Power & Water Resources Pooling Authority

Regular Meeting of the Board of Directors

9:00 A.M.
Wednesday, December 7, 2022

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 **December 7, 2022, at 9:00 a.m., at the Banta Carbona Irrigation District, 3514 W. Lehman Road, Tracy, CA 95304**, by simultaneous teleconference at the following locations:

Arvin Edison Water Storage District
20401 Bear Mountain Blvd., Arvin, CA 93203

Cawelo Water District
17207 Industrial Farm Road, Bakersfield, CA

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

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

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

Westlands Water District
3130 North Fresno Street, Fresno, CA 93703

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 pep@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	**Stakeholder Appointing Body (Irrigation Districts only)** – Consider and possibly approve a representative as follows: Sonoma County Water Agency – Appoint Jake Spaulding as Alternate Director.
5	Chair 2 Min	**Consent Agenda** A. Minutes of the Regular Board Meeting held on October 5, 2022. B. P3 & C&T funding requests (WSID, AEWSD and others). C. Request to terminate POD: WWD.
6	TR GM OM 60 Min	A. Treasurer's Report - Approval of Ordering Payments of Accounts and Claims; acceptance of the Treasurer's Report and other items related to Treasurer's duties. 2022 Summer Reserve Program update and termination. B. Resolution 22-12-19 *2023 Annual Budget*. C. Resolution 22-12-20 *RBI Professional Services Agreement*. (Public official performance review in closed session may be taken out of order)
7	GM OM 45 Min	A. GM Report – WAPA matters; public information on FERC ER20-2878 WDT3, ER22-619 WDT3 and Biannual Update; Inflation Reduction Act update and

		financing models; distributed solar/storage evaluations; 2023 scope and strategic planning. B. OM Report – ops highlights; power & RA forecast; RPS compliance update for CP 4. C. Resolution 22-12-21 *2023 Regular Meeting Dates*. D. Resolution 22-12-22 *2023 Appointment of Officers*. E. PWRPA district reports (2023 energy outlook related to water operations)
8	OM GM 10 min	**Special Projects** – Slate solar & storage update.
9	GC 30 Min	**Closed Session** A. Public Employee Performance Evaluation: Operations Manager. Pursuant to Gov't Code section 54957. B. Conference with legal counsel – Existing litigation: PG&E WDT3 Rate Case, FERC ER22-619, ER20-2878 consolidated. Pursuant to Gov't Code section 54956.9(d)(1).
10	Chair	**Board Matters** – Other announcements.
	Chair	**Adjournment** - Next Regular Meeting is **Wednesday**, February 1, 2023, at 9:00 A.M.

Power & Water Resources Pooling Authority

Regular Agenda • Item 4

1. Appointment of Jake Spaulding as Alternate for SCWA.

Power & Water Resources Pooling Authority

Regular Agenda • Item 5

1. Minutes of the October 5, 2022, meeting.

2. P3 and Cap & Trade funding requests.

3. Request to Terminate Point of Delivery for Westlands Water District.

Power and Water Resources Pooling Authority

Chair	**Directors and Alternates Present:** *Dave Nixon, (AEWSD), Dave Weisenberger (BCID), Nick Janes (BBID), Dave Ansolabehere (CWD), Louis Jarvis (GCID), Manny Amorelli (James), John Michael Domondon (LTRID), Eric Limas (LTRID), Gary Enos (PPID), Jordan Navarott (RD 108), John Brosnan (SCVWD), Dale Roberts (SCWA), Bobby Pierce (WSID), Kiti Campbell (WWD), Sal Segura (Z7).* *Also participating: Bruce McLaughlin (GM), Cori Bradley (OM), James Carney (Z7).*
Chair	**Matters Subsequent to Posting the Agenda -** Sal Segura introduced James Carney and stated that he will likely become an assistant director for Zone 7 in the future.
Chair	**Public Comment** – None
Chair	**Consent Agenda** A. Minutes of the Regular Board Meeting held on August 3, 2022. B. P3 & C&T funding requests. C. Resolution 22-10-18 *2021 Power Content Labels*. D. Request for POD removal: WWD. Dave Ansolabehere moved, John Brosnan seconded, and participating Directors unanimously approved the Consent Agenda. *Voting Shares: 96.0% Yes / 0% No / 4% Absent (PPID)*
TR GM OM	A. Treasurer's Report - Approval of Ordering Payments of Accounts and Claims; acceptance of the Treasurer's Report and other items related to Treasurer's duties. 2022 Summer Reserve Program update and termination. Mr. Nixon stated that CAISO currently holds close to $7M in collateral deposit funds from PWRPA. He stated there are significant balances in the districts' P3 and Cap & Trade accounts available for the districts use. Mr. Nixon stated that upon completion of the 2021 reconciliation all but two districts will receive a refund. He stated that though the districts will be receiving refunds, they should consider retaining that money on deposit for next summer's reserve. Dave Weisenberger suggested the implementation of a small rate increase to cover future increases in the collateral fund. Mr. Nixon agreed and stated that districts who use their current year P3 and Cap & Trade money for actual projects instead of their share of PWRPA's collateral deposit, will have to write checks to cover their portion of the collateral deposit. Bobbly Pierce moved, John Brosnan seconded, and participating Directors unanimously approved the Treasurer's Report. *Voting Shares: 82% Yes / 0% No / 18% Absent (WWD)* B. Resolution 22-08-17 *2021 Annual Reconciliation* is Final. Mr. McLaughlin stated that the 2021 Annual Reconciliation is now final.
GM OM	OM Report – Ms. Bradley stated that the prereconciliation report includes the first two weeks of September along with August due to the heat wave in September. All PWRPA's resources performed well and made money in both August and September. She said Lodi is waiting for a component and is, therefore, operating at around 90 – 95%. She stated that the average on-peak prices were the highest in the history of PWRPA and added that PWRPA's load cost with the CAISO doubled during the

	peak. She stated that the August load was normal until the heat wave at which time prices jumped markedly. Ms. Bradley reviewed details of the CEC's Demand Side Grid Support (DSGS) Program in which several districts participated during September. GM/OM discussion – Mr. McLaughlin discussed the budget and pointed out several issues affecting the current and future energy markets. He noted that the demand charges in California are the highest in the nation. Ms. Bradley displayed PWRPA's budget stating that the 2022 rates are up across the board. She also presented a comparison of what PWRPA's rates would be within PG&E and noted that in addition to higher rates than PWRPA, districts would not receive GHG or P3 funds. She stated that her team was very conservative with the 2023 budget and added that they are not expecting any material changes in overhead going into 2023. In terms of operations, Ms. Bradley anticipates that in 2023 Lodi will be running at capacity, and Warm Springs will be back online in Q 4. Base Resource is currently valued at $100, however, it will be closer to $50 in 2023. PWRPA has some Slate data (March - June) which they have added into the reconciliation. There were issues with the Slate reporting and consequently she has not approved any battery storage payments for Slate. Specifically, PWRPA is disputing the availability calculation as well as the invoices for the deemed delivered energy because they are not operating the unit per PWRPA's controls logic request. Ms. Bradley reported that there is a Resource Adequacy requirement that PWRPA will be procuring in the coming weeks. She stated that in prior years they have presented RA strategies to the Board for approval and need to do the same for 2023. Current scarcity of certain categories of RA products as well as high prices have hampered forward purchases for 2023. Ms. Bradley anticipates a budget of approximately $700,000 for RA and $800,000 for REC procurement. Mr. McLaughlin proposed tasking the BROC with the development of a procurement strategy. Mr. McLaughlin explained the benefits of the new Inflation Reduction Act and noted that there is the ability to stack several areas of savings in the form of tax credits. He noted that tax credits can be transferred and that public agencies can receive a check in the amount of the tax credit they would have received had they owed federal taxes. Mr. McLaughlin stated that he is willing to work with any district who is interested in onsite generation, and encouraged the districts to contact him. He added that PWRPA staff will work together to tailor a solar project based on the needs of each district.
GM OM LTRID	**Special Projects** – Eric Limas described the Lower Tule River ID 1.4 MW eligible renewable hydroelectric facility. It is used to generate power intermittently and LTRID is looking for an off taker. Ms. Bradley noted that a bundled PPA would be classified as a Content Category 1 renewable resource.
GC	**Closed Session** There was no closed session in October.
Chair	**Board Matters** – Other announcements.
Chair	**Adjournment** - Next Regular Meeting is **Wednesday**, December 7, 2022, at 9:00 A.M.

WEST STANISLAUS IRRIGATION DISTRICT

116 E Street
PO Box 37
Westley, CA 95387

(209)894-3091
(209)894-3383 Fax
wsidoffice@weststanislausid.org

November 29, 2022

Bruce McLaughlin, GM
Power & Water Resources Pooling Authority
3514 West Lehman Road
Tracy, CA 95304

Re: Request for P3 Funds for Pump Station #3 and #4 Modernization Project.

Dear Bruce,

West Stanislaus Irrigation District requests P3 Funds in the amount of $139,194.86. Funds will be used for partial reimbursement for the District's Pump Station #3 and Pump Station #4 Modernization Project. A brief description of the project is as follows:

Pumps at these two stations are original dating back to 1928. Through pump performance testing, we found that the pumps range in efficiency around 60% to 68%. The pump do not meet current Hydraulic Institute (HI) standards which further degrades pump efficiency. This project consists of removing and replacing concrete deck, removing existing pump bowls and bowl supports, installation of district furnished pumps, construct new bay walls that meet HI standards, replacing leaking discharge piping with district furnished discharge pipe, and replace leaking outlet structure.

Attached to this request is a copy of the contract agreement for this project.

Thank you for your attention to this request. Let me know if there are any questions.

Regards,

Robert Pierce, P.E.
General Manager

P-3 Disbursement Request Form

Request date: November 29, 2022 Effective date: _____

Participant: West Stanislaus Irrigation District

Project description (check below and attach a project plan plus schedule): Pump Station #3 and #4 Modernization

Requested amount (funds must be used within 1 year of effective date): $139,194.86

Funds available in Participant's Designated Account: _____

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
	Research and feasibility studies to identify all potentially achievable cost-effective energy efficiency savings.
X	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.
	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.
	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)

_____ _____

David Weisenberger
Chairman

David Nixon
Treasurer

00 52 13 – CONTRACT

1.1 CONTRACT FOR CONSTRUCTION

This Contract is effective as of the 21st day of June, 2022 by and between West Stanislaus Irrigation District (District), a county water district organized and existing under the laws of the State of California, and Arnaudo Construction, Inc. (Contractor).

The parties agree as follows:

A. Contractor, for and in consideration of the payment to be made to Contractor as hereinafter provided, shall furnish all plant, labor, technical and professional services, supervision, materials and equipment, other than such materials and equipment as may be specified to be furnished by the District, and perform all operations necessary to complete the Work in strict conformance with the Contract Documents (defined below) for the public work of improvement titled:

Pump Station 3 and 4 Rehabilitation Project

Contractor is an independent contractor and not an agent of the District. The Contractor and its surety shall be liable to the District for any damages arising as a result of the Contractor's failure to comply with this obligation.

B. Time is of the essence in the performance of the Work.

1. Bidder agrees that Schedule A of the Project will be constructed during the period November 1, 2022, through April 1, 2023, except that Pump Station 4 shall be substantially completed (fully operational) by March 1, 2023.

2. Bidder agrees that Schedule B of the Project will be constructed during the period November 1, 2023, through April 1, 2024, except that Pump Station 3 shall be substantially completed (fully operational) by March 1, 2024.

By its signature hereunder, Contractor agrees the Contract Times are adequate and reasonable to complete the Work.

C. The District shall pay to the Contractor as full compensation for the performance of the Contract, subject to any additions or deductions as provided in the Contract Documents, and including all applicable taxes and costs, the sum of Three Million Eight Thousand Seven Hundred Ninety Dollars ($ 3,008,790.00), hereinafter, the Contract Price. Payment shall be made as set forth in the General Conditions. The District will pay to Contractor compensation based upon the prices set forth in the Schedule of Pay Items.

D. Contractor shall provide indemnification and defense as set forth in the General Conditions.

E. No oral agreement or conversation with any representative or employee of the District, either before or after the execution of the Contract shall affect or modify any of the terms or

obligations herein contained. This Contract constitutes the entire agreement between the parties hereto and no changes, alterations or modifications hereof shall be effective unless in writing and signed by the District.

F. The "Contract Documents" include only the following documents, each of which is incorporated into this Contract by reference:

1. Notice Inviting Bids
2. Instructions to Bidders
3. Contractor's Bid Forms
4. Bid Bond
5. Designation of Subcontractors
6. Information Required of Bidders
7. Non-Collusion Declaration Form
8. Public Works Contractor Registration Certification
9. Performance Bond
10. Payment (Labor and Materials) Bond
11. General Conditions
12. Special Provisions (or Special Conditions)
13. Technical Specifications prepared by Dahl Consultants, dated March 2022
14. Addenda
15. Drawings prepared by Dahl Consultants, dated March 2022
16. Change Orders executed by the District

The Contactor shall complete the Work in strict accordance with all of the Contract Documents.

All of the Contract Documents are intended to be complementary. Work required by one of the Contract Documents and not by others shall be done as if required by all. In the event of a conflict, the various Contract Documents will be given effect in the order set forth in the General Conditions.

G. Each and every provision of law required to be included in these Contract Documents shall be deemed to be included in these Contract Documents. The Contractor shall comply with all requirements of applicable federal, state and local laws, rules and regulations, including, but

not limited to, the provisions of the California Labor Code and California Public Contract Code which are applicable to this Work.

H. By my signature hereunder, as Contractor, I certify that I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

IN WITNESS WHEREOF, this Contract has been duly executed by the above-named parties, on the day and year above written.

West Stanislaus Irrigation District

By: Robert Pierce

Printed Name: Robert Pierce

Title: General Manager

Dated: 7/13/22

CONTRACTOR

By: _____

(Authorized Representative of Contractor)

Printed Name: Garrett Arnaudo

Title: President

(Attach Acknowledgment for Authorized Representative of Contractor)

License No. 903970

Dated: 6-21-22

ATTEST:

Robert Pierce

Board Secretary

END OF CONTRACT

Power and Water Resources Pooling Authority

P-3 Remaining Funds By Year (Subject to Summer Reserve Policy 6/1/22 - 9/30/22)

as of September 30, 2022

Member Agency	2018 (a)	2019 (b)	2020 (c)	2021 (d)	2022 (e)	Total Available P-3 Funds (f)	Expenditures Total to Date (g)	September-22 (h)
Arvin-Edison WSD	$0.00	$0.00	$0.00	$50,454.41	$384,265.65	**$434,720.06**	$4,967,215.16	$0.00
Banta Carbona ID	0.00	0.00	28,418.11	54,556.10	50,206.26	**133,180.47**	404,708.20	0.00
Cawelo WD	28,404.62	50,401.52	37,702.35	38,668.67	35,000.66	**190,177.82**	772,616.22	0.00
Glenn-Colusa ID	0.00	0.00	23,300.11	38,600.33	10,480.19	**72,380.63**	348,863.79	0.00
James ID	0.00	8,070.92	10,457.51	16,350.72	17,116.88	**51,996.03**	122,899.04	10,207.18
Lower Tule ID	20,597.04	28,288.43	28,690.43	30,999.91	23,590.40	**132,166.21**	222,237.13	0.00
Princeton ID	0.00	7,595.11	9,341.59	10,167.50	3,901.54	**31,005.74**	146,848.67	0.00
Santa Clara Valley WD	0.00	0.00	0.00	15,823.60	64,023.17	**79,846.77**	638,166.45	0.00
Sonoma County WA	30,352.25	84,011.90	99,654.97	115,196.37	85,326.52	**414,542.01**	1,475,857.96	0.00
West Stanislaus ID	20,172.96	27,830.71	38,602.11	52,589.08	51,814.63	**191,009.49**	357,089.44	0.00
Westlands WD (North & South)	0.00	0.00	417,630.12	754,540.12	847,729.78	**2,019,900.02**	4,531,125.34	0.00
West Side ID	0.00	5,539.13	8,928.49	11,908.04	10,642.95	**37,018.61**	129,954.40	0.00
RD 108	14,275.67	24,850.41	17,667.76	17,563.64	9,160.16	**83,517.64**	170,239.74	0.00
Zone 7	0.00	0.00	9,318.79	25,933.35	19,159.55	**54,411.69**	71,833.02	0.00
Undesignated/Forfeited/Misc	107.06	0.00	0.00	0.00	0.00	**107.06**	35,133.04	0.00
Total	$113,909.60	$236,588.13	$729,712.34	$1,233,351.84	$1,612,418.34	**$3,925,980.25**	$14,394,787.60	$10,207.18
Exclusive access Date	12/31/22	08/04/23	08/03/24					

LESS FUNDS TRANSFERRED TO GENERAL ACCOUNT (SUMMARY RESERVE POLICY) -

NET P-3 FUNDS AVAILABLE **$ 3,925,980.25**

(a) Three year exclusive access to these funds by agency begins on 8/07/19 and ends 12/31/22 (ending date adjusted due to Summer Reserve Policy)
(b) Three year exclusive access to these funds by agency begins on 8/05/20 and ends 08/04/23
(c) Three year exclusive access to these funds by agency begins on 8/0/21 and ends 08/03/24
(d) 2021 P-3 collected
(e) 2022 P-3 collected through September 2022
(f) Total available P-3 Funds
(g) Total P-3 expenditures since inception of program
(h) P-3 expenditures September 2022

Westlands Water District
3130 N. Fresno Street, P.O. Box 6056, Fresno, California 93703-6056, (559) 224-1523, FAX: (559) 241-6277

November 23, 2022

Bruce McLaughlin
Cameron-Daniel, P.C.
101 Morris Street, Suite 201
Sebastopol, CA 95472

Re: Termination of Service to Point of Delivery

Dear Mr. McLaughlin,

Westlands Water District (Westlands) hereby requests that one (1) load, described in the attachment, be removed from service by the Power and Water Resources Pooling Authority. Westlands has entered into an agreement to transfer ownership of the load to a private entity.

Please request that the load be removed from the Western/PG&E Wholesale Distribution Tariff, and direct Trimark to collect the electric meter for use at future Westlands location(s). Because the private party is anxious to take control of the load, please make this action effective as soon as possible.

If you have any questions, please contact Jennifer Montoya at (559) 241-6242 or myself at (559) 241-6226.

Sincerely,

Katarina Campbell

Katarina Campbell, P.E.
Supervisor of Resources

CC: Trimark
Robertson-Bryan

Loads Subject to Service Request

November 2022

ITEM	Load Designation / Location *1	Maximum Motor Input (kW)	Nominal Delivery Voltage (v)	Meter Number	Account Number	H.P.	Facility Type	Coordinates	
								Lat.	Long
1	141329C01	336	440	C43378	105513060	450	WELL	36.69158	-120.58094

Power & Water Resources Pooling Authority

Regular Agenda • Item 6.A

1. Treasurer's Report.

POWER AND WATER RESOURCES POOLING AUTHORITY
CASH ACTIVITY AND TREASURER'S REPORT
MONTH ENDING OCTOBER 31, 2022

CASH ACTIVITY:

BALANCE SEPTEMBER 30, 2022		$ 14,527,201.70
Increases:		
Power Billing Invoices	$ 7,232,177.01	
APX - Astoria Solar	139,163.67	
Whitney Point Solar	48,883.13	
NCPA - LEC	42,733.00	
TCB - Monthly Interest	282.11	
		7,463,238.92
Decreases:		
CAISO	$ 4,509,723.68	
WAPA - Base Resource Power September 2022	2,102,159.76	
WAPA O&M	298,185.65	
Canadian Solar - Slate Solar - August 2022	183,672.95	
Canadian Solar - Astoria Solar - September 2022	163,767.02	
Robertson-Bryan, Inc	79,282.76	
WAPA - Restoration September 2022	55,598.34	
California Department of Tax and Fee	53,408.00	
PG&E - GCID,RD 108, SCVWD, Zone 7	53,336.93	
Trimark - Cell, Meter Reading and TM	50,268.66	
Cameron-Daniel, P.C.	39,699.00	
Aces - October 2022	25,000.00	
Holland & Knight - Legal Fees WDT3	9,880.79	
Michael McCarty Law Office, PLLC	5,380.00	
Arvin-Edison Water Storage District-Treasurer	4,256.39	
White Pines Solar Santa Clara WD - September 2022	2,913.40	
Braun Blaising Smith Wynne	196.01	
Advanced Data Storage	44.50	
		7,636,773.84
BALANCE OCTOBER 31, 2022		**$ 14,353,666.78**

TREASURERS REPORT:

Operating Account:		
Tri Counties Bank - General Operating/Sweep Accounts #1031821 & #1031830		$ 1,283,720.25
Local Agency Investment Fund (LAIF) - Account # 90-39007, yield 1.772%		
Reserve Funds	$ 4,259,220.75	
Cap & Trade Allowance Revenue	5,465,458.69	
Funds on Deposit	3,345,267.09	
Total LAIF		13,069,946.53
TOTAL PWRPA OPERATING FUNDS - OCTOBER 31, 2022		**$ 14,353,666.78**
Public Purpose Program (P-3) Tri Counties Bank Account #1031856		3,993,410.19
TOTAL FUNDS ON DEPOSIT WITH PWRPA OCTOBER 31, 2022		**$ 18,347,076.97**
CAISO Collateral Deposit Account		6,849,046.27
Western Area Power Administration - PWRPA Trust Account		1,000.00
TOTAL FUNDS - PWRPA & OTHER AGENCIES - OCTOBER 31, 2022		**$ 25,197,123.24**

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 is obligations next month. Included in the Operating Funds above is the Board approved $10,000,000 Reserve and Funds on Deposit from the following Participants:

Participant	*Amount*	*Participant*	*Amount*
Banta Carbona	$ 22,476.04	Santa Clara	570,943.29
Cawelo	851,845.46	Sonoma	753,745.63
James	43,291.60	West Stan	282,746.34
Glen-Colusa ID	118,183.47	Westlands	573,595.81
RD108	42,539.61	West Side ID	57,887.44
		Zone 7	28,012.40
		Total	$3,345,267.09

Power and Water Resources Pooling Authority

P-3 Remaining Funds By Year

as of October 31, 2022

Member Agency	2018 (a)	2019 (b)	2020 (c)	2021 (d)	2022 (e)	Total Available P-3 Funds (f)	Expenditures Total to Date (g)	October-22 (h)
Arvin-Edison WSD	$0.00	$0.00	$0.00	$13,418.71	$438,964.05	**$452,382.76**	$4,967,215.16	$0.00
Banta Carbona ID	0.00	0.00	28,418.11	49,489.90	55,930.04	**133,838.05**	404,708.20	0.00
Cawelo WD	28,404.62	50,401.52	37,702.35	33,863.10	35,000.66	**185,372.25**	772,616.22	0.00
Glenn-Colusa ID	0.00	0.00	23,300.11	32,132.77	12,257.04	**67,689.92**	348,863.79	0.00
James ID	0.00	8,070.92	10,457.51	15,685.23	17,116.88	**51,330.54**	122,899.04	0.00
Lower Tule ID	20,597.04	28,288.43	28,690.43	29,615.83	23,590.40	**130,782.13**	222,237.13	0.00
Princeton ID	0.00	7,595.11	9,341.59	8,671.24	4,416.43	**30,024.37**	146,848.67	0.00
Santa Clara Valley WD	0.00	0.00	0.00	16,885.21	73,273.83	**90,159.04**	638,166.45	0.00
Sonoma County WA	30,352.25	84,011.90	99,654.97	109,040.76	113,000.13	**436,060.01**	1,475,857.96	0.00
West Stanislaus ID	20,172.96	27,830.71	38,602.11	44,910.81	58,162.96	**189,679.55**	357,089.44	0.00
Westlands WD (North & South)	0.00	0.00	417,630.12	684,821.39	946,025.43	**2,048,476.94**	4,531,125.34	0.00
West Side ID	0.00	5,539.13	8,928.49	9,001.39	12,002.38	**35,471.39**	129,954.40	0.00
RD 108	14,275.67	24,850.41	17,667.76	16,362.76	10,126.69	**83,283.29**	170,239.74	0.00
Zone 7	0.00	0.00	9,318.79	25,493.12	23,940.98	**58,752.89**	71,833.02	0.00
Undesignated/Forfeited/Misc	107.06	0.00	0.00	0.00	0.00	**107.06**	35,133.04	0.00
Total	$113,909.60	$236,588.13	$729,712.34	$1,089,392.22	$1,823,807.90	**$3,993,410.19**	$14,394,787.60	$0.00
Exclusive access Date	12/31/22	08/04/23	08/03/24	08/04/25				

(a) Three year exclusive access to these funds by agency begins on 8/07/19 and ends 12/31/22 (ending date adjusted due to Summer Reserve Policy)
(b) Three year exclusive access to these funds by agency begins on 8/05/20 and ends 08/04/23
(c) Three year exclusive access to these funds by agency begins on 8/04/21 and ends 08/03/24
(d) Three year exclusive access to these funds by agency begins on 8/03/22 and ends 08/02/24
€ 2022 P-3 collected through October 2022
(f) Total available P-3 Funds
(g) Total P-3 expenditures since inception of program
(h) P-3 expenditures October 2022

Power and Water Resources Pooling Authority

Cap and Trade Allowance Revenue

As of October 31, 2022

District	Resolution 13-04-05		Resolution 21-11-14					
	Allocation	Revenue	Allocation	Revenue	Total Revenue	Expenditures	Balance	
Arvin	37.478%	$3,421,905.95	29.4617%	822,512.53	$ 4,244,418.48	$ 3,421,905.95	$ 822,512.53	
Banta Carbona	3.115%	284,413.18	4.7724%	133,237.25	417,650.43	-	417,650.43	
Cawelo	8.447%	771,248.19	4.6370%	129,456.56	900,704.75	205,787.50	694,917.25	
Glenn-Colusa	2.849%	260,126.21	3.2802%	91,577.00	351,703.21	351,703.21	-	(b)
James	0.798%	72,860.90	0.8133%	22,706.81	95,567.71	-	95,567.71	
Lower Tule	1.005%	91,760.91	2.8435%	79,384.57	171,145.48	-	171,145.48	
Princeton	1.334%	121,800.06	1.0877%	30,366.99	152,167.05	47,503.21	104,663.84	
RD 108	1.368%	124,904.41	1.4173%	39,569.22	164,473.63	164,473.63	-	(a)
Santa Clara	4.853%	443,100.21	6.3994%	178,658.71	621,758.92	443,100.21	178,658.71	
Sonoma	7.787%	710,987.29	10.1161%	282,422.91	993,410.20	196,000.00	797,410.20	
Byron Bethany II	0.708%	64,643.51	0.7471%	20,857.91	85,501.42	85,501.42	-	(a)
West Stan	3.228%	294,730.57	4.4367%	123,864.27	418,594.84	150,789.15	267,805.69	
Westlands	27.030%	2,467,957.68	28.6422%	799,635.31	3,267,592.99	1,390,020.55	1,877,572.44	
Zone 7	0.000%	0.00	1.3452%	37,554.41	37,554.41	-	37,554.41	
Total	100.000%	$9,130,439.07	100.0000%	$ 2,791,804.45	$11,922,243.52	$ 6,456,784.83	***$ 5,465,458.69***	

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

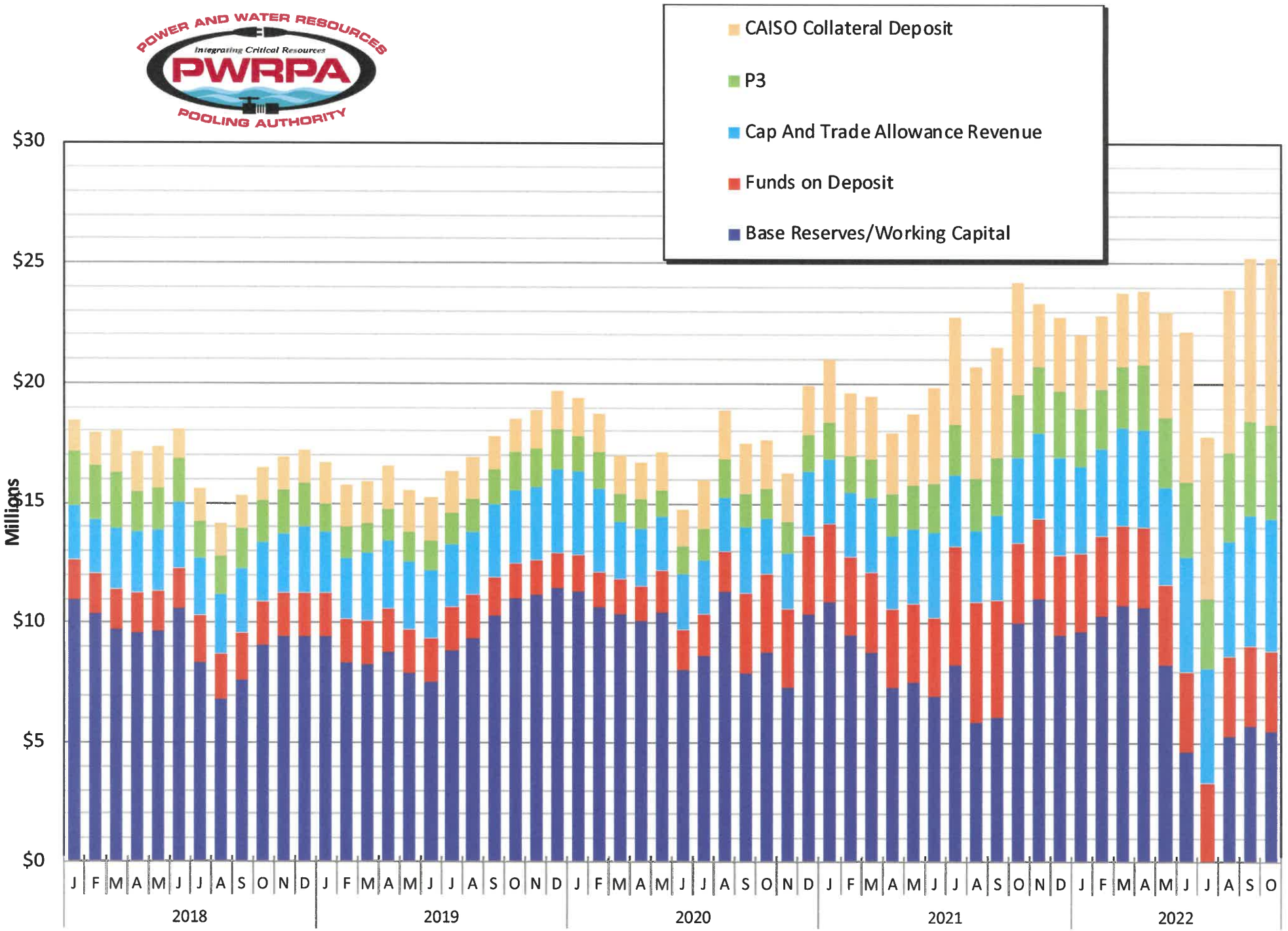
(b) GCID $65,084.88 in approved projects remaining revenue transferred as a payment to power cost to help meet RPS

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		2,085,304.45
				Total	$11,922,243.52

Resolution 13-04-05	$9,130,439.07
Resolution 21-11-14	2,791,804.45
	$11,922,243.52

SUMMARY TREASURER REPORT



POWER & WATER RESOURCES POOLING AUTHORITY

WIRE TRANSFERS

October 1 - 31, 2022

Transaction Number	Beneficiary Name	Credit Amount	Value Date
154530	CAISO Market Clearing	$820,932.81	10/3/2022
155053	Cameron-Daniel, P.C.	$39,699.00	10/6/2022
155285	Holland & Knight	$9,880.79	10/11/2022
155301	ACES Power Marketing	$25,000.00	10/11/2022
155302	CAISO Market Clearing	$547,458.75	10/11/2022
155993	CAISO Market Clearing	$557,071.55	10/17/2022
155994	Pacific Gas and Electric	$51,531.42	10/17/2022
155995	WAPA O M	$298,185.65	10/17/2022
155996	Western Area Power Administration	$55,598.34	10/17/2022
155997	Slate 1 (Canadian Solar)	$183,672.95	10/17/2022
155998	Pacific Gas and Electric	$1,805.51	10/17/2022
156803	CAISO Market Clearing	$1,960,450.14	10/24/2022
156804	Garlock Energy, LLC	$2,913.40	10/24/2022
157075	Western Area Power Administration	$2,102,159.76	10/26/2022
157663	CAISO Market Clearing	$623,810.43	10/31/2022
157664	Trimark Associates, Inc.	$50,268.66	10/31/2022
157665	Astoria 2 Operating	$163,767.02	10/31/2022
	Total	**7,494,206.18**	

POWER AND WATER RESOURCES POOLING AUTHORITY

DISBURSEMENT LIST

November 2022

Check #	Vendor-name	Payment-description		Check-amount
3309	Advanced Data Storage	Document Storage - November 2022		44.50
3310	Arvin-Edison Water Storage District	Treasurer's Duties		5,483.89
3311	Braun Blaising Smith Wynne	Legal Services - October 2022		804.70
3312	Michael McCarty Law Office PLLC	Consultant		3,490.00
3313	Robertson Bryan Inc.	Consultant		65,178.46
3314	Westlands Water District	Approved P-3 Project		1,000,000.00
			Sub-Total	$ 1,075,001.55
	Wire Transfers:			
Wire	Cameron-Daniel, P.C.	General Manager/General Council		$ 39,201.00
Wire	Holland & Knight	FERC Wholesale Distribution Filing Legal Fees		905.52
			Total	$ 1,115,108.07

REVISED

POWER AND WATER RESOURCES POOLING AUTHORITY

2021 ANNUAL POWER & P-3 RECONCILIATION

DISBURSEMENT LIST

September 2022

Check #	Vendor-name	Payment-description	Check-amount
3291	Arvin-Edison Water Storage District	2021 Annual Power & P-3 Reconciliation	$ 243,976.22
3292	Banta-Carbona Irrigation District	2021 Annual Power & P-3 Reconciliation	177,341.56
3293	Cawelo Water District	2021 Annual Power & P-3 Reconciliation	219,314.86
3294	Glenn-Colusa Irrigation District	2021 Annual Power & P-3 Reconciliation	314,500.71
3295	James Irrigation District	2021 Annual Power & P-3 Reconciliation	20,541.33
3296	Lower Tule River Irrigation District	2021 Annual Power & P-3 Reconciliation	55,410.22
3297	Princeton-Codora Glenn Irrigation District	2021 Annual Power & P-3 Reconciliation	68,655.20
3298	Reclamation District 108	Voided & Reissued as Ck #3308, Used FOD $36,542.90	-
3299	Sonoma County Water Agency	2021 Annual Power & P-3 Reconciliation	231,915.89
3300	West Side Irrigation District	2021 Annual Power & P-3 Reconciliation	122,445.90
3301	West Stanislaus Irrigation District	2021 Annual Power & P-3 Reconciliation	287,985.53
3302	Westlands Water District	2021 Annual Power & P-3 Reconciliation	2,448,399.23
3308	Reclamation District 108	2021 Annual Power & P-3 Reconciliation	50,000.00
		Total	$ 4,240,486.65

ORIGINAL

POWER AND WATER RESOURCES POOLING AUTHORITY

2021 ANNUAL POWER & P-3 RECONCILIATION

DISBURSEMENT LIST

September 2022

Check #	Vendor-name	Payment-description	Check-amount
3291	Arvin-Edison Water Storage District	2021 Annual Power & P-3 Reconciliation	$ 243,976.22
3292	Banta-Carbona Irrigation District	2021 Annual Power & P-3 Reconciliation	177,341.56
3293	Cawelo Water District	2021 Annual Power & P-3 Reconciliation	219,314.86
3294	Glenn-Colusa Irrigation District	2021 Annual Power & P-3 Reconciliation	314,500.71
3295	James Irrigation District	2021 Annual Power & P-3 Reconciliation	20,541.33
3296	Lower Tule River Irrigation District	2021 Annual Power & P-3 Reconciliation	55,410.22
3297	Princeton-Codora Glenn Irrigation District	2021 Annual Power & P-3 Reconciliation	68,655.20
3298	Reclamation District 108	2021 Annual Power & P-3 Reconciliation	86,542.90
3299	Sonoma County Water Agency	2021 Annual Power & P-3 Reconciliation	231,915.89
3300	West Side Irrigation District	2021 Annual Power & P-3 Reconciliation	122,445.90
3301	West Stanislaus Irrigation District	2021 Annual Power & P-3 Reconciliation	287,985.53
3302	Westlands Water District	2021 Annual Power & P-3 Reconciliation	2,448,399.23
		Total	$ 4,277,029.55

APPROVED AUGUST 3, 2022

POWER AND WATER RESOURCES POOLING AUTHORITY

2021 ANNUAL RECONCILIATION STATEMENT

Power - P-3

2021 POWER RECONCILIATION

Participant	Beginning Reserves		2021 Expenses			2021 Payments			2021 over (under) Balance	Deposit/(Refunds) Funds on Deposit	Ending 2021	Ending 2021 Reserves			2021 Over / (Under) Funded
	2020 Ending Reserve	2020 Ending Funds on Deposit	Power	Participant Adjustments	Total Expenses	Amount Paid	Allocated Interest	Total Payments				Reserves	Funds on Deposit	Total	
Arvin	$ 2,946,168.13	$ -	$ 14,808,183.04	$ (12,808.55)	$ 14,795,374.49	$ 15,065,865.32	$ 9,473.44	$ 15,075,338.76	$ 279,964.27	$ -	$ 3,226,132.40	$ 3,019,191.89	$ -	$ 3,019,191.89	$ 206,940.51
Banta Carbona	477,244.17	22,476.04	1,736,487.65	(1,916.56)	1,734,571.09	1,909,002.69	1,984.10	1,910,986.79	176,415.70	-	676,135.91	481,384.52	22,476.04	503,860.56	172,275.35
Cawelo	463,702.12	851,845.46	1,188,178.89	(1,043.52)	1,187,135.37	1,352,788.06	5,861.50	1,358,649.56	171,514.19	-	1,487,061.77	420,707.00	851,845.46	1,272,552.46	214,509.31
Glenn-Colusa	328,020.81	-	1,127,465.59	(1,096.03)	1,126,369.56	1,418,732.59	890.26	1,419,622.85	293,253.29	118,183.47	739,457.57	313,240.95	118,183.47	431,424.42	308,033.15
James	81,333.84	43,291.60	550,359.07	(552.30)	549,806.77	572,603.63	529.48	573,133.11	23,326.34	-	147,951.78	84,784.34	43,291.60	128,075.94	19,875.84
Lower Tule	284,348.65	-	1,039,151.91	(703.37)	1,038,448.54	1,085,102.56	920.85	1,086,023.41	47,574.87	-	331,923.52	277,897.38	-	277,897.38	54,026.14
Princeton	108,771.86	-	304,254.13	(353.63)	303,900.50	356,030.83	502.51	356,533.34	52,632.84	-	161,404.70	94,245.77	-	94,245.77	67,158.93
Santa Clara	639,939.91	622,734.18	2,397,122.35	42,144.87	2,439,267.22	2,357,429.41	3,706.10	2,361,135.51	(78,131.71)	(28,931.14)	1,155,611.24	613,606.35	593,803.04	1,207,409.39	(51,798.15)
Sonoma	1,011,614.24	753,745.63	3,825,991.49	161.17	3,826,152.66	4,034,947.70	6,092.91	4,041,040.61	214,887.95	-	1,980,247.82	1,000,741.90	753,745.63	1,754,487.53	225,760.29
West Stan	443,671.02	362,542.79	1,575,818.05	(1,674.05)	1,574,144.00	1,842,729.28	2,476.13	1,845,205.41	271,061.41	(79,796.45)	997,478.77	434,425.17	282,746.34	717,171.51	280,307.26
Westlands	2,864,223.92	573,595.81	24,028,820.77	(18,743.18)	24,010,077.59	26,404,466.55	11,111.77	26,415,578.32	2,405,500.73	-	5,843,320.46	2,891,044.16	573,595.81	3,464,639.97	2,378,680.49
BB/West Side ID	74,711.20	57,887.44	315,838.08	(373.70)	315,464.38	433,397.48	352.18	433,749.66	118,285.28	-	250,883.92	73,457.23	57,887.44	131,344.67	119,539.25
RD 108	141,733.50	-	574,132.00	(64.89)	574,067.11	645,606.98	333.85	645,940.83	71,873.72	5,996.71	219,603.93	128,265.19	5,996.71	134,261.90	85,342.03
Zone 7	134,516.63	6,505.19	894,495.42	26,024.32	920,519.74	908,911.52	358.96	909,270.48	(11,249.26)	21,507.21	151,279.77	167,008.15	28,012.40	195,020.55	(43,740.78)
Total	$ 10,000,000.00	$ 3,294,624.14	$ 54,366,298.44	$ 29,000.58	$ 54,395,299.02	$ 58,387,614.60	$ 44,594.04	$ 58,432,208.64	$ 4,036,909.62	$ 36,959.80	$17,368,493.56	$ 10,000,000.00	$ 3,331,583.94	$ 13,331,583.94	$ 4,036,909.62
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p

notes:

a = Participating Agencies

b = Per 2020 Reconciliation Statement Column "m"

c = Per 2020 Reconciliation Statement Column "n"

d = Per RBI 2021 RBI annual reconciliation

e = Prior year and Direct Consulting

f = (d+e)

g = Amount paid to PWRPA for 2021 including transfers of Cap & Trade Fund revenue for RPS

h = interest income for 2021

i = (g+h) = Total funds collected and applied as payment

j = 2021 Total Payments less Total Expenses (i-f)

k = Refunds or deposits during the year to applied to Funds on Deposit

l = (b+c+j+k)

m = $10,000,000 Reserve allocated on Exhibit B approved in April 2022

n = Funds held on deposit (c+k)

o = 2021 reserve total (m+n)

p = 2021 available refund or payment required (l-o)

q = 2021 P-3 funding level (d x 2.85%)

r = Amount Paid for 2021 P-3 + interest earned

s = 2021 P-3 available refund or payment required (r-q)

2021 P-3 RECONCILIATION

Participant	2021			2021 Over / (Under) Funded
	Power Expense	P-3 Requirement	Amount Paid	
Arvin	$14,808,183.04	$ 422,033.22	$ 459,068.93	$ 37,035.71
Banta Carbona	1,736,487.65	49,489.90	54,556.11	5,066.21
Cawelo	1,188,178.89	33,863.10	38,668.65	4,805.55
Glenn-Colusa	1,127,465.59	32,132.77	38,600.33	6,467.56
James	550,359.07	15,685.23	16,350.72	665.49
Lower Tule	1,039,151.91	29,615.83	30,999.91	1,384.08
Princeton	304,254.13	8,671.24	10,167.51	1,496.27
Santa Clara	2,397,122.35	68,317.99	67,256.39	(1,061.60)
Sonoma	3,825,991.49	109,040.76	115,196.36	6,155.60
West Stan	1,575,818.05	44,910.81	52,589.08	7,678.27
Westlands	24,028,820.77	684,821.39	754,540.13	69,718.74
BB/West Side ID	315,838.08	9,001.39	11,908.04	2,906.65
RD 108	574,132.00	16,362.76	17,563.63	1,200.87
Zone 7	894,495.42	25,493.12	25,933.35	440.23
Total	$54,366,298.44	$ 1,549,439.51	$ 1,693,399.14	$ 143,959.63
	a	d	q	r	s

Power & Water Resources Pooling Authority

Regular Agenda • Item 6.B

1. Resolution 22-12-19 Annual Budget.

Power & Water Resources Pooling Authority
Resolution 22-12-19

APPROVING AND ADOPTING AN ANNUAL BUDGET AND ASSOCIATED PRO-FORMA RATE SCHEDULE FOR 2023

WHEREAS, the Power and Water Resources Pooling Authority ("Pooling Authority") provides retail electric services under the Aggregation Services Agreement ("ASA") to electric accounts designated by Project Participants ("Customers"); and

WHEREAS, Section 4.4 of the Joint Powers Agreement requires the General Manager to develop a budget for the Pooling Authority and submit a draft budget to each of the Customers prior to the commencement of the fiscal year; and

WHEREAS, Section 3.6.4 of the Joint Powers Agreement authorizes the Pooling Authority Board of Directors ("Board") to review, modify if necessary, and approve the draft budget prepared and submitted by the General Manager; and

WHEREAS, Section 5.1 of the ASA provides that the Board shall be the local regulatory authority with respect to matters related to the ASA including ratesetting; and

WHEREAS, Section 8.1 of the ASA requires the Pooling Authority to recover costs through rates and charges applicable to its retail electricity Customers; and

WHEREAS, Section 8.2 of the ASA directs the Board, based on principles in Exhibit E to the ASA and in connection with the Board's review of the Pooling Authority's resource plan and Budget, to establish annual pro forma retail electricity rates for services provided under the ASA.

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

1. Approves the 2023 Budget for the Pooling Authority attached hereto as Exhibit A, subject to approval by General Counsel as to form.

2. Approves the annual pro forma rate schedule reflecting "Dry Conditions," effective as of January 1, 2023, in the form attached hereto as Exhibit B, subject to approval by General Counsel as to form.

PASSED AND ADOPTED by the PWRPA Board of Directors this 7th day of December 2023, 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 Water Agency (*100.0% Voting Shares*)
NOES	None
ABSENT	

_____
David Weisenberger
Chairman

_____
Attest by: Bruce McLaughlin
Secretary

Exhibit A to Resolution 22-12-19

2023 Budget

2023 BUDGET

December 2, 2022

Draft

Prepared for:

POWER AND WATER RESOURCES
Integrating Critical Resources
PWRPA
POOLING AUTHORITY

Prepared by:

ROBERTSON - BRYAN, INC.
Solutions for Progress

TABLE OF CONTENTS

EXECUTIVE SUMMARY 1

ENERGY REQUIREMENT, SUPPLY, DELIVERY, AND REGULATORY COMPLIANCE ... 2

Energy Requirement 2
Base Resource 2
Portfolio Generation 3
Supplemental Power 4
CAISO Administration 5
Transmission 5
Distribution 5

AUTHORITY OPERATIONS 6

ATTACHMENT A – ANNUAL BUDGET SUMMARIES

ATTACHMENT B – OPERATIONS COST LINE ITEM DEFINITION

Draft

EXECUTIVE SUMMARY

The 2023 budget of $71.2 million accounts for the estimated costs of conducting the business of the Authority members to manage their water presuming Average hydrologic conditions for an average rate of $17.6 cents per kWh. Under Dry hydrologic conditions, the budget is $82.1 million for an average rate of $17.5 cents per kWh. The budget also accounts for the estimated costs of planning and management, power procurement, daily scheduling, billing and paying, regulatory compliance, and reconciliation of costs for the Authority calendar fiscal year.

The 2023 Average year-type budget is 9 percent less in expenses than the 2022 projected costs but 7 percent higher than the composite rate (lower costs over 15 percent less energy). The total costs are lower due to serving less load, lower market prices, lower peak demands (2020 basis) and an increase in Base Resource (BR) energy output (yielding a lower annual BR rate). All those together out-perform the 26% increase in Distribution costs from PG&E.

The 2023 Dry year-type budget modeled after 2022 conditions. The main changes are using the current increased Distribution rates for 2023 and an increase in expected allocation of BR. The budget is 5 percent more in expenses than the 2022 projected costs and 6 percent higher than the composite rate.

The operations budget utilizes the estimates of the work to be performed by ACES Power Marketing (APM), Cameron-Daniel, PC (CD), Robertson-Bryan, Inc. (RBI), Trimark Associates, the Treasurer, and other contractors. Special Projects for 2023 include one item: legal counsel for ongoing PG&E WDT3 matters.

The power supply budget is the same as 2022: BR, Lodi Energy Center, Westlands Bureau of Reclamation (BOR) payback energy, Astoria solar, Whitney Point solar, and Slate solar plus battery project. Slate reached commercial operation in March of 2022, therefore 2023 will be the first year of full operations. Warm Springs is not projected to run for the year as it undergoes maintenance. BR is estimated to produce more than the historically low 2022, but is still dramatically low. The total project resource portfolio supplies 75 percent of the Authority's annual estimated energy consumption under Average conditions, and 60 percent under Dry.

Draft

ENERGY REQUIREMENT, SUPPLY, DELIVERY, AND REGULATORY COMPLIANCE

The below sections will discuss the forecasted cost methodology for each cost category. Tables 2-5 following the text summarizes the costs and resulting rates for both Average and Dry hydrologic conditions.

Energy Requirement

This budget (Table 1) utilizes demands derived from customer review of historical usage and consideration of present Central Valley Project (CVP) reservoir levels. The authority's projected total Average year metered demand is 404,671 MWh — a 15 percent decrease from 2022 actual power usage. The total CAISO load served is 421,560 MWh at a cost of $28.8 million, or $71.25 per MWh, $8 decrease from 2022. Under Dry conditions, load and costs are projected to be the same as 2022.

Base Resource

BR is the net generation of the Central Valley Project after first preference customers and project use. BR costs accrue according to the percent share to which the Authority is entitled, 7.2734 percent. These costs include both direct operations and maintenance costs for USBR and the Western Area Power Administration (WAPA), plus a share of Central Valley Project Improvement Act (CVPIA) Restoration Fund Revenue Requirement. BR costs are budgeted to be lower than 2022 due to a decrease in the Power Revenue Requirement. The estimate of BR supply is the Authority's share of the WAPA's 12-month rolling forecasts of total BR as of November 1, 2022, which considers existing storage and median hydrology. The Authority share of WAPA's estimate for 2023 Average year BR energy after an 11 percent calibration factor (reduction) is 128 GWh, a 58 percent increase from 2022. The Authority's 2023 share of estimated cost related to BR is $5.2 million, yielding an annual rate of $41 per MWh, a $59 per MWh decrease from the 2022 actual rate. BR is projected to bring in $62 per MWh value from the CAISO, totaling $7.9 million. A Dry year hydrology yields 107 GWh for a $49 MWh rate and bringing in an average of $108 MWh of revenue from the CAISO.

A fundamental operation of PWRPA is pooling of BR. Starting in 2019, BR is pooled on a daily basis (as opposed to hourly) in order to maximize the economics of the unit. Pooling is not modeled in the budget process due to the variability of conditions as well as the low generation output making pooling a small impact on the overall District budgets.

Draft

Table 1: Summary of BR energy and rates

PWRPA BR Allocation		Cost	Revenue
Year	MWh	$/MWh	$/MWh
2019	266,893	$ 29.1	$ 33.2
2020	200,180	$ 31.0	$ 39.7
2021	122,830	$ 52.1	$ 71.8
2022	53,400	$ 101.1	$ 115.2
2023 Average	128,130	$ 41.0	$ 62.7
2023 Dry	107,133	$ 49.0	$ 100.8

Portfolio Generation

PWRPA has six projects in its power portfolio.

Westlands BOR Payback is a payback of energy in the form of Base Resource to the Westlands Water District. There is no contract cost for this energy and is estimated to produce 3.9 GWh. The CAISO revenue is estimated at $244 thousand dollars, or $62 per MWh for Average conditions. Dry year revenue is estimated at $422 thousand dollars, or $108 per MWh.

Warm Springs Hydro (WSH) is a small hydro unit owned by Sonoma County Water Agency. The project is not expected to run in 2023.

Lodi Energy Center (LEC) is a combined cycle gas generation plant of which PWRPA has an 8 MW capacity. The costs and revenue are taken from the NCPA forward year budget. The generator is estimated to produce 46 GWh of generation and be down for the usual one month for annual maintenance. The average energy rate inclusive of Green House Gas allowance costs is $77 per MWh; the debt-loaded rate is $95 per MWh. The CAISO revenue is estimated at $2.7 million, or $59 per MWh under Average and brings in $3.7 million or $81 per MWh in Dry.

Whitney Point solar (WP) solar power purchase agreement where PWRPA has 11MW of the 20 MW project. WP is estimated to generate 32 GWh at a fixed rate of $58 per MWh. The CAISO revenue is estimated to bring in $982 thousand dollars, or $32 per MWh under Average and earns $1.3 million or $41 per MWh in Dry.

Astoria solar is a solar power purchase agreement where PWRPA has 10MW of the project. Astoria is estimated to generate 30 GWh at a fixed rate of $63 per MWh. The CAISO revenue is estimated to bring in $976 thousand dollars, or $31 per MWh under Average and $1.3 million or 43 per MWh under Dry hydrologic conditions.

Slate solar plus battery is a power purchase agreement where PWRPA has 26MW of solar and 10MW battery storage. Slate is estimated to generate 76 GWh at a fixed rate of $27 per MWh.

Draft

The CAISO revenue is conservatively estimated at $2.4 million, or $31 per MWh under both Average and Dry conditions. Slate solar costs and revenues are categorized in the Generation category, whereas the Battery is in the Resource Adequacy/Capacity category. Slate reached commercial operation in March of 2022 and is still a fairly new concept in the CAISO, a hybrid resource. Start-up operations and working out dispatch logic persisted for the first six months of operation, therefore, we expect 2023 to run more smoothly and earn higher revenues.

All costs and revenues are allocated directly to PWRPA Districts according to the subscription shares of each project. This change came from the Board at the August 2019 meeting as a recommendation from the Operations Task Team. Prior to the change, all resource credits were socialized to offset PWRPA's load cost.

The 2023 forecasted load is 75 percent covered with existing supplies under Average and 60 percent under Dry. BR covers 30 percent of the load and 45 percent is covered by special projects under Average. For Dry conditions, BR covers 30 percent and special projects 39 percent. The total portfolio cost is a weighted variable rate of $49 per MWh (including forecast LEC variable costs, excluding LEC fixed annual debt cost of $800 thousand).

Draft

Supplemental Power

Supplemental power supplies can include day-ahead index-priced and/or monthly fixed-price fixed-quantity power. The Authority participants manage their respective shares of these types of supplemental power within the Authority risk policies. There are no fixed contracts at the time of budget adoption. PWRPA has a 25 percent exposure under Average and 40 percent under Dry.

Also included in the Supplemental category are Regulatory Compliance items. Many of PWRPA's resources carry some attributes, and these line items procure the additional need for the Authority.

- Resource Adequacy/Capacity (RA) is allocated to Districts based on their pro rata share of PWRPA's peak load. Some resources in PWRPA's portfolio have RA value and each District gets their contract share to count towards their obligation to offset exposure. PWPRA's current portfolio (inclusive of Slate Solar and Battery) covers 50 percent of PWRPA's Local requirement and 60 percent of System needs. The 2023 budget includes:
    - Contingency funds for a portion of PWPRA's exposure add $900 thousand.

    - Slate Battery Capacity costs. This is a 10MW battery that is approved for system, local, and flexible capacity counting. Total costs are $804 thousand.

- California has a Renewable Portfolio Standard and 2023 is the third year in compliance period 4 (CP4). The 2023 budget includes procurement of 60% of PWRPA's short-term Renewable Energy Credit (REC) purchases from third parties. The total amount included in the budget is $1 million. The remaining need will be procured in 2024, the final year of the compliance period.

- Carbon offset costs are included for Districts who request to be 100 percent carbon free.

CAISO Administration

The California Independent System Operator (CAISO) manages the transmission grid in most of the Authority's service area. It provides regulation of voltage and frequency, operating reserves, and makes a market to balance the five-minute energy supply with the actual use.

The Authority estimates a budget of $1.6 million for CAISO administration and Ancillary Services under Average and $2.1 million for Dry. The cost line items include ancillary services, bid cost recovery, FERC, GMC, and other administrative costs. The 2022 actual costs are used as the basis for estimating the 2023 costs.

Transmission

We estimate $14.3 million in Transmission Access Charges (TAC) for Average and $16.7 million for Dry. TAC charges apply to all energy and comprised of two rates: high- and low-voltage tariffs. The high voltage rate is applicable to all the Authority's energy; in addition, the low-voltage rate applies to about 90 percent of the loads. The CAISO can change these rates during the year; therefore, the budget includes the current published rate plus 5 percent.

Distribution

Distribution costs cover the Wholesale Distribution Tariff (WDT) assessed through PG&E. All meters are subject to their applicable PG&E pass-through rates and a share of the administration costs. The 2023 Average budget's distribution costs are $21.6 million based on 2020 meter peaks, $24.2 million for Dry (using 2022 peaks). The charges are greatly increased from prior years due to the change to WDT3 which took effect in June 2021. The budget uses the currently filed rates for rate year 2023 (as of December 2, 2022). WDT rates now change annually and also have a true-up included for two years ago. The 2023 rates are high due to an increase in

Draft

PGE's Distribution Revenue Requirement, as well as the true-up for 2021 (which was based on wet 2019 demands).

The Authority also pays Cost of Ownership (CoO) charges from PG&E. These are meter specific charges for new interconnections under the Settlement Agreement WDT and for meters taking service under a rate offering (called Primary Plus) for Westlands Water District. Additionally, a select 108 accounts from the WAPA WDT agreement are taking service under the Primary Plus option.

