)	(23.0)	\$ 25.18	\$ (8.50)
7/1/2024	53.0	65.2	72.7	48.0	51.9	57.6	(5.0)	(13.3)	(15.1)	90%	0.3	(6.7)	(7.8)	\$ 42.01	\$ (5.99)
8/1/2024	46.2	55.9	61.5	40.9	36.4	38.4	(5.3)	(19.6)	(23.2)	90%	(0.7)	(14.0)	(17.0)	\$ 51.01	\$ (6.79)
9/1/2024	34.8	42.0	46.6	41.8	30.4	33.0	7.0	(11.6)	(13.6)	70%	17.4	1.0	0.4	\$ 49.50	\$ (7.40)
10/1/2024	26.1	32.0	36.9	45.8	23.0	22.0	19.7	(9.0)	(14.9)	70%	27.5	0.6	(3.8)	\$ 49.48	\$ (1.45)
11/1/2024	18.1	22.6	20.6	31.5	7.3	8.3	13.4	(15.3)	(12.3)	70%	18.8	(8.5)	(6.1)	\$ 61.31	\$ (4.69)
12/1/2024	12.6	13.5	15.8	22.4	6.9	4.5	9.8	(6.6)	(11.3)	50%	16.1	0.1	(3.4)	\$ 76.63	\$ (4.52)
1/1/2025	13.4	14.1	14.9	33.9	9.3	9.3	20.6	(4.8)	(5.7)	50%	27.3	2.2	1.8	\$ 80.60	\$ (6.10)
2/1/2025	18.9	26.1	29.3	42.3	18.9	18.5	23.5	(7.2)	(10.9)	50%	32.9	5.9	3.8	\$ 72.69	\$ 0.84
3/1/2025	20.6	27.9	36.1	38.8	41.1	22.1	18.2	13.2	(14.1)	50%	28.5	27.2	4.0	\$ 45.12	\$ (3.66)
4/1/2025	27.6	43.0	54.5	32.2	43.6	43.6	4.6	0.6	(10.8)	50%	18.4	22.1	16.4	\$ 44.26	\$ (2.29)
5/1/2025	39.5	61.2	75.7	64.8	58.0	47.1	25.3	(3.2)	(28.6)	50%	45.1	27.4	9.2	\$ 36.99	\$ 0.29
6/1/2025	53.2	72.4	87.1	71.6	64.2	61.2	18.4	(8.1)	(25.9)	50%	45.0	28.1	17.6	\$ 50.10	\$ 0.91
7/1/2025	54.0	69.9	83.6	67.5	61.9	62.6	13.5	(8.0)	(21.0)	50%	40.5	27.0	20.8	\$ 59.92	\$ (2.80)
8/1/2025	45.9	58.4	69.5	51.5	46.2	45.4	5.6	(12.2)	(24.1)	50%	28.5	17.0	10.6	\$ 66.87	\$ (2.87)
9/1/2025	33.9	43.9	54.2	46.5	35.0	27.4	12.7	(9.0)	(26.8)	30%	36.4	21.8	11.2	\$ 65.33	\$ (2.59)
10/1/2025	25.6	33.7	41.7	30.4	26.2	23.6	4.8	(7.4)	(18.1)	30%	22.7	16.1	11.1	\$ 51.71	\$ (4.98)
11/1/2025	17.1	19.7	21.2	15.3	12.6	11.8	(1.8)	(7.1)	(9.4)	30%	10.1	6.7	5.4	\$ 69.48	\$ 2.86
12/1/2025	12.3	14.0	16.0	18.9	12.3	6.8	6.6	(1.7)	(9.2)	30%	15.2	8.1	2.0	\$ 95.86	\$ 1.00

WAPA / BR Production

- PWPRA output:
 - April: BR covered 84% of load, 71% for May so far

Figure 1: Base Resource and Energy



Regulatory Compliance

- **Resource Adequacy**

- a. Staff is working on

- 2025 requirements and procurement strategy and will present at the August meeting.
 - tracking the new CEC process to administer the central procurement entity procurement and deficiency reporting
 - participating in CAISO's comprehensive review of the RA program

- **Renewable Portfolio Standard (RPS)**

- a. Current Compliance Period - CP4 (2021-2024):

- Staff is evaluating a small PCC2 & PCC3 purchases to ensure compliance volumes
 - Staff completed PCC3s for low carbon fuel standard and the price arbitrage is \$8/REC.

**2023 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 3: POWER CONTENT LABEL DATA
For the Year Ending December 31, 2023
Power & Water Resources Pooling Authority
Standard Water Portfolio**

Instructions: No data input is needed on this schedule. Retail suppliers should use these auto-populated calculations to fill out their Power Content Labels.

	Adjusted Net Procured (MWh)	Percent of Total Retail Sales
Renewable Procurements	99,934	43.4%
Biomass & Biowaste	-	0.0%
Geothermal	-	0.0%
Eligible Hydroelectric	6,230	2.7%
Solar	93,704	40.7%
Wind	-	0.0%
Coal	-	0.0%
Large Hydroelectric	118,143	51.4%
Natural gas	11,924	5.2%
Nuclear	-	0.0%
Other	-	0.0%
Unspecified Power	-	0.0%
Total	230,001	100.0%

Total Retail Sales (MWh)	230,001
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GHG Emissions Intensity (converted to lbs CO₂e/MWh)	45
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Percentage of Retail Sales Covered by Retired Unbundled RECs	1.6%
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2023 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 3: POWER CONTENT LABEL DATA
For the Year Ending December 31, 2023
Power & Water Resources Pooling Authority
Zero Carbon Water Portfolio

Instructions: No data input is needed on this schedule. Retail suppliers should use these auto-populated calculations to fill out their Power Content Labels.

	Adjusted Net Procured (MWh)	Percent of Total Retail Sales
Renewable Procurements	21,469	35.6%
Biomass & Biowaste	-	0.0%
Geothermal	-	0.0%
Eligible Hydroelectric	283	0.5%
Solar	21,186	35.1%
Wind	-	0.0%
Coal	-	0.0%
Large Hydroelectric	38,843	64.4%
Natural gas	-	0.0%
Nuclear	-	0.0%
Other	-	0.0%
Unspecified Power	-	0.0%
Total	60,312	100.0%

Total Retail Sales (MWh)	60,312
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GHG Emissions Intensity (converted to lbs CO₂e/MWh)	-
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Percentage of Retail Sales Covered by Retired Unbundled RECs	0.0%
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