AUTHORITY OPERATIONS

The operations budget utilizes the Managers' estimates of operation costs. The operations budget is an estimate of labor to manage and operate the Authority.

Budgeted operations costs for the Authority are approximately 3.1 percent of the Authority's total estimated costs for 2023, about 7 percent above the 2022 actual costs. We anticipate that some 2022 overhead costs are still outstanding and that margin will decrease.

Below is a summary of the tasks that fall into each budget category and the cost allocation methodology.

Joint Power Authority (JPA) Costs

- Cost Allocation: Seat at the Table (1/14)
- This category includes items that would exist just to form as a JPA, no electricity service items – that is the Aggregated Service Agreement (ASA). The Budget Ad-hoc Committee reviewed the JPA contract and lined out functions accordingly.
- Functions include:
    - General Management: Board Meetings, Overhead Budget, Strategic Policy, Planning/Vendor Coordination
    - General Counsel: Conflicts of Interests, JPA/ASA/CSA agreements, Board Meetings, Strategic Counsel
    - Treasurer: 20% of actual time
    - Audits/Office Supplies: 20% of actual time

ASA: Utility Management

- Cost Allocation: Voting Share
- This category includes items that we need to manage the electric utility.
- Functions include:

Draft

- Utility Management: Treasurer (80% of actual time), Power Budget, Planning/Staff Coordination, Cost Reconciliation, Insurance, etc.
- Utility Counsel: Compliance, Legislative/Regulatory, FERC

ASA: Utility Operations – Fixed

- Cost Allocation: Voting Share
- Items in this category are for the long-term and steady in nature. They include items that are carried out for the Authority and the level of service is based on current operating protocols and risk tolerance.
- Functions include:
  - Scheduling Coordinator required for CAISO grid scheduling
  - MCG EAS, IAM, and HDS systems (portion of total cost)
  - Regulatory Reporting
  - Power Invoices and Operations Reports

ASA: Utility Operations – Variable

- Cost Allocation: Actual Energy
- Items in this category are operational activities that are variable in nature. Levels of effort can change with the status and size of loads. If Districts load changes, efforts here would change as well.
- Functions include:
  - Daily Portfolio Management
  - Monthly Portfolio Planning
  - MCG EAS, IAM, and HDS systems (portion of total cost)

ASA: Metering

- Cost Allocation: Ratio Share of Meter Count
- Services are meter data management work and meter service request efforts. There is no change in this category from previous budget layout and cost allocation.

Special Projects

Items in this category are anything with a specific project agreement or activities related to specific Districts. All agreements and cost sharing documents specific to special projects carry their overheads.

Draft

Special Projects for 2023 are:

- Resource Special Projects – these include Base Resource, Lodi Energy Center, Astoria, Whitney Point, Warm Springs, Slate, and Westlands BOR payback. These resource projects will carry their own overheads that include grid scheduler time, portfolio management and settlements, regulatory reporting, monthly meetings, etc.
- Legal counsel and research related to tracking the ongoing PG&E WDT case.

Table 2. Summary of Authority Costs - Average

Average Cost Components	2023 Budget	2022 Actual	Compare
Total Metered kWh	404,671,344	473,626,012	-15%
Overhead - JPA & ASA	$ 2,230,415	$ 2,075,519	7%
Distribution	$ 21,613,929	$ 19,262,024	12%
Transmission	$ 14,326,280	$ 16,196,437	-12%
Grid Mgmt & Misc	$ 1,618,685	$ 2,058,191	-21%
CAISO Load Cost	$ 28,833,019	$ 37,597,082	-23%
District-Specific Projects	$ (212,424)	$ (340,294)	-38%
Base Resource	$ (2,589,772)	$ (756,169)	242%
Generation	$ 2,519,452	$ 1,095,269	130%
Supplemental	$ 2,916,452	$ 801,641	264%
Total Costs	$ 71,256,036	$ 77,989,699	-9%

Table 3. Summary of Authority Costs – Dry

Dry Cost Components	2023 Budget	2022 Actual	Compare
Total Metered kWh	468,788,103	473,626,012	-1%
Overhead - JPA & ASA	$ 2,230,415	$ 2,075,519	7%
Distribution	$ 24,193,539	$ 19,262,024	26%
Transmission	$ 16,725,092	$ 16,196,437	3%
Grid Mgmt & Misc	$ 2,109,546	$ 2,058,191	2%
CAISO Load Cost	$ 38,014,147	$ 37,597,082	1%
District-Specific Projects	$ (390,232)	$ (340,294)	15%
Base Resource	$ (5,468,864)	$ (756,169)	623%
Generation	$ 1,005,090	$ 1,095,269	-8%
Supplemental	$ 3,720,452	$ 801,641	364%
Total Costs	$ 82,139,185	$ 77,989,699	5%

Table 4. Summary of Authority Rates - Average

Cents per kWh	2023 Budget	2022 Actual	Compare
Total Metered kWh	404,671,344	473,626,012	-15%
Overhead	0.55	0.44	26%
Delivery	9.28	7.92	17%
Energy	7.78	8.11	-4%
Total Costs	17.61	16.47	7%

Draft

Table 5. Summary of Authority Rates – Dry

Cents per kWh			
	2023 Budget	2022 Actual	Compare
Total Metered kWh	468,788,103	473,626,012	-1%
Overhead	0.48	0.44	9%
Delivery	9.18	7.92	16%
Energy	7.87	8.11	-3%
Total Costs	17.52	16.47	6%

Draft

ATTACHMENT A
ANNUAL BUDGET SUMMARIES

Draft

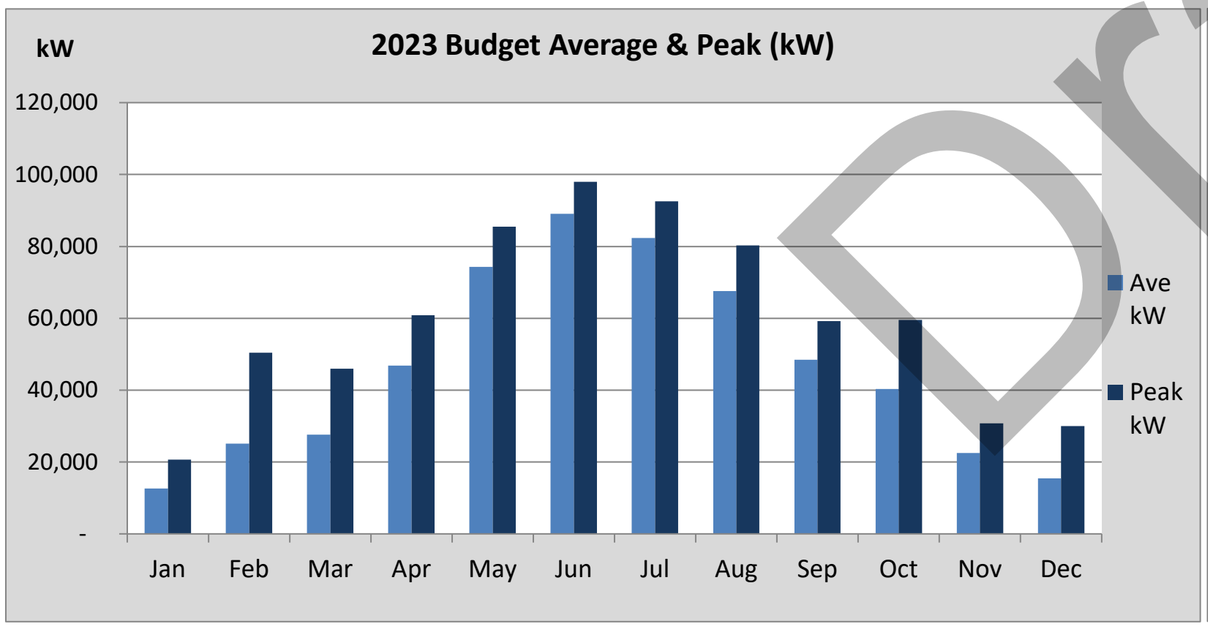
Power and Water Resources Pooling Authority

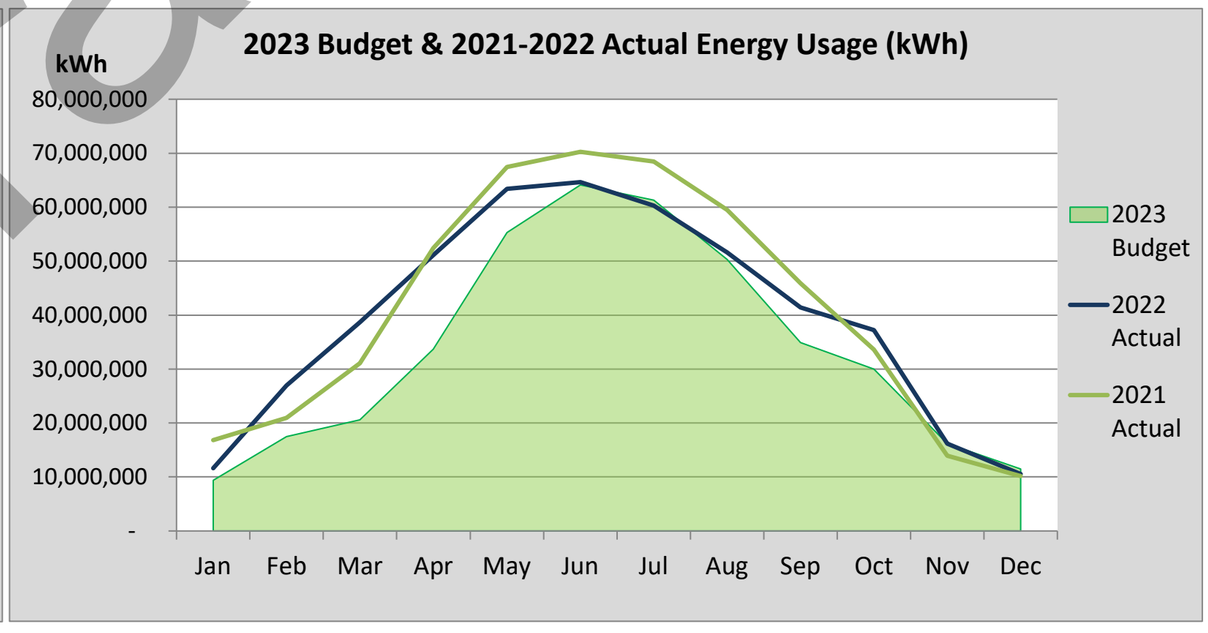
Energy Summary, Metered kWh

PWRPA

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	20,654	12,629	9,395,955	35,106	15,580	11,591,574	70,937	22,617	16,827,315	-41%	-19%	-19%
Feb	50,415	25,067	17,446,957	58,315	38,677	26,918,874	88,419	30,098	20,948,187	-14%	-35%	-35%
Mar	45,981	27,654	20,574,302	73,766	52,015	38,699,350	103,776	41,855	31,098,422	-38%	-47%	-47%
Apr	60,857	46,782	33,683,274	92,888	70,960	51,091,296	133,084	72,795	52,412,715	-34%	-34%	-34%
May	85,518	74,300	55,278,880	104,482	85,174	63,369,554	138,480	90,618	67,419,745	-18%	-13%	-13%
Jun	97,921	89,047	64,113,866	102,050	89,777	64,639,664	141,631	97,574	70,253,386	-4%	-1%	-1%
Jul	92,555	82,343	61,263,422	92,827	81,078	60,322,353	137,470	91,966	68,422,951	0%	2%	2%
Aug	80,232	67,608	50,300,071	86,354	69,356	51,600,630	130,111	80,008	59,525,971	-7%	-3%	-3%
Sep	59,182	48,474	34,901,166	77,669	57,505	41,403,513	114,555	63,697	45,861,963	-24%	-16%	-16%
Oct	59,579	40,332	30,006,834	71,178	50,046	37,234,194	102,974	45,161	33,600,023	-16%	-19%	-19%
Nov	30,770	22,498	16,198,868	47,538	22,512	16,208,750	74,180	19,373	13,968,115	-35%	0%	0%
Dec	30,035	15,467	11,507,749	26,106	14,671	10,546,262	51,317	13,664	10,165,792	15%	5%	9%
2023			404,671,344			473,626,012			490,504,585			-15%





Draft

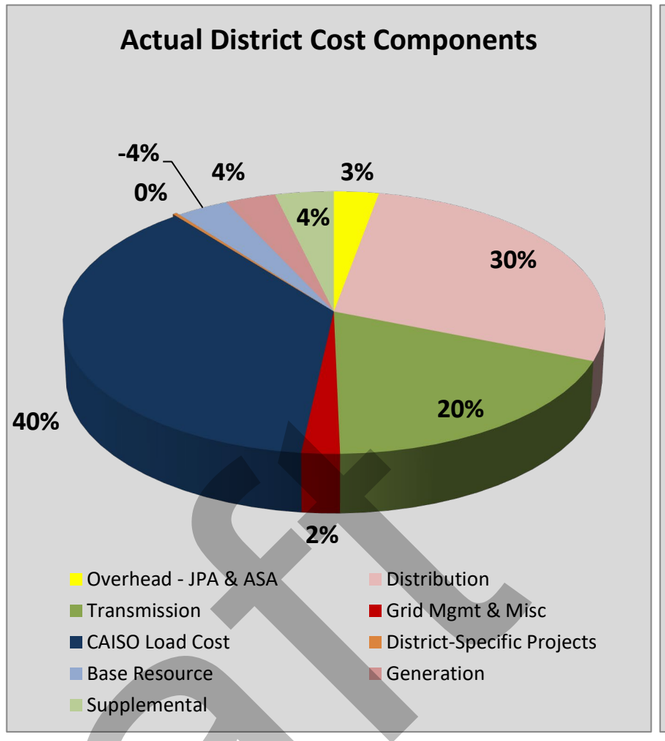
Power and Water Resources Pooling Authority

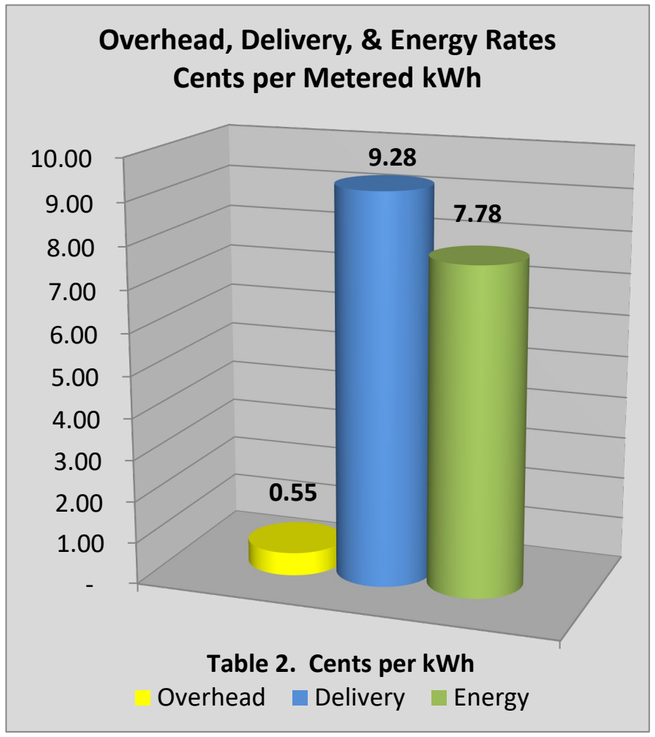
2023 Budget & 2022 Actual Annual Cost Summary

Table 1. Cost Components					
	2023 Budget		2022 Actual	Compare	
Total Metered kWh	404,671,344		473,626,012	-15%	
Overhead - JPA & ASA	$ 2,230,415	$	2,075,519	7%	
Distribution	$ 21,613,929	$	19,262,024	12%	
Transmission	$ 14,326,280	$	16,196,437	-12%	
Grid Mgmt & Misc	$ 1,618,685	$	2,058,191	-21%	
CAISO Load Cost	$ 28,833,019	$	37,597,082	-23%	
District-Specific Projects	$ (212,424)	$	(340,294)	-38%	
Base Resource	$ (2,589,772)	$	(756,169)	242%	
Generation	$ 2,519,452	$	1,095,269	130%	
Supplemental	$ 2,916,452	$	801,641	264%	
Total Costs	$ 71,256,036	$	77,989,699	-9%	

4% Loss Adjustment

Table 2. Cents per kWh				
	2023 Budget	2022 Actual	Compare	
Total Metered kWh	404,671,344	473,626,012	-15%	
Overhead	0.55	0.44	26%	
Delivery	9.28	7.92	17%	
Energy	7.78	8.11	-4%	
Total Costs	17.61	16.47	7%	



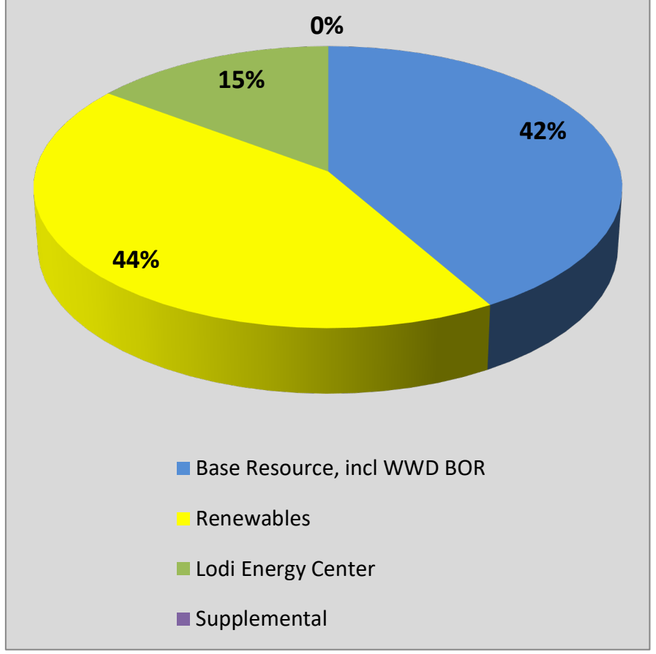


2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)								
	Energy kWh		Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	421,560,583	$	28,833,019	6.84		-	$ 28,833,019	6.84
Distirct Specific - Warm Springs	-	$	-	-	$ -	-	$ -	-
District Specific - BOR Payback	3,904,000	$	-	-	$ (244,779)	(6.27)	$ (244,779)	(6.27)
Base Resource	128,130,627	$	5,251,873	4.10	$ (7,920,083)	(6.18)	$ (2,668,210)	(2.08)
Base Resource Pooling	-	$	-	-	$ -	-	$ -	-
Generation - LEC	46,888,620	$	3,617,514	7.72	$ (2,768,603)	(5.90)	$ 848,910	1.81
Generation - Astoria	30,205,228	$	1,902,929	6.30	$ (976,300)	(3.23)	$ 926,629	3.07
Generation - Whitney	31,772,950	$	1,866,661	5.88	$ (982,014)	(3.09)	$ 884,647	2.78
Generation - Slate PV	75,971,803	$	2,036,804	2.68	$ (2,379,123)	(3.13)	$ (342,319)	(0.45)
Generation - Slate BESS	-	$	804,000	-	$ (751,302)	-	$ 52,698	-
Supplemental - Fixed	-	$	-	-	$ -	-	$ -	-
Supplemental - Variable	-	$	-	-	$ -	-	$ -	-
CAISO Real-time Imbalance	104,687,356							
Total Loss Adjusted kWh	421,560,583	$	44,312,800	10.51	$ (16,022,205)	(3.80)	$ 28,290,595	6.71

Table 4. Resource Summary (Total Cost with Overheads)								
	Energy kWh		Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	421,560,583	$	28,833,019	6.84			$ 28,833,019	6.84
Base Resource, incl WWD BOR	132,034,627	$	5,346,488	4.05	$ (8,164,862)	(6.18)	$ (2,818,374)	(2.13)
Renewables	137,949,980	$	5,908,104	4.28	$ (4,337,438)	(3.14)	$ 1,570,666	1.14
Lodi Energy Center	46,888,620	$	4,454,691	9.50	$ (2,768,603)	(5.90)	$ 1,686,088	3.60
Supplemental	-	$	-	-	$ -	-	$ -	-
RA & RECs		$	2,142,629				$ 2,142,629	
Resource Subtotal	316,873,227	$	17,851,913	5.63	$ (15,270,903)	(4.82)	$ 2,581,010	0.81
Net Portfolio	421,560,583						$ 31,414,029	7.45

Percent of Load Covered *75%*



Draft

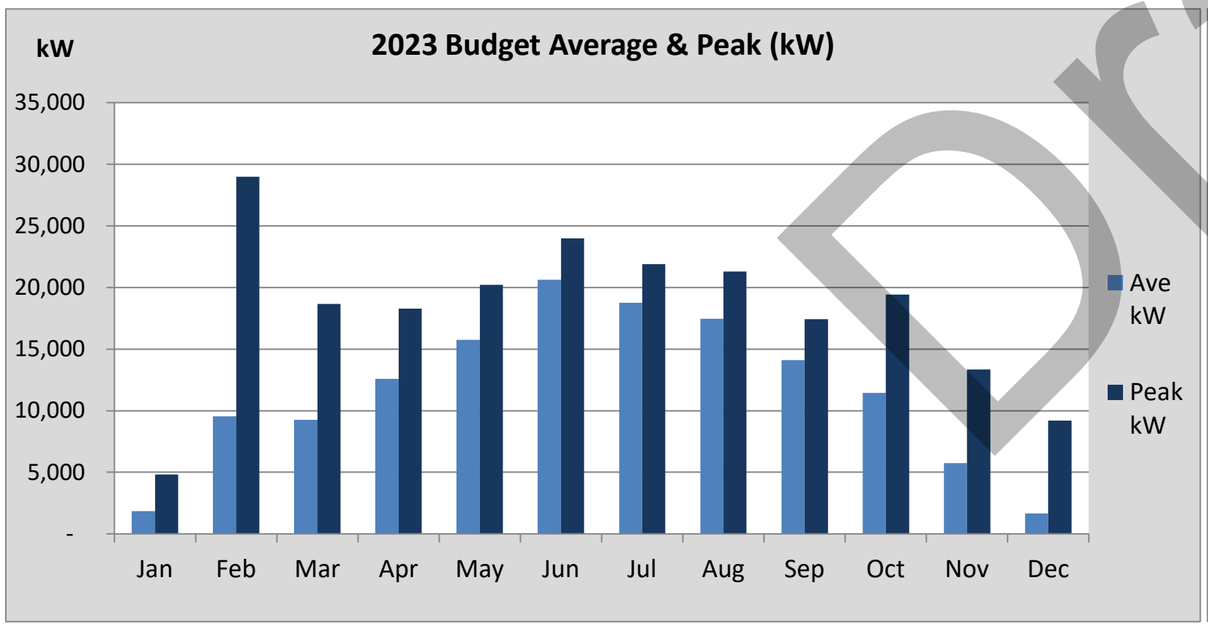
Power and Water Resources Pooling Authority

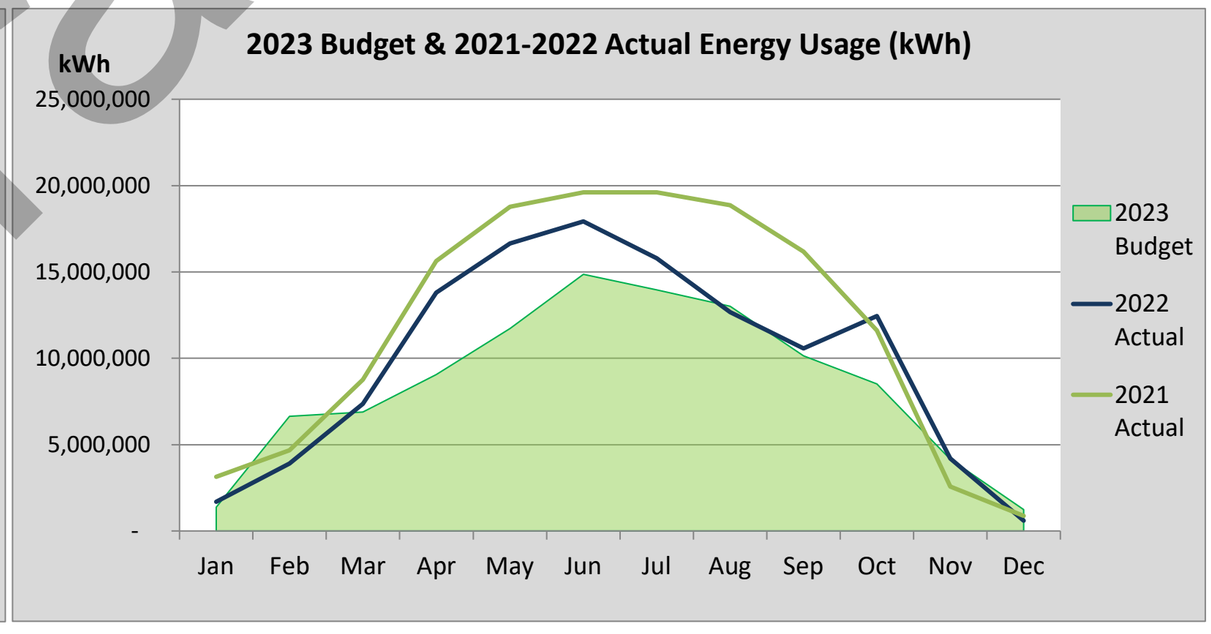
Energy Summary, Metered kWh

Arvin-Edison

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	4,827	1,832	1,362,701	7,249	2,270	1,689,069	15,979	4,208	3,130,475	-33%	-19%	-19%
Feb	28,977	9,535	6,636,641	13,057	5,594	3,893,393	23,218	6,714	4,672,915	122%	70%	70%
Mar	18,652	9,264	6,892,648	22,352	9,881	7,351,691	29,592	11,779	8,751,585	-17%	-6%	-6%
Apr	18,279	12,584	9,060,354	30,828	19,161	13,796,269	36,520	21,703	15,626,519	-41%	-34%	-34%
May	20,206	15,742	11,712,245	32,020	22,385	16,654,130	37,968	25,223	18,766,113	-37%	-30%	-30%
Jun	23,988	20,640	14,860,797	32,509	24,895	17,924,690	36,987	27,233	19,608,073	-26%	-17%	-17%
Jul	21,903	18,761	13,958,532	27,156	21,235	15,798,529	36,162	26,348	19,603,048	-19%	-12%	-12%
Aug	21,280	17,474	13,000,797	30,826	17,020	12,663,177	36,094	25,346	18,857,601	-31%	3%	3%
Sep	17,435	14,096	10,149,132	23,461	14,694	10,579,915	32,863	22,466	16,175,167	-26%	-4%	-4%
Oct	19,414	11,434	8,506,552	29,305	16,731	12,447,914	31,056	15,594	11,601,797	-34%	-32%	-32%
Nov	13,344	5,753	4,142,428	17,360	5,822	4,191,543	15,764	3,565	2,570,616	-23%	-1%	-1%
Dec	9,185	1,669	1,241,412	4,418	803	597,171	14,122	1,174	873,545	108%	108%	108%
2023			101,524,239			117,587,491			140,237,455			-14%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

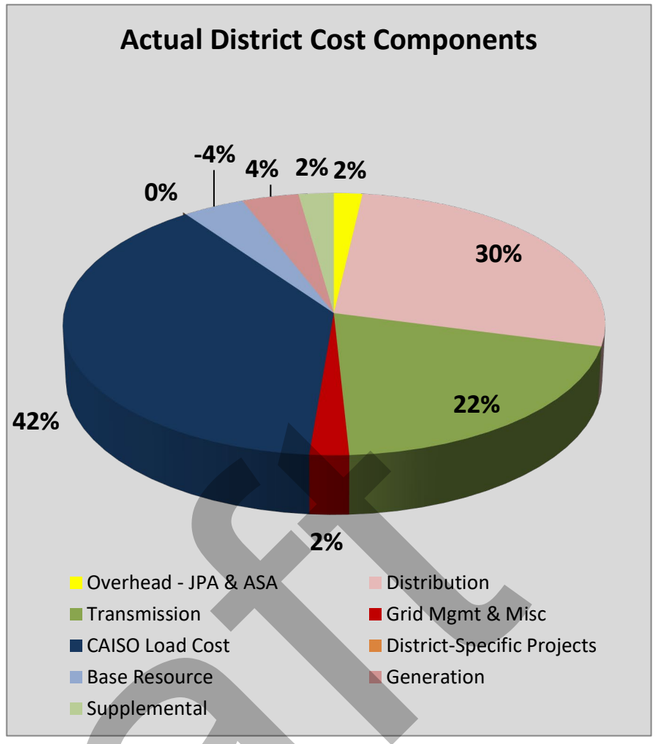
Table 1. District Cost Components

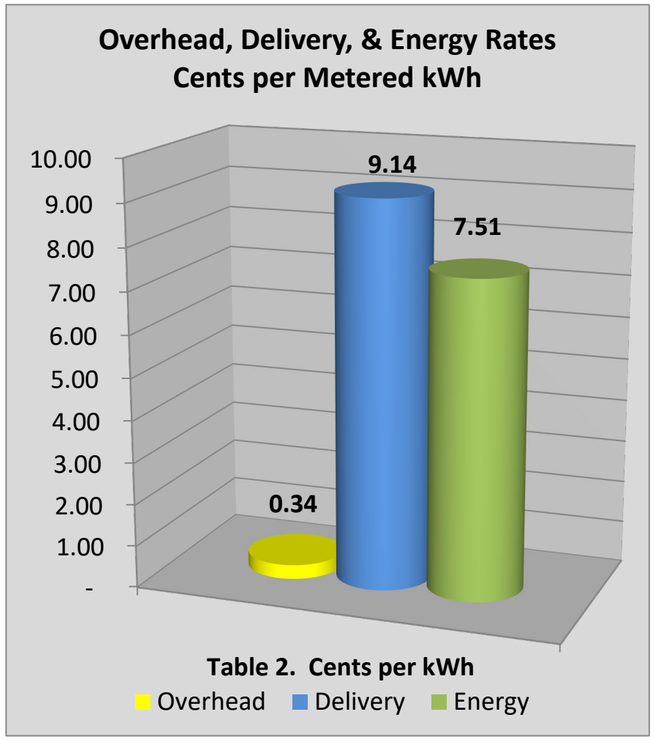
	2023 Budget	2022 Actual	Compare
Total Metered kWh	101,524,239	117,587,491	-14%
Overhead - JPA & ASA	$ 345,071	$ 315,808	9%
Distribution	$ 5,102,214	$ 4,094,277	25%
Transmission	$ 3,772,211	$ 4,176,498	-10%
Grid Mgmt & Misc	$ 406,097	$ 503,939	-19%
CAISO Load Cost	$ 7,260,104	$ 9,450,997	-23%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (750,743)	$ (221,839)	238%
Generation	$ 689,864	$ 271,997	154%
Supplemental	$ 425,701	$ 271,675	57%
Total Costs	$ 17,250,521	$ 18,863,352	-9%

4% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	101,524,239	117,587,491	-14%
Overhead	0.34	0.27	27%
Delivery	9.14	7.46	22%
Energy	7.51	8.31	-10%
Total Costs	16.99	16.04	6%





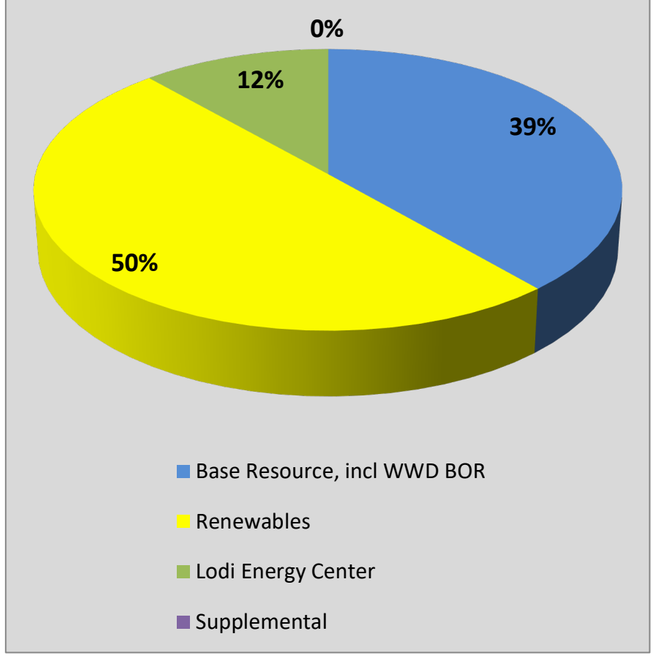
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	105,281,147	$ 7,260,104	6.90		-	$ 7,260,104	6.90
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	37,143,460	$ 1,522,452	4.10	$ (2,295,933)	(6.18)	$ (773,481)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	11,092,844	$ 855,826	7.72	$ (654,992)	(5.90)	$ 200,834	1.81
Generation - Astoria	11,582,720	$ 729,711	6.30	$ (374,379)	(3.23)	$ 355,332	3.07
Generation - Whitney	10,109,517	$ 593,934	5.88	$ (312,457)	(3.09)	$ 281,477	2.78
Generation - Slate PV	26,306,699	$ 705,283	2.68	$ (823,817)	(3.13)	$ (118,535)	(0.45)
Generation - Slate BESS	-	$ 80,400	-	$ (260,153)	-	$ (179,753)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	9,045,907						
Total Loss Adjusted kWh	105,281,147	$ 11,747,711	11.16	$ (4,721,732)	(4.48)	$ 7,025,979	6.67

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	105,281,147	$ 7,260,104	6.90			$ 7,260,104	6.90
Base Resource, incl WWD BOR	37,143,460	$ 1,545,190	4.16	$ (2,295,933)	(6.18)	$ (750,743)	(2.02)
Renewables	47,998,936	$ 2,058,752	4.29	$ (1,510,654)	(3.15)	$ 548,098	1.14
Lodi Energy Center	11,092,844	$ 1,053,893	9.50	$ (654,992)	(5.90)	$ 398,901	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 348,319				$ 348,319	
Resource Subtotal	96,235,240	$ 5,006,154	5.20	$ (4,461,579)	(4.64)	$ 544,575	0.57
Net Portfolio	105,281,147					$ 7,804,679	7.41
Percent of Load Covered	*91%*						



Draft

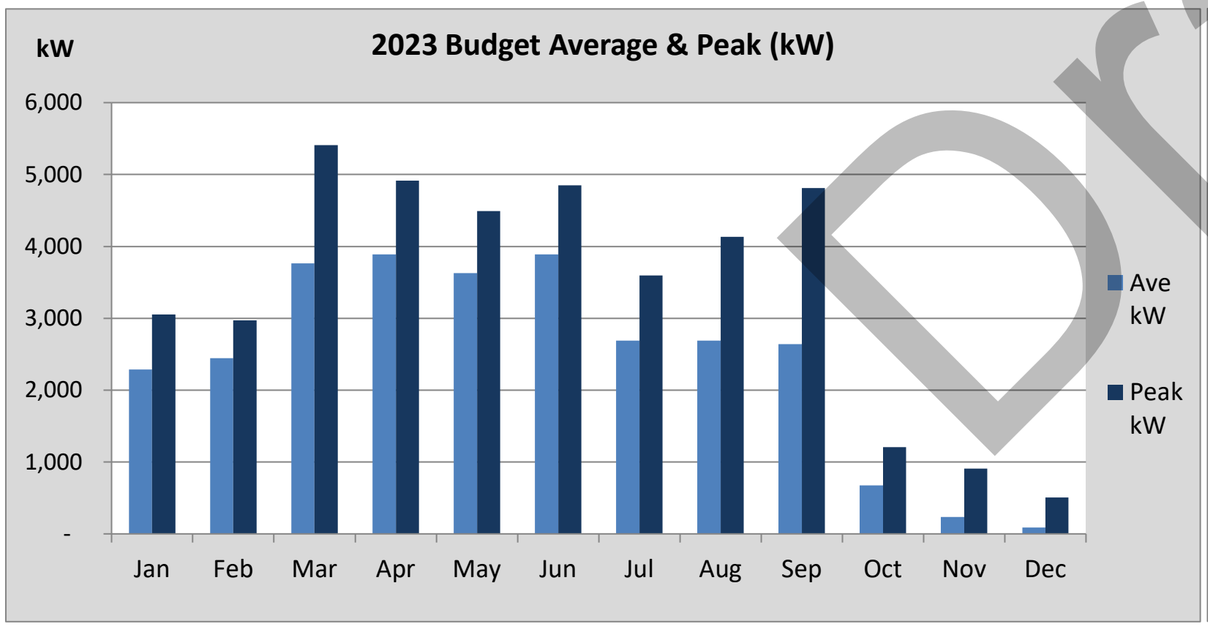
Power and Water Resources Pooling Authority

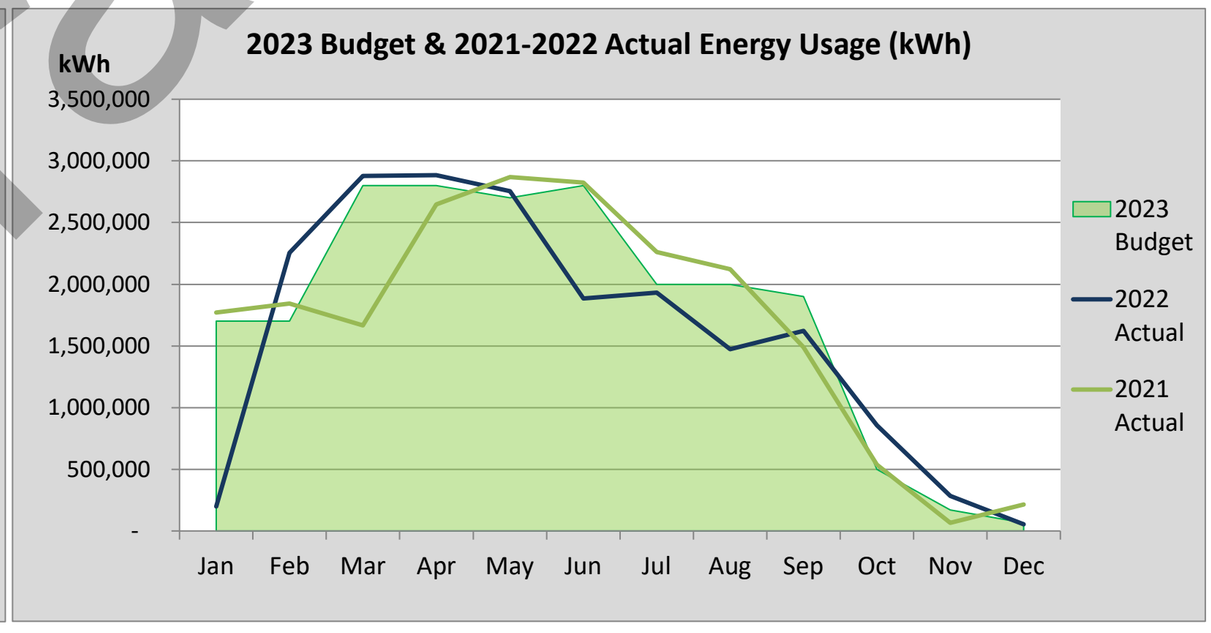
Energy Summary, Metered kWh

Banta-Carbona

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	3,055	2,285	1,700,000	2,519	268	199,741	3,228	2,378	1,769,350	21%	751%	751%
Feb	2,971	2,443	1,700,000	4,328	3,238	2,253,688	3,222	2,648	1,842,786	-31%	-25%	-25%
Mar	5,408	3,763	2,800,000	4,665	3,869	2,878,634	3,250	2,242	1,665,852	16%	-3%	-3%
Apr	4,915	3,889	2,800,000	4,930	4,006	2,884,326	4,764	3,675	2,645,671	0%	-3%	-3%
May	4,493	3,629	2,700,000	4,744	3,703	2,754,942	4,846	3,856	2,868,993	-5%	-2%	-2%
Jun	4,852	3,889	2,800,000	3,408	2,617	1,884,119	4,897	3,925	2,825,682	42%	49%	49%
Jul	3,597	2,688	2,000,000	3,129	2,598	1,932,571	4,080	3,040	2,261,557	15%	3%	3%
Aug	4,135	2,688	2,000,000	2,662	1,980	1,473,166	4,393	2,854	2,123,030	55%	36%	36%
Sep	4,809	2,639	1,900,000	3,466	2,255	1,623,493	3,784	2,067	1,488,099	39%	17%	17%
Oct	1,209	672	500,000	1,858	1,153	858,037	1,301	723	537,777	-35%	-42%	-42%
Nov	910	236	170,000	1,913	393	282,672	358	91	65,895	-52%	-40%	-40%
Dec	505	87	65,000	505	87	54,058	1,676	289	215,136	0%	0%	20%
2023			21,135,000			19,079,447			20,309,827			11%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

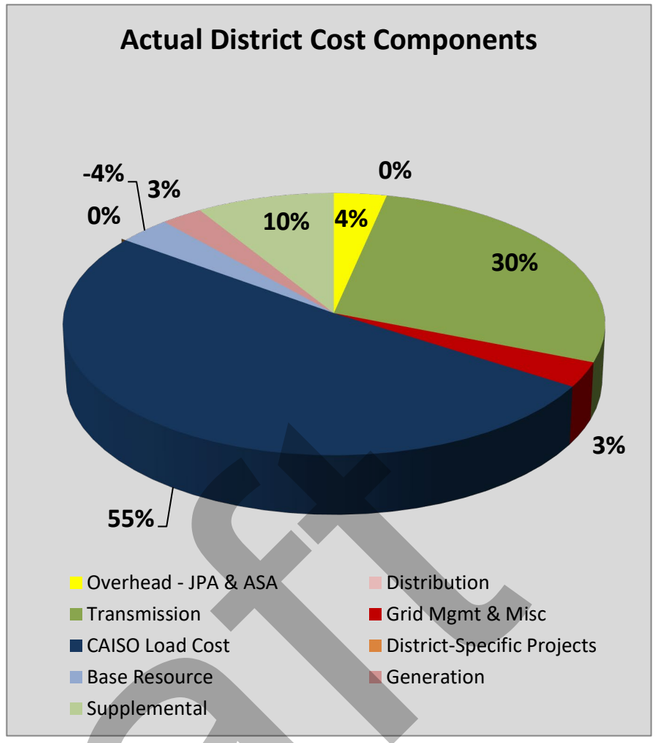
Table 1. District Cost Components

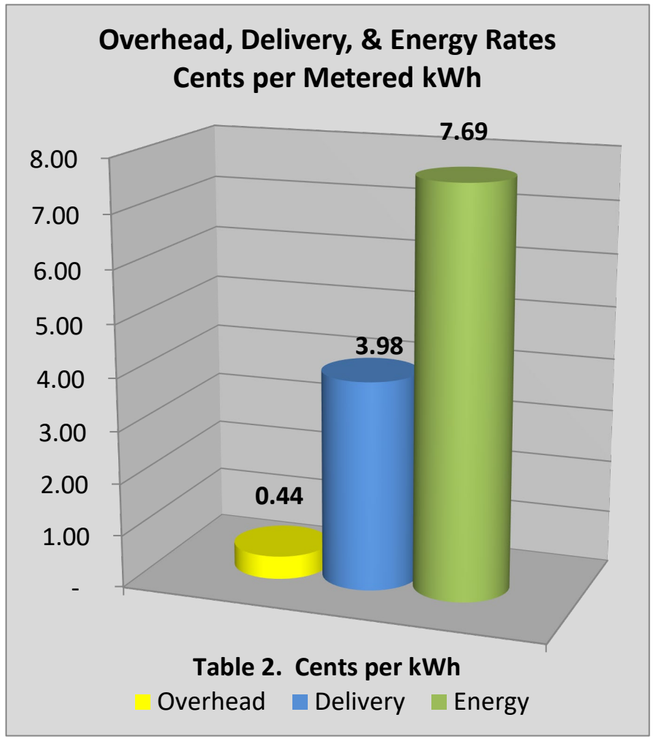
	2023 Budget	2022 Actual	Compare
Total Metered kWh	21,135,000	19,079,447	11%
Overhead - JPA & ASA	$ 93,484	$ 73,609	27%
Distribution	$ -	$ -	0%
Transmission	$ 757,265	$ 657,550	15%
Grid Mgmt & Misc	$ 84,540	$ 75,349	12%
CAISO Load Cost	$ 1,398,629	$ 1,354,829	3%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (92,591)	$ (26,744)	246%
Generation	$ 74,412	$ 7,986	832%
Supplemental	$ 245,040	$ (5,714)	-4389%
Total Costs	$ 2,560,779	$ 2,136,865	20%

0% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	21,135,000	19,079,447	11%
Overhead	0.44	0.39	15%
Delivery	3.98	3.84	4%
Energy	7.69	6.97	10%
Total Costs	12.12	11.20	8%





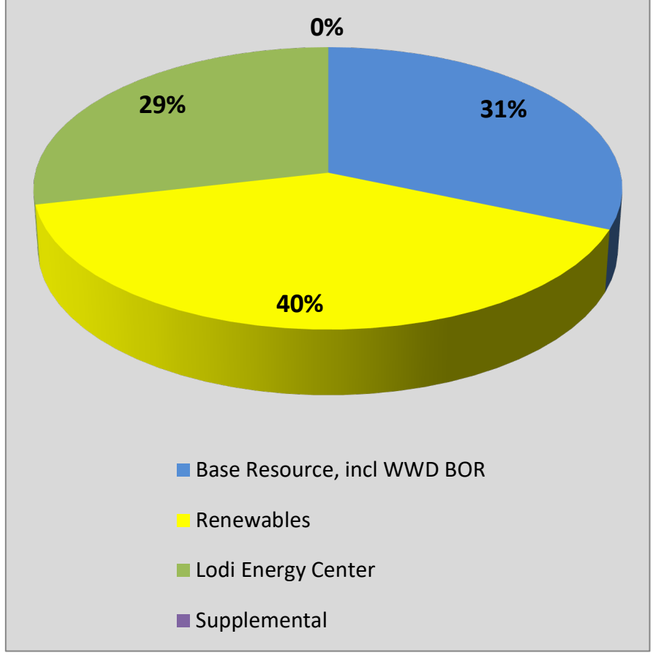
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	21,135,000	$ 1,398,629	6.62		-	$ 1,398,629	6.62
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	4,581,016	$ 187,769	4.10	$ (283,164)	(6.18)	$ (95,396)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	4,171,778	$ 321,858	7.72	$ (246,328)	(5.90)	$ 75,529	1.81
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	5,843,400	$ 156,662	2.68	$ (182,991)	(3.13)	$ (26,330)	(0.45)
Generation - Slate BESS	-	$ 160,800	-	$ (57,787)	-	$ 103,013	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	6,538,805						
Total Loss Adjusted kWh	21,135,000	$ 2,225,717	10.53	$ (770,271)	(3.64)	$ 1,455,447	6.89

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	21,135,000	$ 1,398,629	6.62			$ 1,398,629	6.62
Base Resource, incl WWD BOR	4,581,016	$ 190,573	4.16	$ (283,164)	(6.18)	$ (92,591)	(2.02)
Renewables	5,843,400	$ 159,137	2.72	$ (182,991)	(3.13)	$ (23,854)	(0.41)
Lodi Energy Center	4,171,778	$ 396,346	9.50	$ (246,328)	(5.90)	$ 150,018	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 90,275				$ 90,275	
Resource Subtotal	14,596,195	$ 836,331	5.73	$ (712,484)	(4.88)	$ 123,847	0.85
Net Portfolio	21,135,000					$ 1,522,477	7.20
Percent of Load Covered	*69%*						



Draft

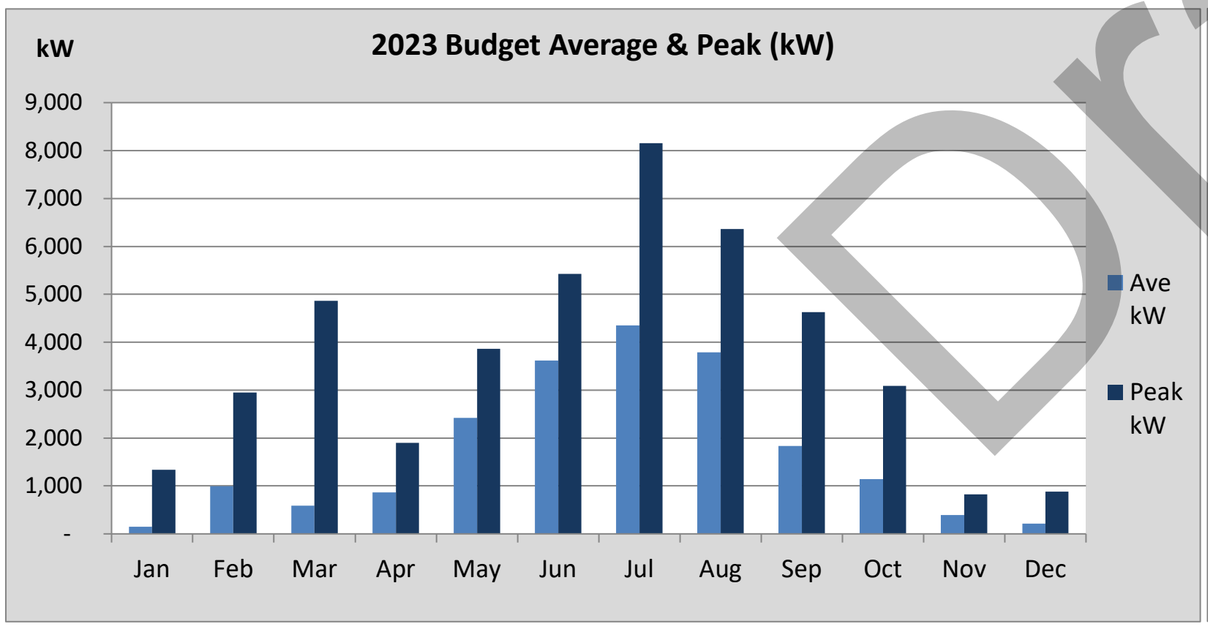
Power and Water Resources Pooling Authority

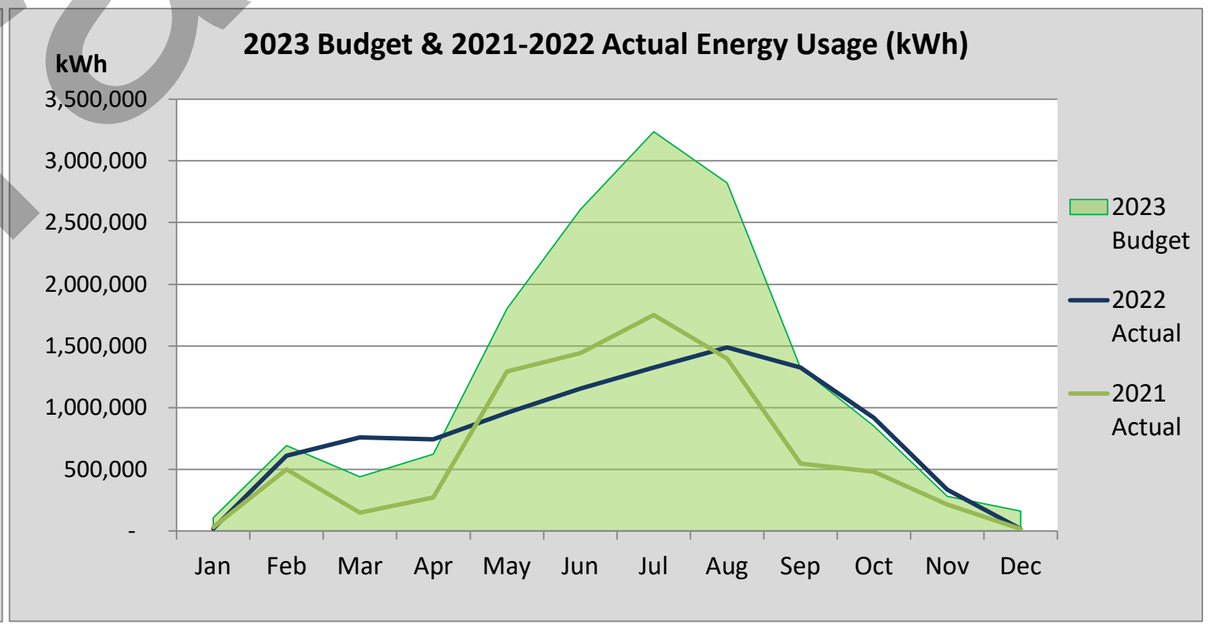
Energy Summary, Metered kWh

Cawelo

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	1,338	145	107,699	89	25	18,766	406	43	32,138	1412%	474%	474%
Feb	2,950	996	693,322	1,655	878	611,430	2,145	719	500,189	78%	13%	13%
Mar	4,864	589	437,878	1,553	1,021	759,461	1,753	201	149,569	213%	-42%	-42%
Apr	1,899	863	621,089	2,317	1,030	741,874	928	378	271,852	-18%	-16%	-16%
May	3,863	2,422	1,801,687	1,966	1,287	957,198	3,349	1,737	1,292,172	97%	88%	88%
Jun	5,428	3,621	2,607,238	2,200	1,604	1,154,541	3,554	2,004	1,442,843	147%	126%	126%
Jul	8,151	4,350	3,236,506	3,473	1,779	1,323,898	4,821	2,353	1,750,999	135%	144%	144%
Aug	6,366	3,792	2,821,386	2,426	2,000	1,488,105	3,235	1,877	1,396,190	162%	90%	90%
Sep	4,628	1,836	1,322,089	2,422	1,842	1,326,074	2,687	758	545,890	91%	0%	0%
Oct	3,088	1,144	851,225	2,760	1,233	917,250	1,979	646	480,410	12%	-7%	-7%
Nov	828	389	280,407	1,504	464	334,121	1,273	299	215,396	-45%	-16%	-16%
Dec	881	215	160,150	3,780	215	16,407	165	22	16,407	-77%	0%	876%
2023			14,940,674			9,649,125			8,094,054			55%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

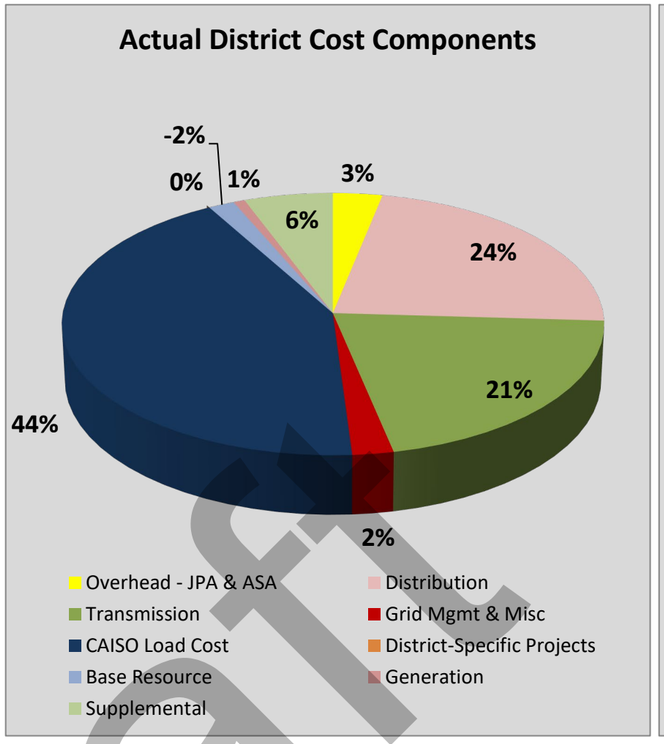
Table 1. District Cost Components

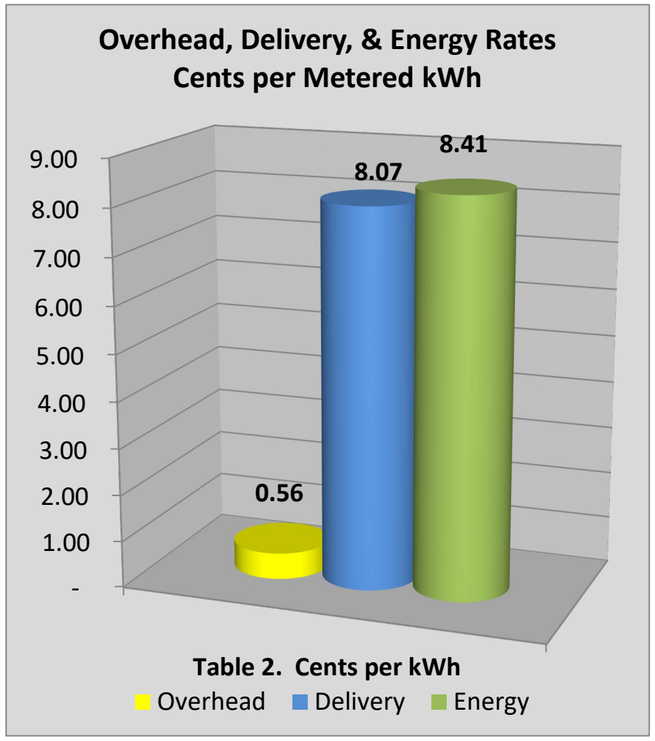
	2023 Budget	2022 Actual	Compare
Total Metered kWh	14,940,674	9,649,125	55%
Overhead - JPA & ASA	$ 84,257	$ 71,982	17%
Distribution	$ 598,800	$ 453,505	32%
Transmission	$ 547,203	$ 337,461	62%
Grid Mgmt & Misc	$ 59,763	$ 45,034	33%
CAISO Load Cost	$ 1,130,101	$ 808,776	40%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (44,465)	$ (13,084)	240%
Generation	$ 19,622	$ (66,494)	-130%
Supplemental	$ 151,260	$ 2,503	5942%
Total Costs	$ 2,546,541	$ 1,639,683	55%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	14,940,674	9,649,125	55%
Overhead	0.56	0.75	-24%
Delivery	8.07	8.66	-7%
Energy	8.41	7.58	11%
Total Costs	17.04	16.99	0%





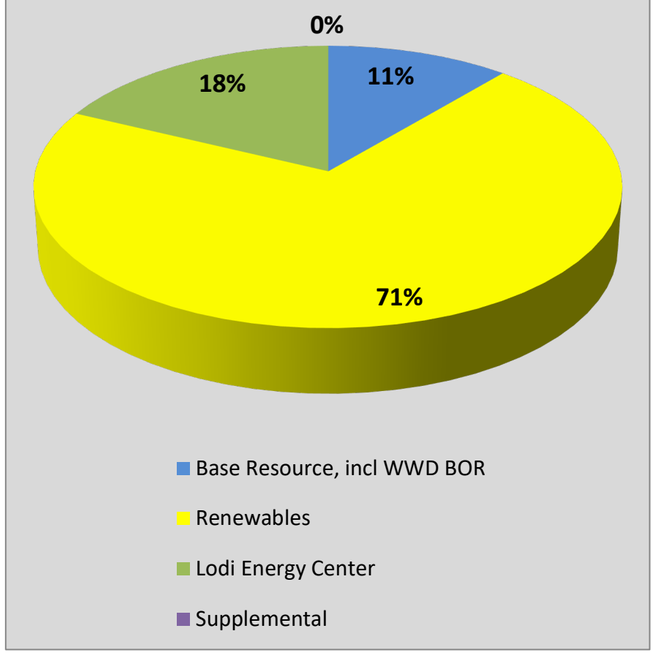
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	15,272,239	$ 1,130,101	7.40		-	$ 1,130,101	7.40
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	2,199,944	$ 90,172	4.10	$ (135,984)	(6.18)	$ (45,812)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	3,511,053	$ 270,882	7.72	$ (207,315)	(5.90)	$ 63,567	1.81
Generation - Astoria	1,809,235	$ 113,982	6.30	$ (58,478)	(3.23)	$ 55,503	3.07
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	12,127,525	$ 325,139	2.68	$ (379,784)	(3.13)	$ (54,645)	(0.45)
Generation - Slate BESS	-	$ 152,760	-	$ (119,932)	-	$ 32,828	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	(4,375,518)						
Total Loss Adjusted kWh	15,272,239	$ 2,083,036	13.64	$ (901,493)	(5.90)	$ 1,181,543	7.74

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	15,272,239	$ 1,130,101	7.40			$ 1,130,101	7.40
Base Resource, incl WWD BOR	2,199,944	$ 91,519	4.16	$ (135,984)	(6.18)	$ (44,465)	(2.02)
Renewables	13,936,760	$ 445,825	3.20	$ (438,263)	(3.14)	$ 7,562	0.05
Lodi Energy Center	3,511,053	$ 333,573	9.50	$ (207,315)	(5.90)	$ 126,258	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 4,234				$ 4,234	
Resource Subtotal	19,647,757	$ 875,151	4.45	$ (781,562)	(3.98)	$ 93,589	0.48
Net Portfolio	15,272,239					$ 1,223,690	8.01
Percent of Load Covered	*129%*						



Draft

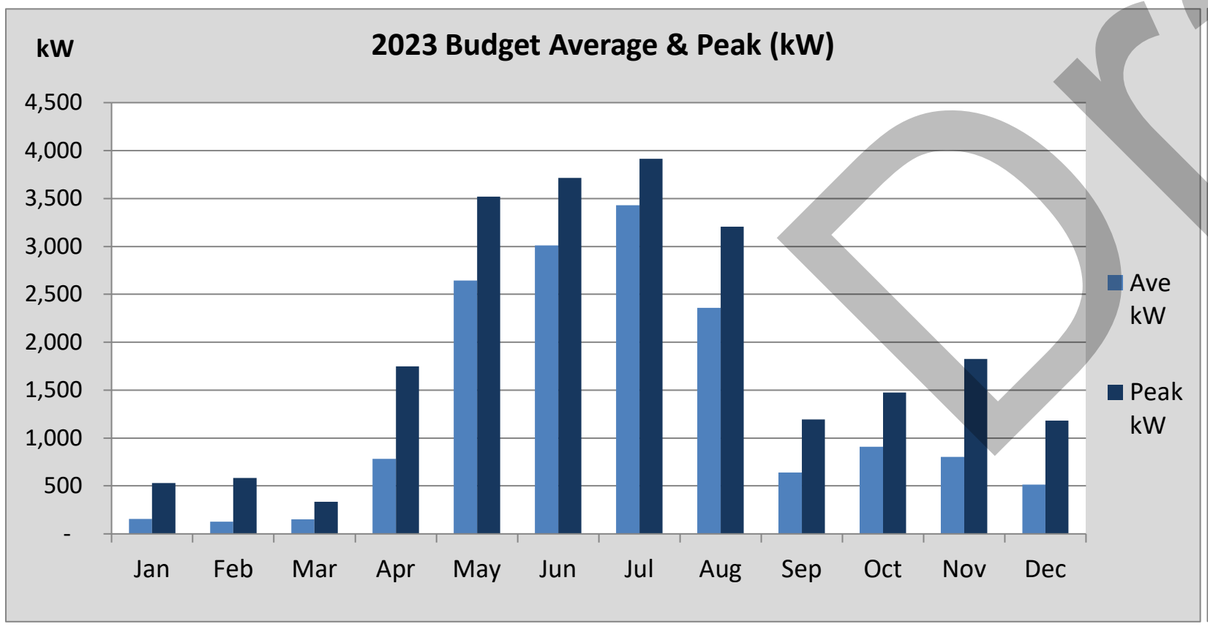
Power and Water Resources Pooling Authority

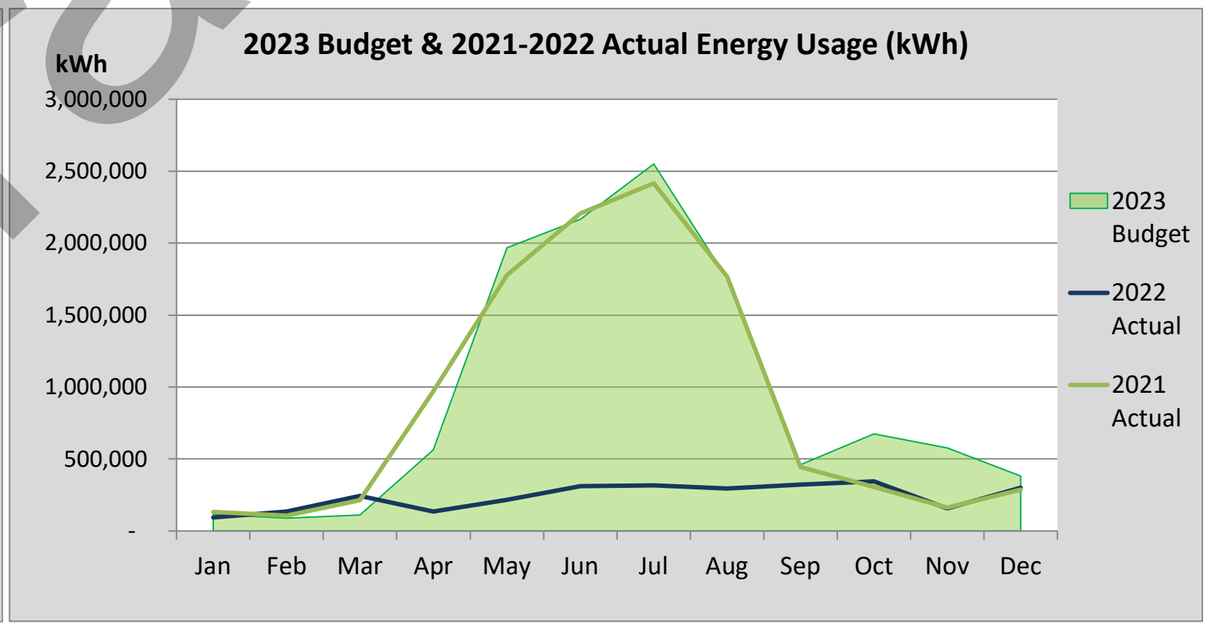
Energy Summary, Metered kWh

Glenn-Colusa

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	532	158	117,333	359	126	93,728	614	177	132,017	48%	25%	25%
Feb	584	127	88,643	585	195	135,375	856	153	106,450	0%	-35%	-35%
Mar	336	150	111,468	558	327	243,524	839	288	213,714	-40%	-54%	-54%
Apr	1,749	781	562,286	291	186	133,955	3,267	1,348	970,573	500%	320%	320%
May	3,519	2,643	1,966,742	420	292	217,570	3,423	2,389	1,777,077	738%	804%	804%
Jun	3,714	3,010	2,167,062	780	433	311,414	4,027	3,064	2,206,199	376%	596%	596%
Jul	3,914	3,428	2,550,284	651	425	315,942	4,046	3,247	2,415,620	502%	707%	707%
Aug	3,207	2,357	1,753,587	591	395	293,997	3,543	2,374	1,766,476	442%	496%	496%
Sep	1,196	639	460,326	701	447	321,525	1,358	616	443,240	71%	43%	43%
Oct	1,477	908	675,793	677	463	344,548	712	412	306,669	118%	96%	96%
Nov	1,827	802	577,503	355	217	156,270	608	227	163,487	414%	270%	270%
Dec	1,180	513	381,731	2,295	513	300,000	1,010	385	286,535	-49%	0%	27%
2023			11,412,757			2,867,846			10,788,057			298%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

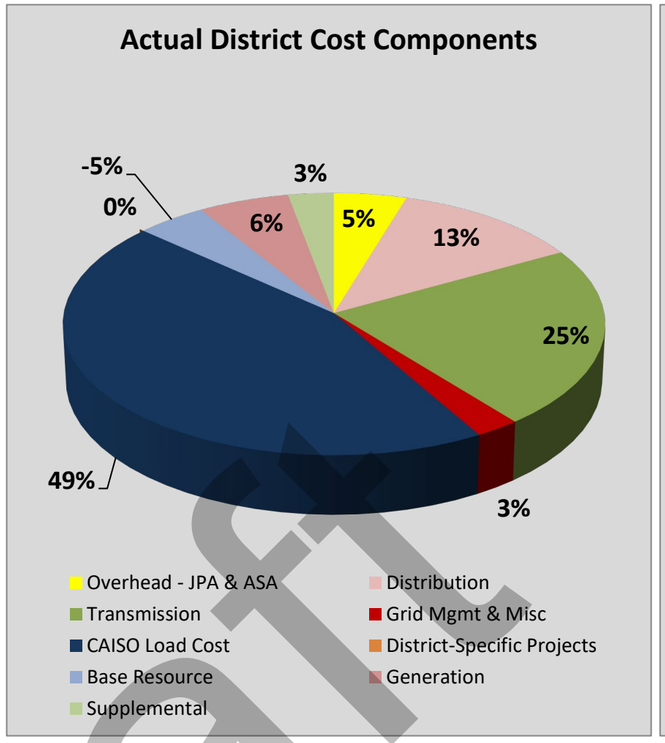
Table 1. District Cost Components

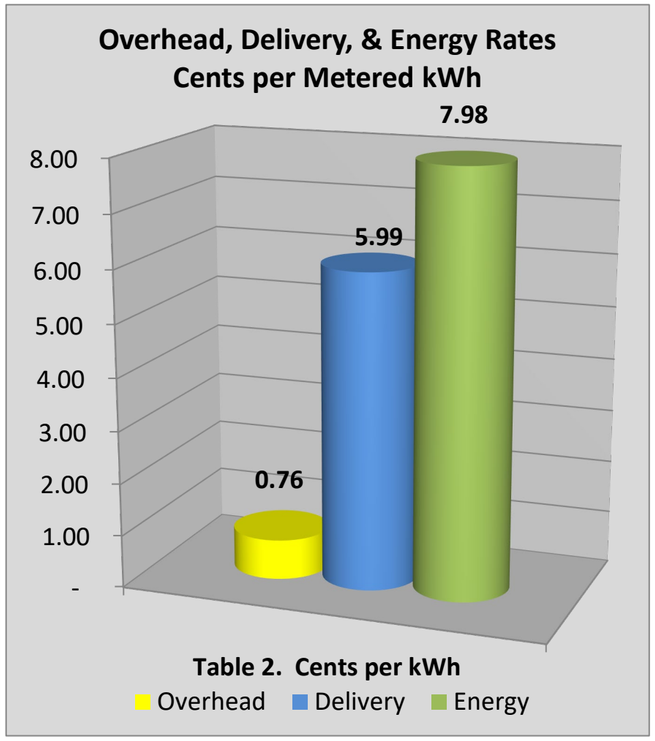
	2023 Budget	2022 Actual	Compare
Total Metered kWh	11,412,757	2,867,846	298%
Overhead - JPA & ASA	$ 86,834	$ 74,945	16%
Distribution	$ 226,182	$ 98,233	130%
Transmission	$ 412,233	$ 104,863	293%
Grid Mgmt & Misc	$ 45,651	$ 13,428	240%
CAISO Load Cost	$ 830,884	$ 235,062	253%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (83,658)	$ (25,925)	223%
Generation	$ 109,143	$ 61,259	78%
Supplemental	$ 54,405	$ 27,022	101%
Total Costs	$ 1,681,674	$ 588,886	186%

1% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	11,412,757	2,867,846	298%
Overhead	0.76	2.61	-71%
Delivery	5.99	7.55	-21%
Energy	7.98	10.37	-23%
Total Costs	14.74	20.53	-28%





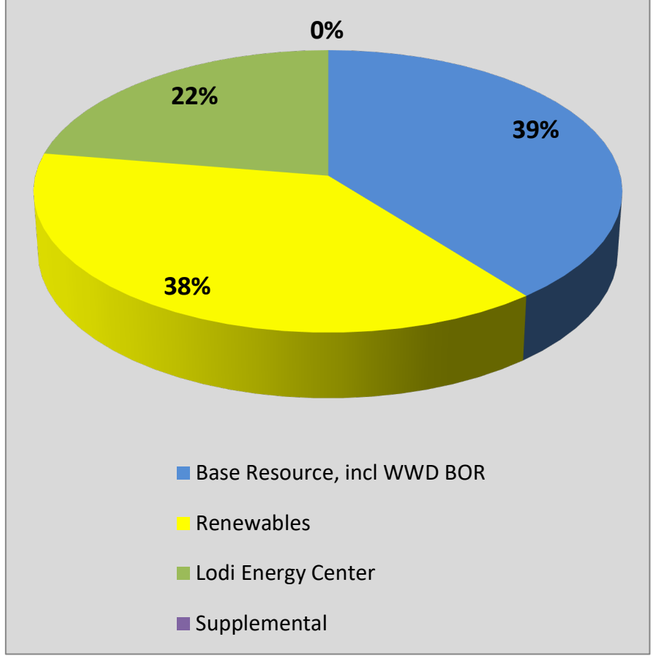
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	11,517,695	$ 830,884	7.21		-	$ 830,884	7.21
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	4,139,021	$ 169,652	4.10	$ (255,844)	(6.18)	$ (86,192)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	2,354,174	$ 181,627	7.72	$ (139,005)	(5.90)	$ 42,622	1.81
Generation - Astoria	957,235	$ 60,306	6.30	$ (30,940)	(3.23)	$ 29,366	3.07
Generation - Whitney	866,448	$ 50,904	5.88	$ (26,780)	(3.09)	$ 24,124	2.78
Generation - Slate PV	2,188,426	$ 58,672	2.68	$ (68,532)	(3.13)	$ (9,861)	(0.45)
Generation - Slate BESS	-	$ -	-	$ (21,642)	-	$ (21,642)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	1,012,391						
Total Loss Adjusted kWh	11,517,695	$ 1,352,045	11.74	$ (542,743)	(4.71)	$ 809,302	7.03

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	11,517,695	$ 830,884	7.21			$ 830,884	7.21
Base Resource, incl WWD BOR	4,139,021	$ 172,186	4.16	$ (255,844)	(6.18)	$ (83,658)	(2.02)
Renewables	4,012,109	$ 172,380	4.30	$ (126,252)	(3.15)	$ 46,128	1.15
Lodi Energy Center	2,354,174	$ 223,662	9.50	$ (139,005)	(5.90)	$ 84,657	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 54,405				$ 54,405	
Resource Subtotal	10,505,304	$ 622,633	5.93	$ (521,101)	(4.96)	$ 101,532	0.97
Net Portfolio	11,517,695					$ 932,417	8.10
Percent of Load Covered	*91%*						



Draft

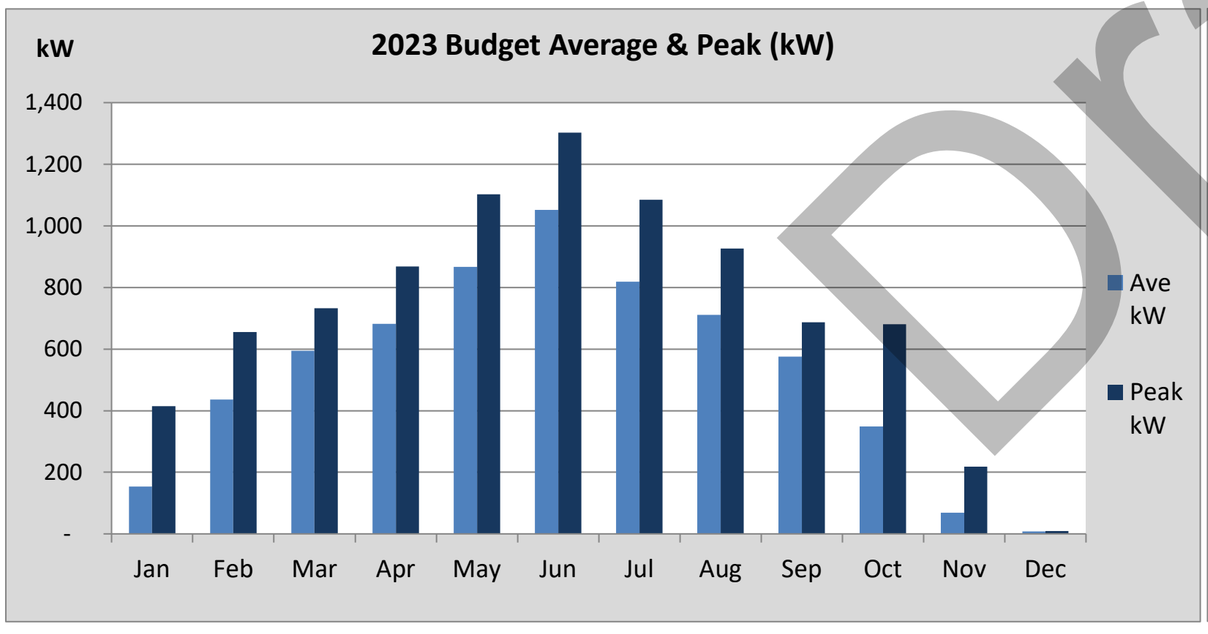
Power and Water Resources Pooling Authority

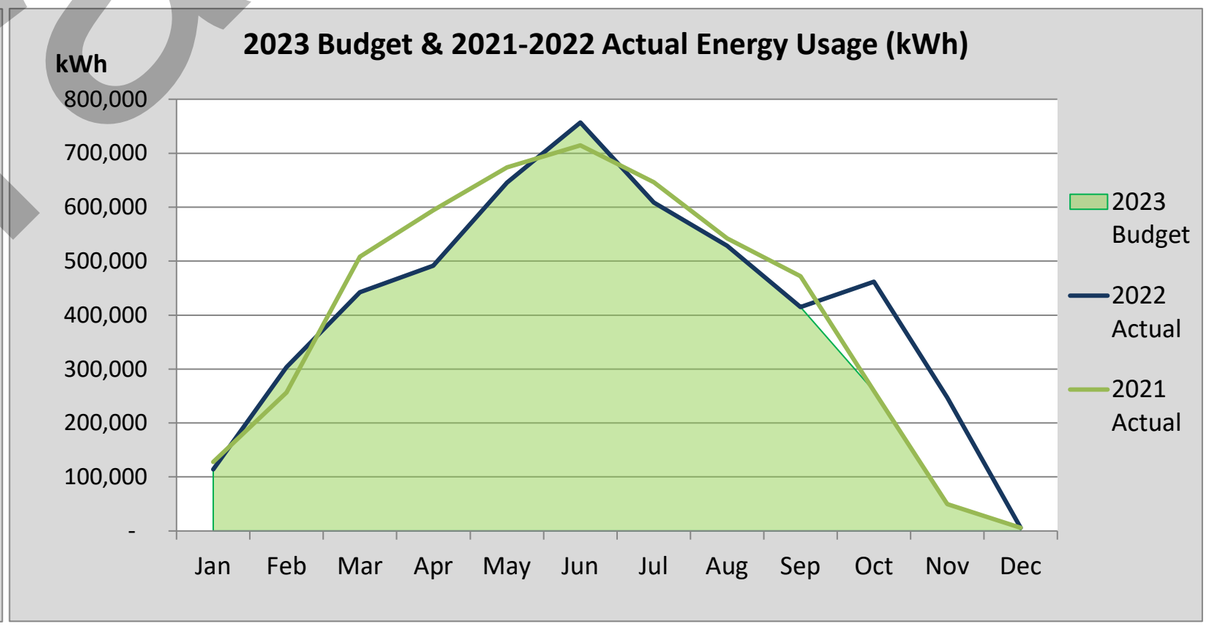
Energy Summary, Metered kWh

James

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	415	153	114,000	578	153	114,007	559	172	127,637	-28%	0%	0%
Feb	655	437	303,900	678	437	303,874	562	368	256,251	-3%	0%	0%
Mar	732	594	442,200	748	594	442,249	850	684	508,084	-2%	0%	0%
Apr	869	682	491,200	924	682	491,232	1,144	825	593,901	-6%	0%	0%
May	1,102	867	645,300	1,133	867	645,284	1,259	905	673,666	-3%	0%	0%
Jun	1,303	1,051	756,900	1,146	1,051	756,900	1,267	992	714,540	14%	0%	0%
Jul	1,085	818	608,900	1,228	818	608,883	1,236	868	646,047	-12%	0%	0%
Aug	926	710	528,600	938	710	528,598	967	729	542,379	-1%	0%	0%
Sep	687	576	414,700	742	576	414,660	786	656	472,328	-7%	0%	0%
Oct	681	349	259,300	659	621	461,697	682	348	259,277	3%	-44%	-44%
Nov	218	69	49,800	659	343	246,985	221	69	49,853	-67%	-80%	-80%
Dec	9	8	5,900	29	8	5,860	9	8	5,860	-70%	0%	1%
2023			4,620,700			5,020,228			4,849,822			-8%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

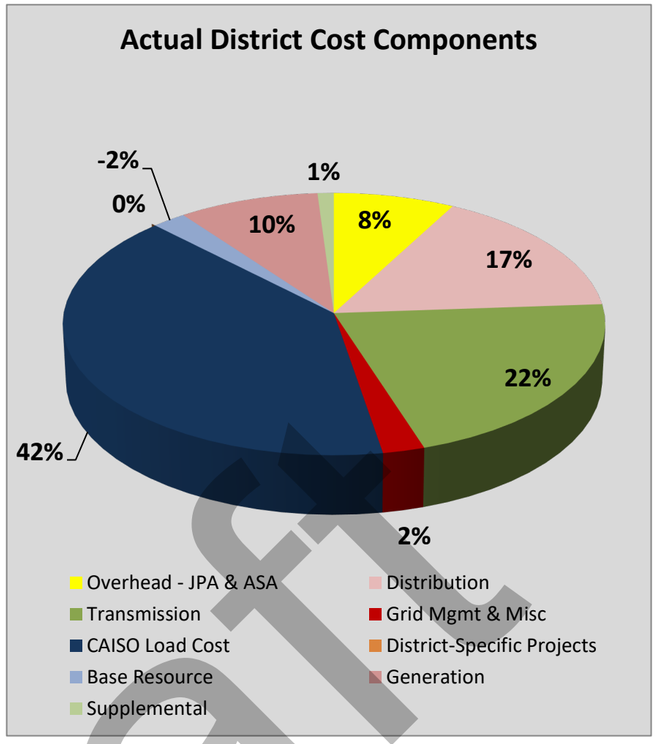
Table 1. District Cost Components

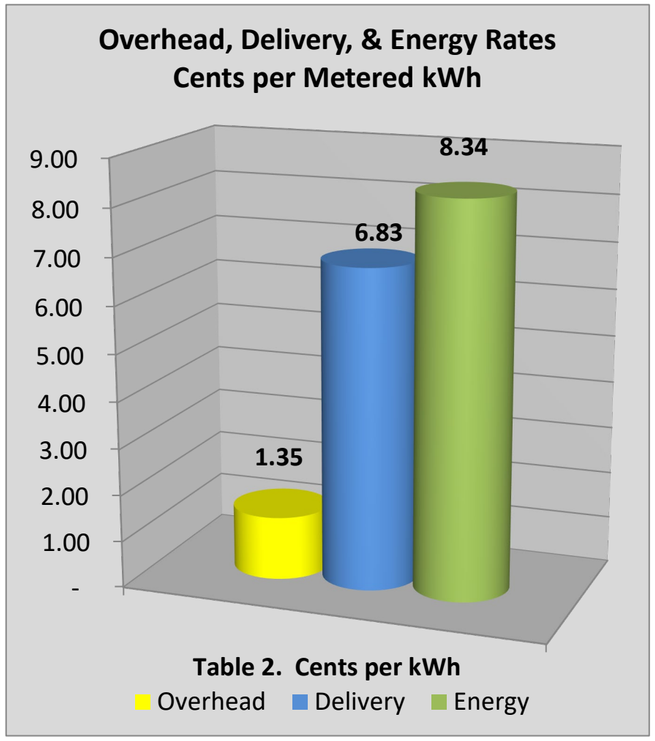
	2023 Budget	2022 Actual	Compare
Total Metered kWh	4,620,700	5,020,228	-8%
Overhead - JPA & ASA	$ 62,594	$ 49,728	26%
Distribution	$ 128,426	$ 115,469	11%
Transmission	$ 168,738	$ 167,197	1%
Grid Mgmt & Misc	$ 18,483	$ 20,145	-8%
CAISO Load Cost	$ 322,127	$ 361,341	-11%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (17,714)	$ (5,138)	245%
Generation	$ 72,714	$ 47,400	53%
Supplemental	$ 8,381	$ 660	1170%
Total Costs	$ 763,750	$ 756,801	1%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	4,620,700	5,020,228	-8%
Overhead	1.35	0.99	37%
Delivery	6.83	6.03	13%
Energy	8.34	8.05	4%
Total Costs	16.53	15.08	10%





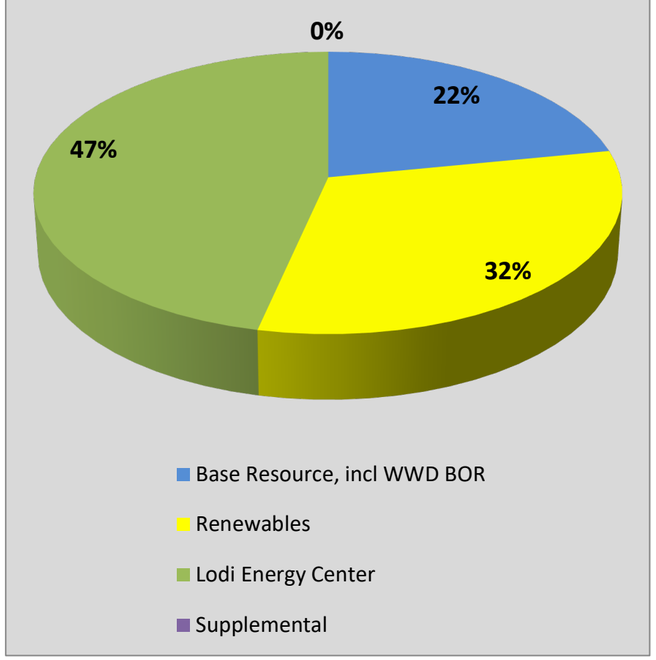
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	4,709,413	$ 322,127	6.84		-	$ 322,127	6.84
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	876,422	$ 35,923	4.10	$ (54,174)	(6.18)	$ (18,251)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	1,861,490	$ 143,616	7.72	$ (109,914)	(5.90)	$ 33,702	1.81
Generation - Astoria	243,394	$ 15,334	6.30	$ (7,867)	(3.23)	$ 7,467	3.07
Generation - Whitney	288,816	$ 16,968	5.88	$ (8,927)	(3.09)	$ 8,041	2.78
Generation - Slate PV	729,475	$ 19,557	2.68	$ (22,844)	(3.13)	$ (3,287)	(0.45)
Generation - Slate BESS	-	$ -	-	$ (7,214)	-	$ (7,214)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	709,816						
Total Loss Adjusted kWh	4,709,413	$ 553,526	11.75	$ (210,940)	(4.48)	$ 342,586	7.27

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	4,709,413	$ 322,127	6.84			$ 322,127	6.84
Base Resource, incl WWD BOR	876,422	$ 36,460	4.16	$ (54,174)	(6.18)	$ (17,714)	(2.02)
Renewables	1,261,685	$ 52,626	4.17	$ (39,638)	(3.14)	$ 12,989	1.03
Lodi Energy Center	1,861,490	$ 176,854	9.50	$ (109,914)	(5.90)	$ 66,940	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 8,381				$ 8,381	
Resource Subtotal	3,999,597	$ 274,321	6.86	$ (203,726)	(5.09)	$ 70,595	1.77
Net Portfolio	4,709,413					$ 392,723	8.34
Percent of Load Covered	*85%*						

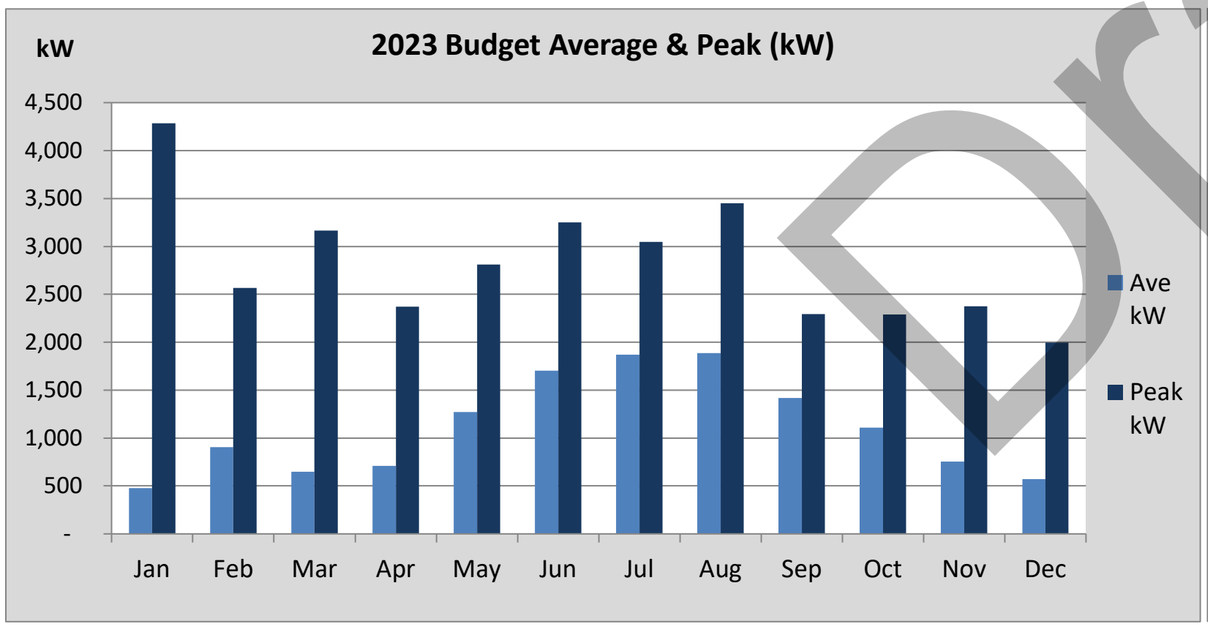


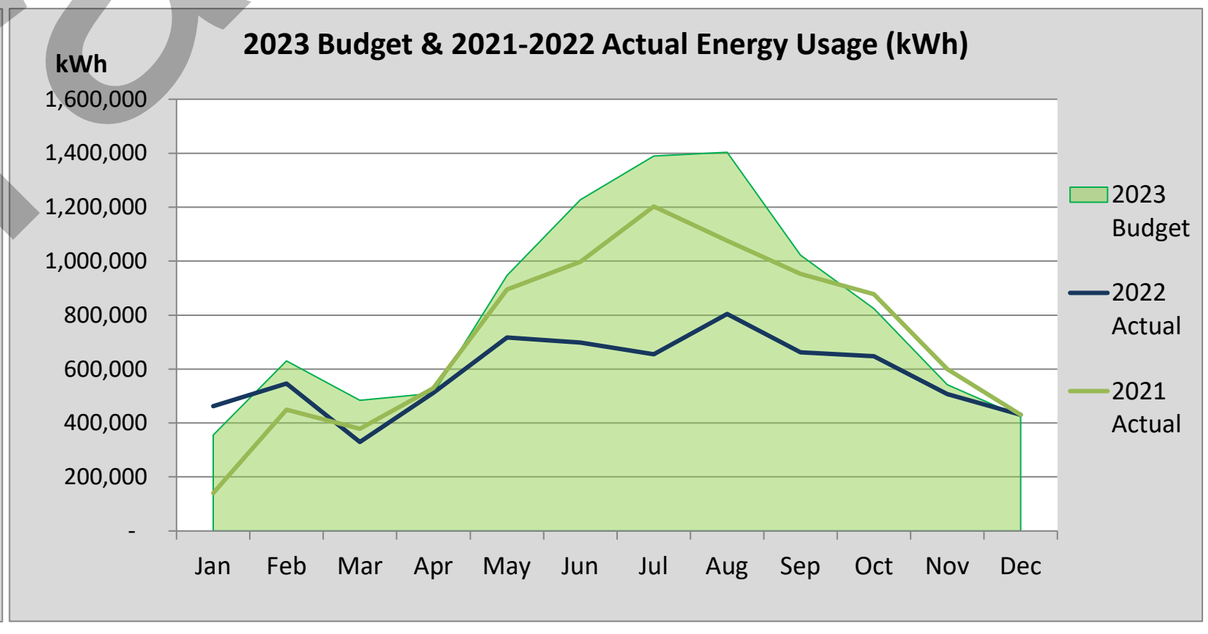
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Lower Tule — 2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	4,283	477	355,007	2,104	621	461,914	1,696	189	140,360	104%	-23%	-23%
Feb	2,567	906	630,373	2,595	785	546,506	1,834	646	449,642	-1%	15%	15%
Mar	3,165	650	483,671	1,845	443	329,659	2,488	510	379,240	72%	47%	47%
Apr	2,371	708	509,529	2,244	711	511,912	2,464	734	528,817	6%	0%	0%
May	2,809	1,272	946,163	2,014	964	717,099	2,662	1,204	895,487	40%	32%	32%
Jun	3,248	1,705	1,227,305	2,266	970	698,249	2,641	1,385	997,045	43%	76%	76%
Jul	3,047	1,868	1,389,962	2,449	880	654,486	2,639	1,616	1,202,646	24%	112%	112%
Aug	3,451	1,886	1,403,395	2,309	1,081	804,163	2,661	1,446	1,076,139	49%	75%	75%
Sep	2,294	1,419	1,021,825	1,927	919	661,484	2,144	1,324	953,140	19%	54%	54%
Oct	2,289	1,107	823,342	1,932	870	647,330	2,618	1,180	877,691	18%	27%	27%
Nov	2,374	753	542,372	1,905	704	507,134	2,623	832	599,581	25%	7%	7%
Dec	1,998	569	423,417	2,348	569	430,584	2,033	579	430,584	-15%	0%	-2%
2023			9,756,363			6,970,522			8,530,372			40%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

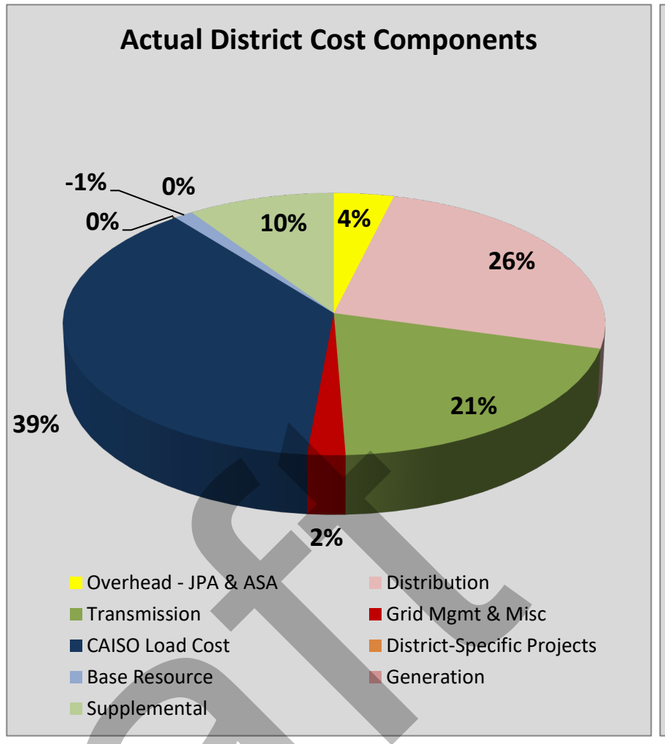
Table 1. District Cost Components

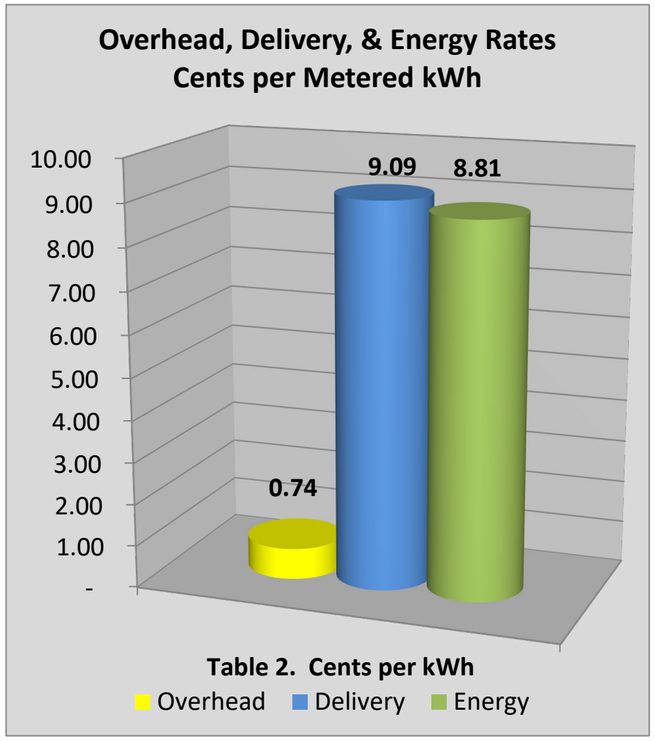
	2023 Budget	2022 Actual	Compare
Total Metered kWh	9,756,363	6,970,522	40%
Overhead - JPA & ASA	$ 72,194	$ 60,191	20%
Distribution	$ 474,260	$ 369,732	28%
Transmission	$ 373,897	$ 257,145	45%
Grid Mgmt & Misc	$ 39,025	$ 33,638	16%
CAISO Load Cost	$ 704,810	$ 579,665	22%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (22,873)	$ (6,648)	244%
Generation	$ -	$ -	0%
Supplemental	$ 177,430	$ 48,767	264%
Total Costs	$ 1,818,742	$ 1,342,491	35%

7% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	9,756,363	6,970,522	40%
Overhead	0.74	0.86	-14%
Delivery	9.09	9.48	-4%
Energy	8.81	8.92	-1%
Total Costs	18.64	19.26	-3%





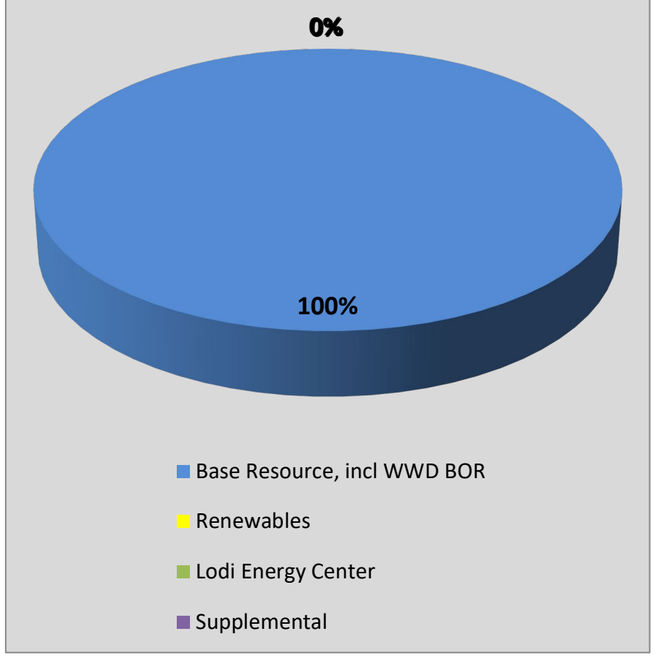
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	10,435,337	$ 704,810	6.75		-	$ 704,810	6.75
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	1,131,656	$ 46,385	4.10	$ (69,951)	(6.18)	$ (23,566)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	-	$ -	-	$ -	-	$ -	-
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	-	$ -	-	$ -	-	$ -	-
Generation - Slate BESS	-	$ -	-	$ -	-	$ -	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	9,303,681						
Total Loss Adjusted kWh	10,435,337	$ 751,194	7.20	$ (69,951)	(0.67)	$ 681,244	6.53

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	10,435,337	$ 704,810	6.75			$ 704,810	6.75
Base Resource, incl WWD BOR	1,131,656	$ 47,078	4.16	$ (69,951)	(6.18)	$ (22,873)	(2.02)
Renewables	-	$ -	-	$ -	-	$ -	-
Lodi Energy Center	-	$ -	-	$ -	-	$ -	-
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 177,430				$ 177,430	
Resource Subtotal	1,131,656	$ 224,507	19.84	$ (69,951)	(6.18)	$ 154,557	13.66
Net Portfolio	10,435,337					$ 859,366	8.24
Percent of Load Covered	*11%*						



Draft

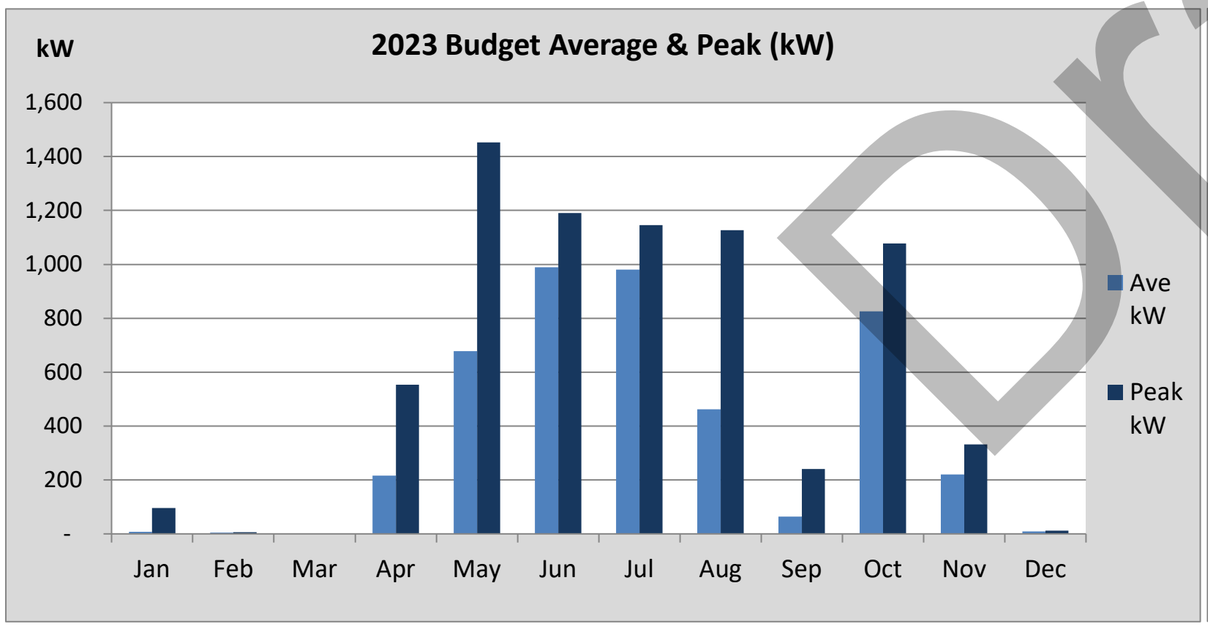
Power and Water Resources Pooling Authority

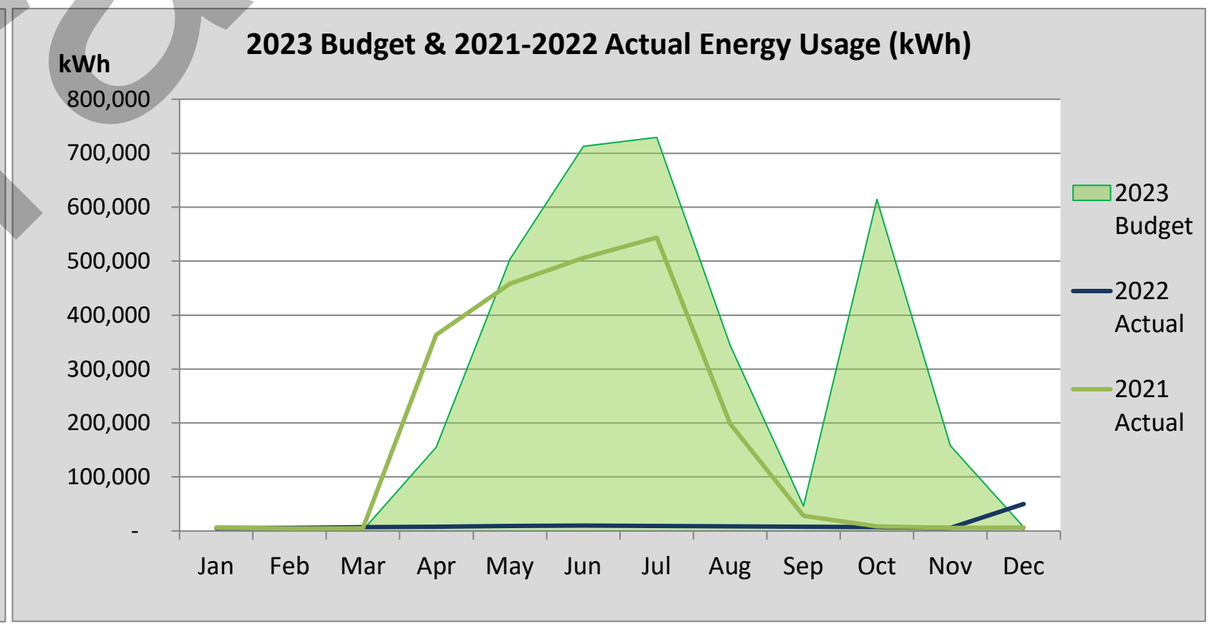
Energy Summary, Metered kWh

Princeton

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	96	8	6,024	12	8	5,920	185	8	6,024	721%	2%	2%
Feb	6	5	3,510	12	8	5,763	8	6	4,484	-51%	-39%	-39%
Mar	3	2	1,288	13	10	7,130	10	7	4,940	-81%	-82%	-82%
Apr	553	216	155,576	14	10	7,488	1,319	505	363,580	3996%	1978%	1978%
May	1,453	678	504,168	16	12	9,231	1,324	616	458,400	8868%	5362%	5362%
Jun	1,190	990	712,721	17	13	9,622	882	703	506,296	6901%	7307%	7307%
Jul	1,145	980	729,268	17	13	9,459	882	731	543,547	6755%	7610%	7610%
Aug	1,127	463	344,318	16	12	8,872	677	267	198,396	6811%	3781%	3781%
Sep	241	64	46,130	16	11	8,042	173	39	28,052	1387%	474%	474%
Oct	1,077	826	614,779	14	10	7,392	16	12	8,734	7877%	8217%	8217%
Nov	331	220	158,381	9	8	5,539	16	8	5,937	3580%	2759%	2759%
Dec	12	9	7,060	23	9	50,000	12	8	6,263	-47%	0%	-86%
2023			3,283,223			134,458			2,134,654			2342%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

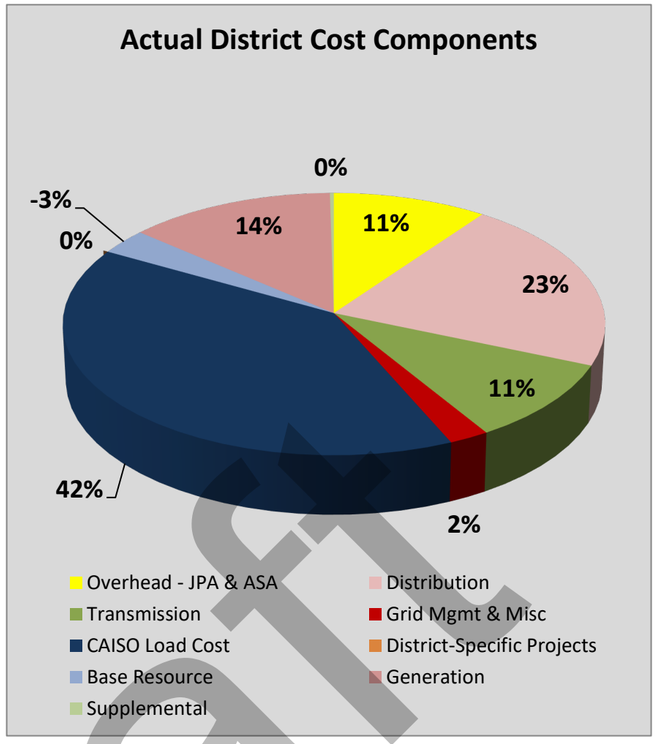
Table 1. District Cost Components

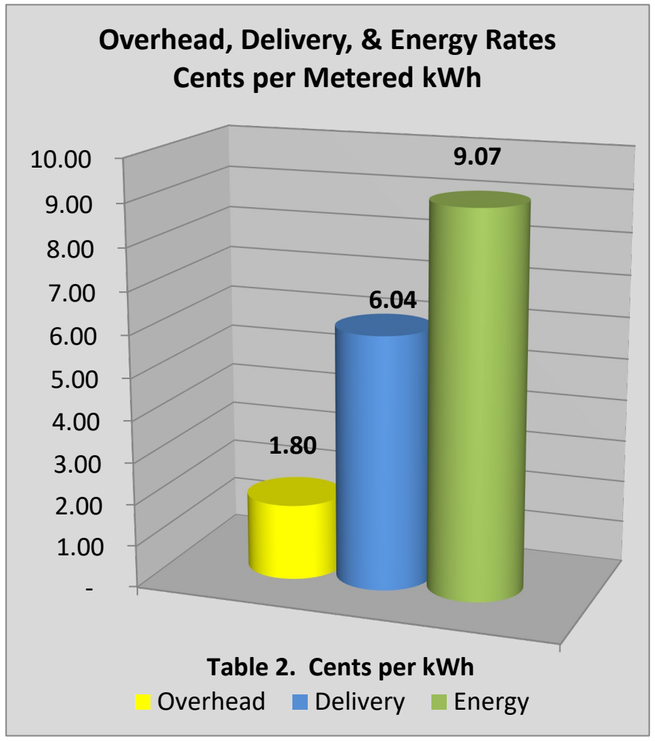
	2023 Budget	2022 Actual	Compare
Total Metered kWh	3,283,223	134,458	2342%
Overhead - JPA & ASA	$ 59,159	$ 47,453	25%
Distribution	$ 126,845	$ 45,743	177%
Transmission	$ 58,363	$ 3,022	1831%
Grid Mgmt & Misc	$ 13,133	$ 801	1539%
CAISO Load Cost	$ 235,477	$ 13,188	1685%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (18,767)	$ (4,550)	312%
Generation	$ 79,518	$ 51,835	53%
Supplemental	$ 1,506	$ 6,314	-76%
Total Costs	$ 555,232	$ 163,808	239%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	3,283,223	134,458	2342%
Overhead	1.80	35.29	-95%
Delivery	6.04	36.86	-84%
Energy	9.07	49.67	-82%
Total Costs	16.91	121.83	-86%





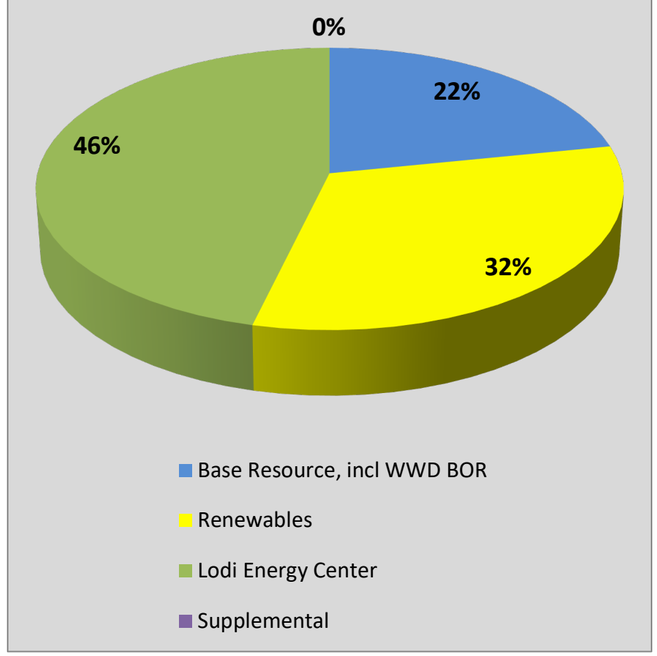
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	3,346,389	$ 235,477	7.04		-	$ 235,477	7.04
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	928,525	$ 38,059	4.10	$ (57,395)	(6.18)	$ (19,336)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	1,965,438	$ 151,636	7.72	$ (116,052)	(5.90)	$ 35,584	1.81
Generation - Astoria	340,564	$ 21,456	6.30	$ (11,008)	(3.23)	$ 10,448	3.07
Generation - Whitney	288,816	$ 16,968	5.88	$ (8,927)	(3.09)	$ 8,041	2.78
Generation - Slate PV	729,475	$ 19,557	2.68	$ (22,844)	(3.13)	$ (3,287)	(0.45)
Generation - Slate BESS	-	$ -	-	$ (7,214)	-	$ (7,214)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	(906,429)						
Total Loss Adjusted kWh	3,346,389	$ 483,152	14.44	$ (223,439)	(6.68)	$ 259,714	7.76

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	3,346,389	$ 235,477	7.04			$ 235,477	7.04
Base Resource, incl WWD BOR	928,525	$ 38,627	4.16	$ (57,395)	(6.18)	$ (18,767)	(2.02)
Renewables	1,358,856	$ 58,832	4.33	$ (42,778)	(3.15)	$ 16,054	1.18
Lodi Energy Center	1,965,438	$ 186,730	9.50	$ (116,052)	(5.90)	$ 70,678	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 1,506				$ 1,506	
Resource Subtotal	4,252,818	$ 285,695	6.72	$ (216,225)	(5.08)	$ 69,470	1.63
Net Portfolio	3,346,389					$ 304,947	9.11
Percent of Load Covered	*127%*						



Draft

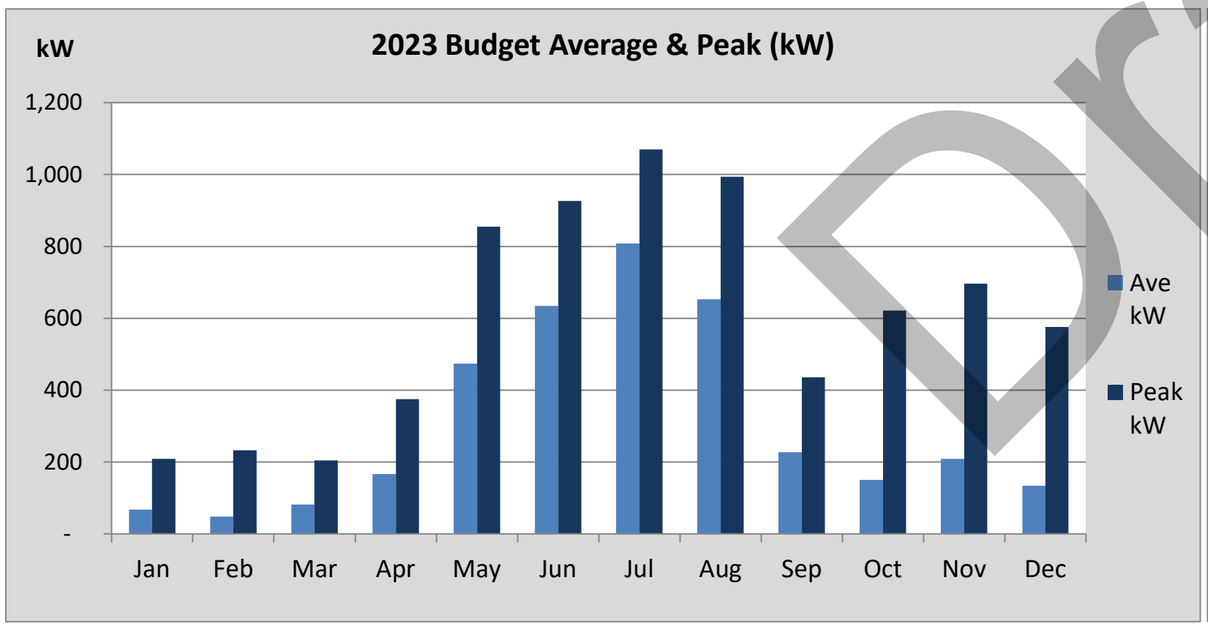
Power and Water Resources Pooling Authority

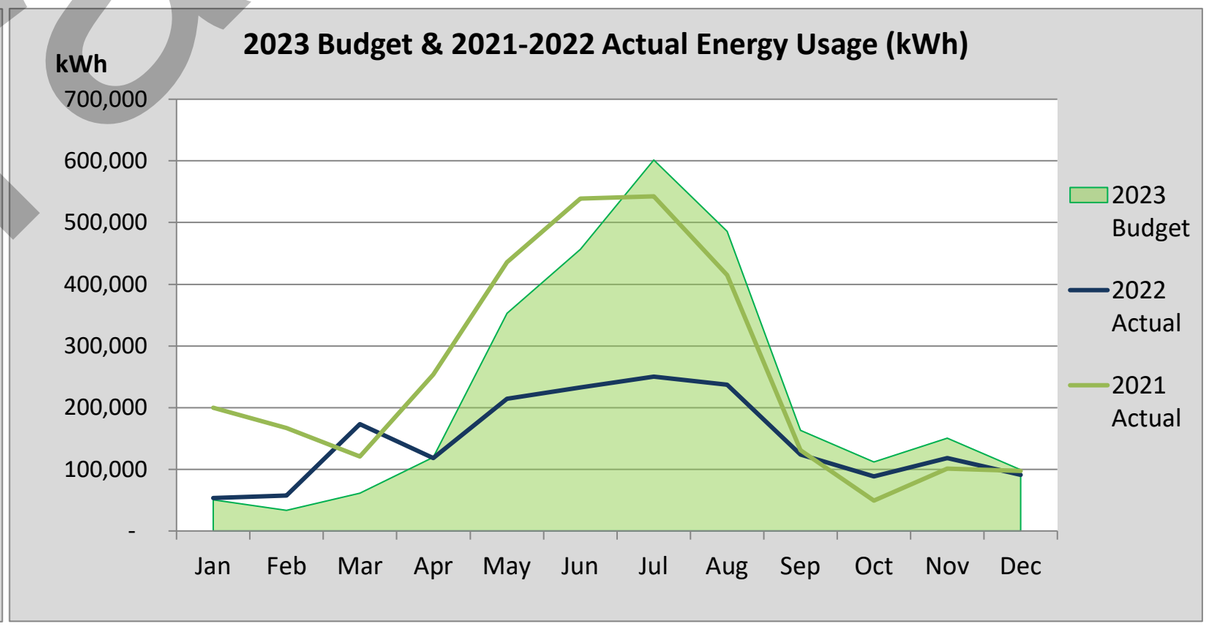
Energy Summary, Metered kWh

RD108

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	209	68	50,256	426	72	53,396	1,155	268	199,713	-51%	-6%	-6%
Feb	233	48	33,346	357	83	57,513	1,300	240	167,204	-35%	-42%	-42%
Mar	204	82	60,993	475	233	173,163	638	163	120,801	-57%	-65%	-65%
Apr	374	166	119,672	583	164	117,972	996	352	253,627	-36%	1%	1%
May	855	474	352,828	640	288	214,388	1,472	586	435,973	34%	65%	65%
Jun	927	634	456,689	538	323	232,509	1,452	749	539,177	72%	96%	96%
Jul	1,069	808	601,483	610	336	250,203	1,252	729	542,557	75%	140%	140%
Aug	993	653	485,720	594	319	237,270	1,200	558	414,786	67%	105%	105%
Sep	436	227	163,395	519	172	123,598	534	182	130,795	-16%	32%	32%
Oct	622	150	111,614	362	119	88,687	384	66	49,197	72%	26%	26%
Nov	697	209	150,293	460	165	118,441	531	140	101,071	52%	27%	27%
Dec	576	133	99,258	356	133	90,725	612	131	97,368	62%	0%	9%
2023			2,685,546			1,757,866			3,052,268			53%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

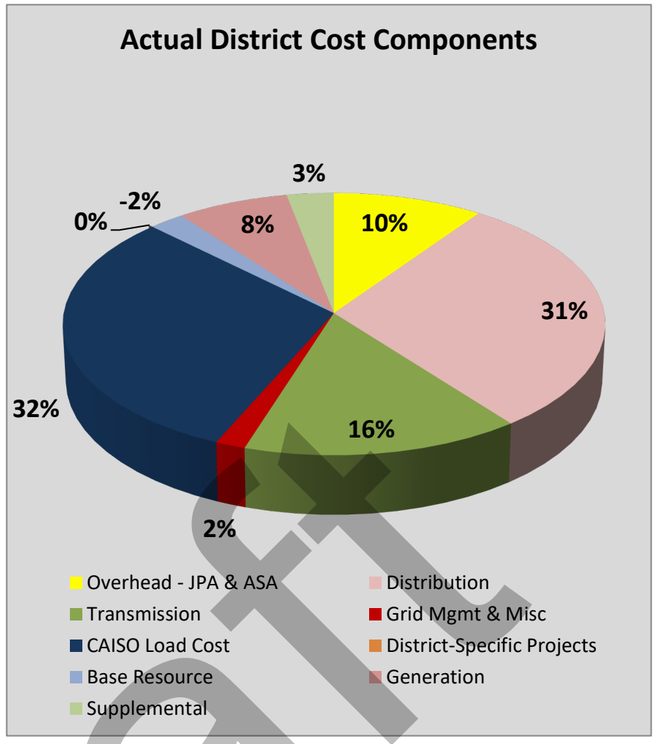
Table 1. District Cost Components

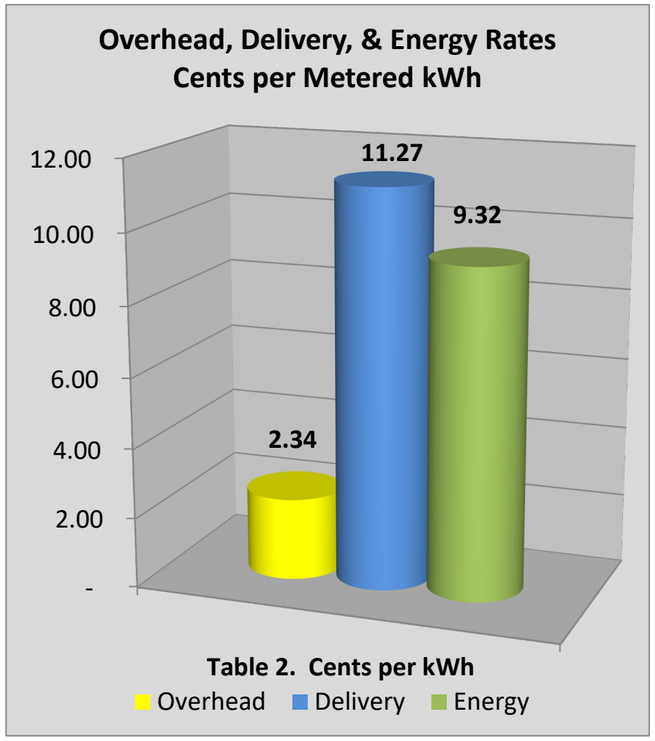
	2023 Budget	2022 Actual	Compare
Total Metered kWh	2,685,546	1,757,866	53%
Overhead - JPA & ASA	$ 62,718	$ 52,303	20%
Distribution	$ 192,538	$ 139,677	38%
Transmission	$ 99,380	$ 62,805	58%
Grid Mgmt & Misc	$ 10,742	$ 7,527	43%
CAISO Load Cost	$ 198,989	$ 141,645	40%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (14,993)	$ (4,402)	241%
Generation	$ 46,824	$ 24,242	93%
Supplemental	$ 19,600	$ 1,996	882%
Total Costs	$ 615,800	$ 425,793	45%

3% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	2,685,546	1,757,866	53%
Overhead	2.34	2.98	-22%
Delivery	11.27	11.95	-6%
Energy	9.32	9.30	0%
Total Costs	22.93	24.22	-5%





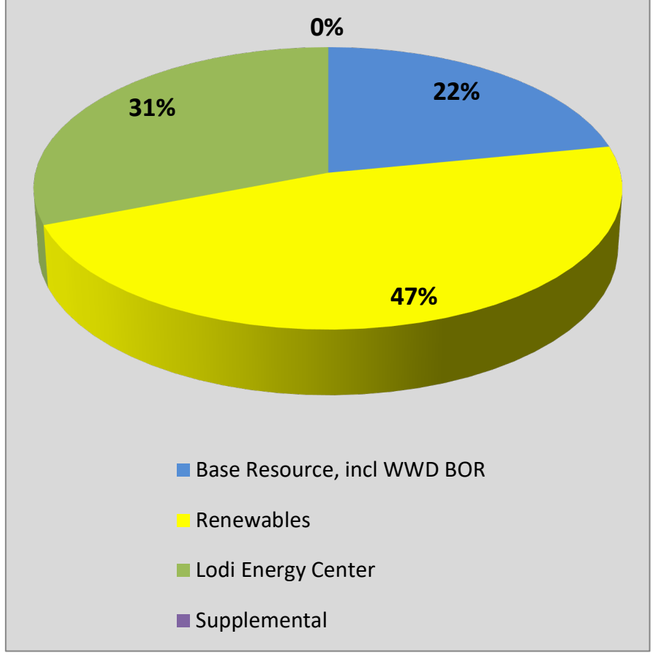
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	2,773,670	$ 198,989	7.17		-	$ 198,989	7.17
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	741,764	$ 30,404	4.10	$ (45,850)	(6.18)	$ (15,447)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	1,044,257	$ 80,566	7.72	$ (61,660)	(5.90)	$ 18,906	1.81
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	722,199	$ 42,429	5.88	$ (22,321)	(3.09)	$ 20,108	2.78
Generation - Slate PV	873,851	$ 23,428	2.68	$ (27,365)	(3.13)	$ (3,937)	(0.45)
Generation - Slate BESS	-	$ 20,100	-	$ (8,642)	-	$ 11,458	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	(608,400)						
Total Loss Adjusted kWh	2,773,670	$ 395,916	14.27	$ (165,838)	(5.98)	$ 230,078	8.30

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	2,773,670	$ 198,989	7.17			$ 198,989	7.17
Base Resource, incl WWD BOR	741,764	$ 30,858	4.16	$ (45,850)	(6.18)	$ (14,993)	(2.02)
Renewables	1,596,050	$ 66,846	4.19	$ (49,687)	(3.11)	$ 17,160	1.08
Lodi Energy Center	1,044,257	$ 99,211	9.50	$ (61,660)	(5.90)	$ 37,552	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 254				$ 254	
Resource Subtotal	3,382,071	$ 197,170	5.83	$ (157,197)	(4.65)	$ 39,973	1.18
Net Portfolio	2,773,670					$ 238,962	8.62
Percent of Load Covered	*122%*						



Draft

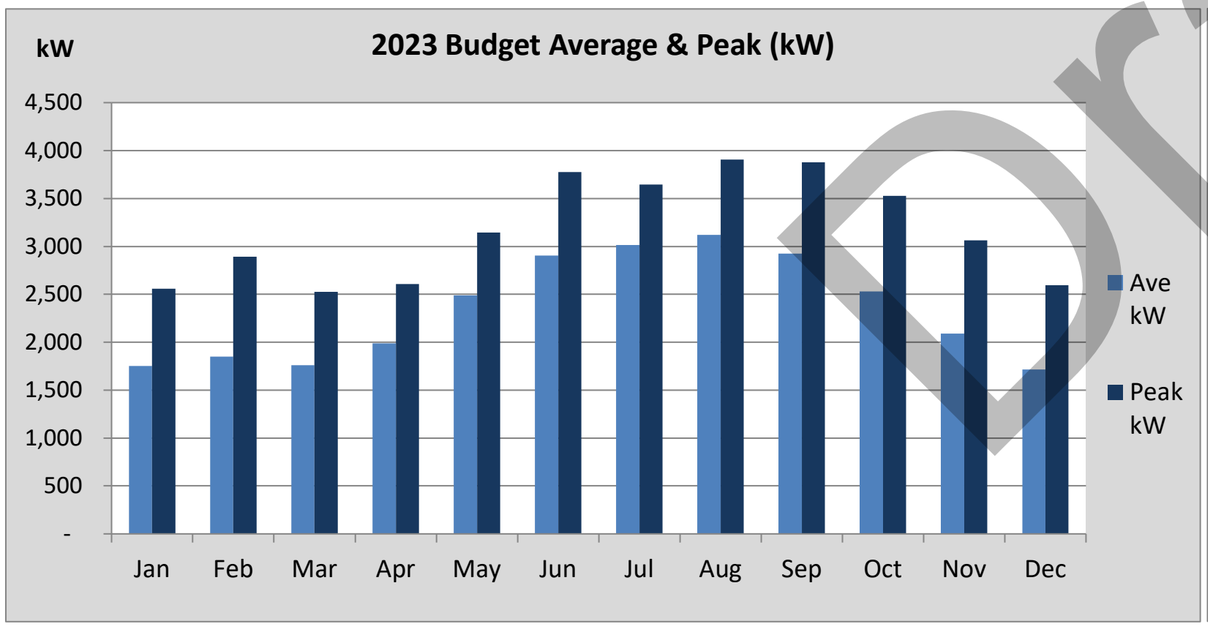
Power and Water Resources Pooling Authority

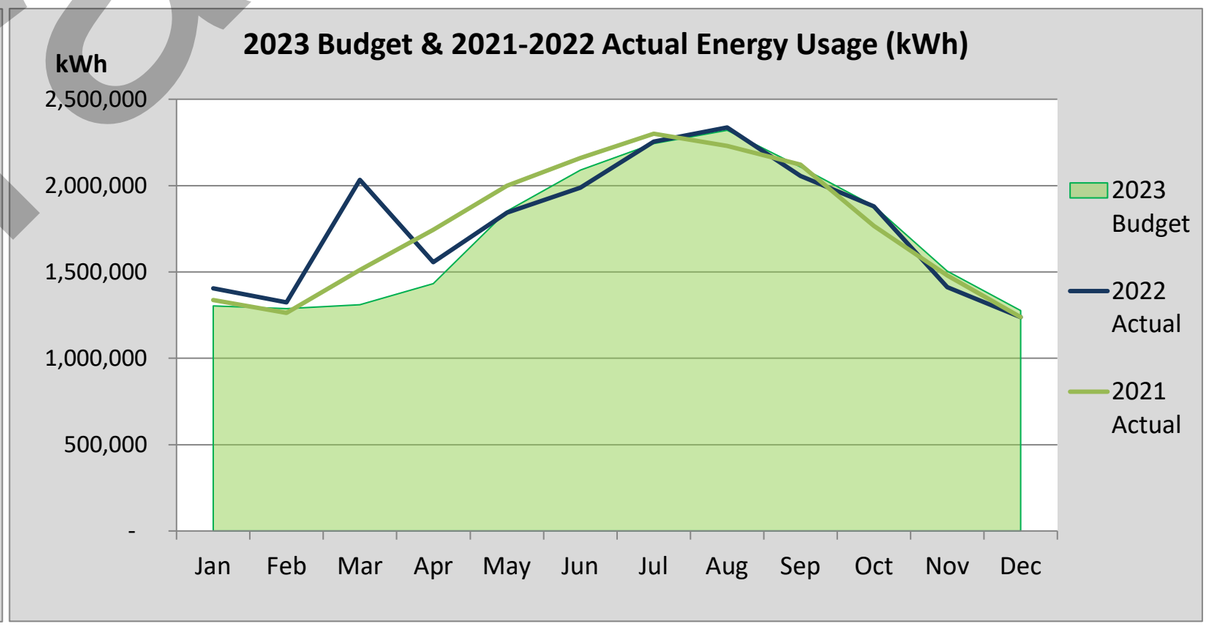
Energy Summary, Metered kWh

Santa Clara

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	2,556	1,752	1,303,486	2,875	1,887	1,404,142	3,454	1,796	1,336,054	-11%	-7%	-7%
Feb	2,893	1,851	1,288,431	2,981	1,902	1,323,914	3,892	1,813	1,261,514	-3%	-3%	-3%
Mar	2,527	1,761	1,309,876	3,669	2,731	2,032,195	3,862	2,034	1,511,361	-31%	-36%	-36%
Apr	2,607	1,988	1,431,462	3,111	2,160	1,555,220	3,923	2,422	1,743,991	-16%	-8%	-8%
May	3,143	2,490	1,852,250	3,391	2,476	1,842,421	4,164	2,686	1,998,468	-7%	1%	1%
Jun	3,777	2,903	2,090,303	3,671	2,760	1,987,526	5,022	3,000	2,160,024	3%	5%	5%
Jul	3,645	3,014	2,242,406	3,798	3,031	2,254,702	4,380	3,092	2,300,230	-4%	-1%	-1%
Aug	3,905	3,118	2,320,120	3,973	3,141	2,336,534	4,502	2,998	2,230,208	-2%	-1%	-1%
Sep	3,877	2,926	2,106,638	3,865	2,856	2,056,136	4,829	2,945	2,120,268	0%	2%	2%
Oct	3,526	2,530	1,882,241	3,579	2,527	1,880,319	4,310	2,376	1,767,554	-1%	0%	0%
Nov	3,062	2,088	1,503,591	3,268	1,959	1,410,657	4,099	2,052	1,479,653	-6%	7%	7%
Dec	2,594	1,715	1,276,043	3,802	1,785	1,238,109	3,362	1,664	1,238,109	-32%	-4%	3%
2023			20,606,847			21,321,875			21,147,433			-3%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

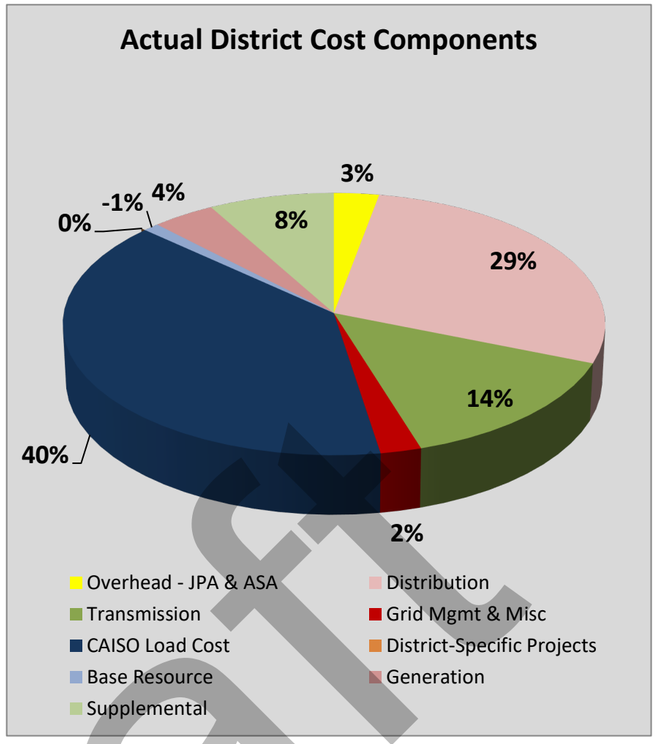
Table 1. District Cost Components

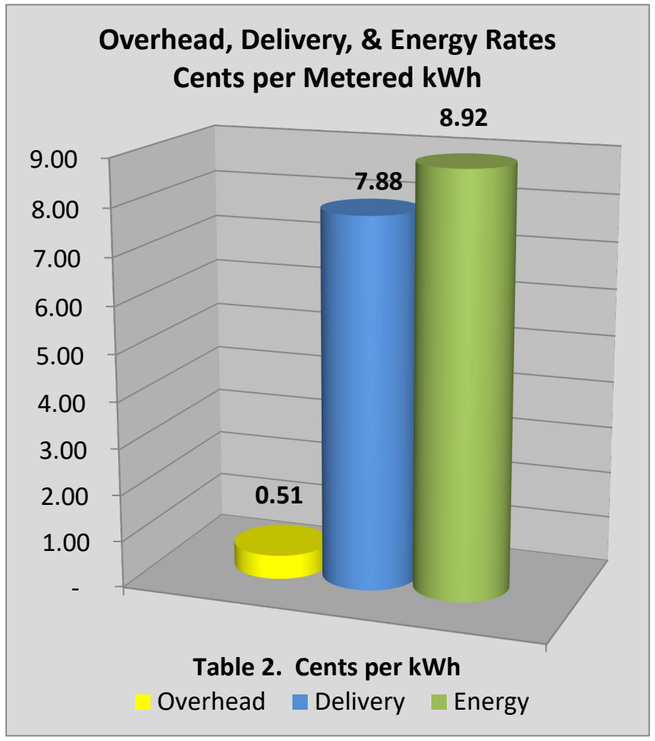
	2023 Budget	2022 Actual	Compare
Total Metered kWh	20,606,847	21,321,875	-3%
Overhead - JPA & ASA	$ 106,063	$ 93,760	13%
Distribution	$ 1,027,369	$ 778,431	32%
Transmission	$ 513,799	$ 507,024	1%
Grid Mgmt & Misc	$ 82,427	$ 96,055	-14%
CAISO Load Cost	$ 1,432,444	$ 1,631,192	-12%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (37,809)	$ (9,735)	288%
Generation	$ 148,513	$ 67,688	119%
Supplemental	$ 295,854	$ 224,283	32%
Total Costs	$ 3,568,660	$ 3,388,699	5%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	20,606,847	21,321,875	-3%
Overhead	0.51	0.44	17%
Delivery	7.88	6.48	22%
Energy	8.92	8.97	-1%
Total Costs	17.32	15.89	9%





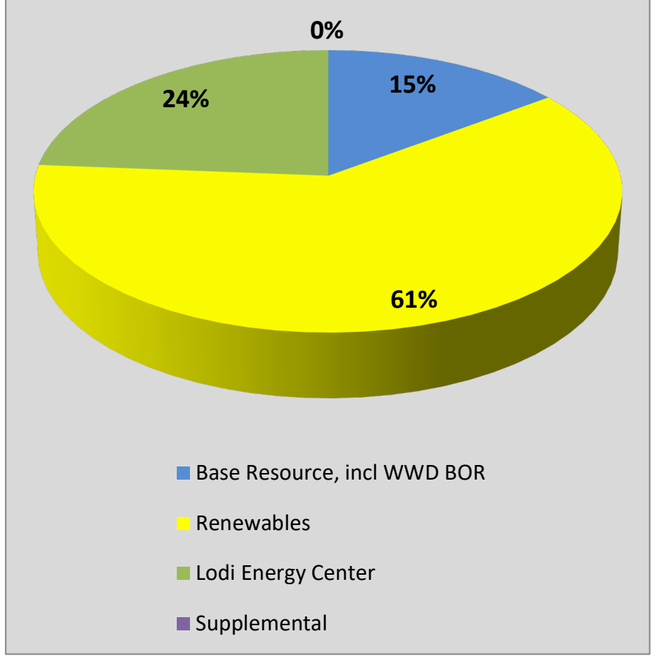
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	21,045,462	$ 1,432,444	6.81		-	$ 1,432,444	6.81
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	1,870,604	$ 76,673	4.10	$ (115,627)	(6.18)	$ (38,954)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	3,000,505	$ 231,493	7.72	$ (177,169)	(5.90)	$ 54,324	1.81
Generation - Astoria	1,210,838	$ 76,283	6.30	$ (39,137)	(3.23)	$ 37,146	3.07
Generation - Whitney	2,166,280	$ 127,269	5.88	$ (66,954)	(3.09)	$ 60,315	2.78
Generation - Slate PV	4,384,450	$ 117,547	2.68	$ (137,303)	(3.13)	$ (19,756)	(0.45)
Generation - Slate BESS	-	$ 40,200	-	$ (43,359)	-	$ (3,159)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	8,412,786						
Total Loss Adjusted kWh	21,045,462	$ 2,101,909	9.99	$ (579,548)	(2.75)	$ 1,522,361	7.23

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	21,045,462	$ 1,432,444	6.81			$ 1,432,444	6.81
Base Resource, incl WWD BOR	1,870,604	$ 77,818	4.16	$ (115,627)	(6.18)	$ (37,809)	(2.02)
Renewables	7,761,568	$ 325,858	4.20	$ (243,394)	(3.14)	$ 82,464	1.06
Lodi Energy Center	3,000,505	$ 285,068	9.50	$ (177,169)	(5.90)	$ 107,899	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 257,162				$ 257,162	
Resource Subtotal	12,632,677	$ 945,906	7.49	$ (536,189)	(4.24)	$ 409,717	3.24
Net Portfolio	21,045,462					$ 1,842,161	8.75
Percent of Load Covered	*60%*						

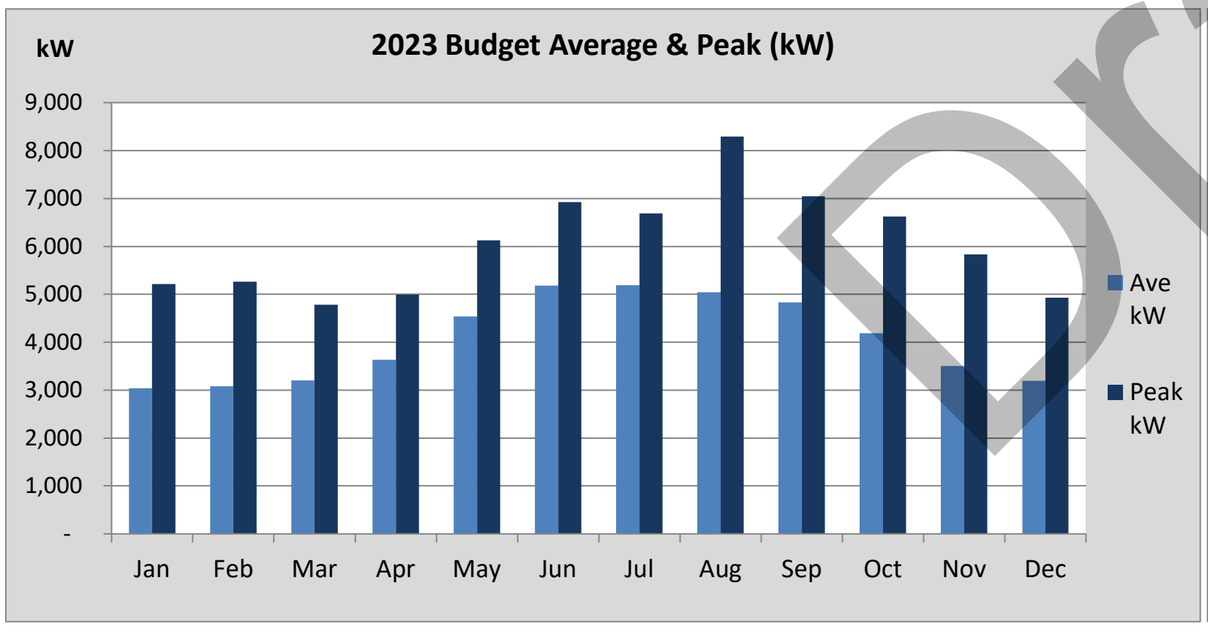


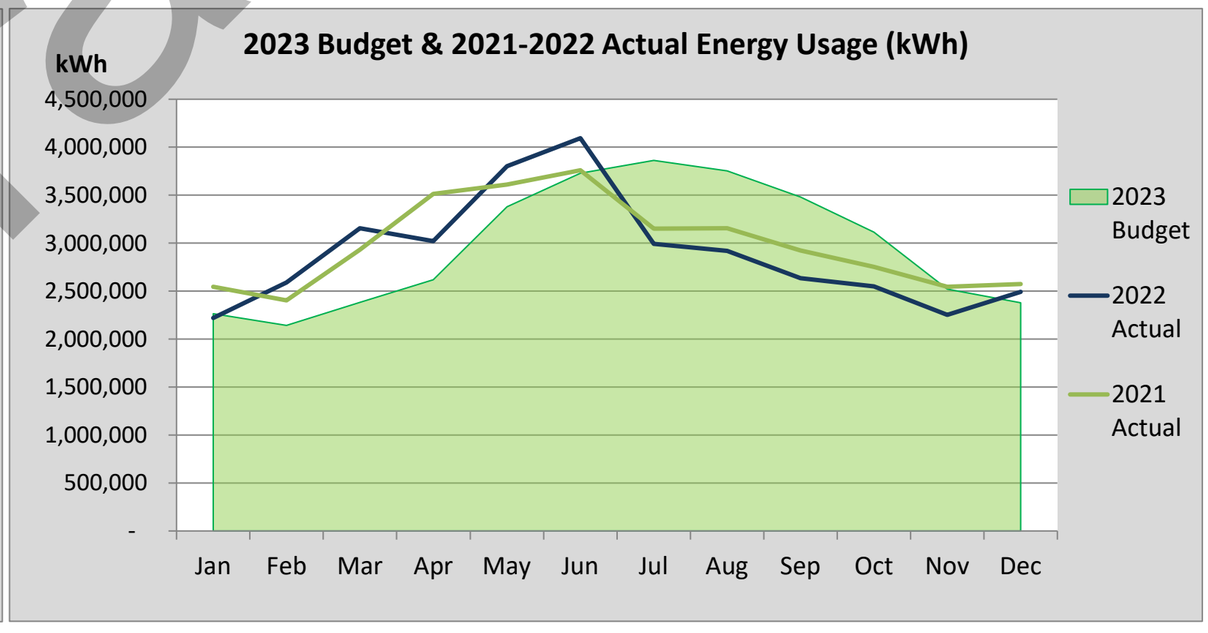
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Sonoma — 2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	5,214	3,042	2,263,128	5,115	2,984	2,220,069	7,085	3,419	2,544,007	2%	2%	2%
Feb	5,262	3,079	2,143,256	5,870	3,724	2,591,614	6,590	3,453	2,403,315	-10%	-17%	-17%
Mar	4,780	3,203	2,383,166	6,842	4,240	3,154,449	7,602	3,945	2,931,341	-30%	-24%	-24%
Apr	4,993	3,638	2,619,576	5,984	4,195	3,020,698	8,120	4,877	3,511,180	-17%	-13%	-13%
May	6,124	4,542	3,379,091	7,712	5,109	3,800,935	6,935	4,852	3,609,758	-21%	-11%	-11%
Jun	6,927	5,181	3,730,652	7,999	5,686	4,093,888	8,167	5,222	3,759,600	-13%	-9%	-9%
Jul	6,686	5,191	3,862,218	6,502	4,021	2,991,395	7,003	4,238	3,152,954	3%	29%	29%
Aug	8,294	5,045	3,753,849	5,905	3,925	2,920,074	7,770	4,242	3,155,838	40%	29%	29%
Sep	7,049	4,834	3,480,645	6,384	3,660	2,635,511	6,602	4,062	2,924,375	10%	32%	32%
Oct	6,627	4,186	3,114,418	6,426	3,428	2,550,242	7,717	3,700	2,752,448	3%	22%	22%
Nov	5,832	3,502	2,521,639	4,983	3,131	2,254,060	10,172	3,531	2,546,204	17%	12%	12%
Dec	4,928	3,195	2,377,181	4,735	3,195	2,491,161	6,572	3,460	2,574,372	4%	0%	-5%
2023			35,628,819			34,724,095			35,865,391			3%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

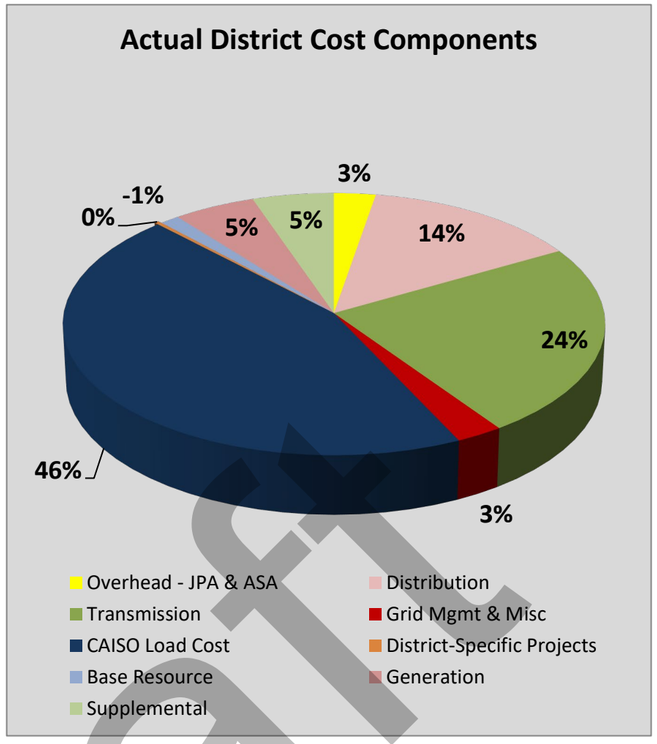
Table 1. District Cost Components

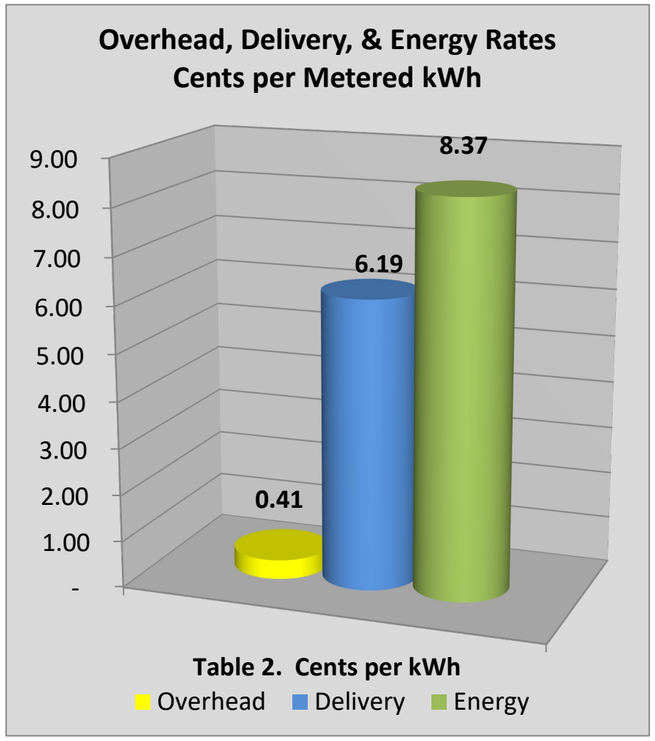
	2023 Budget	2022 Actual	Compare
Total Metered kWh	35,628,819	34,724,095	3%
Overhead - JPA & ASA	$ 147,645	$ 134,062	10%
Distribution	$ 767,937	$ 703,696	9%
Transmission	$ 1,293,746	$ 1,211,334	7%
Grid Mgmt & Misc	$ 142,515	$ 150,783	-5%
CAISO Load Cost	$ 2,457,489	$ 2,538,296	-3%
District-Specific Projects	$ 16,177	$ 12,195	33%
Base Resource	$ (69,142)	$ (17,518)	295%
Generation	$ 291,033	$ 143,431	103%
Supplemental	$ 288,047	$ 216,688	33%
Total Costs	$ 5,335,449	$ 5,092,966	5%

1% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	35,628,819	34,724,095	3%
Overhead	0.41	0.39	7%
Delivery	6.19	5.95	4%
Energy	8.37	8.33	1%
Total Costs	14.98	14.67	2%





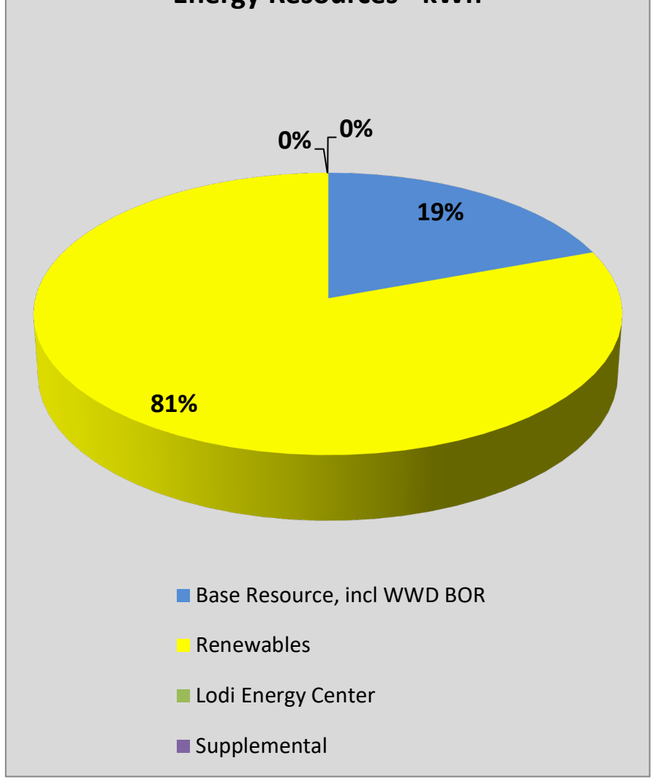
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	36,108,023	$ 2,457,489	6.81		-	$ 2,457,489	6.81
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	3,420,844	$ 140,215	4.10	$ (211,451)	(6.18)	$ (71,236)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	-	$ -	-	$ -	-	$ -	-
Generation - Astoria	3,163,910	$ 199,326	6.30	$ (102,265)	(3.23)	$ 97,062	3.07
Generation - Whitney	8,087,804	$ 475,159	5.88	$ (249,972)	(3.09)	$ 225,187	2.78
Generation - Slate PV	2,925,500	$ 78,433	2.68	$ (91,615)	(3.13)	$ (13,182)	(0.45)
Generation - Slate BESS	-	$ -	-	$ (28,931)	-	$ (28,931)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	18,509,965						
Total Loss Adjusted kWh	36,108,023	$ 3,350,622	9.28	$ (684,233)	(1.89)	$ 2,666,389	7.38

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	36,108,023	$ 2,457,489	6.81			$ 2,457,489	6.81
Base Resource, incl WWD BOR	3,420,844	$ 142,309	4.16	$ (211,451)	(6.18)	$ (69,142)	(2.02)
Renewables	14,177,214	$ 779,993	5.50	$ (443,851)	(3.13)	$ 336,142	2.37
Lodi Energy Center	-	$ -	-	$ -	-	$ -	-
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 288,047				$ 288,047	
Resource Subtotal	17,598,058	$ 1,210,349	6.88	$ (655,302)	(3.72)	$ 555,047	3.15
Net Portfolio	36,108,023					$ 3,012,536	8.34
Percent of Load Covered	*49%*						



Draft

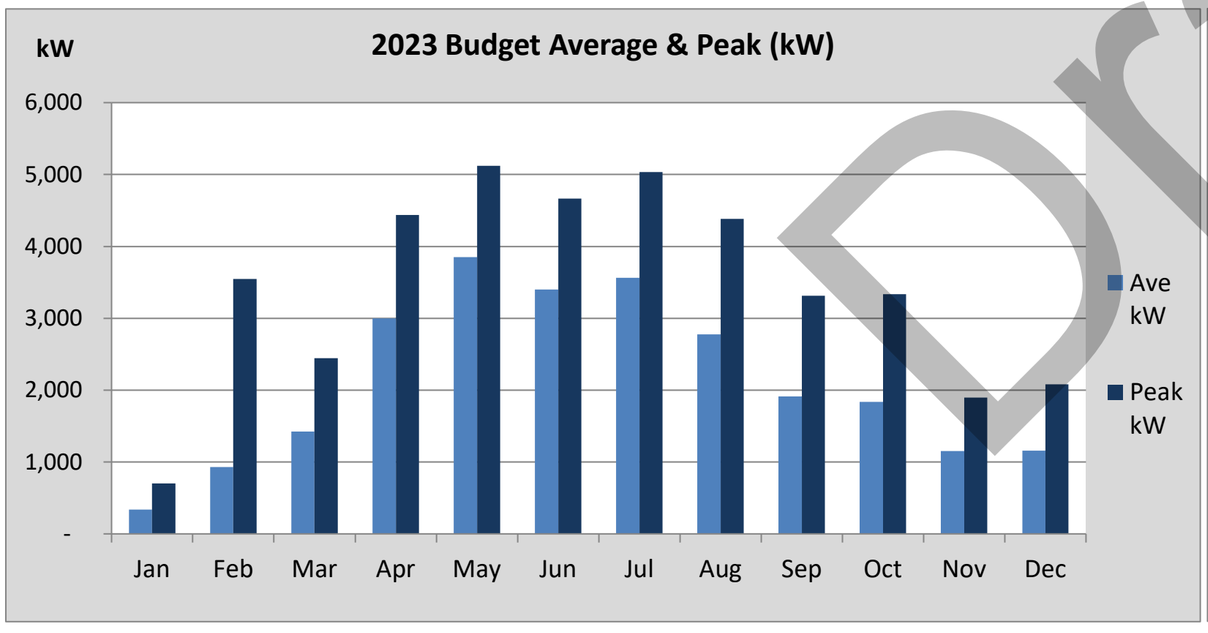
Power and Water Resources Pooling Authority

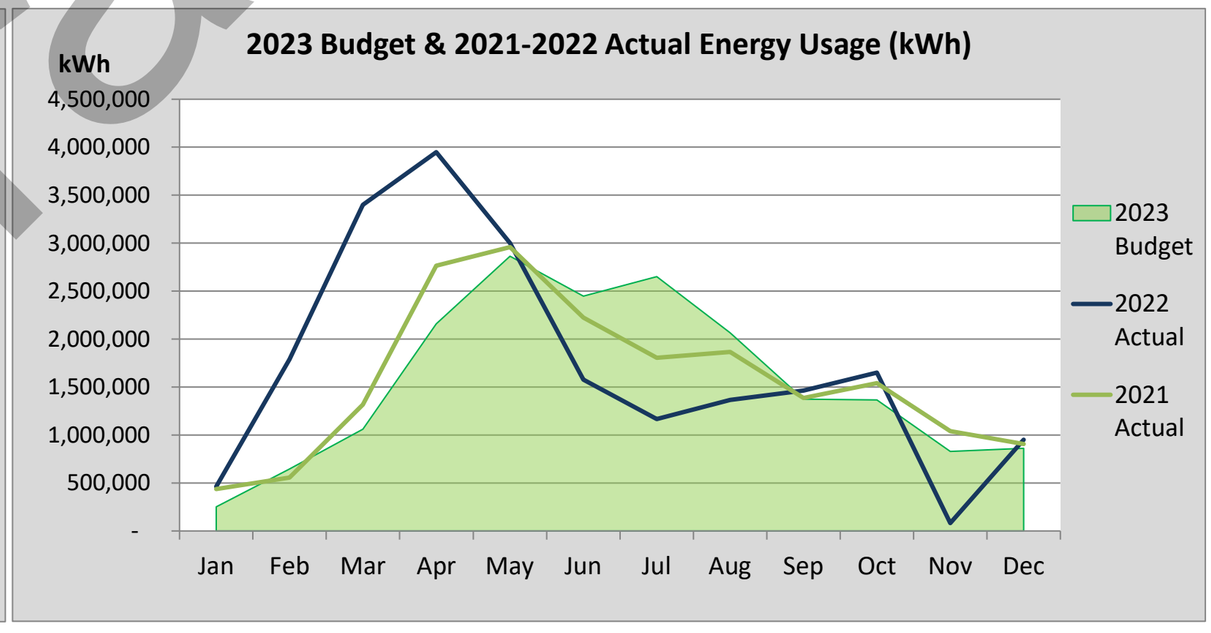
Energy Summary, Metered kWh

West Stan

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	702	336	249,730	3,200	621	461,793	1,243	587	436,877	-78%	-46%	-46%
Feb	3,545	930	647,467	3,872	2,573	1,790,596	3,053	798	555,740	-8%	-64%	-64%
Mar	2,444	1,425	1,059,967	5,787	4,566	3,397,352	3,124	1,774	1,317,937	-58%	-69%	-69%
Apr	4,438	2,997	2,158,012	6,228	5,484	3,948,239	5,688	3,840	2,764,446	-29%	-45%	-45%
May	5,121	3,849	2,863,861	5,380	4,033	3,000,249	5,437	3,977	2,958,638	-5%	-5%	-5%
Jun	4,666	3,401	2,448,970	3,602	2,190	1,576,908	4,258	3,088	2,223,261	30%	55%	55%
Jul	5,036	3,563	2,651,147	2,274	1,570	1,167,849	3,431	2,426	1,805,253	121%	127%	127%
Aug	4,383	2,778	2,067,131	2,575	1,836	1,366,344	3,963	2,508	1,865,758	70%	51%	51%
Sep	3,315	1,911	1,375,729	2,675	2,034	1,464,597	3,380	1,924	1,385,292	24%	-6%	-6%
Oct	3,337	1,834	1,364,578	3,756	2,217	1,649,299	3,777	2,072	1,541,761	-11%	-17%	-17%
Nov	1,894	1,154	830,635	687	114	82,118	3,756	1,440	1,038,570	176%	912%	912%
Dec	2,083	1,160	862,949	2,270	1,160	950,000	2,230	1,215	904,186	-8%	0%	-9%
2023			18,580,175			20,855,342			18,797,720			-11%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

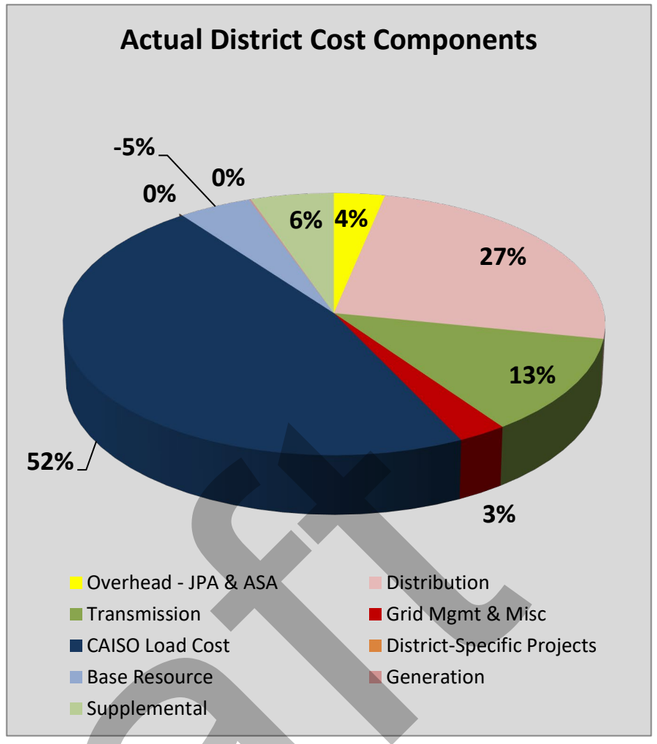
Table 1. District Cost Components

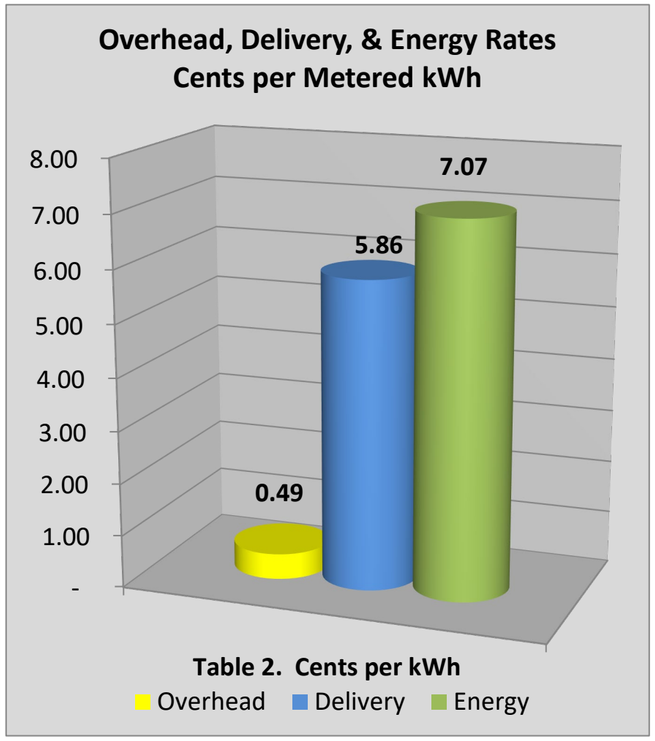
	2023 Budget	2022 Actual	Compare
Total Metered kWh	18,580,175	20,855,342	-11%
Overhead - JPA & ASA	$ 90,608	$ 73,683	23%
Distribution	$ 683,549	$ 558,742	22%
Transmission	$ 330,272	$ 364,971	-10%
Grid Mgmt & Misc	$ 74,321	$ 88,313	-16%
CAISO Load Cost	$ 1,291,858	$ 1,510,271	-14%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (130,130)	$ (36,577)	256%
Generation	$ 3,188	$ (30,886)	-110%
Supplemental	$ 148,106	$ 5,273	2709%
Total Costs	$ 2,491,771	$ 2,533,790	-2%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	18,580,175	20,855,342	-11%
Overhead	0.49	0.35	38%
Delivery	5.86	4.85	21%
Energy	7.07	6.94	2%
Total Costs	13.41	12.15	10%





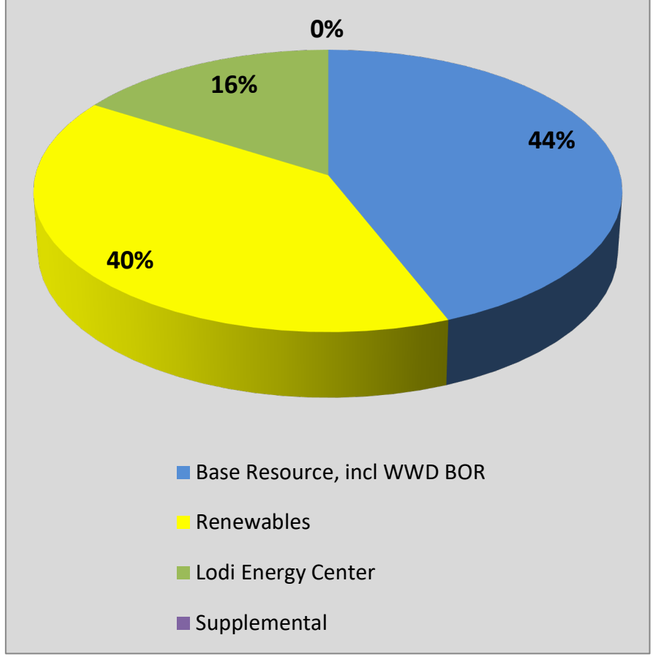
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	18,937,087	$ 1,291,858	6.82		-	$ 1,291,858	6.82
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	6,438,242	$ 263,893	4.10	$ (397,964)	(6.18)	$ (134,071)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	2,346,391	$ 181,027	7.72	$ (138,546)	(5.90)	$ 42,481	1.81
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	5,843,400	$ 156,662	2.68	$ (182,991)	(3.13)	$ (26,330)	(0.45)
Generation - Slate BESS	-	$ 80,400	-	$ (57,787)	-	$ 22,613	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	4,309,053						
Total Loss Adjusted kWh	18,937,087	$ 1,973,839	10.42	$ (777,288)	(4.10)	$ 1,196,551	6.32

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	18,937,087	$ 1,291,858	6.82			$ 1,291,858	6.82
Base Resource, incl WWD BOR	6,438,242	$ 267,835	4.16	$ (397,964)	(6.18)	$ (130,130)	(2.02)
Renewables	5,843,400	$ 159,137	2.72	$ (182,991)	(3.13)	$ (23,854)	(0.41)
Lodi Energy Center	2,346,391	$ 222,923	9.50	$ (138,546)	(5.90)	$ 84,377	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 68,158				$ 68,158	
Resource Subtotal	14,628,033	$ 718,052	4.91	$ (719,501)	(4.92)	$ (1,449)	(0.01)
Net Portfolio	18,937,087					$ 1,290,409	6.81
Percent of Load Covered	*77%*						



Draft

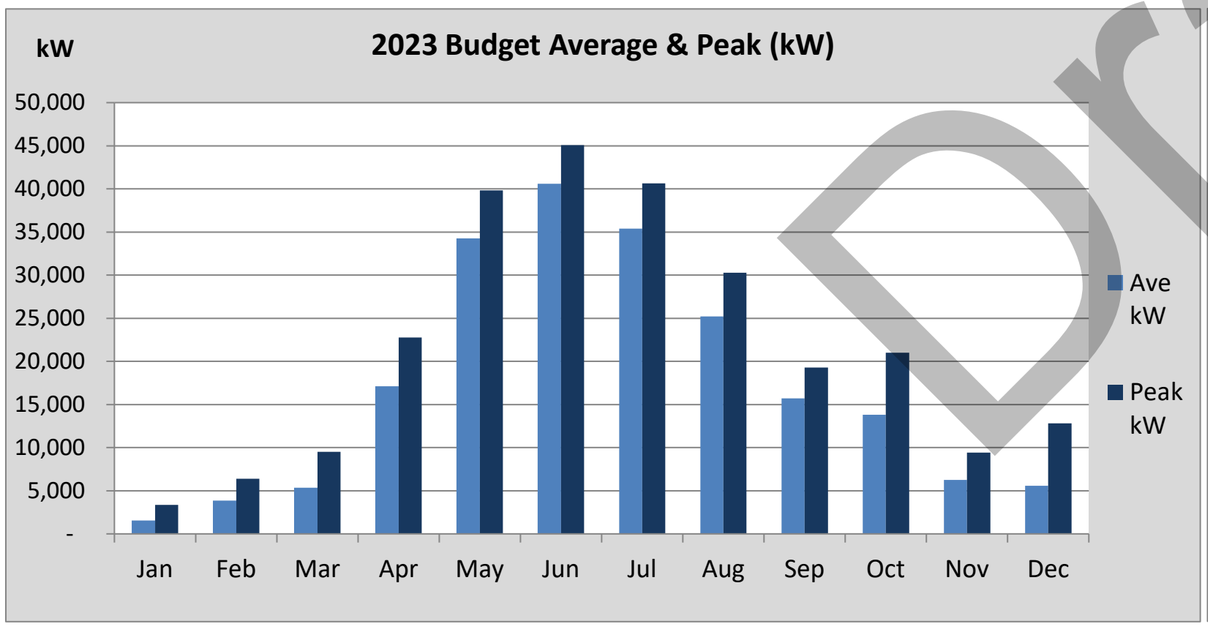
Power and Water Resources Pooling Authority

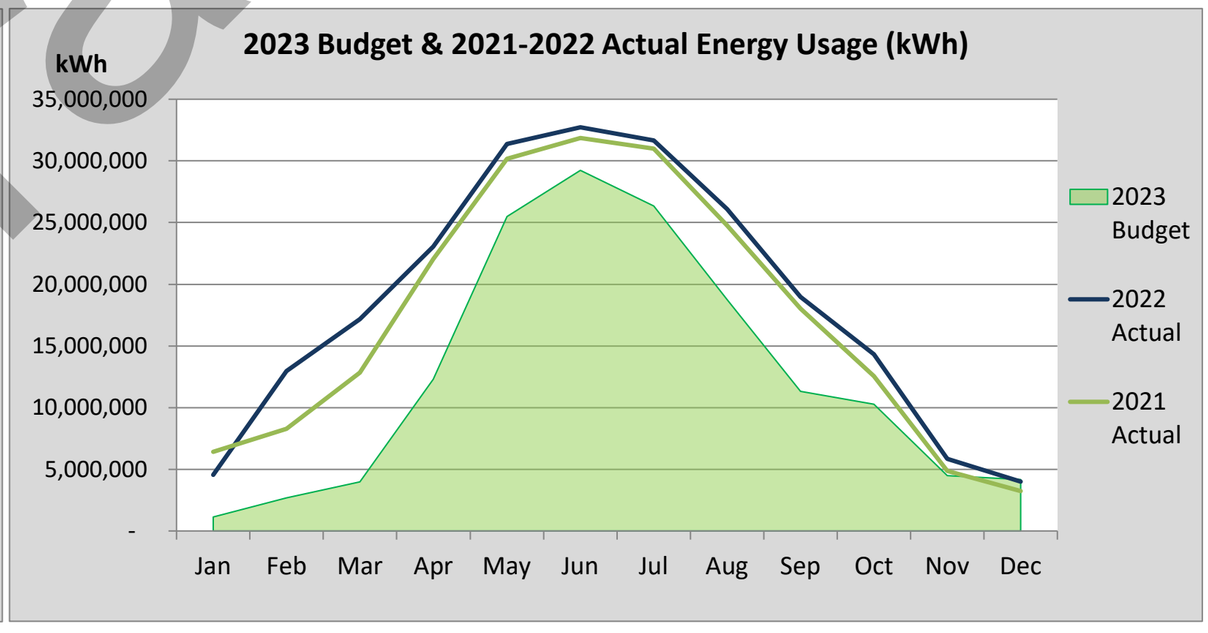
Energy Summary, Metered kWh

Westlands

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	3,379	1,535	1,142,000	14,212	6,120	4,553,578	33,932	8,626	6,418,078	-76%	-75%	-75%
Feb	6,371	3,859	2,686,000	28,993	18,608	12,950,988	40,340	11,903	8,284,564	-78%	-79%	-79%
Mar	9,497	5,364	3,991,000	30,313	23,099	17,185,851	47,921	17,281	12,839,453	-69%	-77%	-77%
Apr	22,747	17,096	12,309,000	41,030	32,038	23,067,225	61,601	30,604	22,034,959	-45%	-47%	-47%
May	39,848	34,269	25,496,000	49,594	42,172	31,375,816	62,515	40,556	30,173,873	-20%	-19%	-19%
Jun	45,084	40,601	29,233,000	50,213	45,451	32,724,937	65,391	44,244	31,855,602	-10%	-11%	-11%
Jul	40,620	35,407	26,343,000	48,860	42,567	31,669,897	64,651	41,663	30,996,937	-17%	-17%	-17%
Aug	30,297	25,202	18,750,000	39,606	35,061	26,085,374	58,156	33,283	24,762,511	-24%	-28%	-28%
Sep	19,306	15,729	11,325,000	35,949	26,371	18,987,219	52,924	25,012	18,008,920	-46%	-40%	-40%
Oct	21,002	13,808	10,273,000	25,227	19,233	14,309,254	45,872	16,854	12,539,557	-17%	-28%	-28%
Nov	9,442	6,251	4,501,000	16,497	8,140	5,860,739	33,237	6,749	4,866,116	-43%	-23%	-23%
Dec	12,835	5,595	4,163,000	12,835	5,595	4,000,000	18,110	4,347	3,234,240	0%	0%	4%
2023			150,212,000			222,770,877			206,014,809			-33%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

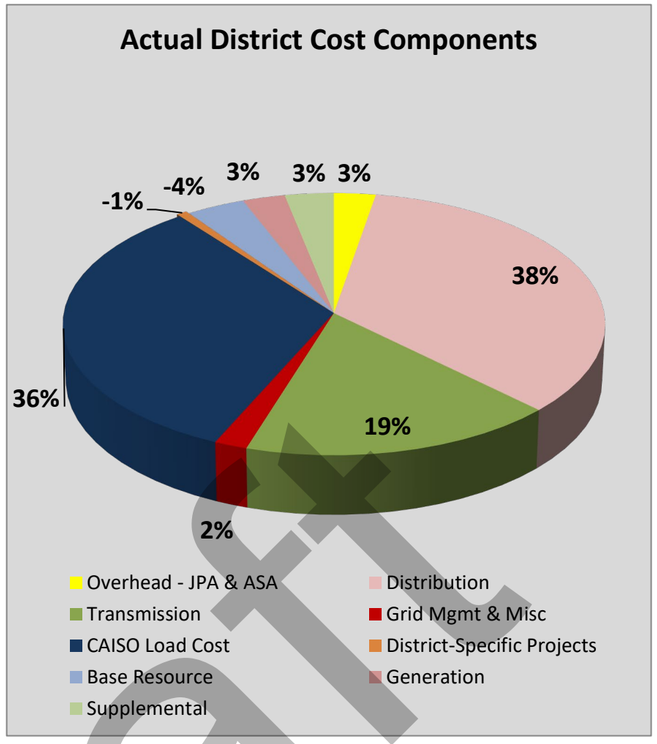
Table 1. District Cost Components

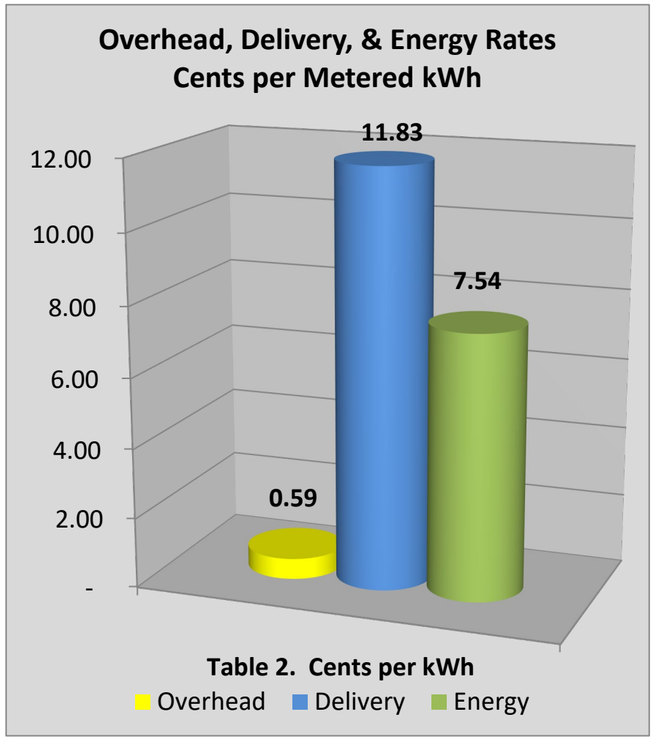
	2023 Budget	2022 Actual	Compare
Total Metered kWh	150,212,000	222,770,877	-33%
Overhead - JPA & ASA	$ 888,706	$ 921,683	-4%
Distribution	$ 11,413,382	$ 11,422,491	0%
Transmission	$ 5,751,286	$ 8,108,745	-29%
Grid Mgmt & Misc	$ 600,848	$ 975,969	-38%
CAISO Load Cost	$ 10,853,505	$ 18,166,468	-40%
District-Specific Projects	$ (228,601)	$ (352,489)	-35%
Base Resource	$ (1,251,241)	$ (366,567)	241%
Generation	$ 905,960	$ 482,656	88%
Supplemental	$ 1,041,723	$ (26,599)	-4016%
Total Costs	$ 29,975,569	$ 39,332,358	-24%

7% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	150,212,000	222,770,877	-33%
Overhead	0.59	0.41	43%
Delivery	11.83	9.21	28%
Energy	7.54	8.04	-6%
Total Costs	19.96	17.66	13%





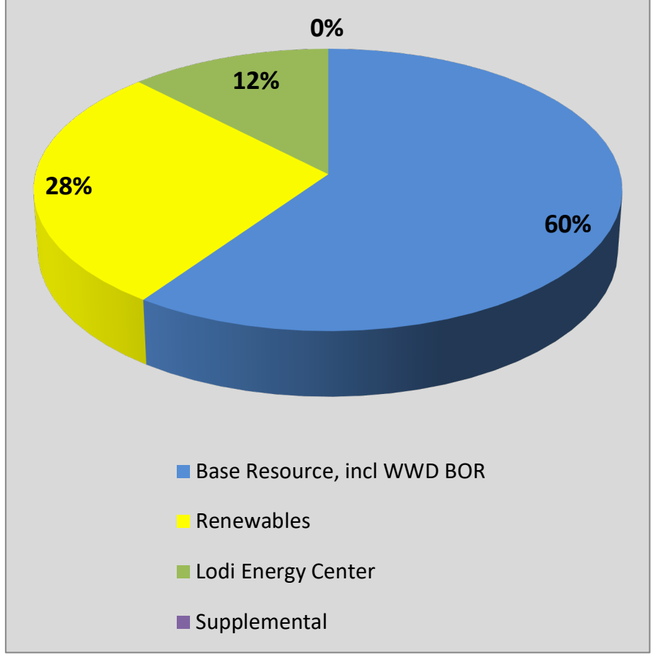
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	160,516,463	$ 10,853,505	6.76		-	$ 10,853,505	6.76
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	3,904,000	$ -	-	$ (244,779)	(6.27)	$ (244,779)	(6.27)
Base Resource	61,905,943	$ 2,537,427	4.10	$ (3,826,565)	(6.18)	$ (1,289,138)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	13,574,502	$ 1,047,289	7.72	$ (801,525)	(5.90)	$ 245,764	1.81
Generation - Astoria	10,443,619	$ 657,948	6.30	$ (337,561)	(3.23)	$ 320,387	3.07
Generation - Whitney	8,665,437	$ 509,094	5.88	$ (267,825)	(3.09)	$ 241,270	2.78
Generation - Slate PV	11,686,801	$ 313,323	2.68	$ (365,982)	(3.13)	$ (52,659)	(0.45)
Generation - Slate BESS	-	$ 257,280	-	$ (115,573)	-	$ 141,707	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	50,336,162						
Total Loss Adjusted kWh	160,516,463	$ 16,175,867	10.08	$ (5,959,811)	(3.71)	$ 10,216,057	6.36

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	160,516,463	$ 10,853,505	6.76			$ 10,853,505	6.76
Base Resource, incl WWD BOR	65,809,943	$ 2,591,502	3.94	$ (4,071,344)	(6.19)	$ (1,479,842)	(2.25)
Renewables	30,795,856	$ 1,501,779	4.88	$ (971,368)	(3.15)	$ 530,411	1.72
Lodi Energy Center	13,574,502	$ 1,289,630	9.50	$ (801,525)	(5.90)	$ 488,105	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 787,461				$ 787,461	
Resource Subtotal	110,180,301	$ 6,170,372	5.60	$ (5,844,237)	(5.30)	$ 326,134	0.30
Net Portfolio	160,516,463					$ 11,179,640	6.96
Percent of Load Covered	*69%*						



Draft

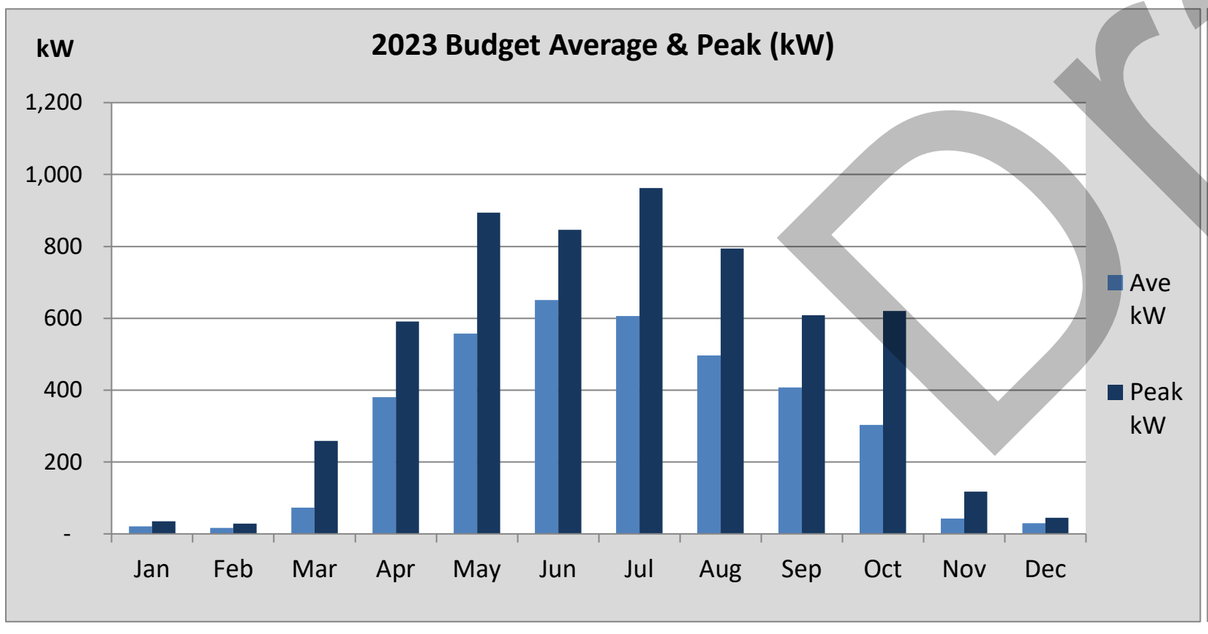
Power and Water Resources Pooling Authority

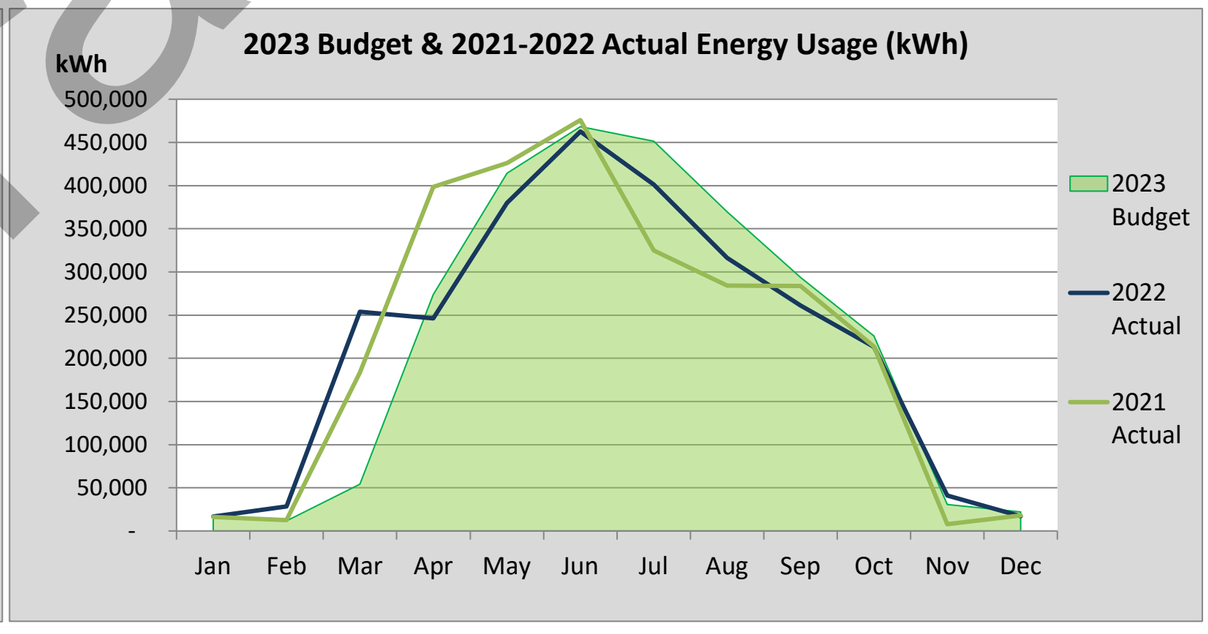
Energy Summary, Metered kWh

Westside

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	35	20	15,168	34	22	16,712	39	22	16,232	1%	-9%	-9%
Feb	29	17	11,546	152	41	28,444	33	18	12,775	-81%	-59%	-59%
Mar	259	73	53,965	795	341	253,680	886	247	183,541	-67%	-79%	-79%
Apr	591	380	273,650	597	342	246,312	861	553	398,501	-1%	11%	11%
May	894	557	414,425	901	511	380,070	920	573	426,264	-1%	9%	9%
Jun	846	650	468,252	1,032	643	462,607	861	661	475,825	-18%	1%	1%
Jul	962	607	451,397	755	539	401,007	693	436	324,632	27%	13%	13%
Aug	794	497	369,767	650	425	316,106	610	382	283,932	22%	17%	17%
Sep	608	408	293,643	601	363	261,316	588	394	283,682	1%	12%	12%
Oct	621	304	225,981	611	287	213,170	589	287	213,834	2%	6%	6%
Nov	118	43	30,631	240	57	40,934	31	11	7,813	-51%	-25%	-25%
Dec	44	30	22,277	123	30	16,988	37	24	17,832	-64%	0%	31%
2023			2,630,701			2,637,348			2,644,862			0%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

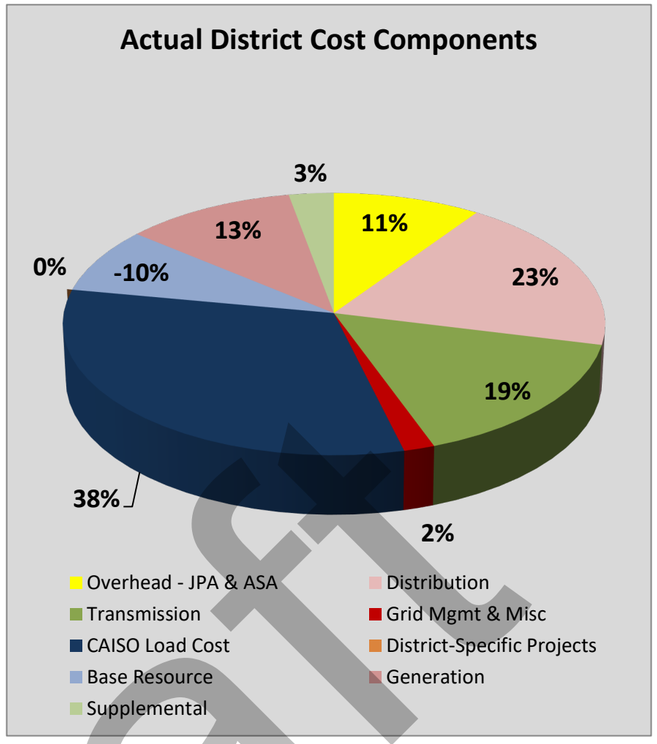
Table 1. District Cost Components

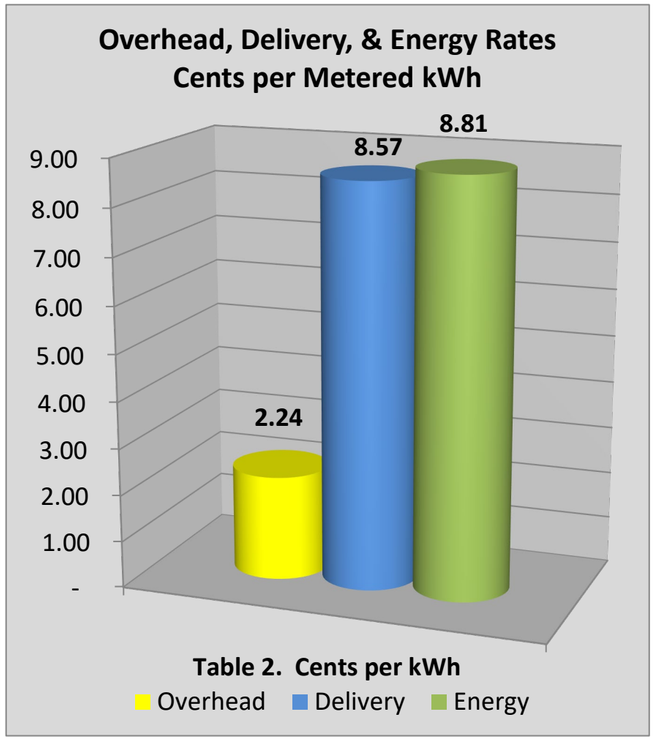
	2023 Budget	2022 Actual	Compare
Total Metered kWh	2,630,701	2,637,348	0%
Overhead - JPA & ASA	$ 58,892	$ 47,071	25%
Distribution	$ 118,940	$ 86,419	38%
Transmission	$ 96,081	$ 90,405	6%
Grid Mgmt & Misc	$ 10,523	$ 10,621	-1%
CAISO Load Cost	$ 195,769	$ 208,617	-6%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (50,051)	$ (16,082)	211%
Generation	$ 68,153	$ 37,803	80%
Supplemental	$ 17,872	$ (2,037)	-978%
Total Costs	$ 516,179	$ 462,817	12%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	2,630,701	2,637,348	0%
Overhead	2.24	1.78	25%
Delivery	8.57	7.11	21%
Energy	8.81	8.66	2%
Total Costs	19.62	17.55	12%





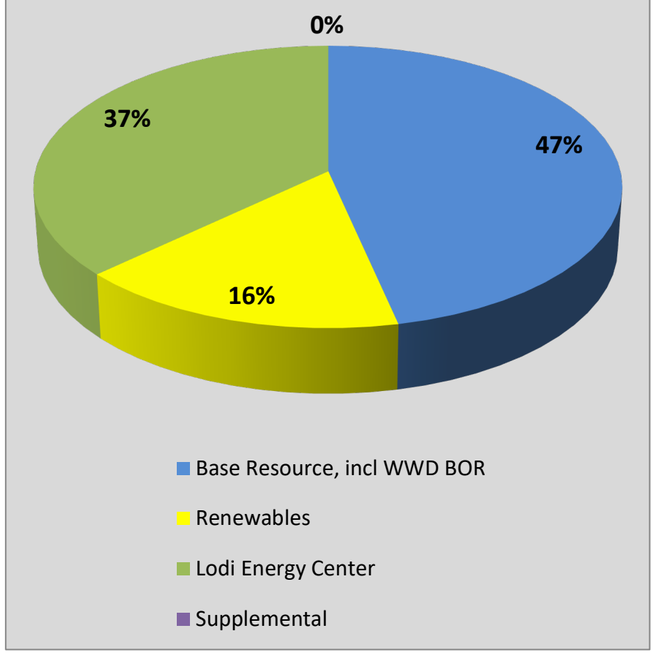
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	2,681,578	$ 195,769	7.30		-	$ 195,769	7.30
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	2,476,301	$ 101,500	4.10	$ (153,067)	(6.18)	$ (51,567)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	1,966,188	$ 151,694	7.72	$ (116,096)	(5.90)	$ 35,597	1.81
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	873,851	$ 23,428	2.68	$ (27,365)	(3.13)	$ (3,937)	(0.45)
Generation - Slate BESS	-	$ 12,060	-	$ (8,642)	-	$ 3,418	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	(2,634,762)						
Total Loss Adjusted kWh	2,681,578	$ 484,450	18.07	$ (305,170)	(11.38)	$ 179,281	6.69

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	2,681,578	$ 195,769	7.30			$ 195,769	7.30
Base Resource, incl WWD BOR	2,476,301	$ 103,016	4.16	$ (153,067)	(6.18)	$ (50,051)	(2.02)
Renewables	873,851	$ 23,799	2.72	$ (27,365)	(3.13)	$ (3,566)	(0.41)
Lodi Energy Center	1,966,188	$ 186,801	9.50	$ (116,096)	(5.90)	$ 70,705	3.60
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 15,468				$ 15,468	
Resource Subtotal	5,316,339	$ 329,084	6.19	$ (296,528)	(5.58)	$ 32,556	0.61
Net Portfolio	2,681,578					$ 228,325	8.51
Percent of Load Covered	*198%*						



Draft

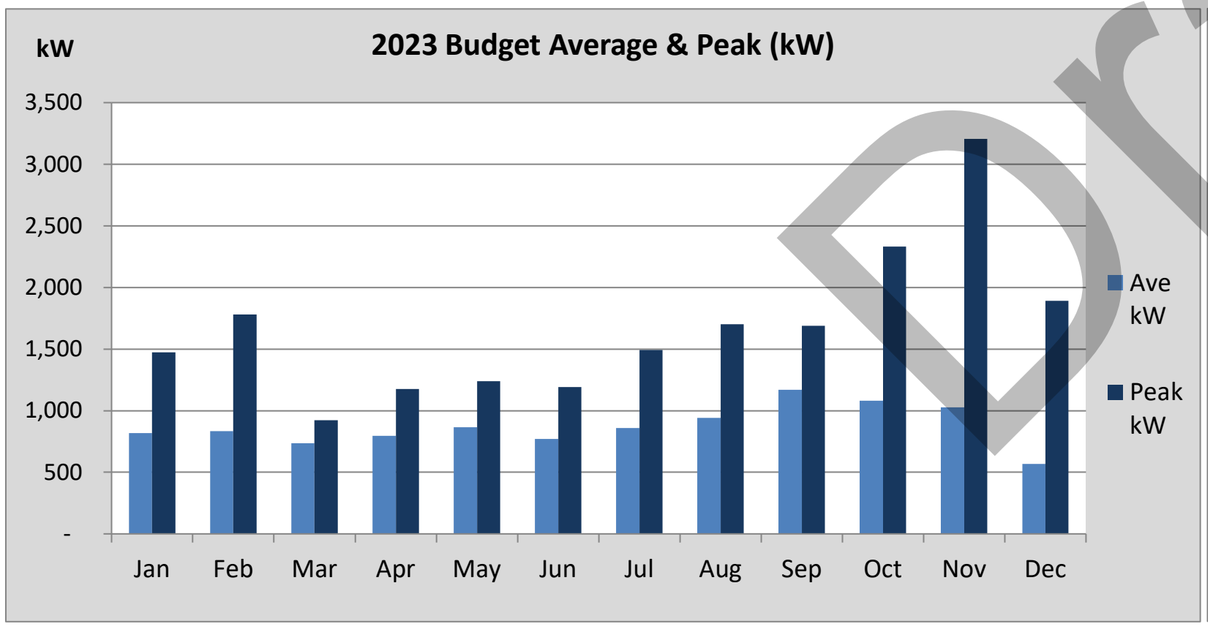
Power and Water Resources Pooling Authority

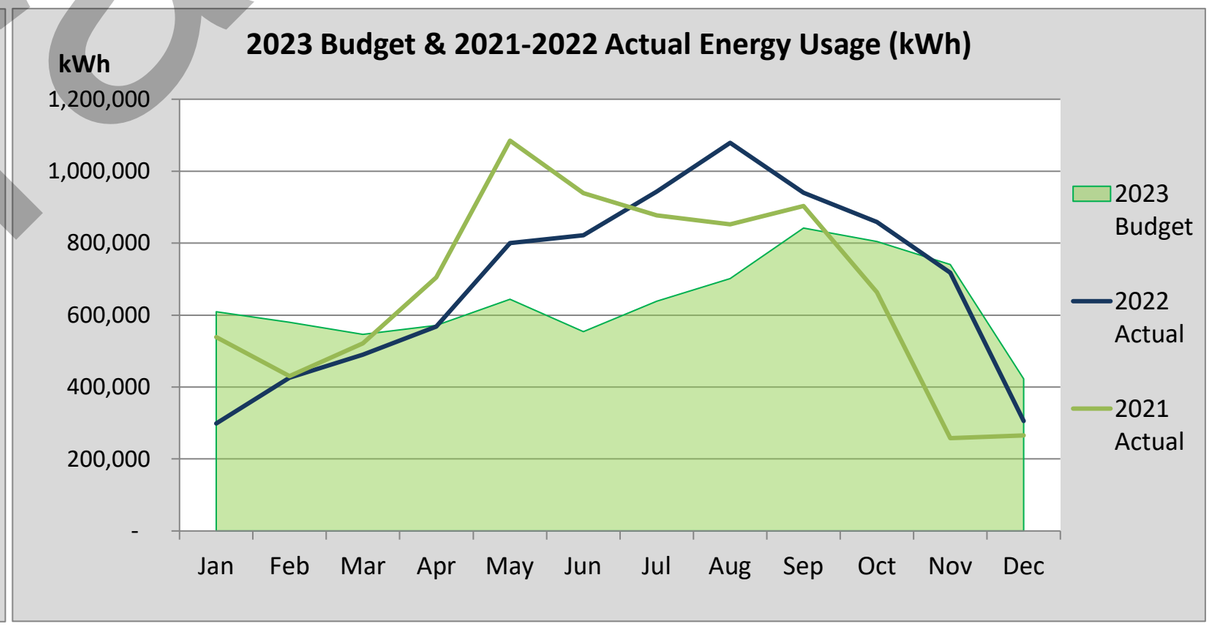
Energy Summary, Metered kWh

Zone 7

2023 Budget Summary - Average

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	1,474	819	609,423	1,414	402	298,738	1,363	724	538,354	4%	104%	104%
Feb	1,781	834	580,524	1,356	612	425,776	1,368	618	430,359	31%	36%	36%
Mar	922	734	546,181	1,449	659	490,312	961	701	521,005	-36%	11%	11%
Apr	1,175	794	571,869	1,460	790	568,573	1,492	979	705,098	-20%	1%	1%
May	1,240	866	644,119	1,361	1,076	800,222	2,207	1,458	1,084,862	-9%	-20%	-20%
Jun	1,193	769	553,977	1,421	1,141	821,756	2,227	1,304	939,219	-16%	-33%	-33%
Jul	1,493	858	638,320	1,755	1,268	943,533	2,194	1,179	876,924	-15%	-32%	-32%
Aug	1,702	943	701,401	1,875	1,450	1,078,852	2,342	1,146	852,728	-9%	-35%	-35%
Sep	1,689	1,169	841,915	1,987	1,305	939,942	1,905	1,254	902,716	-15%	-10%	-10%
Oct	2,332	1,081	804,011	1,866	1,155	859,055	1,962	892	663,318	25%	-6%	-6%
Nov	3,206	1,028	740,190	1,286	997	717,535	1,492	358	257,923	149%	3%	3%
Dec	1,893	568	422,370	870	568	305,200	1,369	357	265,357	118%	0%	38%
2023			7,654,299			8,249,494			8,037,861			-7%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

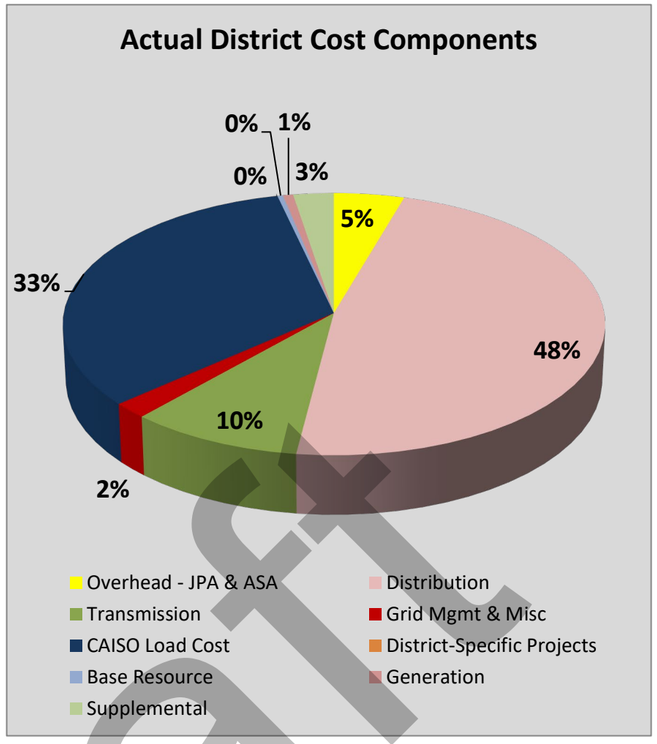
Table 1. District Cost Components

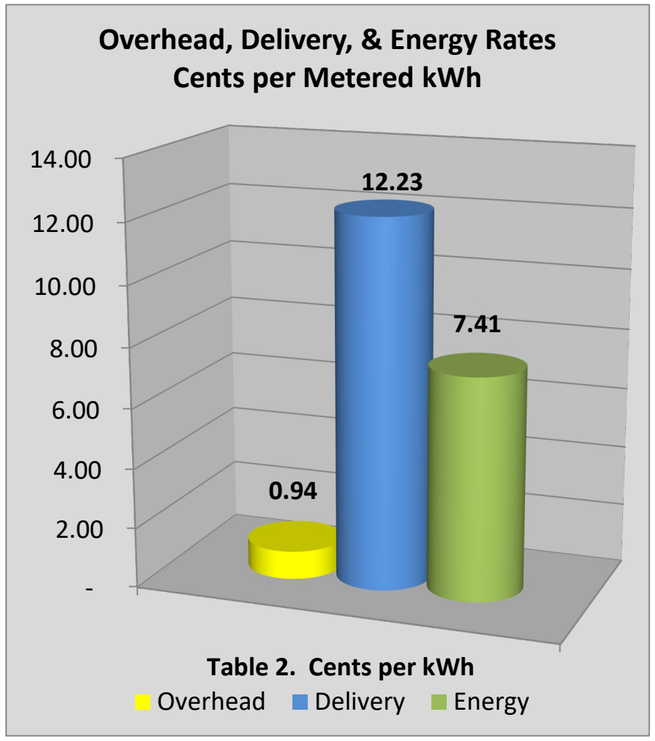
	2023 Budget	2022 Actual	Compare
Total Metered kWh	7,654,299	8,249,494	-7%
Overhead - JPA & ASA	$ 72,190	$ 59,243	22%
Distribution	$ 753,486	$ 395,610	90%
Transmission	$ 151,806	$ 147,418	3%
Grid Mgmt & Misc	$ 30,617	$ 36,588	-16%
CAISO Load Cost	$ 520,831	$ 596,733	-13%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (5,596)	$ (1,360)	312%
Generation	$ 10,506	$ (3,648)	-388%
Supplemental	$ 41,529	$ 30,808	35%
Total Costs	$ 1,575,369	$ 1,261,390	25%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	7,654,299	8,249,494	-7%
Overhead	0.94	0.72	31%
Delivery	12.23	7.03	74%
Energy	7.41	7.55	-2%
Total Costs	20.58	15.29	35%





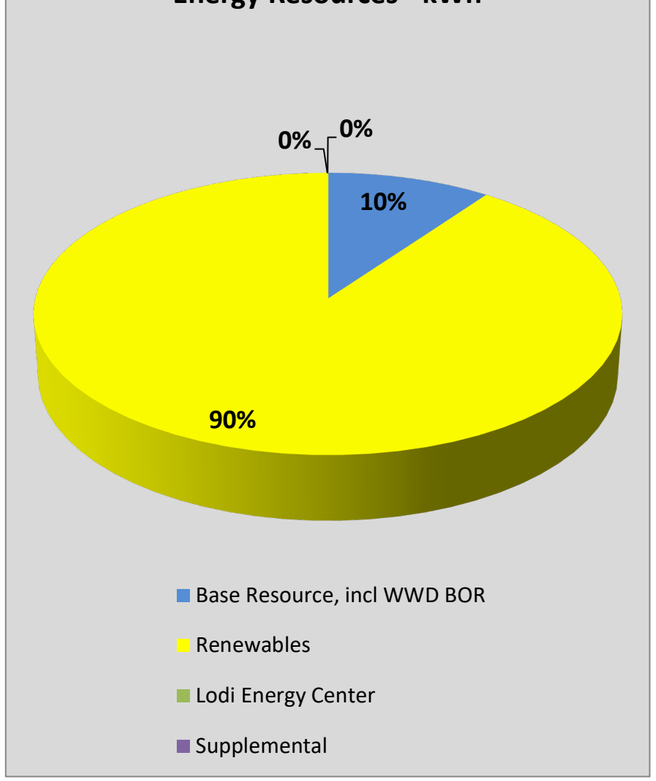
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	7,801,080	$ 520,831	6.68		-	$ 520,831	6.68
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	276,885	$ 11,349	4.10	$ (17,115)	(6.18)	$ (5,766)	(2.08)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	-	$ -	-	$ -	-	$ -	-
Generation - Astoria	453,713	$ 28,584	6.30	$ (14,665)	(3.23)	$ 13,919	3.07
Generation - Whitney	577,632	$ 33,936	5.88	$ (17,853)	(3.09)	$ 16,083	2.78
Generation - Slate PV	1,458,950	$ 39,114	2.68	$ (45,688)	(3.13)	$ (6,574)	(0.45)
Generation - Slate BESS	-	$ -	-	$ (14,428)	-	$ (14,428)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	5,033,899						
Total Loss Adjusted kWh	7,801,080	$ 633,814	8.12	$ (109,749)	(1.41)	$ 524,065	6.72

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	7,801,080	$ 520,831	6.68			$ 520,831	6.68
Base Resource, incl WWD BOR	276,885	$ 11,519	4.16	$ (17,115)	(6.18)	$ (5,596)	(2.02)
Renewables	2,490,296	$ 103,140	4.14	$ (78,206)	(3.14)	$ 24,934	1.00
Lodi Energy Center	-	$ -	-	$ -	-	$ -	-
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 41,529				$ 41,529	
Resource Subtotal	2,767,181	$ 156,187	5.64	$ (95,321)	(3.44)	$ 60,866	2.20
Net Portfolio	7,801,080					$ 581,697	7.46
Percent of Load Covered	*35%*						

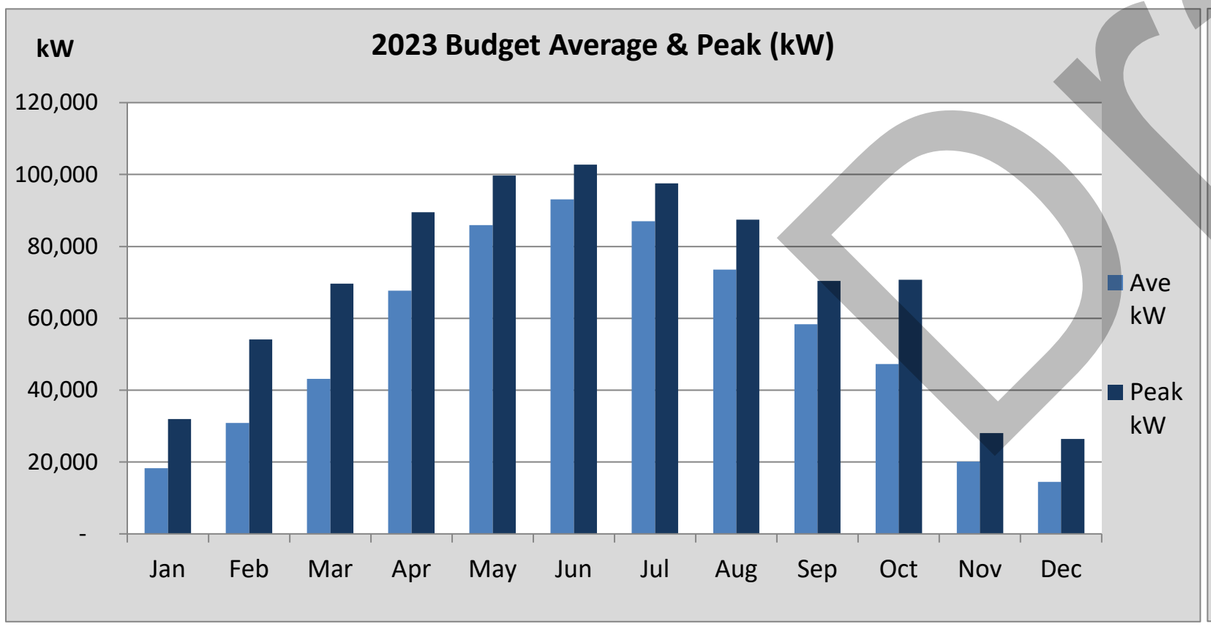


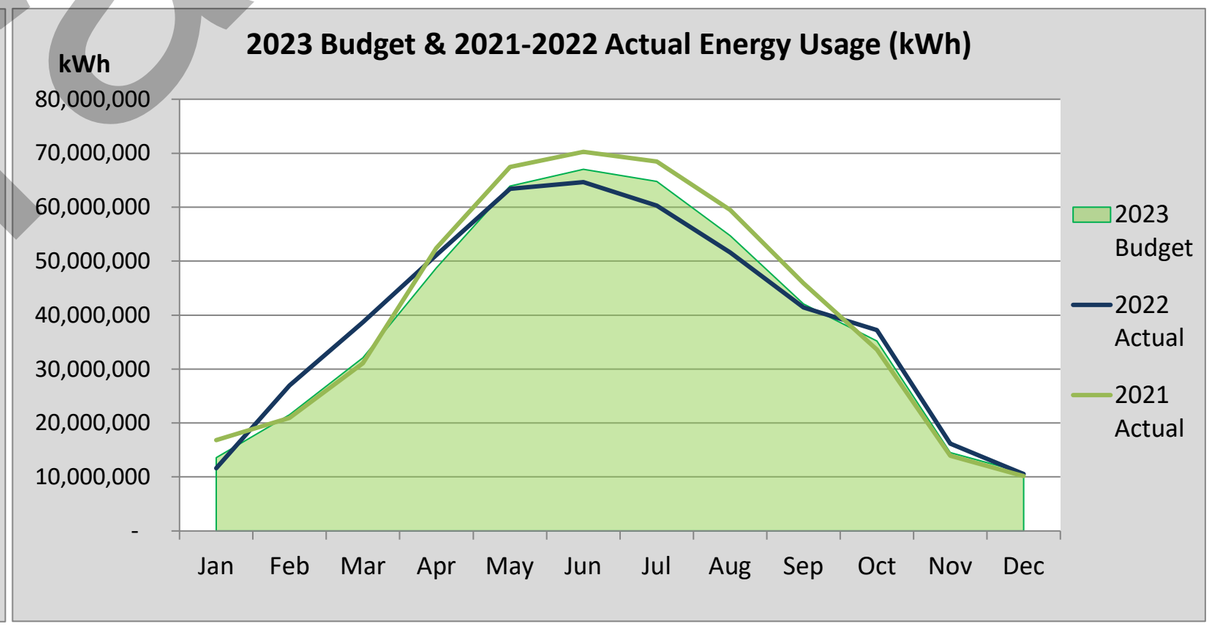
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — PWRPA — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	31,999	18,227	13,561,085	35,106	15,580	11,591,574	70,937	22,617	16,827,315	-9%	17%	17%
Feb	54,058	30,898	21,504,872	58,315	38,677	26,918,874	88,419	30,098	20,948,187	-7%	-20%	-20%
Mar	69,599	43,096	32,063,402	73,766	52,015	38,699,350	103,776	41,855	31,098,422	-6%	-17%	-17%
Apr	89,459	67,653	48,710,026	92,888	70,960	51,091,296	133,084	72,795	52,412,715	-4%	-5%	-5%
May	99,666	85,882	63,896,154	104,482	85,174	63,369,554	138,480	90,618	67,419,745	-5%	1%	1%
Jun	102,705	93,075	67,014,134	102,050	89,777	64,639,664	141,631	97,574	70,253,386	1%	4%	4%
Jul	97,530	87,047	64,763,321	92,827	81,078	60,322,353	137,470	91,966	68,422,951	5%	7%	7%
Aug	87,386	73,573	54,738,638	86,354	69,356	51,600,630	130,111	80,008	59,525,971	1%	6%	6%
Sep	70,379	58,390	42,041,091	77,669	57,505	41,403,513	114,555	63,697	45,861,963	-9%	2%	2%
Oct	70,691	47,280	35,176,211	71,178	50,046	37,234,194	102,974	45,161	33,600,023	-1%	-6%	-6%
Nov	28,009	20,166	14,519,253	47,538	22,512	16,208,750	74,180	19,373	13,968,115	-41%	-10%	-10%
Dec	26,450	14,516	10,799,918	26,106	14,671	10,546,262	51,317	13,664	10,165,792	1%	-1%	2%
2023			468,788,103			473,626,012			490,504,585			-1%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

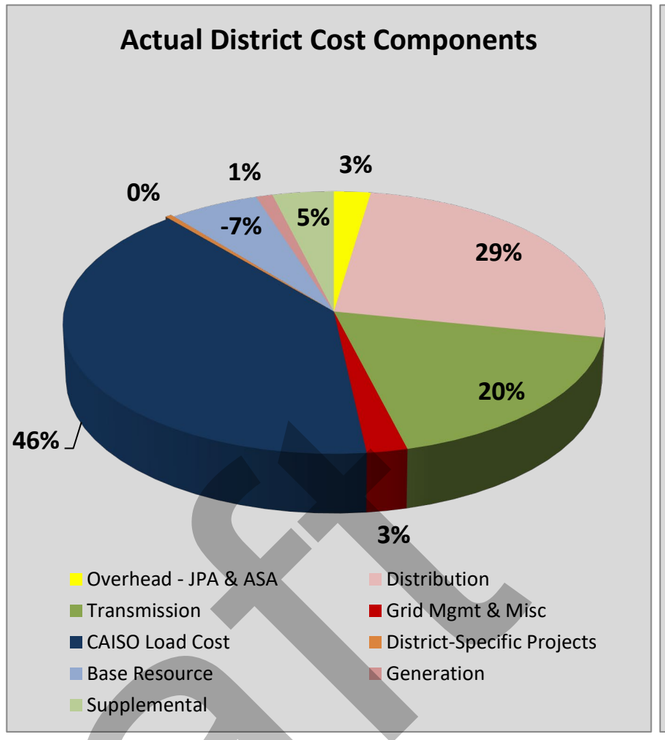
Table 1. Cost Components

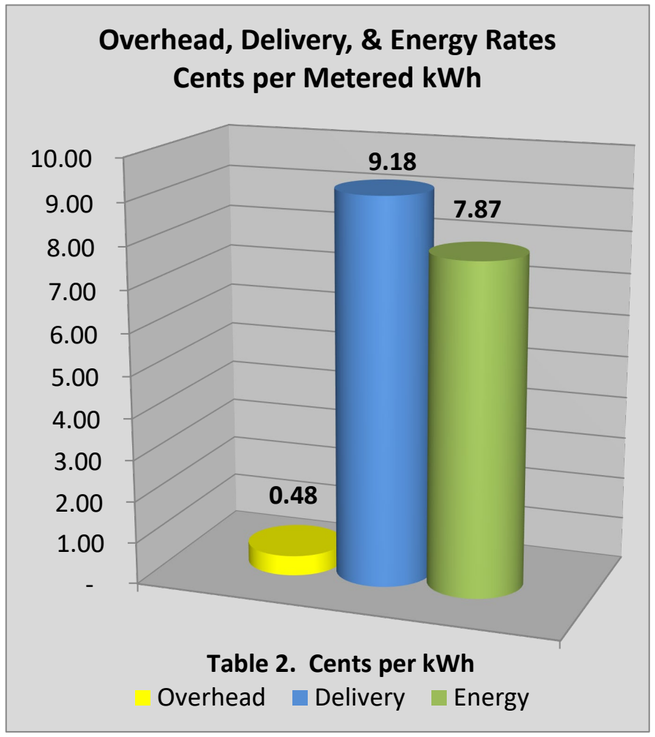
	2023 Budget	2022 Actual	Compare
Total Metered kWh	468,788,103	473,626,012	-1%
Overhead - JPA & ASA	$ 2,230,415	$ 2,075,519	7%
Distribution	$ 24,193,539	$ 19,262,024	26%
Transmission	$ 16,725,092	$ 16,196,437	3%
Grid Mgmt & Misc	$ 2,109,546	$ 2,058,191	2%
CAISO Load Cost	$ 38,014,147	$ 37,597,082	1%
District-Specific Projects	$ (390,232)	$ (340,294)	15%
Base Resource	$ (5,468,864)	$ (756,169)	623%
Generation	$ 1,005,090	$ 1,095,269	-8%
Supplemental	$ 3,720,452	$ 801,641	364%
Total Costs	$ 82,139,185	$ 77,989,699	5%

4% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	468,788,103	473,626,012	-1%
Overhead	0.48	0.44	9%
Delivery	9.18	7.92	16%
Energy	7.87	8.11	-3%
Total Costs	17.52	16.47	6%





2023 Annual Resource Portfolio

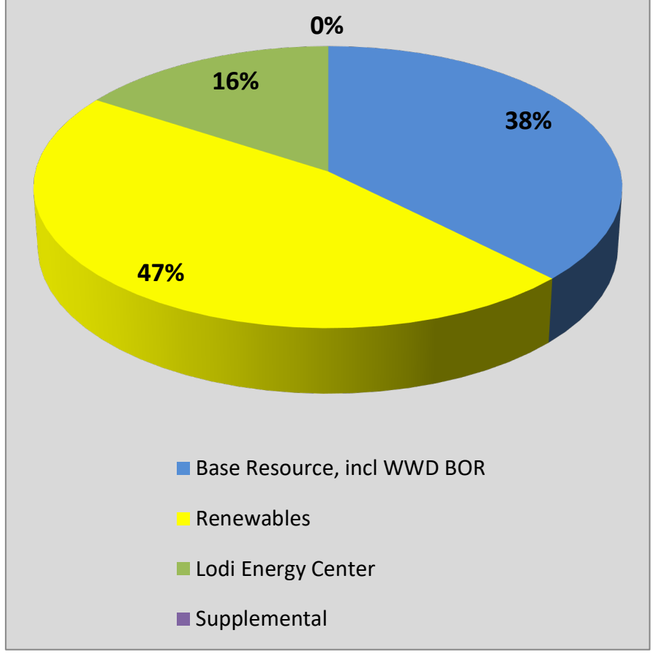
Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	489,446,425	$ 38,014,147	7.77		-	$ 38,014,147	7.77
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	3,904,000	$ -	-	$ (422,587)	(10.82)	$ (422,587)	(10.82)
Base Resource	107,133,533	$ 5,251,873	4.90	$ (10,799,175)	(10.08)	$ (5,547,302)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	46,888,620	$ 3,617,514	7.72	$ (3,797,848)	(8.10)	$ (180,334)	(0.38)
Generation - Astoria	30,205,228	$ 1,902,929	6.30	$ (1,308,782)	(4.33)	$ 594,147	1.97
Generation - Whitney	31,772,950	$ 1,866,661	5.88	$ (1,315,284)	(4.14)	$ 551,377	1.74
Generation - Slate PV	75,971,803	$ 2,036,804	2.68	$ (2,241,842)	(2.95)	$ (205,037)	(0.27)
Generation - Slate BESS	-	$ 804,000	-	$ (707,950)	-	$ 96,050	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	193,570,291						
Total Loss Adjusted kWh	489,446,425	$ 53,493,928	10.93	$ (20,593,467)	(4.21)	$ 32,900,461	6.72

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	489,446,425	$ 38,014,147	7.77			$ 38,014,147	7.77
Base Resource, incl WWD BOR	111,037,533	$ 5,346,488	4.82	$ (11,221,761)	(10.11)	$ (5,875,273)	(5.29)
Renewables	137,949,980	$ 5,908,104	4.28	$ (4,865,908)	(3.53)	$ 1,042,196	0.76
Lodi Energy Center	46,888,620	$ 4,454,691	9.50	$ (3,797,848)	(8.10)	$ 656,843	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 2,946,629				$ 2,946,629	
Resource Subtotal	295,876,134	$ 18,655,913	6.31	$ (19,885,517)	(6.72)	$ (1,229,604)	(0.42)
Net Portfolio	489,446,425					$ 36,784,543	7.52

Percent of Load Covered *60%*

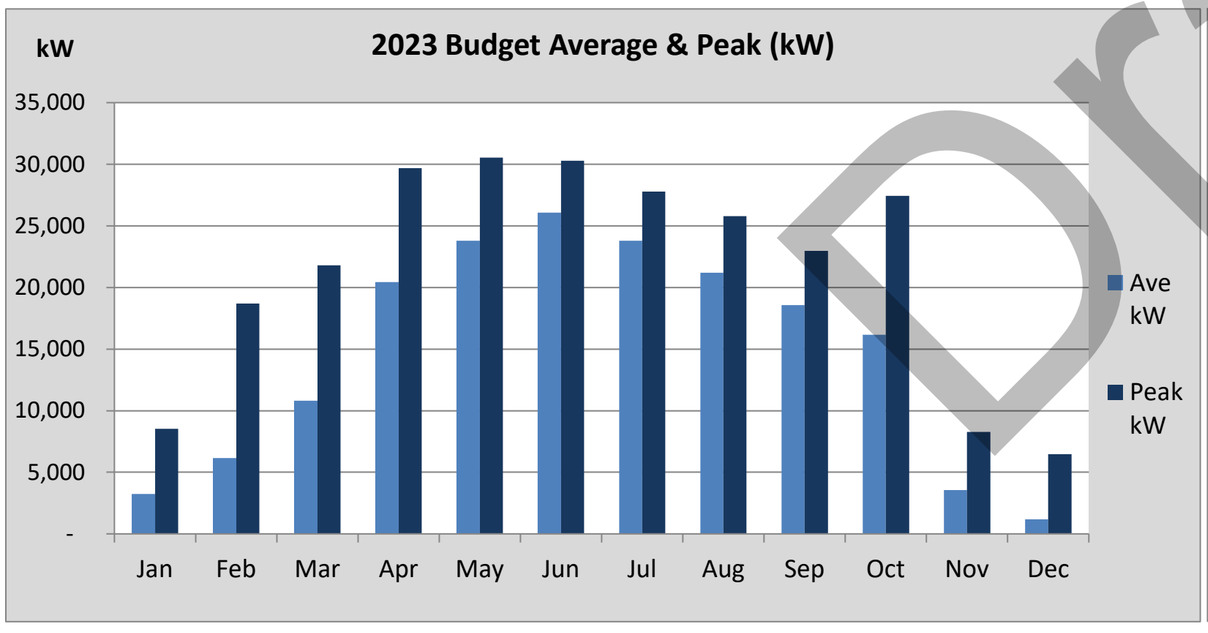


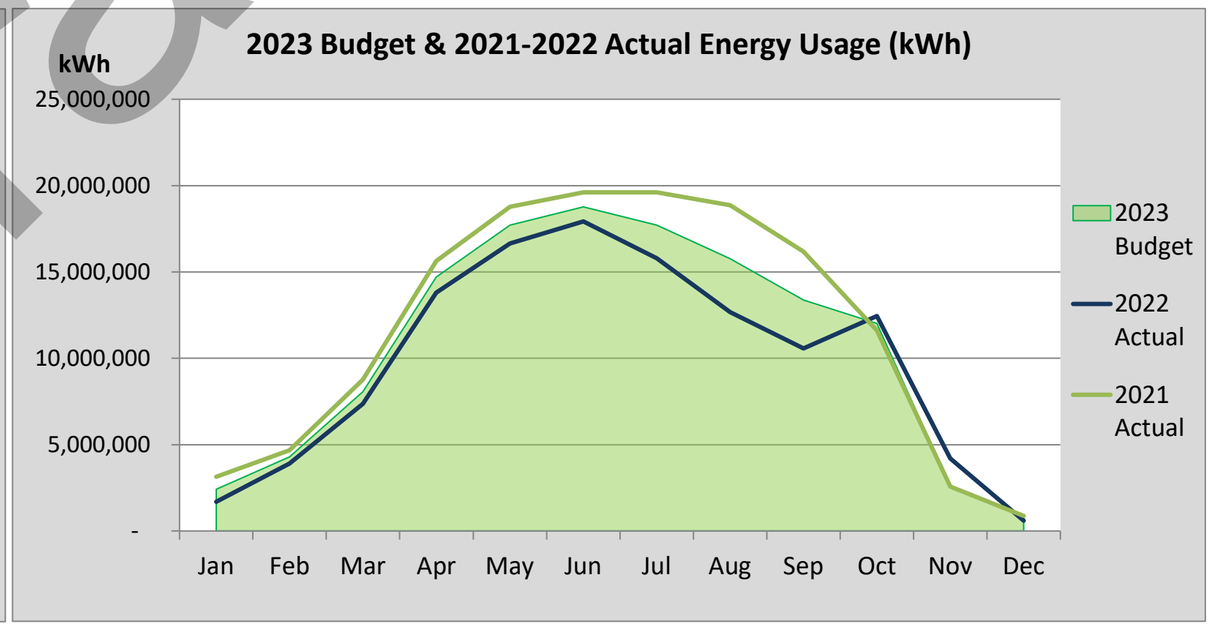
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Arvin-Edison — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	8,536	3,239	2,409,772	7,249	2,270	1,689,069	15,979	4,208	3,130,475	18%	43%	43%
Feb	18,701	6,154	4,283,154	13,057	5,594	3,893,393	23,218	6,714	4,672,915	43%	10%	10%
Mar	21,788	10,822	8,051,638	22,352	9,881	7,351,691	29,592	11,779	8,751,585	-3%	10%	10%
Apr	29,679	20,432	14,711,394	30,828	19,161	13,796,269	36,520	21,703	15,626,519	-4%	7%	7%
May	30,553	23,804	17,710,122	32,020	22,385	16,654,130	37,968	25,223	18,766,113	-5%	6%	6%
Jun	30,293	26,064	18,766,381	32,509	24,895	17,924,690	36,987	27,233	19,608,073	-7%	5%	5%
Jul	27,775	23,791	17,700,789	27,156	21,235	15,798,529	36,162	26,348	19,603,048	2%	12%	12%
Aug	25,797	21,183	15,760,389	30,826	17,020	12,663,177	36,094	25,346	18,857,601	-16%	24%	24%
Sep	22,981	18,580	13,377,541	23,461	14,694	10,579,915	32,863	22,466	16,175,167	-2%	26%	26%
Oct	27,444	16,162	12,024,856	29,305	16,731	12,447,914	31,056	15,594	11,601,797	-6%	-3%	-3%
Nov	8,272	3,567	2,567,931	17,360	5,822	4,191,543	15,764	3,565	2,570,616	-52%	-39%	-39%
Dec	6,463	1,174	873,545	4,418	803	597,171	14,122	1,174	873,545	46%	46%	46%
2023			128,237,511			117,587,491			140,237,455			9%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

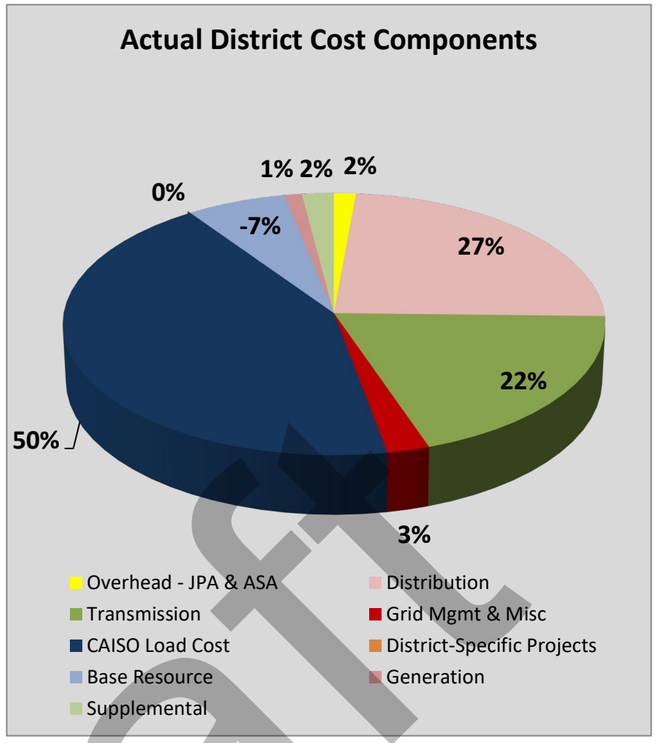
Table 1. District Cost Components

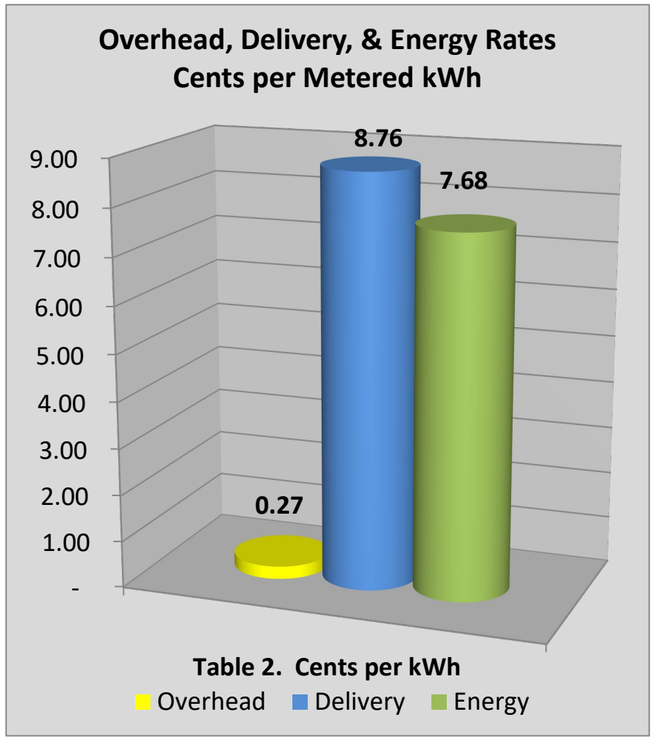
	2023 Budget	2022 Actual	Compare
Total Metered kWh	128,237,511	117,587,491	9%
Overhead - JPA & ASA	$ 349,874	$ 315,808	11%
Distribution	$ 5,889,033	$ 4,094,277	44%
Transmission	$ 4,764,764	$ 4,176,498	14%
Grid Mgmt & Misc	$ 577,069	$ 503,939	15%
CAISO Load Cost	$ 10,649,215	$ 9,450,997	13%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (1,585,355)	$ (221,839)	615%
Generation	$ 275,379	$ 271,997	1%
Supplemental	$ 506,101	$ 271,675	86%
Total Costs	$ 21,426,079	$ 18,863,352	14%

4% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	128,237,511	117,587,491	9%
Overhead	0.27	0.27	2%
Delivery	8.76	7.46	17%
Energy	7.68	8.31	-8%
Total Costs	16.71	16.04	4%





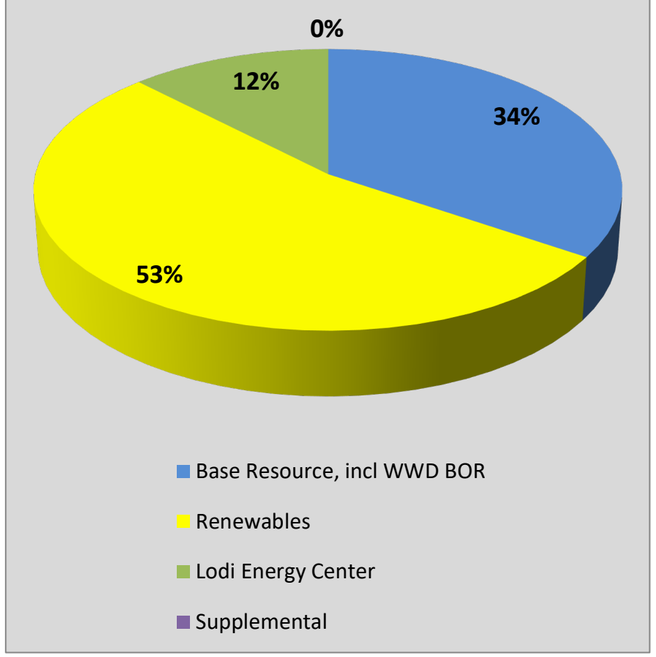
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	132,982,944	$ 10,649,215	8.01		-	$ 10,649,215	8.01
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	31,056,666	$ 1,522,452	4.90	$ (3,130,545)	(10.08)	$ (1,608,093)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	11,092,844	$ 855,826	7.72	$ (898,489)	(8.10)	$ (42,663)	(0.38)
Generation - Astoria	11,582,720	$ 729,711	6.30	$ (501,875)	(4.33)	$ 227,836	1.97
Generation - Whitney	10,109,517	$ 593,934	5.88	$ (418,497)	(4.14)	$ 175,437	1.74
Generation - Slate PV	26,306,699	$ 705,283	2.68	$ (776,281)	(2.95)	$ (70,998)	(0.27)
Generation - Slate BESS	-	$ 80,400	-	$ (245,141)	-	$ (164,741)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	42,834,498						
Total Loss Adjusted kWh	132,982,944	$ 15,136,821	11.38	$ (5,970,829)	(4.49)	$ 9,165,992	6.89

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	132,982,944	$ 10,649,215	8.01			$ 10,649,215	8.01
Base Resource, incl WWD BOR	31,056,666	$ 1,545,190	4.98	$ (3,130,545)	(10.08)	$ (1,585,355)	(5.10)
Renewables	47,998,936	$ 2,058,752	4.29	$ (1,696,653)	(3.53)	$ 362,099	0.75
Lodi Energy Center	11,092,844	$ 1,053,893	9.50	$ (898,489)	(8.10)	$ 155,404	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 428,719				$ 428,719	
Resource Subtotal	90,148,446	$ 5,086,554	5.64	$ (5,725,688)	(6.35)	$ (639,134)	(0.71)
Net Portfolio	132,982,944					$ 10,010,081	7.53
Percent of Load Covered	*68%*						



Draft

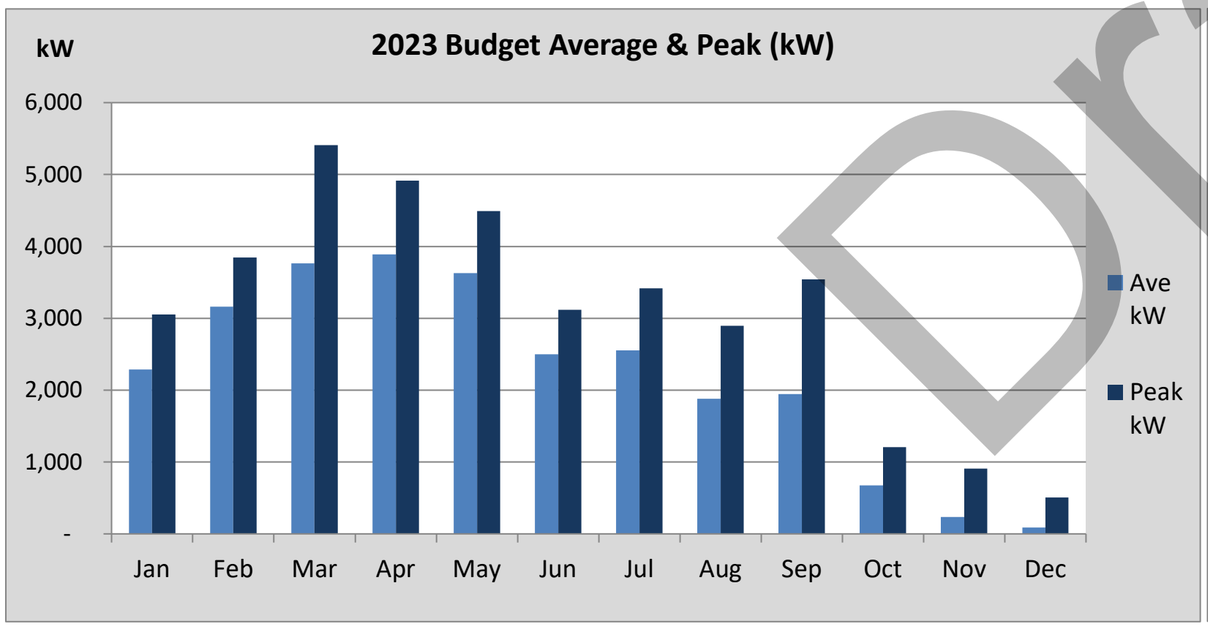
Power and Water Resources Pooling Authority

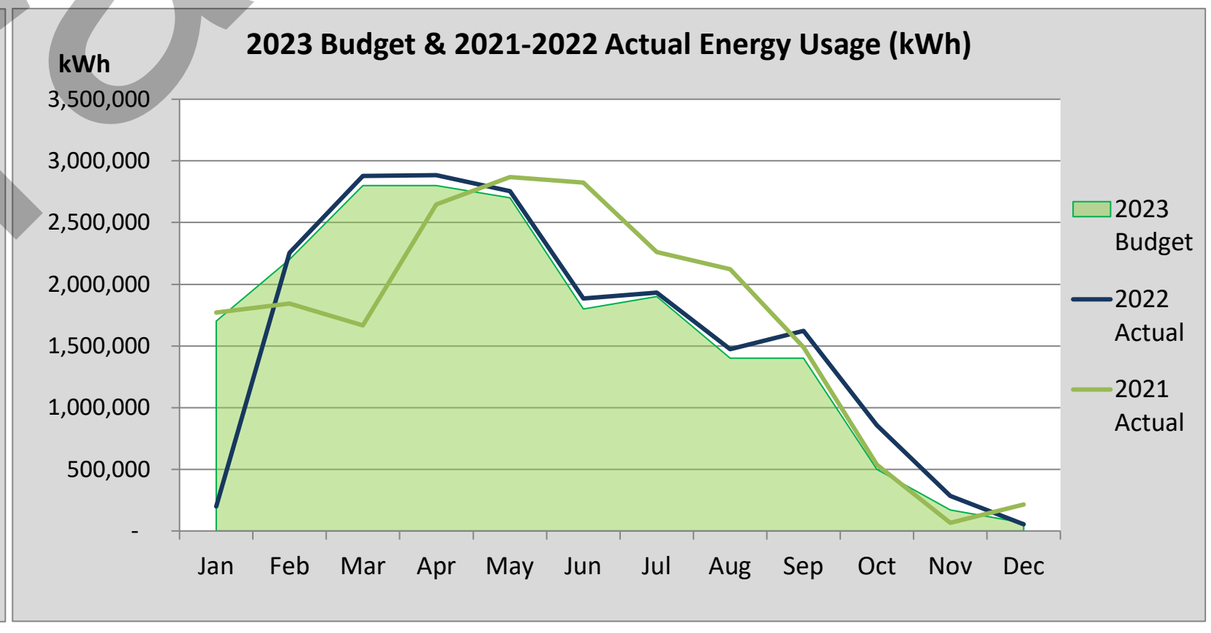
Energy Summary, Metered kWh

Banta-Carbona

2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	3,055	2,285	1,700,000	2,519	268	199,741	3,228	2,378	1,769,350	21%	751%	751%
Feb	3,844	3,161	2,200,000	4,328	3,238	2,253,688	3,222	2,648	1,842,786	-11%	-2%	-2%
Mar	5,408	3,763	2,800,000	4,665	3,869	2,878,634	3,250	2,242	1,665,852	16%	-3%	-3%
Apr	4,915	3,889	2,800,000	4,930	4,006	2,884,326	4,764	3,675	2,645,671	0%	-3%	-3%
May	4,493	3,629	2,700,000	4,744	3,703	2,754,942	4,846	3,856	2,868,993	-5%	-2%	-2%
Jun	3,119	2,500	1,800,000	3,408	2,617	1,884,119	4,897	3,925	2,825,682	-8%	-4%	-4%
Jul	3,417	2,554	1,900,000	3,129	2,598	1,932,571	4,080	3,040	2,261,557	9%	-2%	-2%
Aug	2,894	1,882	1,400,000	2,662	1,980	1,473,166	4,393	2,854	2,123,030	9%	-5%	-5%
Sep	3,544	1,944	1,400,000	3,466	2,255	1,623,493	3,784	2,067	1,488,099	2%	-14%	-14%
Oct	1,209	672	500,000	1,858	1,153	858,037	1,301	723	537,777	-35%	-42%	-42%
Nov	910	236	170,000	1,913	393	282,672	358	91	65,895	-52%	-40%	-40%
Dec	505	87	65,000	505	87	54,058	1,676	289	215,136	0%	0%	20%
2023			19,435,000			19,079,447			20,309,827			2%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

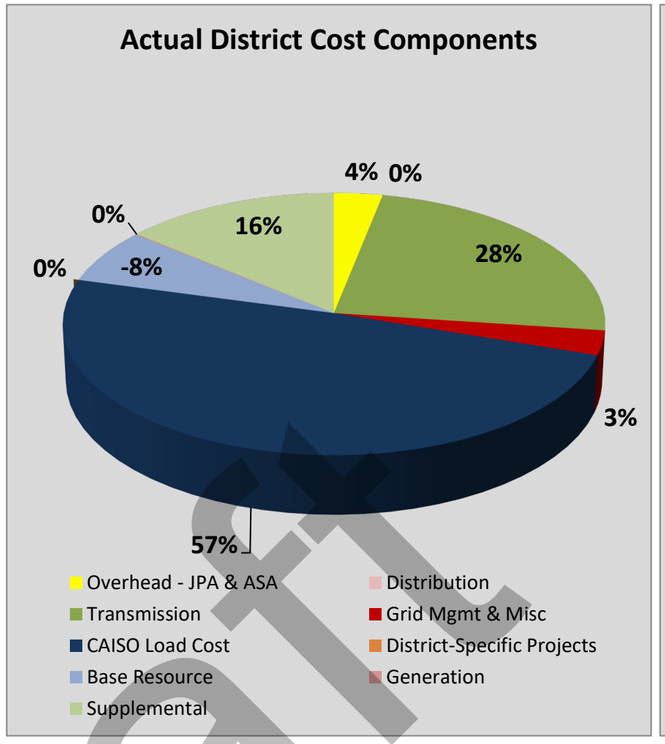
Table 1. District Cost Components

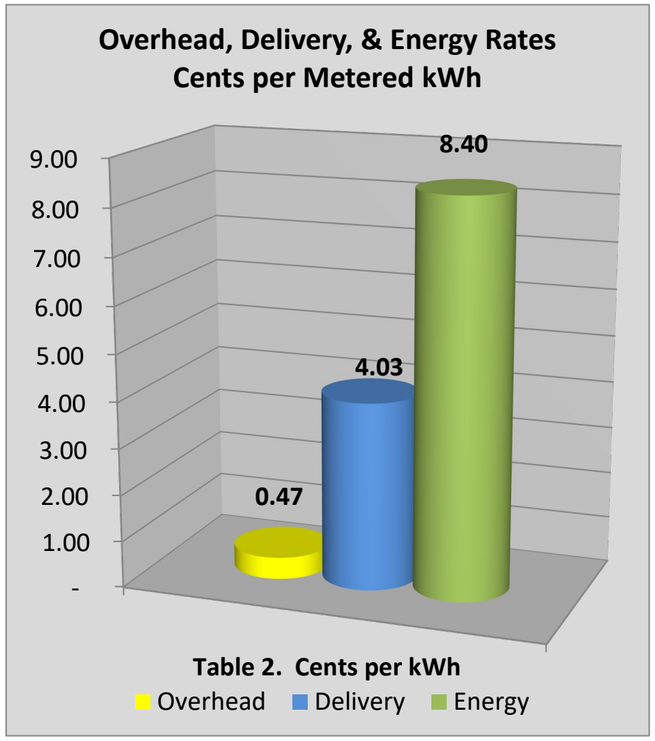
	2023 Budget	2022 Actual	Compare
Total Metered kWh	19,435,000	19,079,447	2%
Overhead - JPA & ASA	$ 91,203	$ 73,609	24%
Distribution	$ -	$ -	0%
Transmission	$ 696,354	$ 657,550	6%
Grid Mgmt & Misc	$ 87,458	$ 75,349	16%
CAISO Load Cost	$ 1,426,166	$ 1,354,829	5%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (195,527)	$ (26,744)	631%
Generation	$ (3,268)	$ 7,986	-141%
Supplemental	$ 405,840	$ (5,714)	-7203%
Total Costs	$ 2,508,225	$ 2,136,865	17%

0% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	19,435,000	19,079,447	2%
Overhead	0.47	0.39	22%
Delivery	4.03	3.84	5%
Energy	8.40	6.97	21%
Total Costs	12.91	11.20	15%





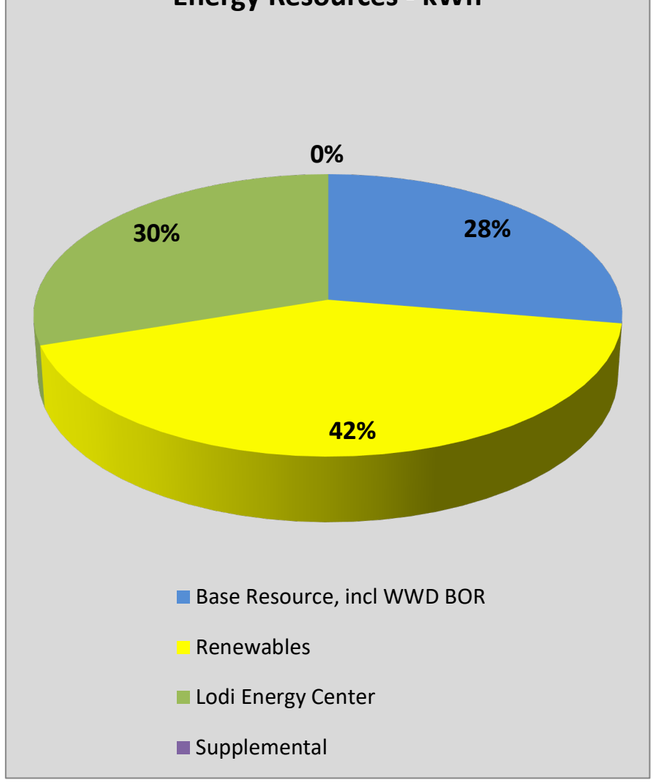
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	19,435,000	$ 1,426,166	7.34		-	$ 1,426,166	7.34
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	3,830,313	$ 187,769	4.90	$ (386,100)	(10.08)	$ (198,331)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	4,171,778	$ 321,858	7.72	$ (337,902)	(8.10)	$ (16,045)	(0.38)
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	5,843,400	$ 156,662	2.68	$ (172,432)	(2.95)	$ (15,771)	(0.27)
Generation - Slate BESS	-	$ 160,800	-	$ (54,452)	-	$ 106,348	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	5,589,508						
Total Loss Adjusted kWh	19,435,000	$ 2,253,254	11.59	$ (950,886)	(4.89)	$ 1,302,368	6.70

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	19,435,000	$ 1,426,166	7.34			$ 1,426,166	7.34
Base Resource, incl WWD BOR	3,830,313	$ 190,573	4.98	$ (386,100)	(10.08)	$ (195,527)	(5.10)
Renewables	5,843,400	$ 159,137	2.72	$ (172,432)	(2.95)	$ (13,295)	(0.23)
Lodi Energy Center	4,171,778	$ 396,346	9.50	$ (337,902)	(8.10)	$ 58,444	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 251,075				$ 251,075	
Resource Subtotal	13,845,492	$ 997,131	7.20	$ (896,434)	(6.47)	$ 100,697	0.73
Net Portfolio	19,435,000					$ 1,526,864	7.86
Percent of Load Covered	*71%*						

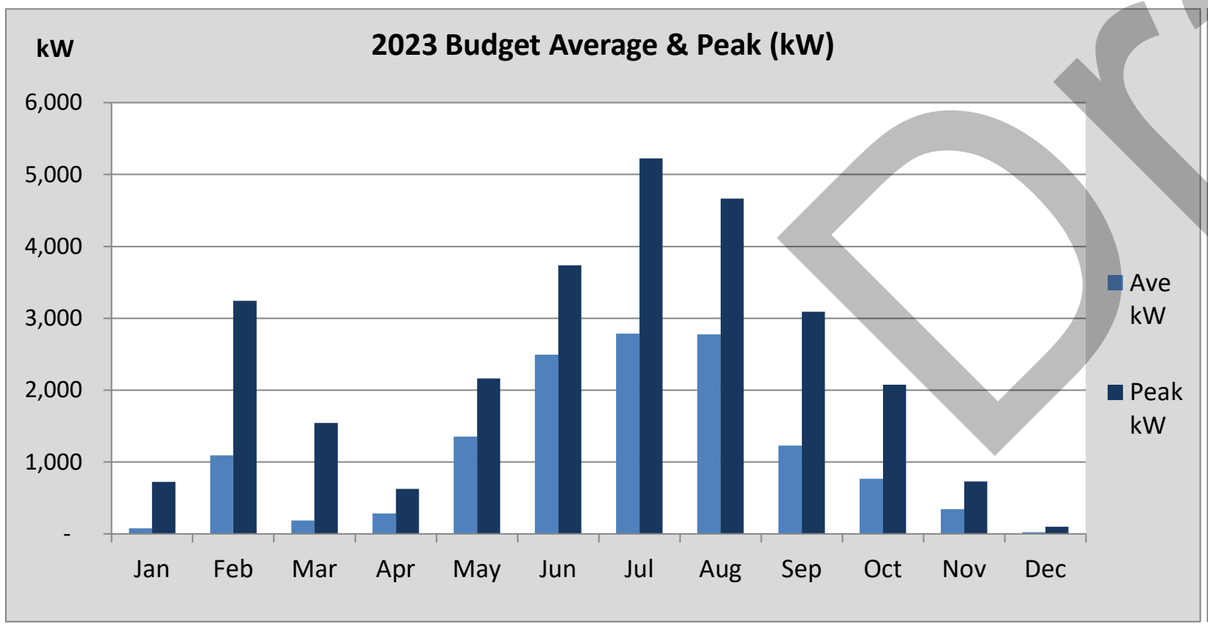


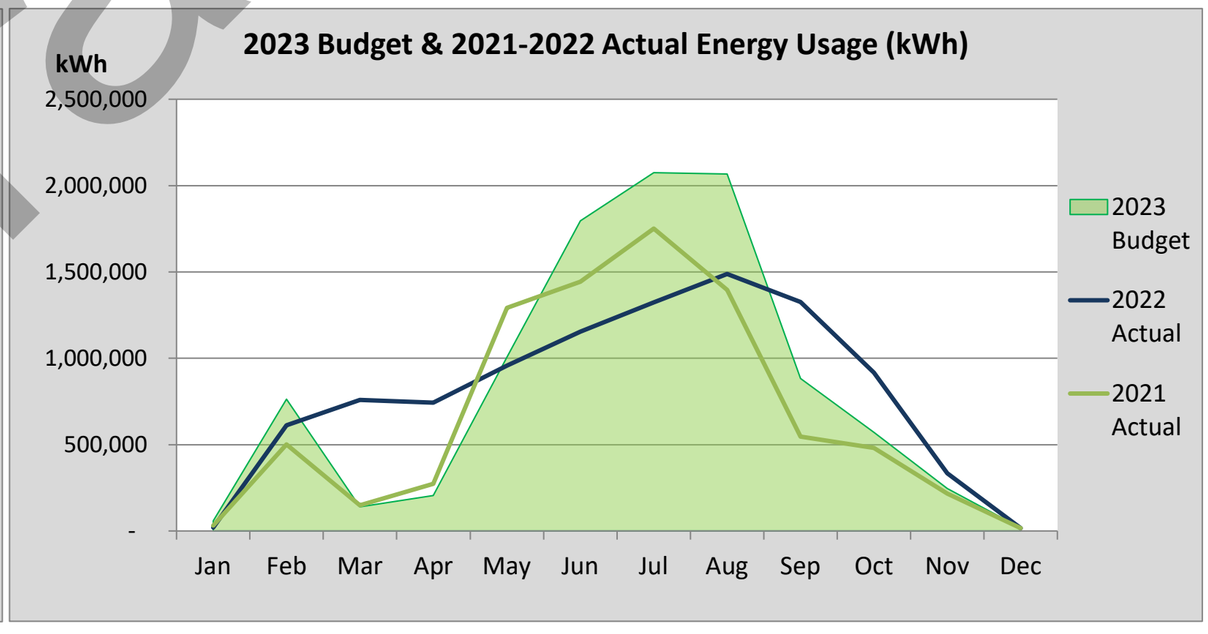
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Cawelo — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	724	78	58,277	89	25	18,766	406	43	32,138	718%	211%	211%
Feb	3,243	1,095	762,307	1,655	878	611,430	2,145	719	500,189	96%	25%	25%
Mar	1,543	187	138,908	1,553	1,021	759,461	1,753	201	149,569	-1%	-82%	-82%
Apr	626	284	204,733	2,317	1,030	741,874	928	378	271,852	-73%	-72%	-72%
May	2,160	1,354	1,007,232	1,966	1,287	957,198	3,349	1,737	1,292,172	10%	5%	5%
Jun	3,738	2,494	1,795,538	2,200	1,604	1,154,541	3,554	2,004	1,442,843	70%	56%	56%
Jul	5,225	2,789	2,074,695	3,473	1,779	1,323,898	4,821	2,353	1,750,999	50%	57%	57%
Aug	4,663	2,778	2,066,836	2,426	2,000	1,488,105	3,235	1,877	1,396,190	92%	39%	39%
Sep	3,090	1,226	882,700	2,422	1,842	1,326,074	2,687	758	545,890	28%	-33%	-33%
Oct	2,073	768	571,484	2,760	1,233	917,250	1,979	646	480,410	-25%	-38%	-38%
Nov	728	342	246,394	1,504	464	334,121	1,273	299	215,396	-52%	-26%	-26%
Dec	100	24	18,153	3,780	215	16,407	165	22	16,407	-97%	-89%	11%
2023			9,827,257			9,649,125			8,094,054			2%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

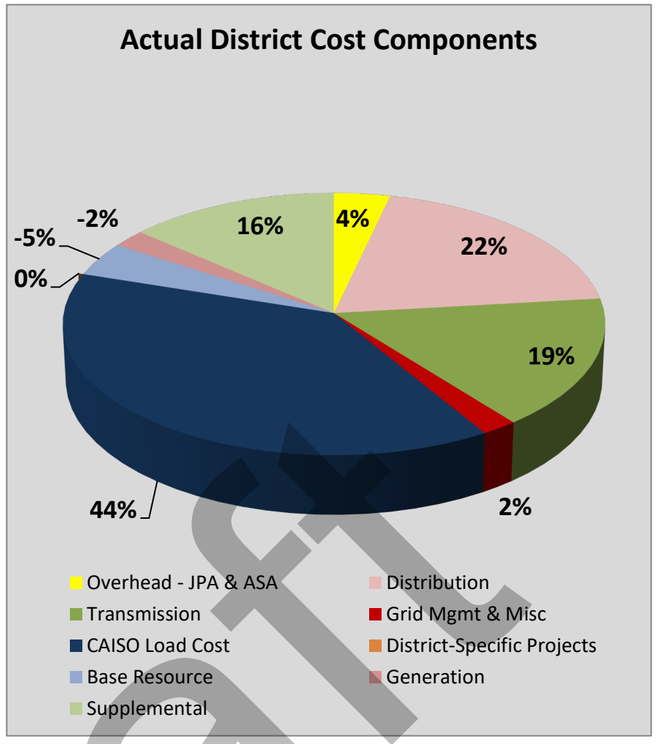
Table 1. District Cost Components

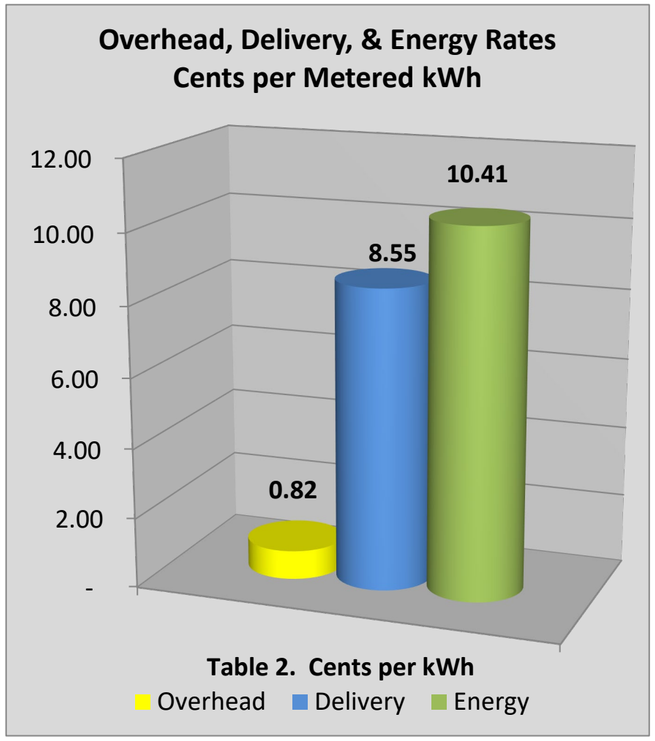
	2023 Budget	2022 Actual	Compare
Total Metered kWh	9,827,257	9,649,125	2%
Overhead - JPA & ASA	$ 80,877	$ 71,982	12%
Distribution	$ 436,143	$ 453,505	-4%
Transmission	$ 359,924	$ 337,461	7%
Grid Mgmt & Misc	$ 44,223	$ 45,034	-2%
CAISO Load Cost	$ 861,230	$ 808,776	6%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (93,898)	$ (13,084)	618%
Generation	$ (48,528)	$ (66,494)	-27%
Supplemental	$ 304,020	$ 2,503	12044%
Total Costs	$ 1,943,990	$ 1,639,683	19%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	9,827,257	9,649,125	2%
Overhead	0.82	0.75	10%
Delivery	8.55	8.66	-1%
Energy	10.41	7.58	37%
Total Costs	19.78	16.99	16%





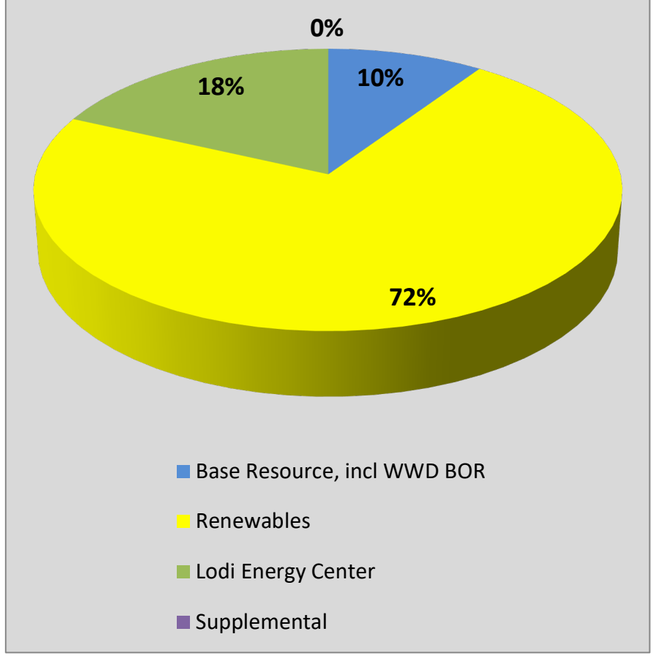
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	10,045,345	$ 861,230	8.57		-	$ 861,230	8.57
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	1,839,433	$ 90,172	4.90	$ (185,417)	(10.08)	$ (95,245)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	3,511,053	$ 270,882	7.72	$ (284,386)	(8.10)	$ (13,504)	(0.38)
Generation - Astoria	1,809,235	$ 113,982	6.30	$ (78,393)	(4.33)	$ 35,588	1.97
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	12,127,525	$ 325,139	2.68	$ (357,869)	(2.95)	$ (32,731)	(0.27)
Generation - Slate BESS	-	$ 152,760	-	$ (113,011)	-	$ 39,749	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	(9,241,902)						
Total Loss Adjusted kWh	10,045,345	$ 1,814,165	18.06	$ (1,019,077)	(10.14)	$ 795,088	7.91

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	10,045,345	$ 861,230	8.57			$ 861,230	8.57
Base Resource, incl WWD BOR	1,839,433	$ 91,519	4.98	$ (185,417)	(10.08)	$ (93,898)	(5.10)
Renewables	13,936,760	$ 445,825	3.20	$ (436,263)	(3.13)	$ 9,562	0.07
Lodi Energy Center	3,511,053	$ 333,573	9.50	$ (284,386)	(8.10)	$ 49,188	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 156,994				$ 156,994	
Resource Subtotal	19,287,246	$ 1,027,911	5.33	$ (906,065)	(4.70)	$ 121,845	0.63
Net Portfolio	10,045,345					$ 983,075	9.79
Percent of Load Covered	*192%*						

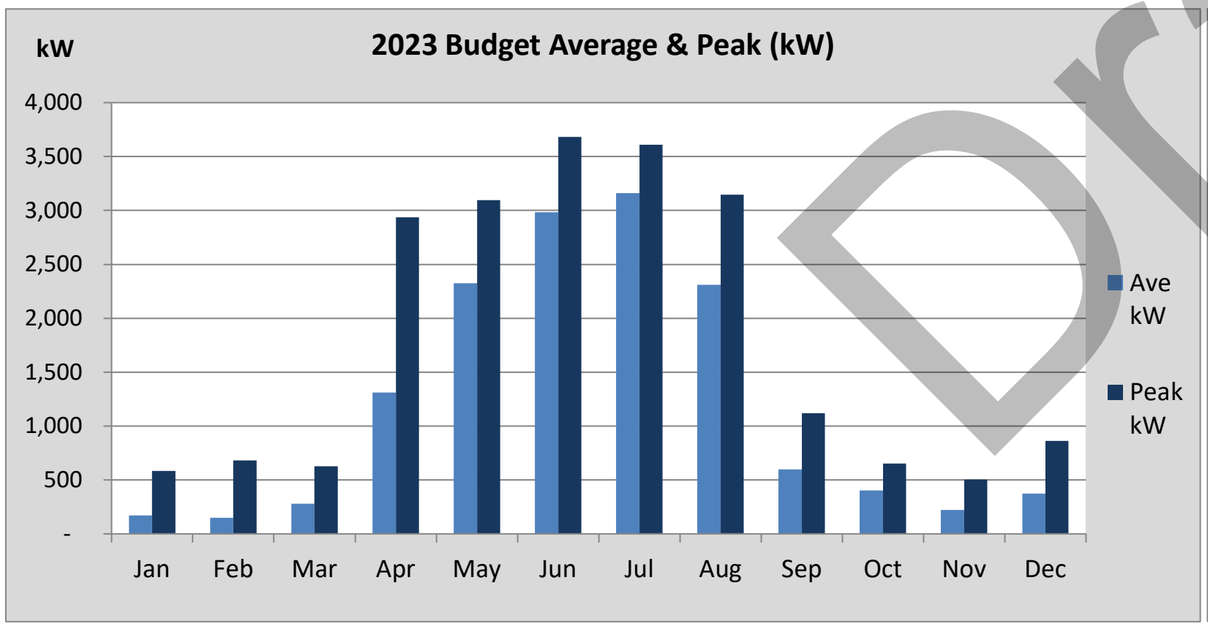


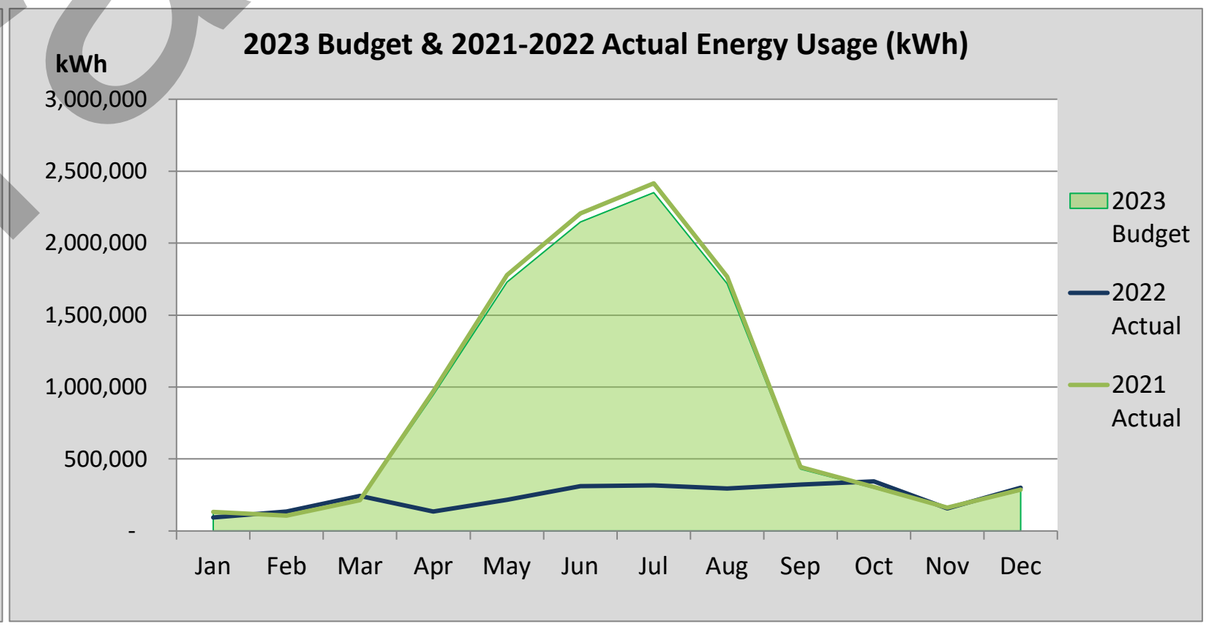
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Glenn-Colusa — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	583	173	128,493	359	126	93,728	614	177	132,017	62%	37%	37%
Feb	683	149	103,608	585	195	135,375	856	153	106,450	17%	-23%	-23%
Mar	627	280	208,009	558	327	243,524	839	288	213,714	12%	-15%	-15%
Apr	2,938	1,312	944,663	291	186	133,955	3,267	1,348	970,573	908%	605%	605%
May	3,095	2,325	1,729,636	420	292	217,570	3,423	2,389	1,777,077	637%	695%	695%
Jun	3,681	2,982	2,147,302	780	433	311,414	4,027	3,064	2,206,199	372%	590%	590%
Jul	3,609	3,160	2,351,132	651	425	315,942	4,046	3,247	2,415,620	455%	644%	644%
Aug	3,145	2,311	1,719,318	591	395	293,997	3,543	2,374	1,766,476	432%	485%	485%
Sep	1,121	599	431,407	701	447	321,525	1,358	616	443,240	60%	34%	34%
Oct	652	401	298,482	677	463	344,548	712	412	306,669	-4%	-13%	-13%
Nov	503	221	159,065	355	217	156,270	608	227	163,487	42%	2%	2%
Dec	862	375	278,885	2,295	513	300,000	1,010	385	286,535	-62%	-27%	-7%
2023			10,500,000			2,867,846			10,788,057			266%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

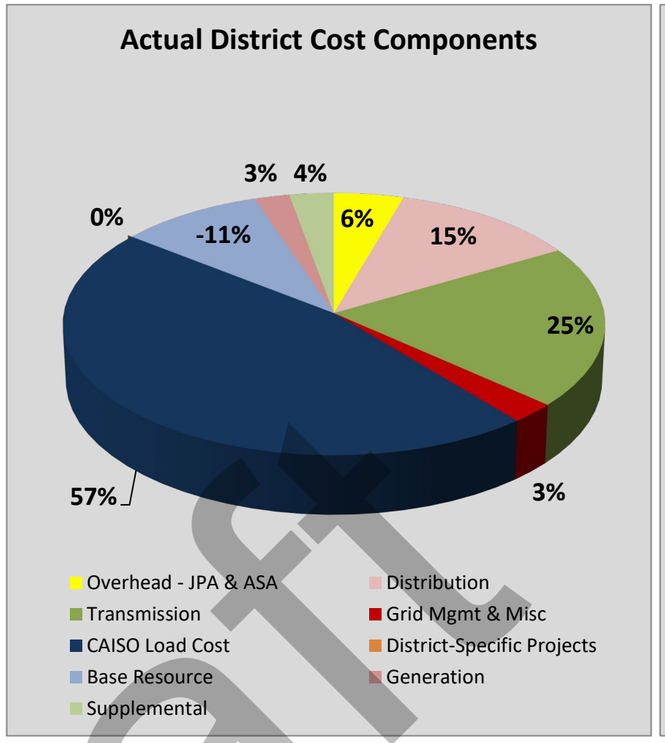
Table 1. District Cost Components

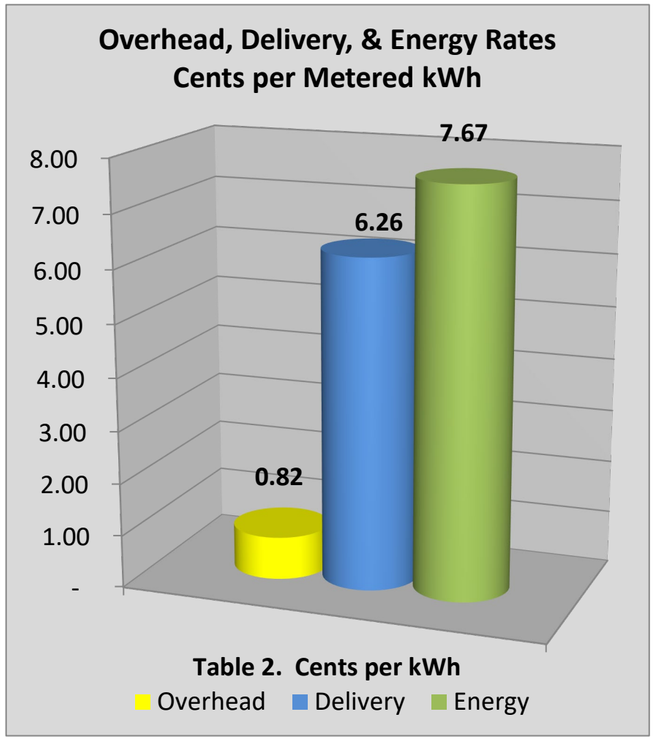
	2023 Budget	2022 Actual	Compare
Total Metered kWh	10,500,000	2,867,846	266%
Overhead - JPA & ASA	$ 85,604	$ 74,945	14%
Distribution	$ 230,666	$ 98,233	135%
Transmission	$ 379,264	$ 104,863	262%
Grid Mgmt & Misc	$ 47,250	$ 13,428	252%
CAISO Load Cost	$ 884,128	$ 235,062	276%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (176,661)	$ (25,925)	581%
Generation	$ 43,045	$ 61,259	-30%
Supplemental	$ 54,405	$ 27,022	101%
Total Costs	$ 1,547,701	$ 588,886	163%

1% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	10,500,000	2,867,846	266%
Overhead	0.82	2.61	-69%
Delivery	6.26	7.55	-17%
Energy	7.67	10.37	-26%
Total Costs	14.74	20.53	-28%





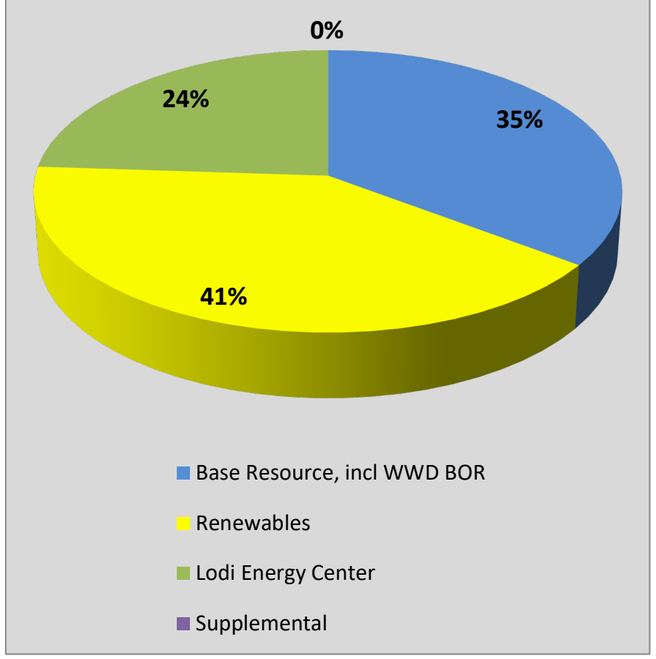
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	10,596,545	$ 884,128	8.34		-	$ 884,128	8.34
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	3,460,749	$ 169,652	4.90	$ (348,847)	(10.08)	$ (179,195)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	2,354,174	$ 181,627	7.72	$ (190,682)	(8.10)	$ (9,054)	(0.38)
Generation - Astoria	957,235	$ 60,306	6.30	$ (41,477)	(4.33)	$ 18,829	1.97
Generation - Whitney	866,448	$ 50,904	5.88	$ (35,868)	(4.14)	$ 15,036	1.74
Generation - Slate PV	2,188,426	$ 58,672	2.68	$ (64,578)	(2.95)	$ (5,906)	(0.27)
Generation - Slate BESS	-	$ -	-	$ (20,393)	-	$ (20,393)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	769,514						
Total Loss Adjusted kWh	10,596,545	$ 1,405,288	13.26	$ (701,844)	(6.62)	$ 703,444	6.64

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	10,596,545	$ 884,128	8.34			$ 884,128	8.34
Base Resource, incl WWD BOR	3,460,749	$ 172,186	4.98	$ (348,847)	(10.08)	$ (176,661)	(5.10)
Renewables	4,012,109	$ 172,380	4.30	$ (141,922)	(3.54)	$ 30,458	0.76
Lodi Energy Center	2,354,174	$ 223,662	9.50	$ (190,682)	(8.10)	$ 32,981	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 54,405				$ 54,405	
Resource Subtotal	9,827,032	$ 622,633	6.34	$ (681,451)	(6.93)	$ (58,818)	(0.60)
Net Portfolio	10,596,545					$ 825,310	7.79
Percent of Load Covered	*93%*						



Draft

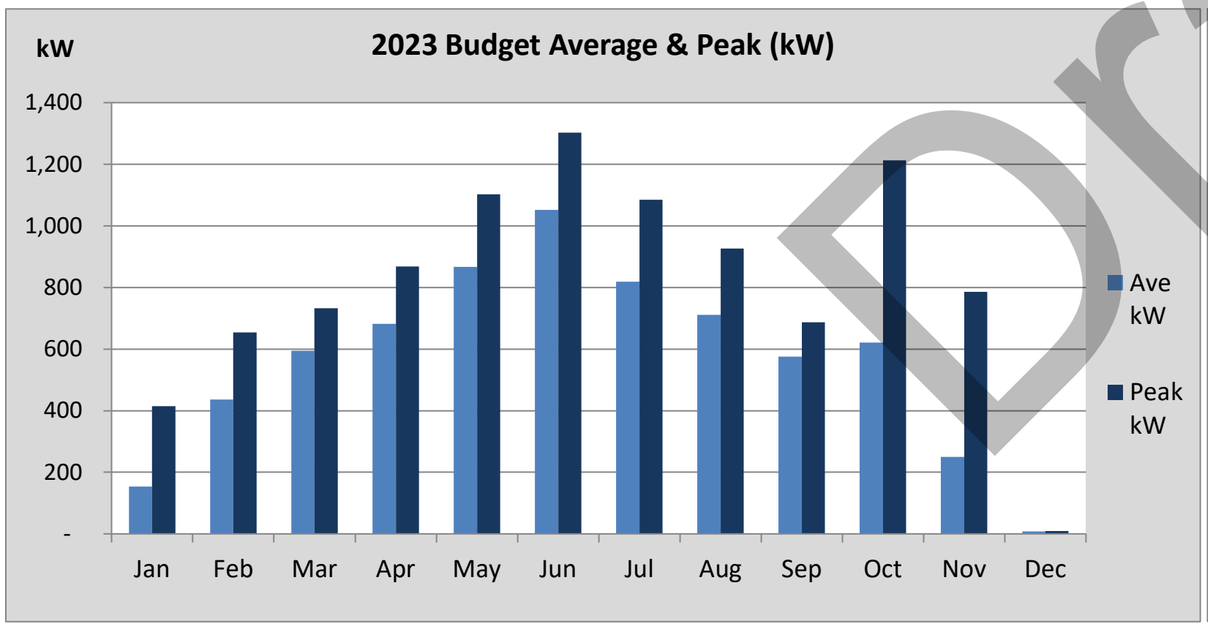
Power and Water Resources Pooling Authority

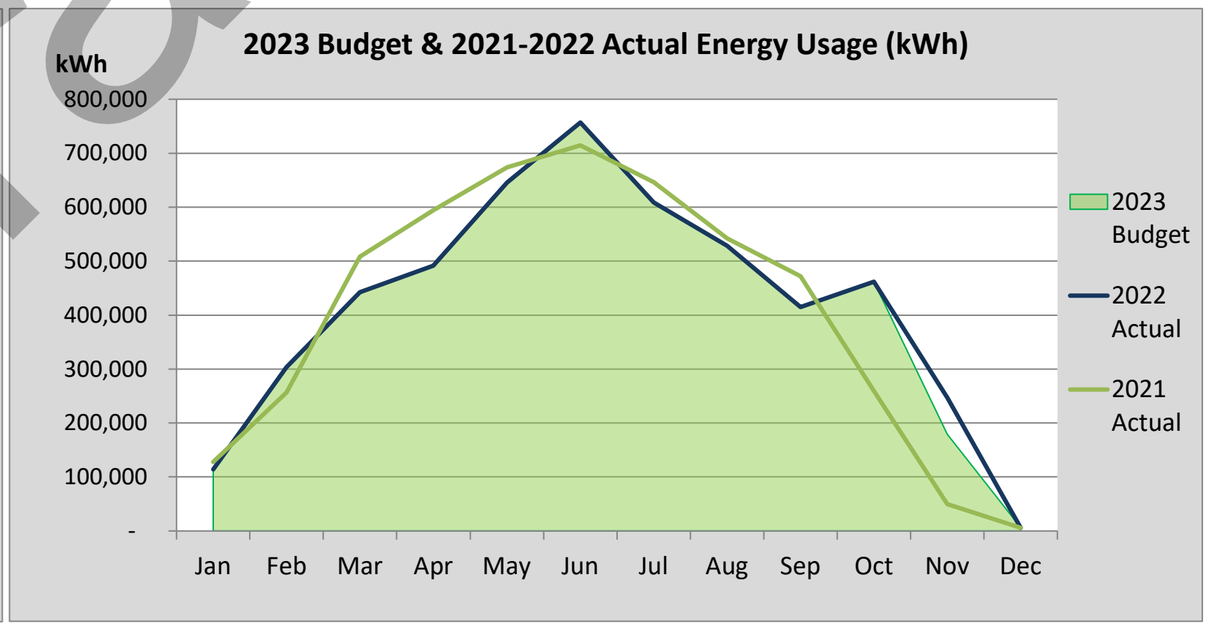
Energy Summary, Metered kWh

James

2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	415	153	114,007	578	153	114,007	559	172	127,637	-28%	0%	0%
Feb	655	437	303,874	678	437	303,874	562	368	256,251	-3%	0%	0%
Mar	732	594	442,249	748	594	442,249	850	684	508,084	-2%	0%	0%
Apr	869	682	491,232	924	682	491,232	1,144	825	593,901	-6%	0%	0%
May	1,102	867	645,284	1,133	867	645,284	1,259	905	673,666	-3%	0%	0%
Jun	1,303	1,051	756,900	1,146	1,051	756,900	1,267	992	714,540	14%	0%	0%
Jul	1,085	818	608,883	1,228	818	608,883	1,236	868	646,047	-12%	0%	0%
Aug	926	710	528,598	938	710	528,598	967	729	542,379	-1%	0%	0%
Sep	687	576	414,660	742	576	414,660	786	656	472,328	-7%	0%	0%
Oct	1,213	621	461,697	659	621	461,697	682	348	259,277	84%	0%	0%
Nov	785	249	179,473	659	343	246,985	221	69	49,853	19%	-27%	-27%
Dec	9	9	6,325	29	8	5,860	9	8	5,860	-68%	7%	8%
2023			4,953,181			5,020,228			4,849,822			-1%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

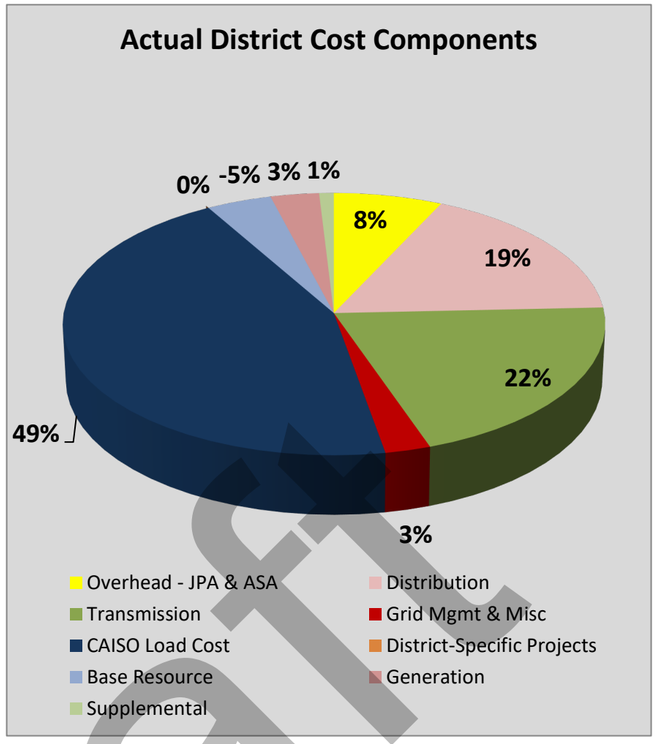
Table 1. District Cost Components

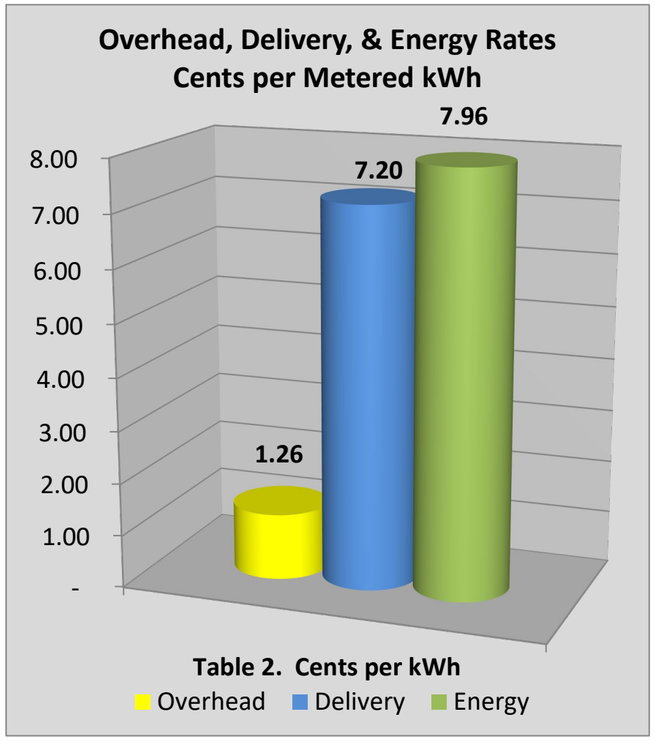
	2023 Budget	2022 Actual	Compare
Total Metered kWh	4,953,181	5,020,228	-1%
Overhead - JPA & ASA	$ 62,413	$ 49,728	26%
Distribution	$ 153,435	$ 115,469	33%
Transmission	$ 180,879	$ 167,197	8%
Grid Mgmt & Misc	$ 22,289	$ 20,145	11%
CAISO Load Cost	$ 395,193	$ 361,341	9%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (37,407)	$ (5,138)	628%
Generation	$ 27,879	$ 47,400	-41%
Supplemental	$ 8,381	$ 660	1170%
Total Costs	$ 813,063	$ 756,801	7%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	4,953,181	5,020,228	-1%
Overhead	1.26	0.99	27%
Delivery	7.20	6.03	19%
Energy	7.96	8.05	-1%
Total Costs	16.41	15.08	9%





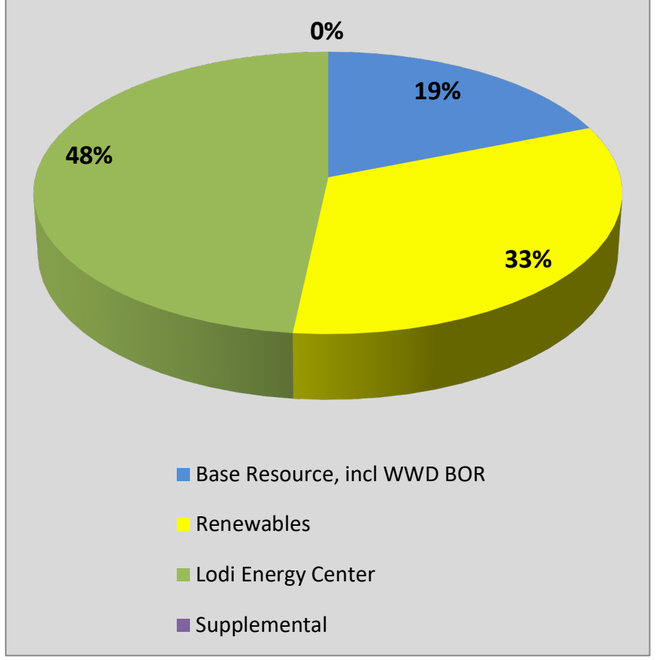
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	5,048,277	$ 395,193	7.83		-	$ 395,193	7.83
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	732,800	$ 35,923	4.90	$ (73,867)	(10.08)	$ (37,944)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	1,861,490	$ 143,616	7.72	$ (150,776)	(8.10)	$ (7,159)	(0.38)
Generation - Astoria	243,394	$ 15,334	6.30	$ (10,546)	(4.33)	$ 4,788	1.97
Generation - Whitney	288,816	$ 16,968	5.88	$ (11,956)	(4.14)	$ 5,012	1.74
Generation - Slate PV	729,475	$ 19,557	2.68	$ (21,526)	(2.95)	$ (1,969)	(0.27)
Generation - Slate BESS	-	$ -	-	$ (6,798)	-	$ (6,798)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	1,192,302						
Total Loss Adjusted kWh	5,048,277	$ 626,591	12.41	$ (275,468)	(5.46)	$ 351,123	6.96

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	5,048,277	$ 395,193	7.83			$ 395,193	7.83
Base Resource, incl WWD BOR	732,800	$ 36,460	4.98	$ (73,867)	(10.08)	$ (37,407)	(5.10)
Renewables	1,261,685	$ 52,626	4.17	$ (44,028)	(3.49)	$ 8,598	0.68
Lodi Energy Center	1,861,490	$ 176,854	9.50	$ (150,776)	(8.10)	$ 26,078	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 8,381				$ 8,381	
Resource Subtotal	3,855,976	$ 274,321	7.11	$ (268,671)	(6.97)	$ 5,650	0.15
Net Portfolio	5,048,277					$ 400,843	7.94
Percent of Load Covered	*76%*						

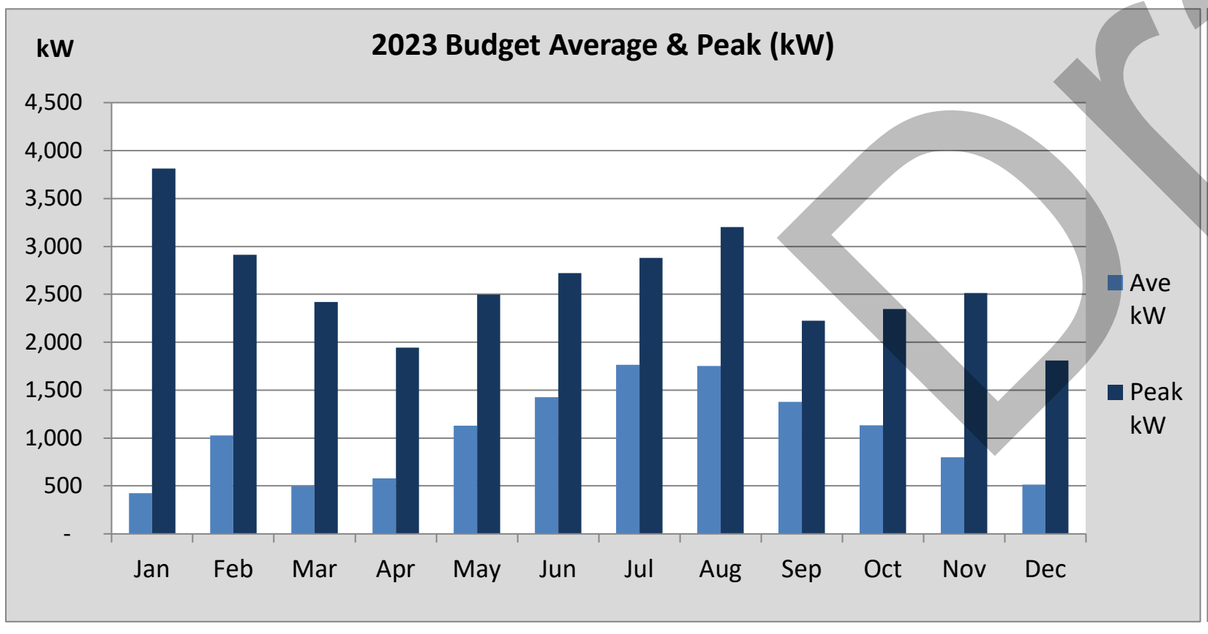


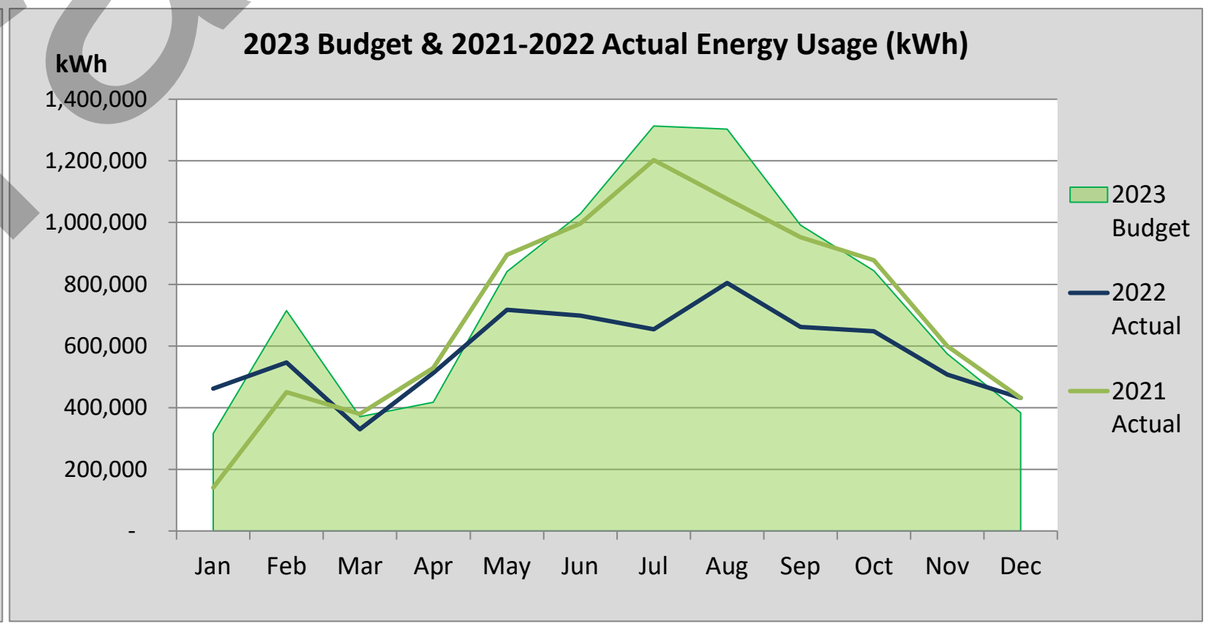
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Lower Tule — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	3,812	425	315,964	2,104	621	461,914	1,696	189	140,360	81%	-32%	-32%
Feb	2,913	1,028	715,224	2,595	785	546,506	1,834	646	449,642	12%	31%	31%
Mar	2,420	497	369,871	1,845	443	329,659	2,488	510	379,240	31%	12%	12%
Apr	1,944	580	417,810	2,244	711	511,912	2,464	734	528,817	-13%	-18%	-18%
May	2,498	1,131	841,193	2,014	964	717,099	2,662	1,204	895,487	24%	17%	17%
Jun	2,721	1,428	1,028,194	2,266	970	698,249	2,641	1,385	997,045	20%	47%	47%
Jul	2,878	1,765	1,313,185	2,449	880	654,486	2,639	1,616	1,202,646	18%	101%	101%
Aug	3,204	1,751	1,302,814	2,309	1,081	804,163	2,661	1,446	1,076,139	39%	62%	62%
Sep	2,226	1,377	991,163	1,927	919	661,484	2,144	1,324	953,140	15%	50%	50%
Oct	2,346	1,134	843,803	1,932	870	647,330	2,618	1,180	877,691	21%	30%	30%
Nov	2,513	798	574,332	1,905	704	507,134	2,623	832	599,581	32%	13%	13%
Dec	1,807	515	382,959	2,348	569	430,584	2,033	579	430,584	-23%	-10%	-11%
2023			9,096,512			6,970,522			8,530,372			30%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

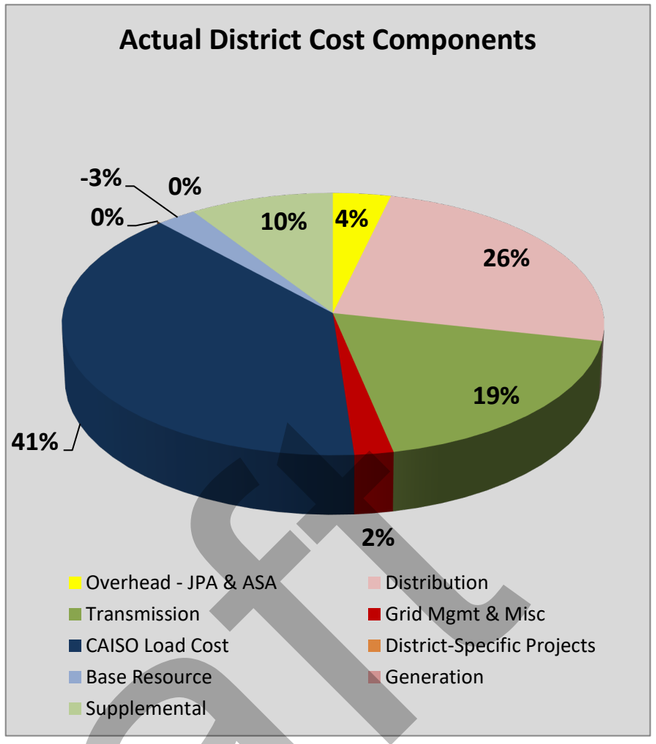
Table 1. District Cost Components

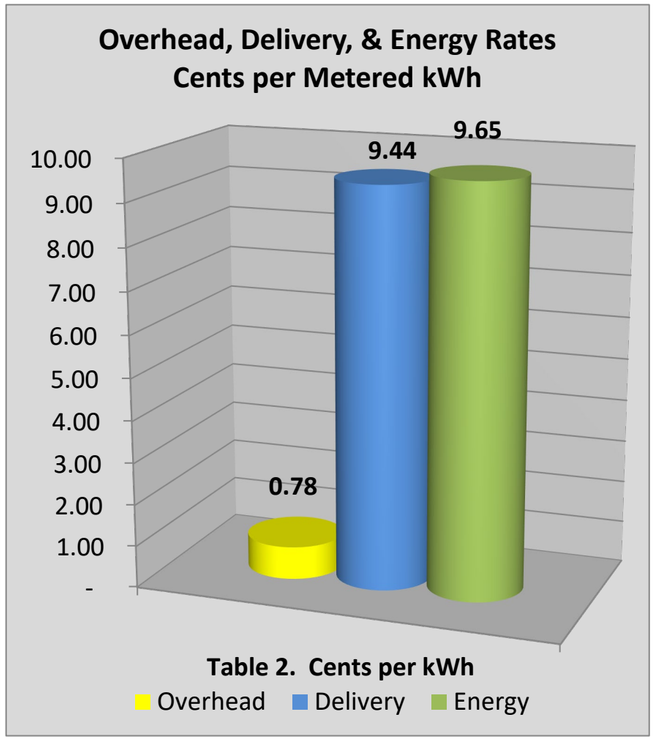
	2023 Budget	2022 Actual	Compare
Total Metered kWh	9,096,512	6,970,522	30%
Overhead - JPA & ASA	$ 71,197	$ 60,191	18%
Distribution	$ 469,366	$ 369,732	27%
Transmission	$ 348,609	$ 257,145	36%
Grid Mgmt & Misc	$ 40,934	$ 33,638	22%
CAISO Load Cost	$ 748,654	$ 579,665	29%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (48,301)	$ (6,648)	627%
Generation	$ -	$ -	0%
Supplemental	$ 177,430	$ 48,767	264%
Total Costs	$ 1,807,889	$ 1,342,491	35%

7% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	9,096,512	6,970,522	30%
Overhead	0.78	0.86	-9%
Delivery	9.44	9.48	0%
Energy	9.65	8.92	8%
Total Costs	19.87	19.26	3%





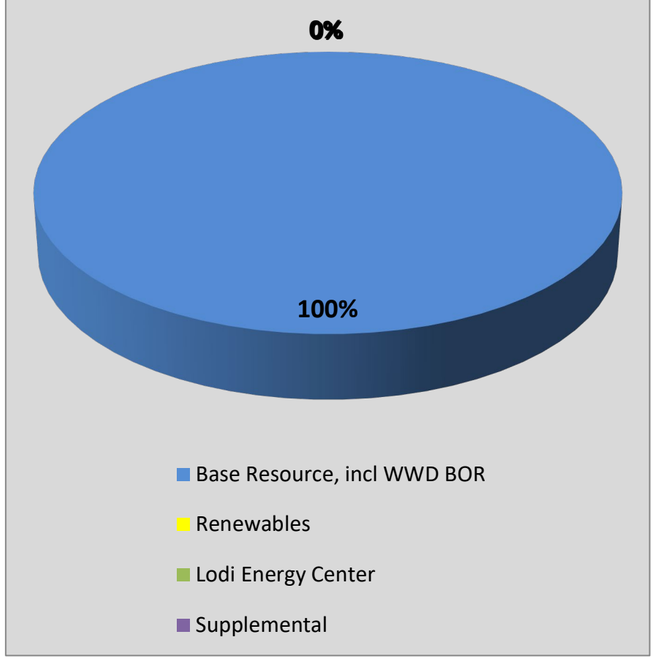
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	9,729,565	$ 748,654	7.69		-	$ 748,654	7.69
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	946,209	$ 46,385	4.90	$ (95,379)	(10.08)	$ (48,994)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	-	$ -	-	$ -	-	$ -	-
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	-	$ -	-	$ -	-	$ -	-
Generation - Slate BESS	-	$ -	-	$ -	-	$ -	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	8,783,357						
Total Loss Adjusted kWh	9,729,565	$ 795,038	8.17	$ (95,379)	(0.98)	$ 699,660	7.19

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	9,729,565	$ 748,654	7.69			$ 748,654	7.69
Base Resource, incl WWD BOR	946,209	$ 47,078	4.98	$ (95,379)	(10.08)	$ (48,301)	(5.10)
Renewables	-	$ -	-	$ -	-	$ -	-
Lodi Energy Center	-	$ -	-	$ -	-	$ -	-
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 177,430				$ 177,430	
Resource Subtotal	946,209	$ 224,507	23.73	$ (95,379)	(10.08)	$ 129,128	13.65
Net Portfolio	9,729,565					$ 877,782	9.02
Percent of Load Covered	*10%*						

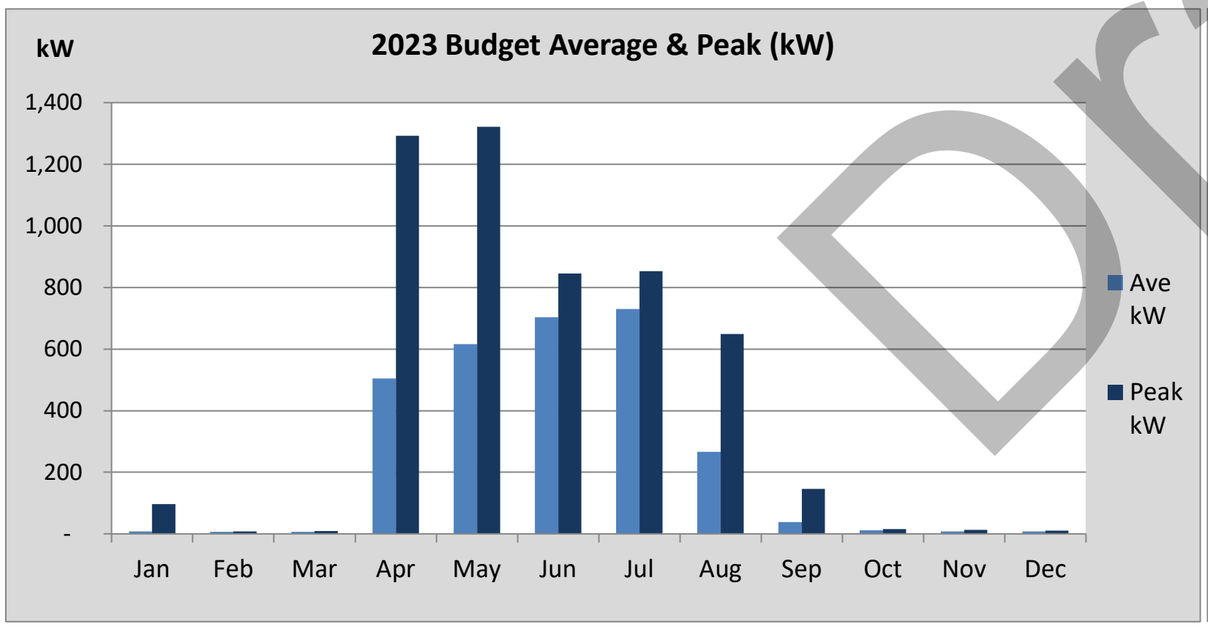


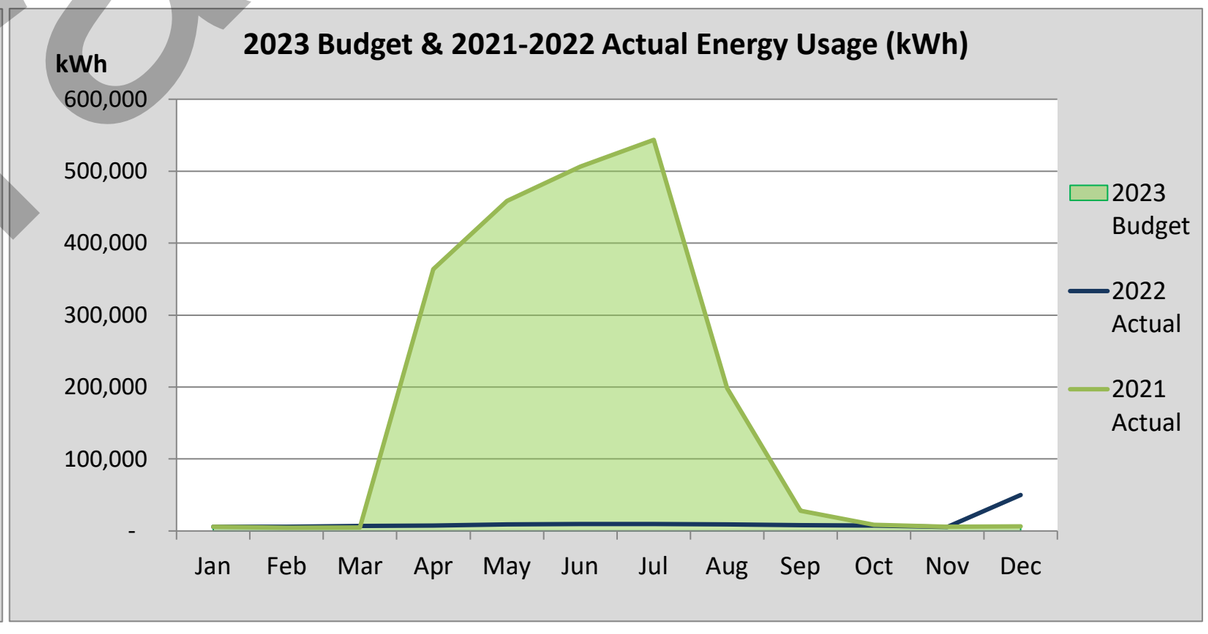
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Princeton — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	96	8	6,024	12	8	5,920	185	8	6,024	721%	2%	2%
Feb	8	6	4,484	12	8	5,763	8	6	4,484	-37%	-22%	-22%
Mar	10	7	4,939	13	10	7,130	10	7	4,940	-25%	-31%	-31%
Apr	1,292	505	363,580	14	10	7,488	1,319	505	363,580	9472%	4755%	4755%
May	1,321	616	458,400	16	12	9,231	1,324	616	458,400	8054%	4866%	4866%
Jun	846	703	506,296	17	13	9,622	882	703	506,296	4874%	5162%	5162%
Jul	853	731	543,547	17	13	9,459	882	731	543,547	5010%	5646%	5646%
Aug	649	267	198,396	16	12	8,872	677	267	198,396	3882%	2136%	2136%
Sep	147	39	28,052	16	11	8,042	173	39	28,052	804%	249%	249%
Oct	15	12	8,734	14	10	7,392	16	12	8,734	13%	18%	18%
Nov	12	8	5,929	9	8	5,539	16	8	5,937	38%	7%	7%
Dec	11	8	6,263	23	9	50,000	12	8	6,263	-53%	-11%	-87%
2023			2,134,646			134,458			2,134,654			1488%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

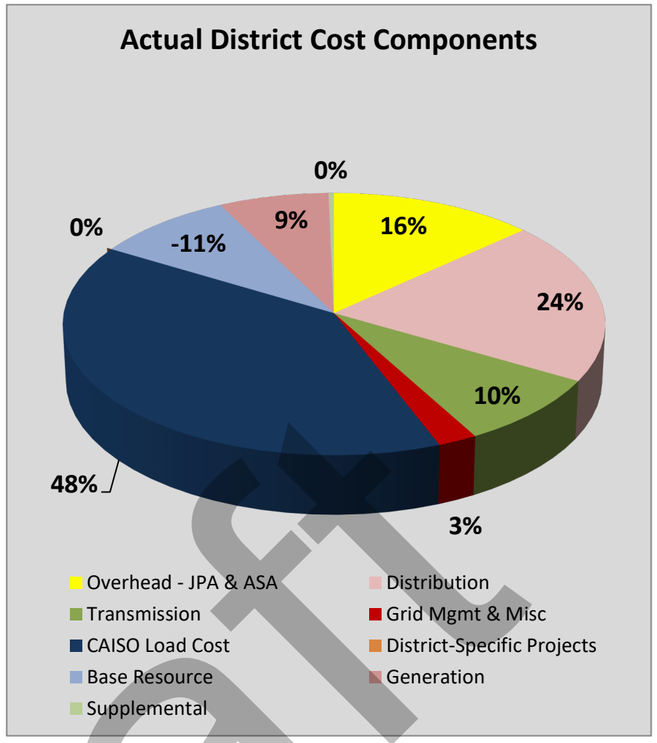
Table 1. District Cost Components

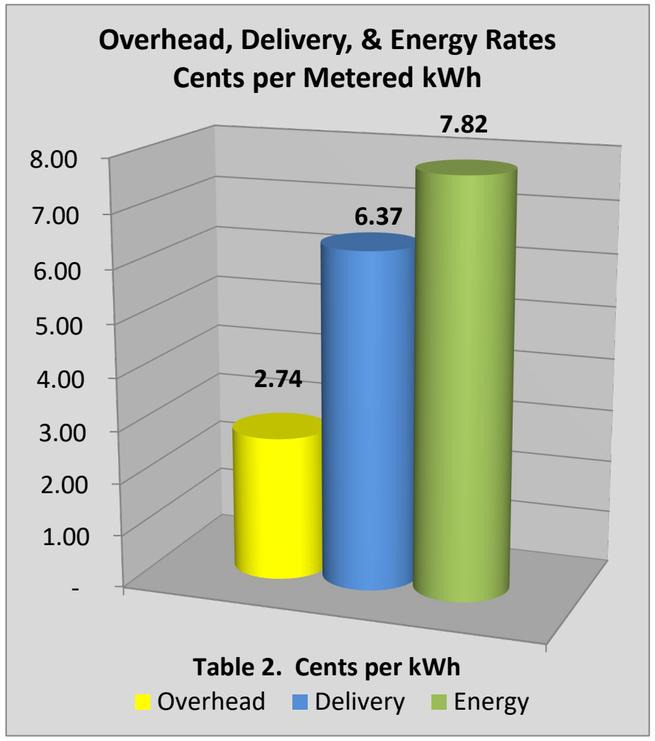
	2023 Budget	2022 Actual	Compare
Total Metered kWh	2,134,646	134,458	1488%
Overhead - JPA & ASA	$ 58,405	$ 47,453	23%
Distribution	$ 88,517	$ 45,743	94%
Transmission	$ 37,946	$ 3,022	1156%
Grid Mgmt & Misc	$ 9,606	$ 801	1099%
CAISO Load Cost	$ 173,716	$ 13,188	1217%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (39,631)	$ (4,550)	771%
Generation	$ 31,331	$ 51,835	-40%
Supplemental	$ 1,506	$ 6,314	-76%
Total Costs	$ 361,395	$ 163,808	121%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	2,134,646	134,458	1488%
Overhead	2.74	35.29	-92%
Delivery	6.37	36.86	-83%
Energy	7.82	49.67	-84%
Total Costs	16.93	121.83	-86%





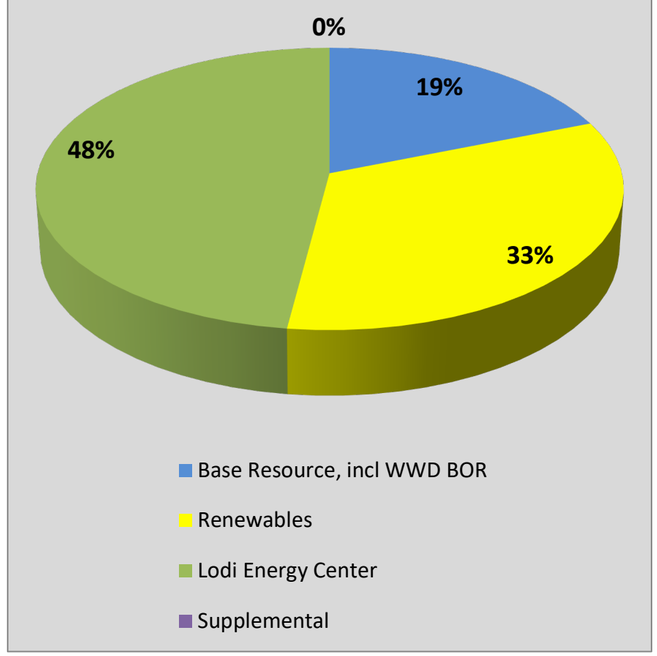
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	2,175,714	$ 173,716	7.98		-	$ 173,716	7.98
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	776,365	$ 38,059	4.90	$ (78,258)	(10.08)	$ (40,200)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	1,965,438	$ 151,636	7.72	$ (159,195)	(8.10)	$ (7,559)	(0.38)
Generation - Astoria	340,564	$ 21,456	6.30	$ (14,757)	(4.33)	$ 6,699	1.97
Generation - Whitney	288,816	$ 16,968	5.88	$ (11,956)	(4.14)	$ 5,012	1.74
Generation - Slate PV	729,475	$ 19,557	2.68	$ (21,526)	(2.95)	$ (1,969)	(0.27)
Generation - Slate BESS	-	$ -	-	$ (6,798)	-	$ (6,798)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	(1,924,944)						
Total Loss Adjusted kWh	2,175,714	$ 421,392	19.37	$ (292,490)	(13.44)	$ 128,902	5.92

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	2,175,714	$ 173,716	7.98			$ 173,716	7.98
Base Resource, incl WWD BOR	776,365	$ 38,627	4.98	$ (78,258)	(10.08)	$ (39,631)	(5.10)
Renewables	1,358,856	$ 58,832	4.33	$ (48,238)	(3.55)	$ 10,594	0.78
Lodi Energy Center	1,965,438	$ 186,730	9.50	$ (159,195)	(8.10)	$ 27,535	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 1,506				$ 1,506	
Resource Subtotal	4,100,658	$ 285,695	6.97	$ (285,692)	(6.97)	$ 3	0.00
Net Portfolio	2,175,714					$ 173,719	7.98
Percent of Load Covered	*188%*						

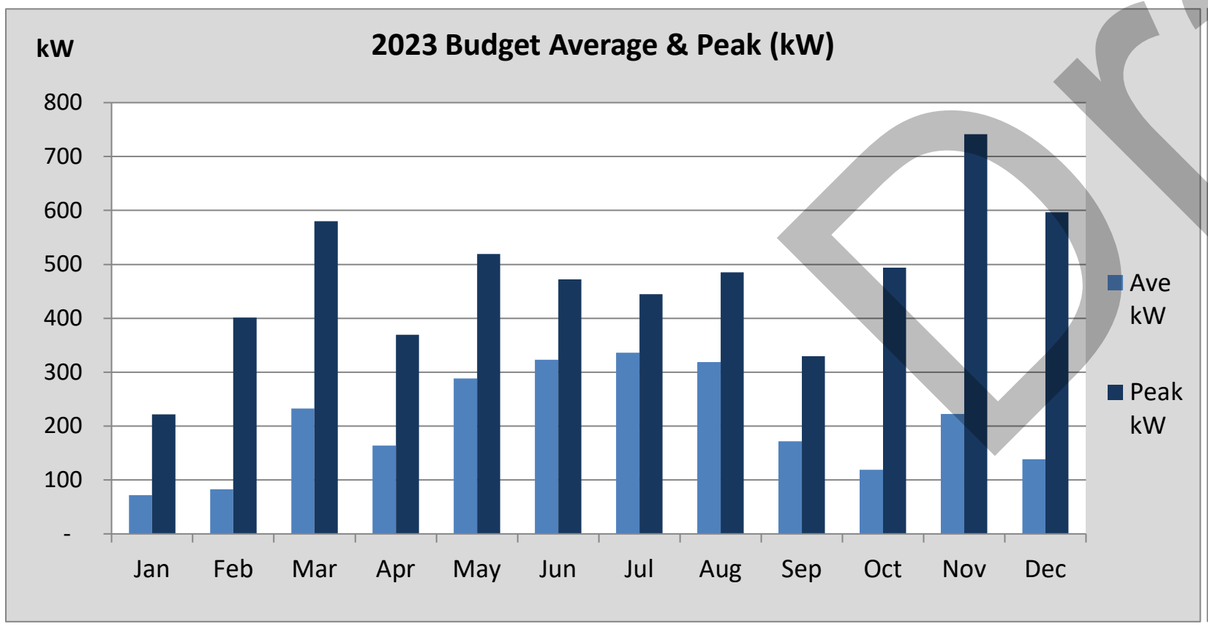


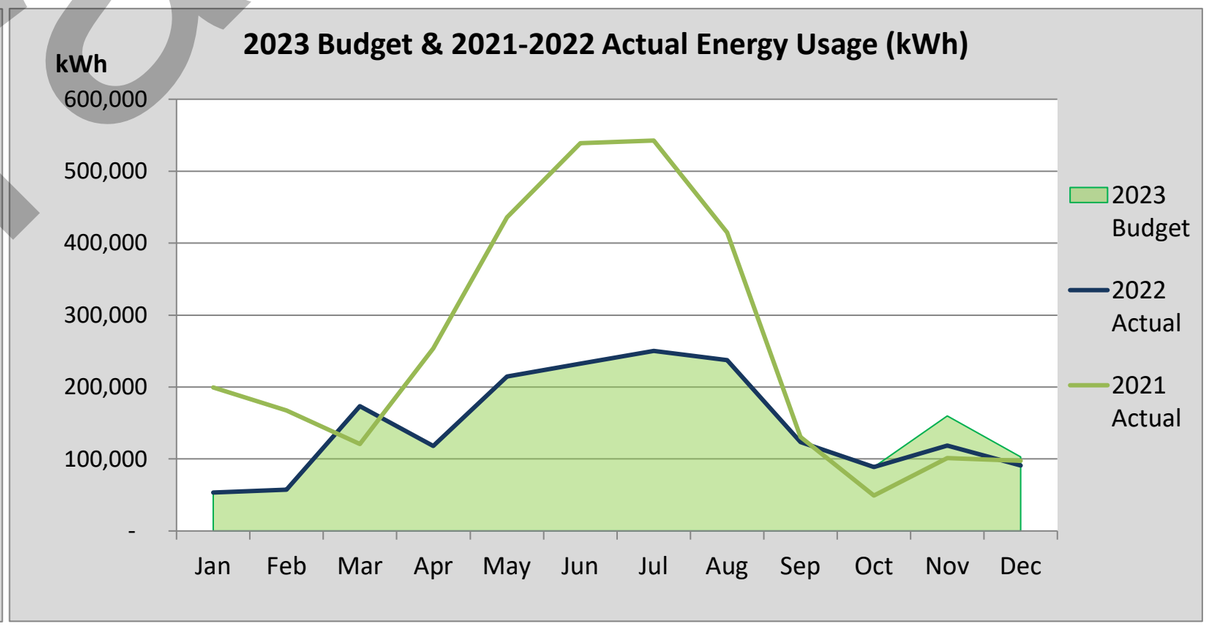
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — RD108 — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	222	72	53,396	426	72	53,396	1,155	268	199,713	-48%	0%	0%
Feb	401	83	57,513	357	83	57,513	1,300	240	167,204	12%	0%	0%
Mar	580	233	173,163	475	233	173,163	638	163	120,801	22%	0%	0%
Apr	369	164	117,972	583	164	117,972	996	352	253,627	-37%	0%	0%
May	519	288	214,388	640	288	214,388	1,472	586	435,973	-19%	0%	0%
Jun	472	323	232,509	538	323	232,509	1,452	749	539,177	-12%	0%	0%
Jul	445	336	250,203	610	336	250,203	1,252	729	542,557	-27%	0%	0%
Aug	485	319	237,270	594	319	237,270	1,200	558	414,786	-18%	0%	0%
Sep	330	172	123,598	519	172	123,598	534	182	130,795	-36%	0%	0%
Oct	494	119	88,687	362	119	88,687	384	66	49,197	37%	0%	0%
Nov	742	222	159,981	460	165	118,441	531	140	101,071	61%	35%	35%
Dec	596	138	102,792	356	133	90,725	612	131	97,368	68%	4%	13%
2023			1,811,473			1,757,866			3,052,268			3%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

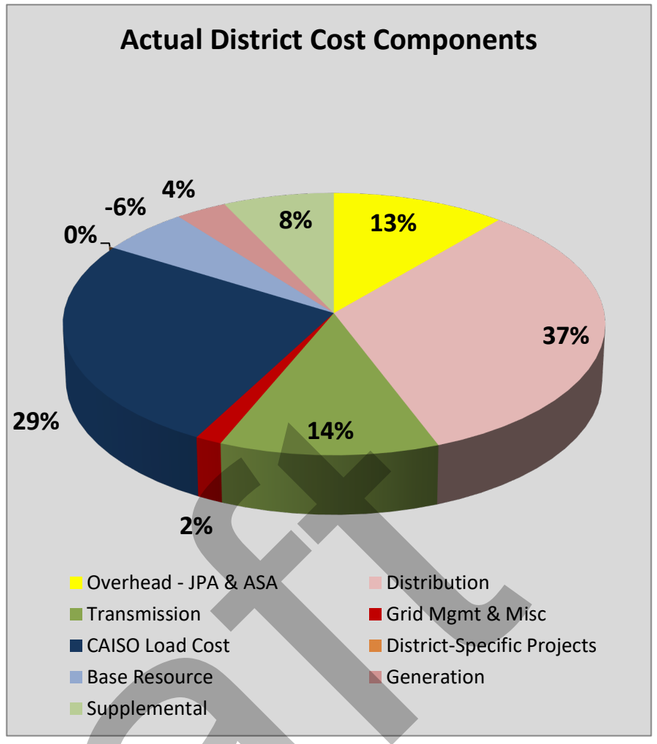
Table 1. District Cost Components

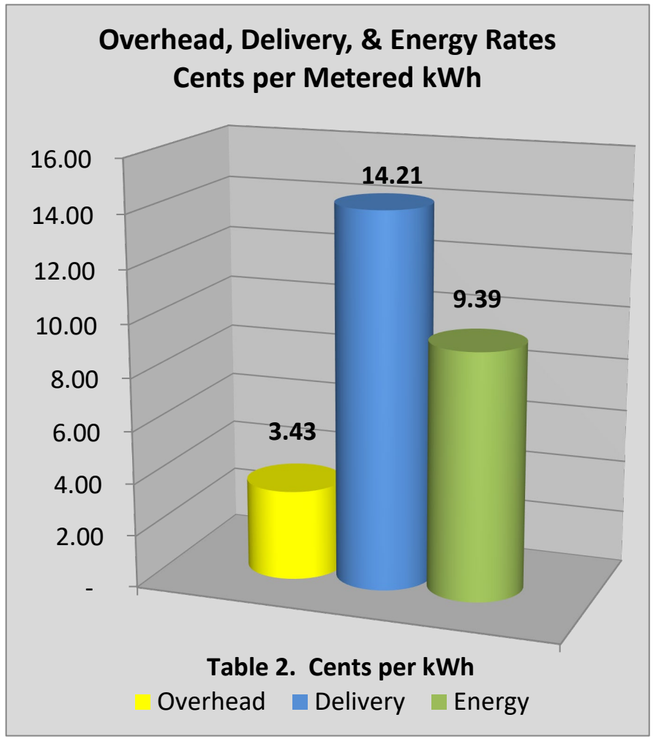
	2023 Budget	2022 Actual	Compare
Total Metered kWh	1,811,473	1,757,866	3%
Overhead - JPA & ASA	$ 62,131	$ 52,303	19%
Distribution	$ 182,206	$ 139,677	30%
Transmission	$ 67,035	$ 62,805	7%
Grid Mgmt & Misc	$ 8,152	$ 7,527	8%
CAISO Load Cost	$ 143,569	$ 141,645	1%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (31,660)	$ (4,402)	619%
Generation	$ 18,404	$ 24,242	-24%
Supplemental	$ 39,700	$ 1,996	1889%
Total Costs	$ 489,537	$ 425,793	15%

3% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	1,811,473	1,757,866	3%
Overhead	3.43	2.98	15%
Delivery	14.21	11.95	19%
Energy	9.39	9.30	1%
Total Costs	27.02	24.22	12%





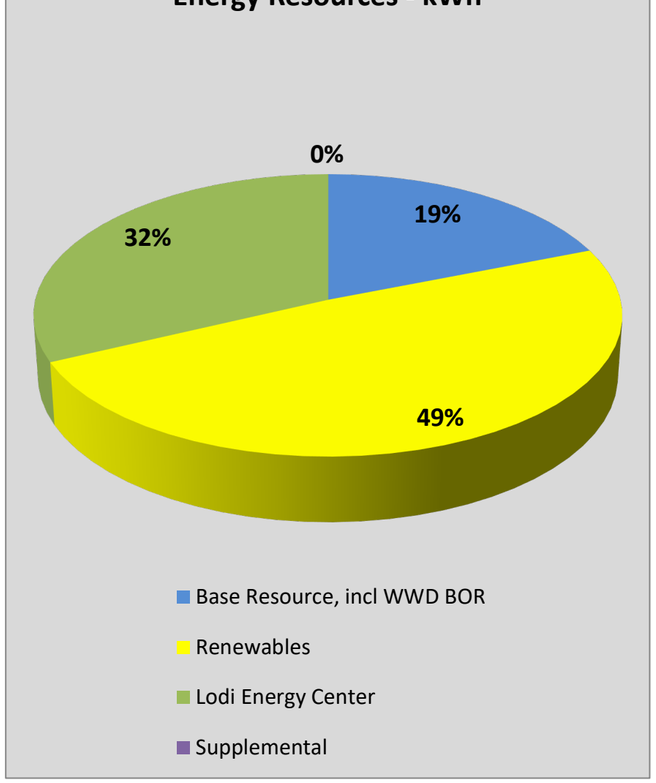
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	1,870,915	$ 143,569	7.67		-	$ 143,569	7.67
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	620,209	$ 30,404	4.90	$ (62,518)	(10.08)	$ (32,114)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	1,044,257	$ 80,566	7.72	$ (84,582)	(8.10)	$ (4,016)	(0.38)
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	722,199	$ 42,429	5.88	$ (29,896)	(4.14)	$ 12,533	1.74
Generation - Slate PV	873,851	$ 23,428	2.68	$ (25,786)	(2.95)	$ (2,358)	(0.27)
Generation - Slate BESS	-	$ 20,100	-	$ (8,143)	-	$ 11,957	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	(1,389,601)						
Total Loss Adjusted kWh	1,870,915	$ 340,495	18.20	$ (210,925)	(11.27)	$ 129,570	6.93

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	1,870,915	$ 143,569	7.67			$ 143,569	7.67
Base Resource, incl WWD BOR	620,209	$ 30,858	4.98	$ (62,518)	(10.08)	$ (31,660)	(5.10)
Renewables	1,596,050	$ 66,846	4.19	$ (55,683)	(3.49)	$ 11,163	0.70
Lodi Energy Center	1,044,257	$ 99,211	9.50	$ (84,582)	(8.10)	$ 14,629	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 20,354				$ 20,354	
Resource Subtotal	3,260,516	$ 217,270	6.66	$ (202,782)	(6.22)	$ 14,487	0.44
Net Portfolio	1,870,915					$ 158,056	8.45
Percent of Load Covered	*174%*						

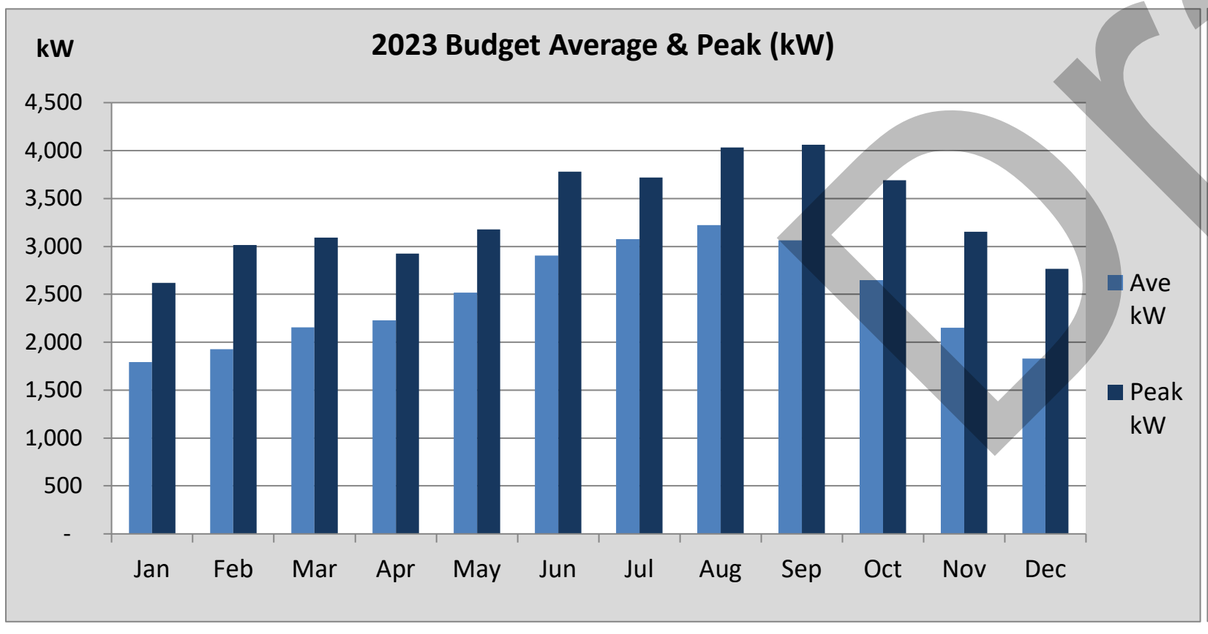


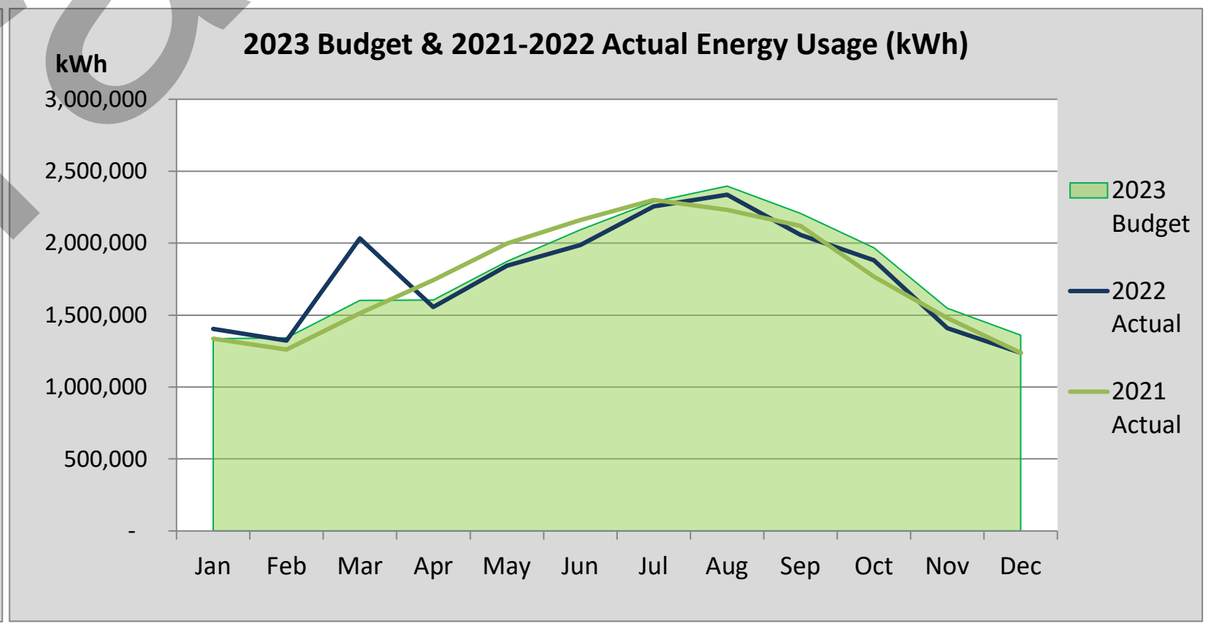
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Santa Clara — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	2,618	1,794	1,334,818	2,875	1,887	1,404,142	3,454	1,796	1,336,054	-9%	-5%	-5%
Feb	3,015	1,929	1,342,447	2,981	1,902	1,323,914	3,892	1,813	1,261,514	1%	1%	1%
Mar	3,093	2,155	1,603,159	3,669	2,731	2,032,195	3,862	2,034	1,511,361	-16%	-21%	-21%
Apr	2,924	2,230	1,605,499	3,111	2,160	1,555,220	3,923	2,422	1,743,991	-6%	3%	3%
May	3,177	2,517	1,872,352	3,391	2,476	1,842,421	4,164	2,686	1,998,468	-6%	2%	2%
Jun	3,779	2,905	2,091,368	3,671	2,760	1,987,526	5,022	3,000	2,160,024	3%	5%	5%
Jul	3,718	3,075	2,287,726	3,798	3,031	2,254,702	4,380	3,092	2,300,230	-2%	1%	1%
Aug	4,032	3,221	2,396,140	3,973	3,141	2,336,534	4,502	2,998	2,230,208	1%	3%	3%
Sep	4,059	3,063	2,205,319	3,865	2,856	2,056,136	4,829	2,945	2,120,268	5%	7%	7%
Oct	3,689	2,646	1,968,987	3,579	2,527	1,880,319	4,310	2,376	1,767,554	3%	5%	5%
Nov	3,152	2,150	1,547,789	3,268	1,959	1,410,657	4,099	2,052	1,479,653	-4%	10%	10%
Dec	2,767	1,830	1,361,177	3,802	1,785	1,238,109	3,362	1,664	1,238,109	-27%	3%	10%
2023			21,616,781			21,321,875			21,147,433			1%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

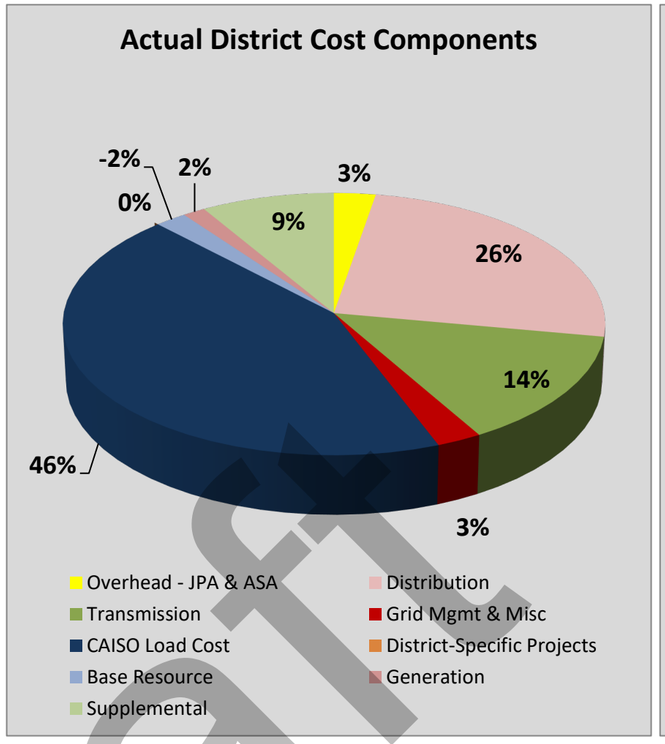
Table 1. District Cost Components

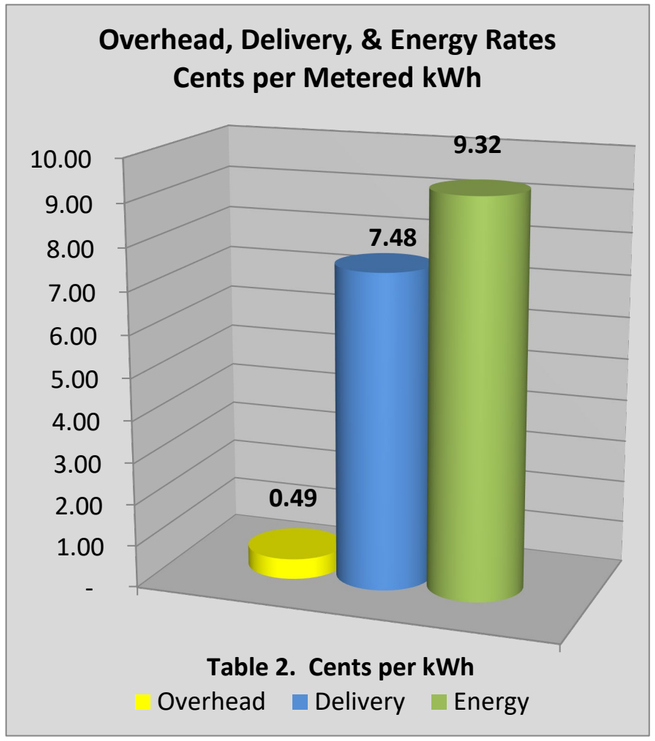
	2023 Budget	2022 Actual	Compare
Total Metered kWh	21,616,781	21,321,875	1%
Overhead - JPA & ASA	$ 105,044	$ 93,760	12%
Distribution	$ 980,915	$ 778,431	26%
Transmission	$ 538,980	$ 507,024	6%
Grid Mgmt & Misc	$ 97,276	$ 96,055	1%
CAISO Load Cost	$ 1,702,287	$ 1,631,192	4%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (79,841)	$ (9,735)	720%
Generation	$ 57,023	$ 67,688	-16%
Supplemental	$ 336,054	$ 224,283	50%
Total Costs	$ 3,737,738	$ 3,388,699	10%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	21,616,781	21,321,875	1%
Overhead	0.49	0.44	11%
Delivery	7.48	6.48	15%
Energy	9.32	8.97	4%
Total Costs	17.29	15.89	9%





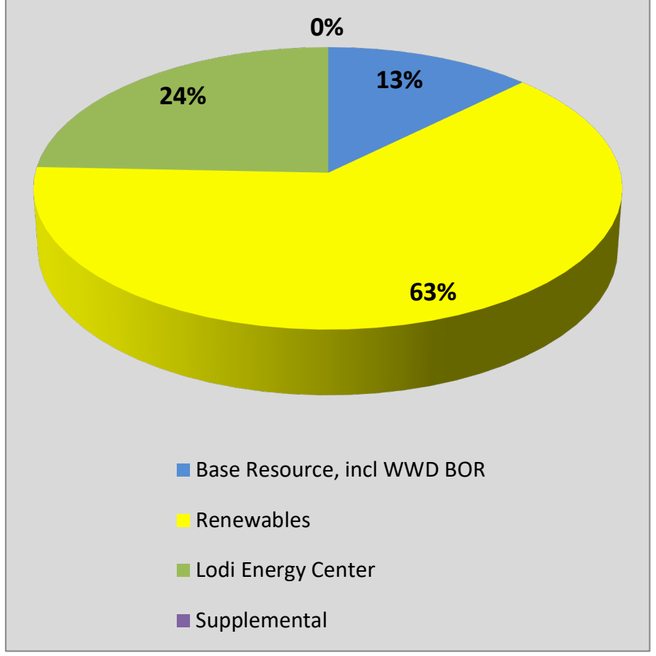
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	22,076,892	$ 1,702,287	7.71		-	$ 1,702,287	7.71
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	1,564,063	$ 76,673	4.90	$ (157,659)	(10.08)	$ (80,986)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	3,000,505	$ 231,493	7.72	$ (243,033)	(8.10)	$ (11,540)	(0.38)
Generation - Astoria	1,210,838	$ 76,283	6.30	$ (52,465)	(4.33)	$ 23,818	1.97
Generation - Whitney	2,166,280	$ 127,269	5.88	$ (89,676)	(4.14)	$ 37,593	1.74
Generation - Slate PV	4,384,450	$ 117,547	2.68	$ (129,380)	(2.95)	$ (11,833)	(0.27)
Generation - Slate BESS	-	$ 40,200	-	$ (40,857)	-	$ (657)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	9,750,756						
Total Loss Adjusted kWh	22,076,892	$ 2,371,752	10.74	$ (713,070)	(3.23)	$ 1,658,682	7.51

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	22,076,892	$ 1,702,287	7.71			$ 1,702,287	7.71
Base Resource, incl WWD BOR	1,564,063	$ 77,818	4.98	$ (157,659)	(10.08)	$ (79,841)	(5.10)
Renewables	7,761,568	$ 325,858	4.20	$ (271,521)	(3.50)	$ 54,336	0.70
Lodi Energy Center	3,000,505	$ 285,068	9.50	$ (243,033)	(8.10)	$ 42,035	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 297,362				$ 297,362	
Resource Subtotal	12,326,136	$ 986,106	8.00	$ (672,213)	(5.45)	$ 313,893	2.55
Net Portfolio	22,076,892					$ 2,016,180	9.13
Percent of Load Covered	*56%*						

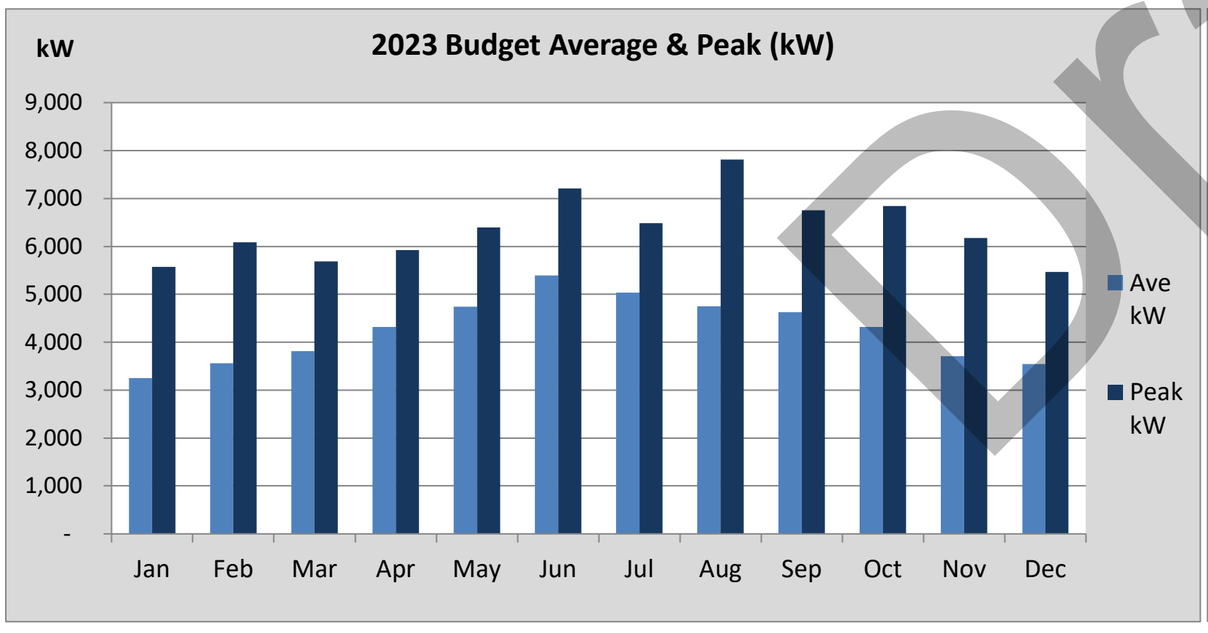


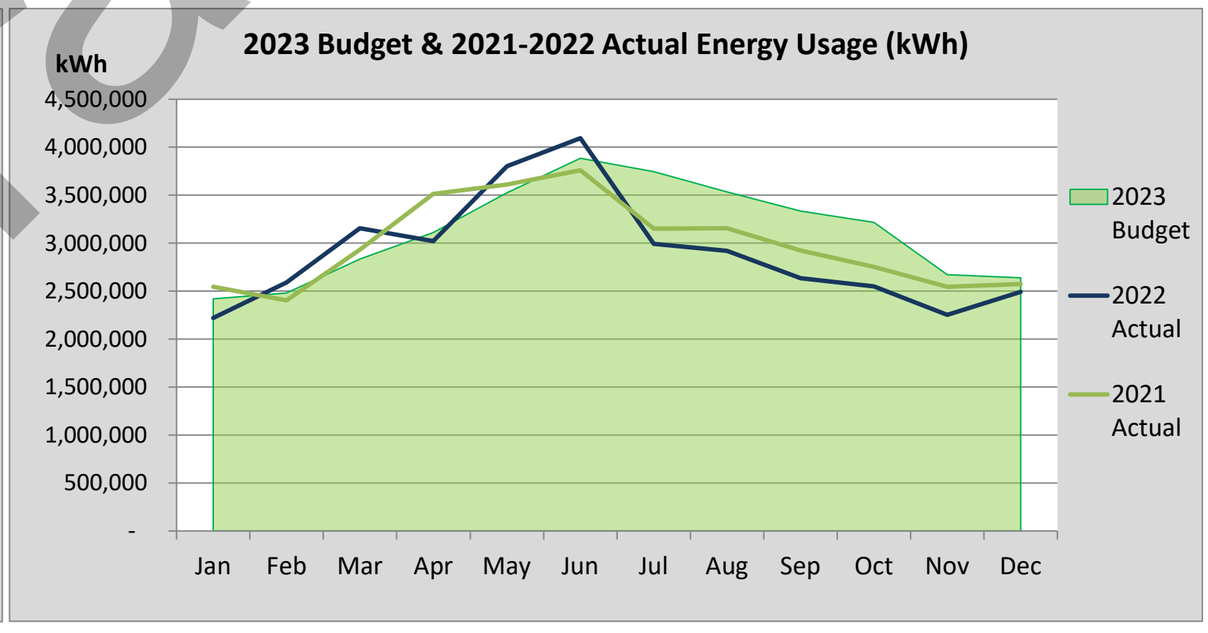
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Sonoma — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	5,576	3,253	2,420,314	5,115	2,984	2,220,069	7,085	3,419	2,544,007	9%	9%	9%
Feb	6,085	3,561	2,478,323	5,870	3,724	2,591,614	6,590	3,453	2,403,315	4%	-4%	-4%
Mar	5,688	3,811	2,835,613	6,842	4,240	3,154,449	7,602	3,945	2,931,341	-17%	-10%	-10%
Apr	5,925	4,317	3,108,453	5,984	4,195	3,020,698	8,120	4,877	3,511,180	-1%	3%	3%
May	6,393	4,741	3,527,087	7,712	5,109	3,800,935	6,935	4,852	3,609,758	-17%	-7%	-7%
Jun	7,212	5,395	3,884,605	7,999	5,686	4,093,888	8,167	5,222	3,759,600	-10%	-5%	-5%
Jul	6,483	5,033	3,744,707	6,502	4,021	2,991,395	7,003	4,238	3,152,954	0%	25%	25%
Aug	7,810	4,751	3,534,891	5,905	3,925	2,920,074	7,770	4,242	3,155,838	32%	21%	21%
Sep	6,752	4,631	3,334,078	6,384	3,660	2,635,511	6,602	4,062	2,924,375	6%	27%	27%
Oct	6,841	4,321	3,215,038	6,426	3,428	2,550,242	7,717	3,700	2,752,448	6%	26%	26%
Nov	6,175	3,708	2,669,747	4,983	3,131	2,254,060	10,172	3,531	2,546,204	24%	18%	18%
Dec	5,470	3,546	2,638,241	4,735	3,195	2,491,161	6,572	3,460	2,574,372	16%	11%	6%
2023			37,391,095			34,724,095			35,865,391			8%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

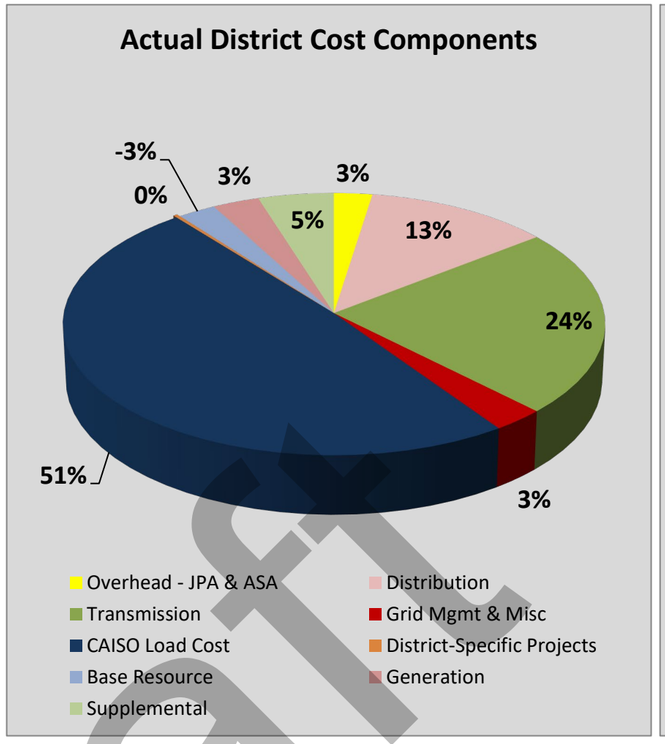
Table 1. District Cost Components

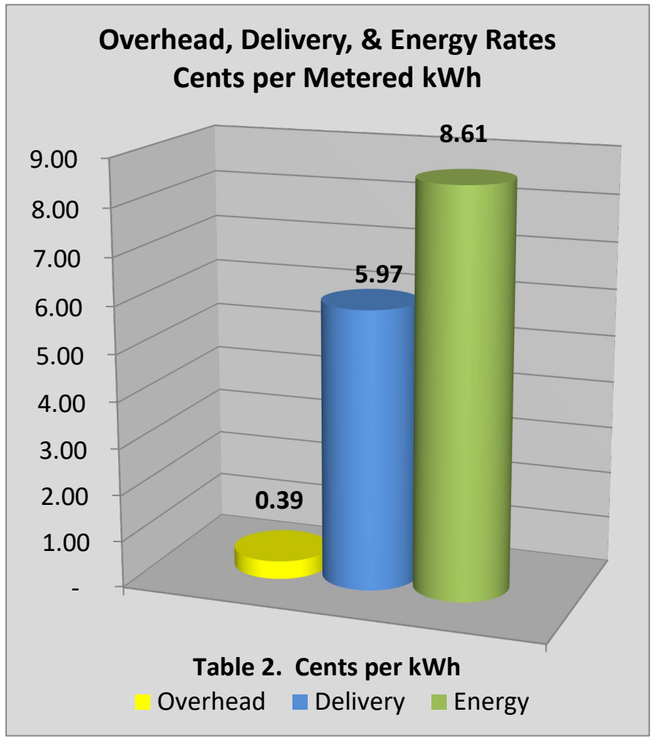
	2023 Budget	2022 Actual	Compare
Total Metered kWh	37,391,095	34,724,095	8%
Overhead - JPA & ASA	$ 145,891	$ 134,062	9%
Distribution	$ 706,502	$ 703,696	0%
Transmission	$ 1,357,738	$ 1,211,334	12%
Grid Mgmt & Misc	$ 168,260	$ 150,783	12%
CAISO Load Cost	$ 2,881,756	$ 2,538,296	14%
District-Specific Projects	$ 16,177	$ 12,195	33%
Base Resource	$ (146,008)	$ (17,518)	733%
Generation	$ 178,329	$ 143,431	24%
Supplemental	$ 288,047	$ 216,688	33%
Total Costs	$ 5,596,691	$ 5,092,966	10%

1% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	37,391,095	34,724,095	8%
Overhead	0.39	0.39	1%
Delivery	5.97	5.95	0%
Energy	8.61	8.33	3%
Total Costs	14.97	14.67	2%





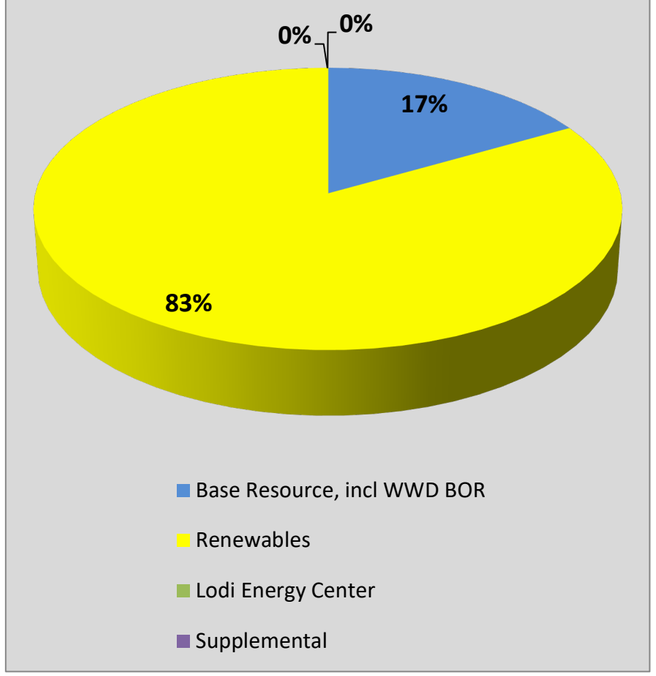
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	37,894,001	$ 2,881,756	7.60		-	$ 2,881,756	7.60
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	2,860,262	$ 140,215	4.90	$ (288,317)	(10.08)	$ (148,102)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	-	$ -	-	$ -	-	$ -	-
Generation - Astoria	3,163,910	$ 199,326	6.30	$ (137,091)	(4.33)	$ 62,235	1.97
Generation - Whitney	8,087,804	$ 475,159	5.88	$ (334,806)	(4.14)	$ 140,353	1.74
Generation - Slate PV	2,925,500	$ 78,433	2.68	$ (86,328)	(2.95)	$ (7,896)	(0.27)
Generation - Slate BESS	-	$ -	-	$ (27,262)	-	$ (27,262)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	20,856,525						
Total Loss Adjusted kWh	37,894,001	$ 3,774,888	9.96	$ (873,804)	(2.31)	$ 2,901,084	7.66

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	37,894,001	$ 2,881,756	7.60			$ 2,881,756	7.60
Base Resource, incl WWD BOR	2,860,262	$ 142,309	4.98	$ (288,317)	(10.08)	$ (146,008)	(5.10)
Renewables	14,177,214	$ 779,993	5.50	$ (558,225)	(3.94)	$ 221,768	1.56
Lodi Energy Center	-	$ -	-	$ -	-	$ -	-
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 288,047				$ 288,047	
Resource Subtotal	17,037,476	$ 1,210,349	7.10	$ (846,542)	(4.97)	$ 363,807	2.14
Net Portfolio	37,894,001					$ 3,245,562	8.56
Percent of Load Covered	*45%*						

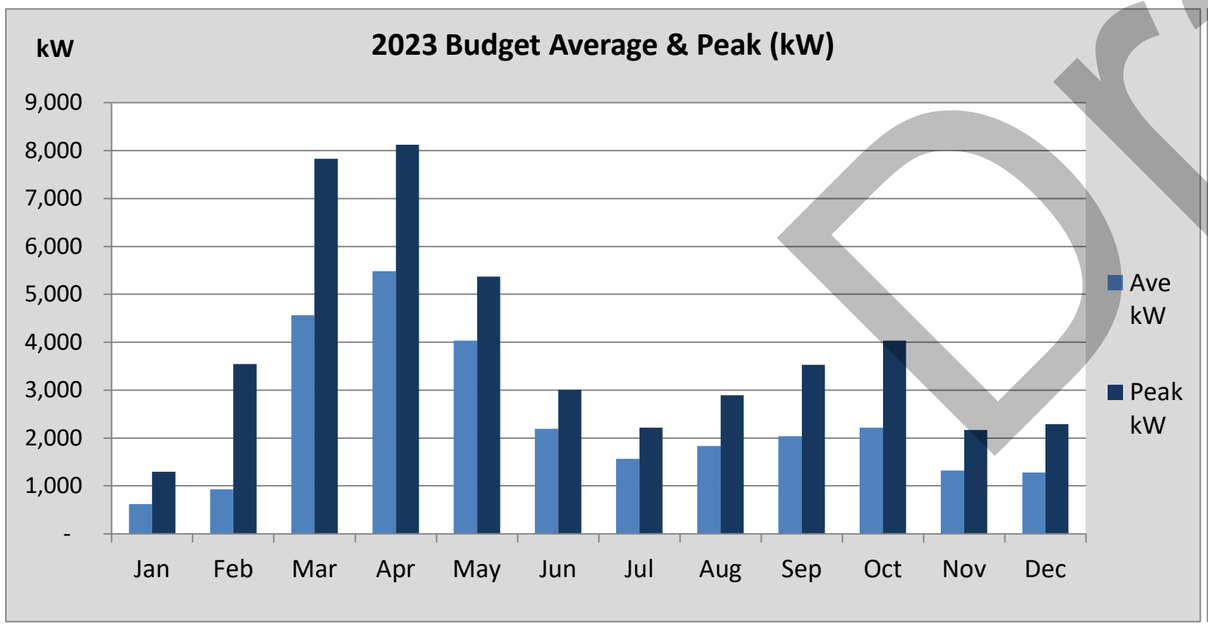


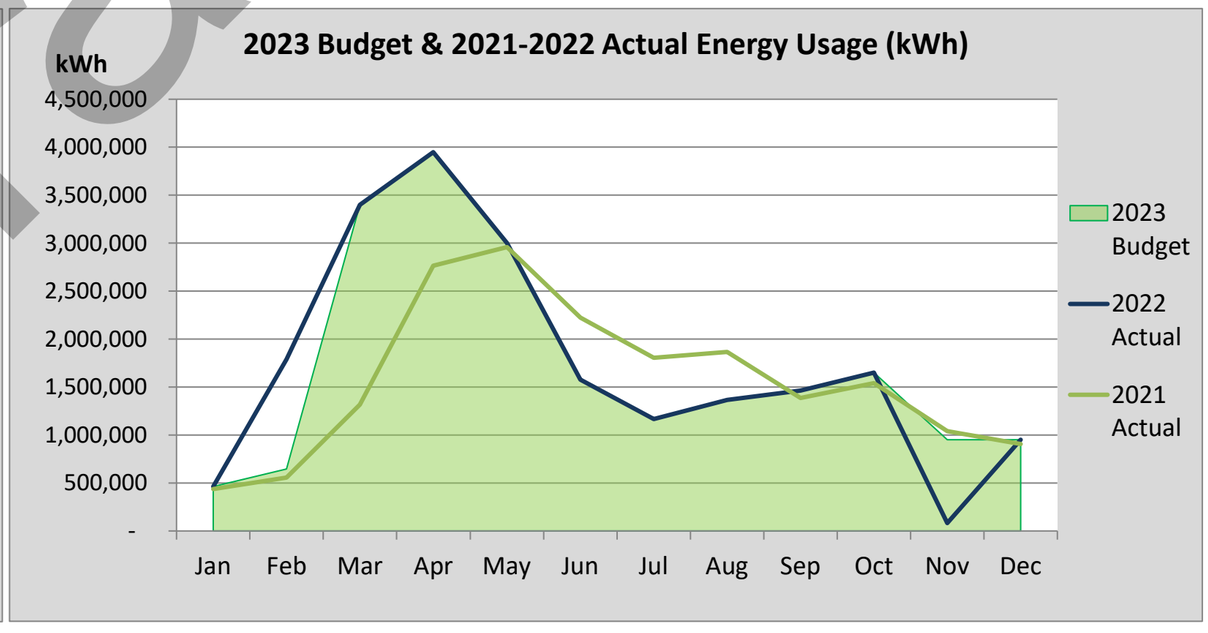
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — West Stan — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	1,299	621	461,793	3,200	621	461,793	1,243	587	436,877	-59%	0%	0%
Feb	3,545	930	647,467	3,872	2,573	1,790,596	3,053	798	555,740	-8%	-64%	-64%
Mar	7,832	4,566	3,397,352	5,787	4,566	3,397,352	3,124	1,774	1,317,937	35%	0%	0%
Apr	8,120	5,484	3,948,239	6,228	5,484	3,948,239	5,688	3,840	2,764,446	30%	0%	0%
May	5,365	4,033	3,000,249	5,380	4,033	3,000,249	5,437	3,977	2,958,638	0%	0%	0%
Jun	3,004	2,190	1,576,908	3,602	2,190	1,576,908	4,258	3,088	2,223,261	-17%	0%	0%
Jul	2,218	1,570	1,167,849	2,274	1,570	1,167,849	3,431	2,426	1,805,253	-2%	0%	0%
Aug	2,897	1,836	1,366,344	2,575	1,836	1,366,344	3,963	2,508	1,865,758	13%	0%	0%
Sep	3,529	2,034	1,464,597	2,675	2,034	1,464,597	3,380	1,924	1,385,292	32%	0%	0%
Oct	4,034	2,217	1,649,299	3,756	2,217	1,649,299	3,777	2,072	1,541,761	7%	0%	0%
Nov	2,166	1,319	950,000	687	114	82,118	3,756	1,440	1,038,570	215%	1057%	1057%
Dec	2,293	1,277	950,000	2,270	1,160	950,000	2,230	1,215	904,186	1%	10%	0%
2023			20,580,095			20,855,342			18,797,720			-1%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

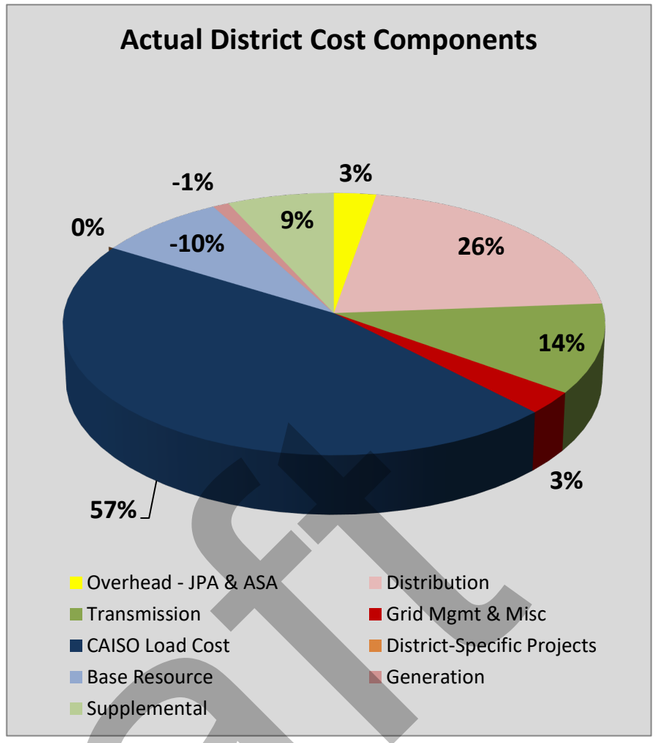
Table 1. District Cost Components

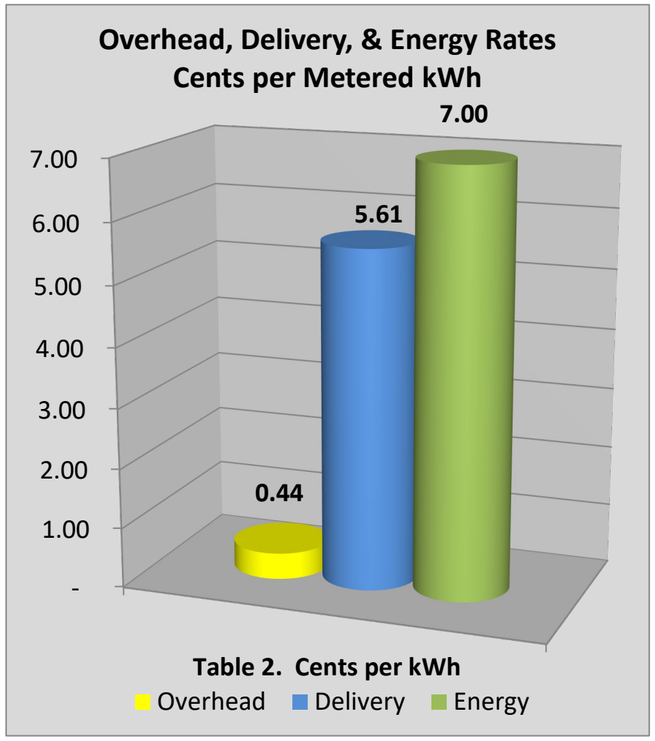
	2023 Budget	2022 Actual	Compare
Total Metered kWh	20,580,095	20,855,342	-1%
Overhead - JPA & ASA	$ 90,181	$ 73,683	22%
Distribution	$ 696,628	$ 558,742	25%
Transmission	$ 365,822	$ 364,971	0%
Grid Mgmt & Misc	$ 92,610	$ 88,313	5%
CAISO Load Cost	$ 1,521,201	$ 1,510,271	1%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (274,797)	$ (36,577)	651%
Generation	$ (34,423)	$ (30,886)	11%
Supplemental	$ 228,506	$ 5,273	4234%
Total Costs	$ 2,685,729	$ 2,533,790	6%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	20,580,095	20,855,342	-1%
Overhead	0.44	0.35	24%
Delivery	5.61	4.85	16%
Energy	7.00	6.94	1%
Total Costs	13.05	12.15	7%





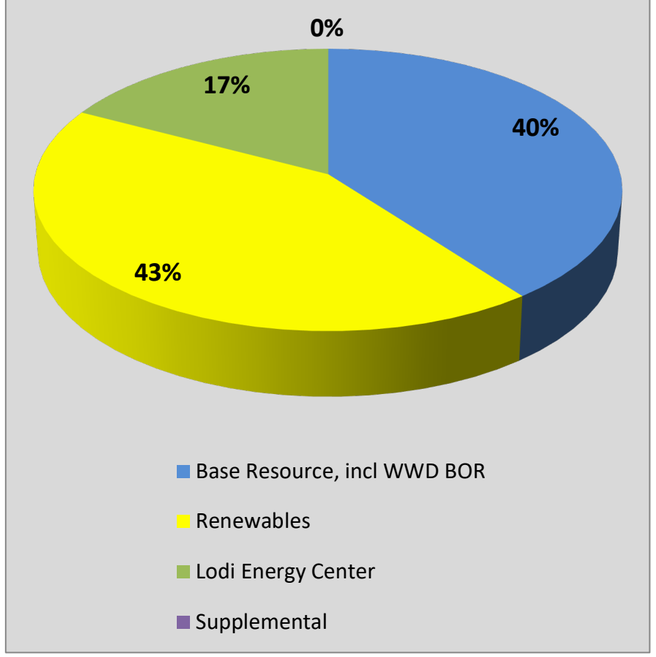
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	20,975,424	$ 1,521,201	7.25		-	$ 1,521,201	7.25
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	5,383,191	$ 263,893	4.90	$ (542,631)	(10.08)	$ (278,738)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	2,346,391	$ 181,027	7.72	$ (190,051)	(8.10)	$ (9,024)	(0.38)
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	5,843,400	$ 156,662	2.68	$ (172,432)	(2.95)	$ (15,771)	(0.27)
Generation - Slate BESS	-	$ 80,400	-	$ (54,452)	-	$ 25,948	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	7,402,442						
Total Loss Adjusted kWh	20,975,424	$ 2,203,183	10.50	$ (959,567)	(4.57)	$ 1,243,616	5.93

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	20,975,424	$ 1,521,201	7.25			$ 1,521,201	7.25
Base Resource, incl WWD BOR	5,383,191	$ 267,835	4.98	$ (542,631)	(10.08)	$ (274,797)	(5.10)
Renewables	5,843,400	$ 159,137	2.72	$ (172,432)	(2.95)	$ (13,295)	(0.23)
Lodi Energy Center	2,346,391	$ 222,923	9.50	$ (190,051)	(8.10)	$ 32,871	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 148,558				$ 148,558	
Resource Subtotal	13,572,982	$ 798,452	5.88	$ (905,115)	(6.67)	$ (106,662)	(0.79)
Net Portfolio	20,975,424					$ 1,414,539	6.74
Percent of Load Covered	*65%*						

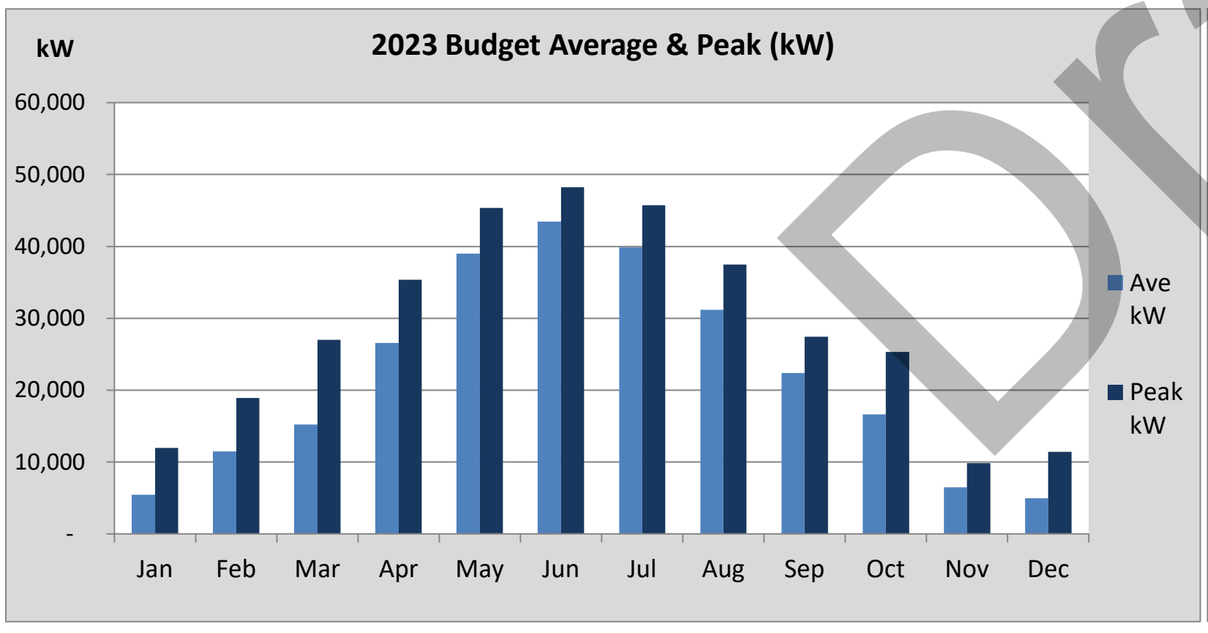


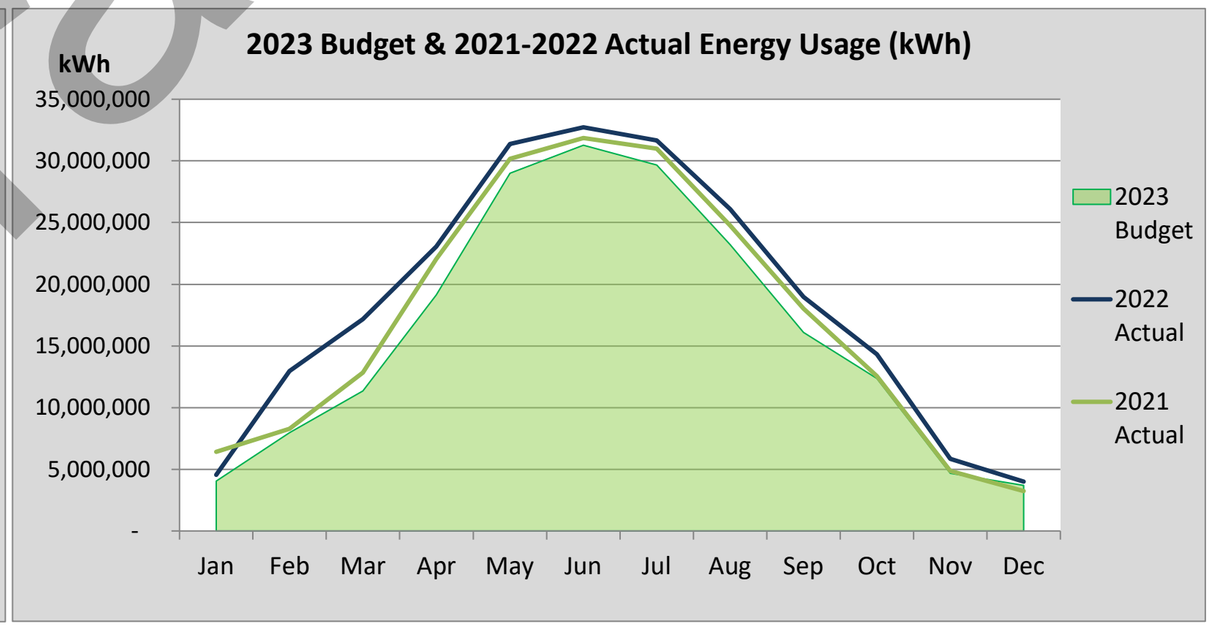
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Westlands — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	11,948	5,427	4,038,033	14,212	6,120	4,553,578	33,932	8,626	6,418,078	-16%	-11%	-11%
Feb	18,915	11,457	7,973,988	28,993	18,608	12,950,988	40,340	11,903	8,284,564	-35%	-38%	-38%
Mar	26,982	15,240	11,338,670	30,313	23,099	17,185,851	47,921	17,281	12,839,453	-11%	-34%	-34%
Apr	35,365	26,579	19,137,179	41,030	32,038	23,067,225	61,601	30,604	22,034,959	-14%	-17%	-17%
May	45,348	38,999	29,015,186	49,594	42,172	31,375,816	62,515	40,556	30,173,873	-9%	-8%	-8%
Jun	48,227	43,432	31,271,029	50,213	45,451	32,724,937	65,391	44,244	31,855,602	-4%	-4%	-4%
Jul	45,750	39,879	29,669,808	48,860	42,567	31,669,897	64,651	41,663	30,996,937	-6%	-6%	-6%
Aug	37,486	31,182	23,199,229	39,606	35,061	26,085,374	58,156	33,283	24,762,511	-5%	-11%	-11%
Sep	27,458	22,371	16,107,083	35,949	26,371	18,987,219	52,924	25,012	18,008,920	-24%	-15%	-15%
Oct	25,297	16,631	12,373,790	25,227	19,233	14,309,254	45,872	16,854	12,539,557	0%	-14%	-14%
Nov	9,818	6,500	4,680,176	16,497	8,140	5,860,739	33,237	6,749	4,866,116	-40%	-20%	-20%
Dec	11,403	4,971	3,698,632	12,835	5,595	4,000,000	18,110	4,347	3,234,240	-11%	-11%	-8%
2023			192,502,804			222,770,877			206,014,809			-14%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

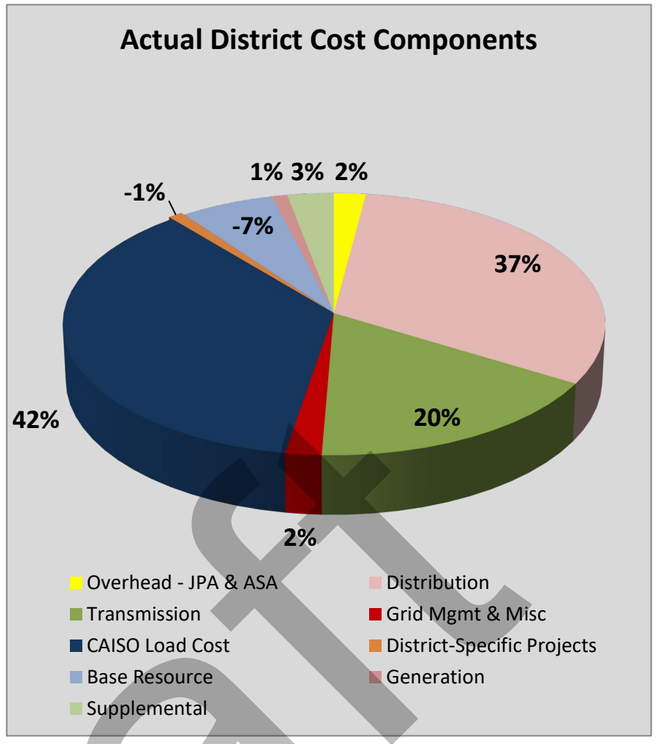
Table 1. District Cost Components

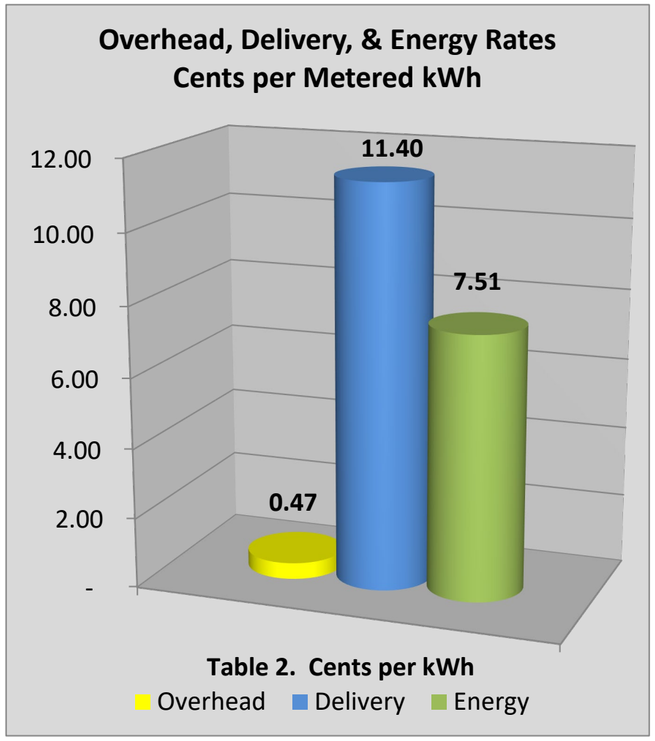
	2023 Budget	2022 Actual	Compare
Total Metered kWh	192,502,804	222,770,877	-14%
Overhead - JPA & ASA	$ 897,062	$ 921,683	-3%
Distribution	$ 13,713,396	$ 11,422,491	20%
Transmission	$ 7,370,508	$ 8,108,745	-9%
Grid Mgmt & Misc	$ 866,263	$ 975,969	-11%
CAISO Load Cost	$ 15,768,725	$ 18,166,468	-13%
District-Specific Projects	$ (406,409)	$ (352,489)	15%
Base Resource	$ (2,642,266)	$ (366,567)	621%
Generation	$ 429,926	$ 482,656	-11%
Supplemental	$ 1,299,003	$ (26,599)	-4984%
Total Costs	$ 37,296,207	$ 39,332,358	-5%

7% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	192,502,804	222,770,877	-14%
Overhead	0.47	0.41	13%
Delivery	11.40	9.21	24%
Energy	7.51	8.04	-7%
Total Costs	19.37	17.66	10%





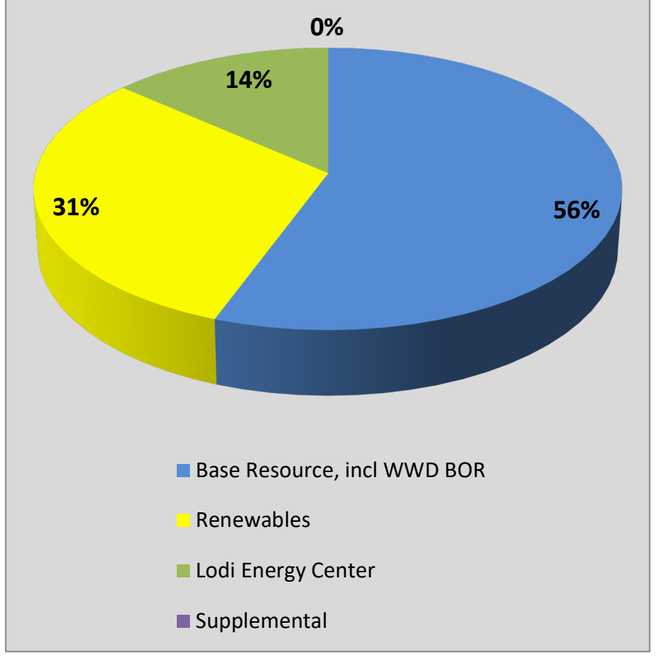
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	205,708,394	$ 15,768,725	7.67		-	$ 15,768,725	7.67
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	3,904,000	$ -	-	$ (422,587)	(10.82)	$ (422,587)	(10.82)
Base Resource	51,761,258	$ 2,537,427	4.90	$ (5,217,590)	(10.08)	$ (2,680,163)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	13,574,502	$ 1,047,289	7.72	$ (1,099,497)	(8.10)	$ (52,208)	(0.38)
Generation - Astoria	10,443,619	$ 657,948	6.30	$ (452,518)	(4.33)	$ 205,430	1.97
Generation - Whitney	8,665,437	$ 509,094	5.88	$ (358,717)	(4.14)	$ 150,377	1.74
Generation - Slate PV	11,686,801	$ 313,323	2.68	$ (344,864)	(2.95)	$ (31,541)	(0.27)
Generation - Slate BESS	-	$ 257,280	-	$ (108,904)	-	$ 148,376	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	105,672,778						
Total Loss Adjusted kWh	205,708,394	$ 21,091,087	10.25	$ (8,004,678)	(3.89)	$ 13,086,409	6.36

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	205,708,394	$ 15,768,725	7.67			$ 15,768,725	7.67
Base Resource, incl WWD BOR	55,665,258	$ 2,591,502	4.66	$ (5,640,177)	(10.13)	$ (3,048,675)	(5.48)
Renewables	30,795,856	$ 1,501,779	4.88	$ (1,156,100)	(3.75)	$ 345,679	1.12
Lodi Energy Center	13,574,502	$ 1,289,630	9.50	$ (1,099,497)	(8.10)	$ 190,133	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 1,044,741				$ 1,044,741	
Resource Subtotal	100,035,616	$ 6,427,652	6.43	$ (7,895,774)	(7.89)	$ (1,468,122)	(1.47)
Net Portfolio	205,708,394					$ 14,300,603	6.95
Percent of Load Covered	*49%*						

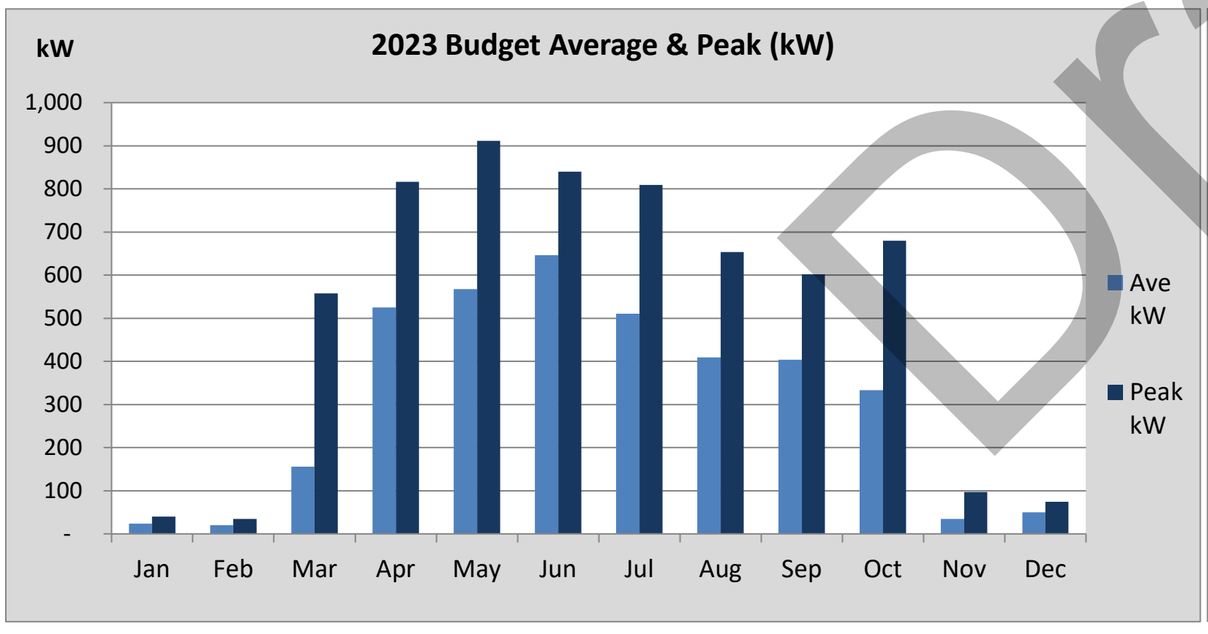


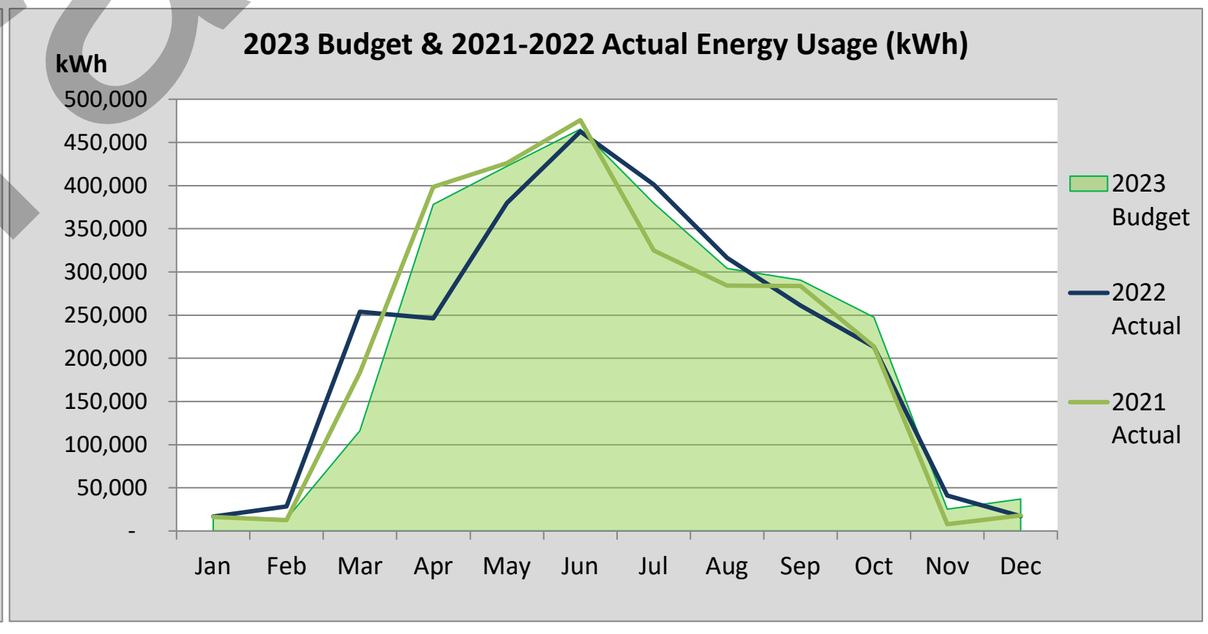
Draft

Power and Water Resources Pooling Authority

Energy Summary, Metered kWh — Westside — 2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	40	23	17,374	34	22	16,712	39	22	16,232	15%	4%	4%
Feb	35	20	13,950	152	41	28,444	33	18	12,775	-77%	-51%	-51%
Mar	558	156	116,230	795	341	253,680	886	247	183,541	-30%	-54%	-54%
Apr	817	525	378,205	597	342	246,312	861	553	398,501	37%	54%	54%
May	911	568	422,284	901	511	380,070	920	573	426,264	1%	11%	11%
Jun	840	646	465,340	1,032	643	462,607	861	661	475,825	-19%	1%	1%
Jul	809	510	379,615	755	539	401,007	693	436	324,632	7%	-5%	-5%
Aug	653	409	304,225	650	425	316,106	610	382	283,932	0%	-4%	-4%
Sep	602	404	290,635	601	363	261,316	588	394	283,682	0%	11%	11%
Oct	680	333	247,625	611	287	213,170	589	287	213,834	11%	16%	16%
Nov	97	35	25,159	240	57	40,934	31	11	7,813	-60%	-39%	-39%
Dec	74	50	37,117	123	30	16,988	37	24	17,832	-40%	67%	118%
2023			2,697,758			2,637,348			2,644,862			2%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

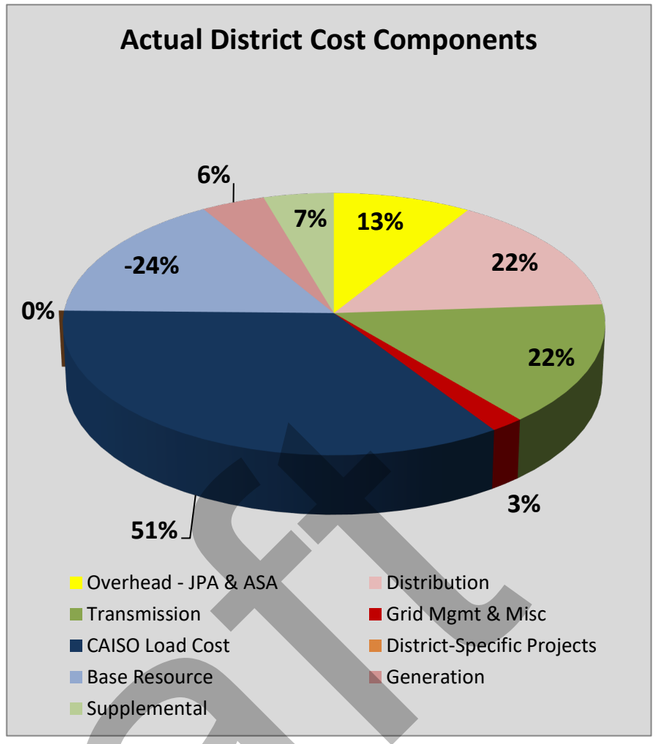
Table 1. District Cost Components

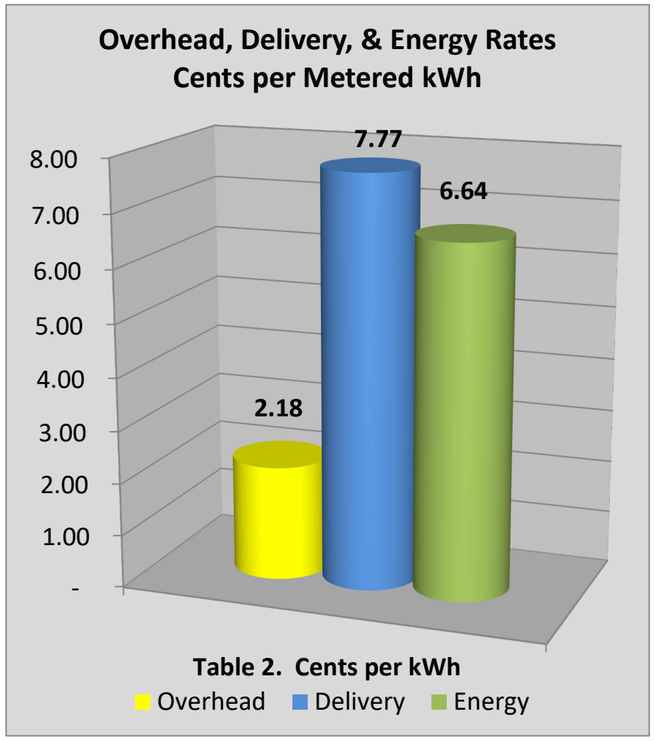
	2023 Budget	2022 Actual	Compare
Total Metered kWh	2,697,758	2,637,348	2%
Overhead - JPA & ASA	$ 58,734	$ 47,071	25%
Distribution	$ 98,824	$ 86,419	14%
Transmission	$ 98,530	$ 90,405	9%
Grid Mgmt & Misc	$ 12,140	$ 10,621	14%
CAISO Load Cost	$ 227,923	$ 208,617	9%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (105,693)	$ (16,082)	557%
Generation	$ 27,072	$ 37,803	-28%
Supplemental	$ 29,932	$ (2,037)	-1570%
Total Costs	$ 447,460	$ 462,817	-3%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	2,697,758	2,637,348	2%
Overhead	2.18	1.78	22%
Delivery	7.77	7.11	9%
Energy	6.64	8.66	-23%
Total Costs	16.59	17.55	-5%





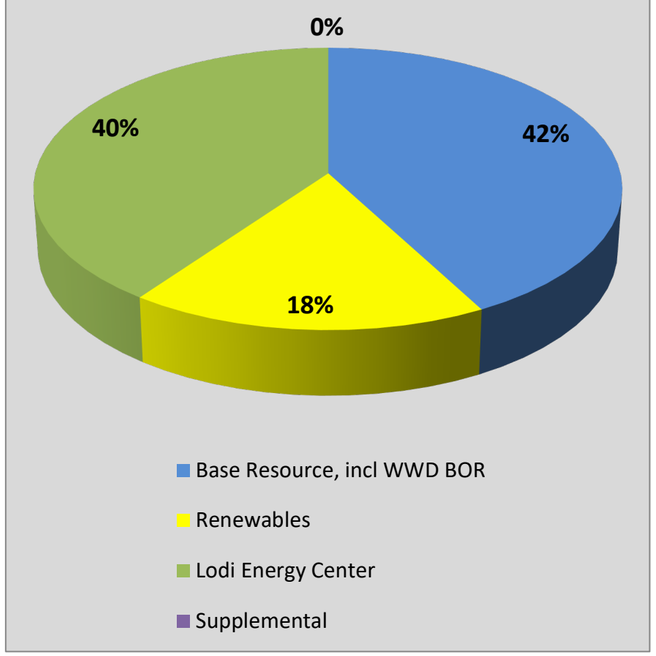
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	2,749,931	$ 227,923	8.29		-	$ 227,923	8.29
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	2,070,503	$ 101,500	4.90	$ (208,709)	(10.08)	$ (107,209)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	1,966,188	$ 151,694	7.72	$ (159,256)	(8.10)	$ (7,562)	(0.38)
Generation - Astoria	-	$ -	-	$ -	-	$ -	-
Generation - Whitney	-	$ -	-	$ -	-	$ -	-
Generation - Slate PV	873,851	$ 23,428	2.68	$ (25,786)	(2.95)	$ (2,358)	(0.27)
Generation - Slate BESS	-	$ 12,060	-	$ (8,143)	-	$ 3,917	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	(2,160,611)						
Total Loss Adjusted kWh	2,749,931	$ 516,604	18.79	$ (401,894)	(14.61)	$ 114,710	4.17

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	2,749,931	$ 227,923	8.29			$ 227,923	8.29
Base Resource, incl WWD BOR	2,070,503	$ 103,016	4.98	$ (208,709)	(10.08)	$ (105,693)	(5.10)
Renewables	873,851	$ 23,799	2.72	$ (25,786)	(2.95)	$ (1,987)	(0.23)
Lodi Energy Center	1,966,188	$ 186,801	9.50	$ (159,256)	(8.10)	$ 27,545	1.40
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 27,528				$ 27,528	
Resource Subtotal	4,910,542	$ 341,144	6.95	$ (393,751)	(8.02)	$ (52,607)	(1.07)
Net Portfolio	2,749,931					$ 175,316	6.38
Percent of Load Covered	*179%*						



Draft

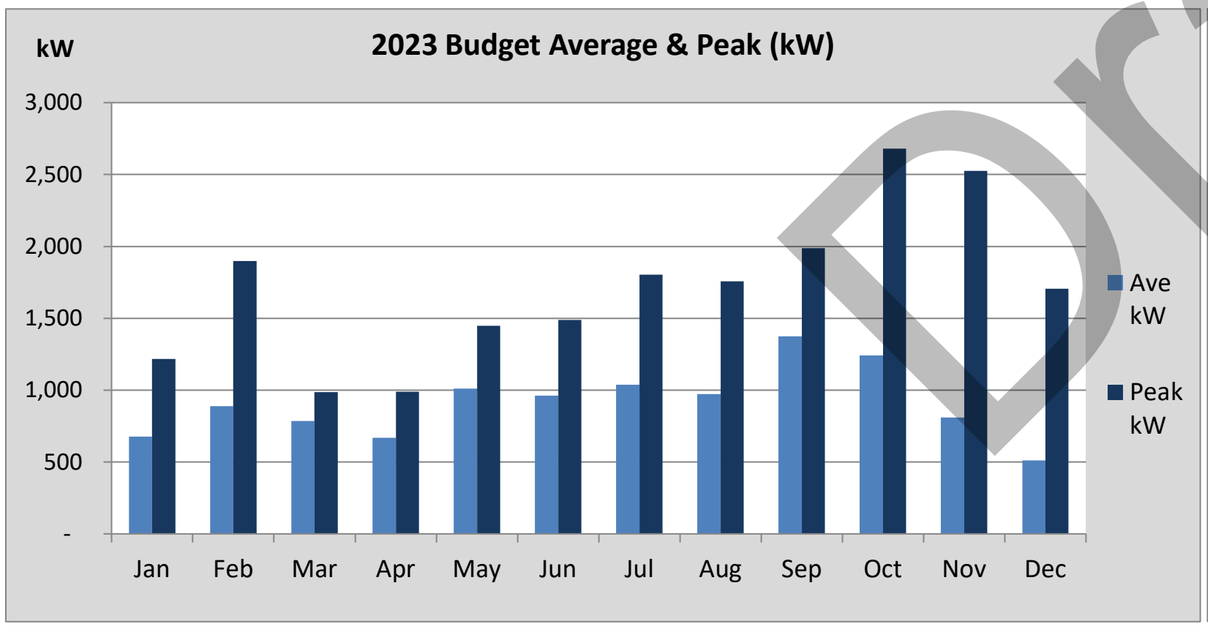
Power and Water Resources Pooling Authority

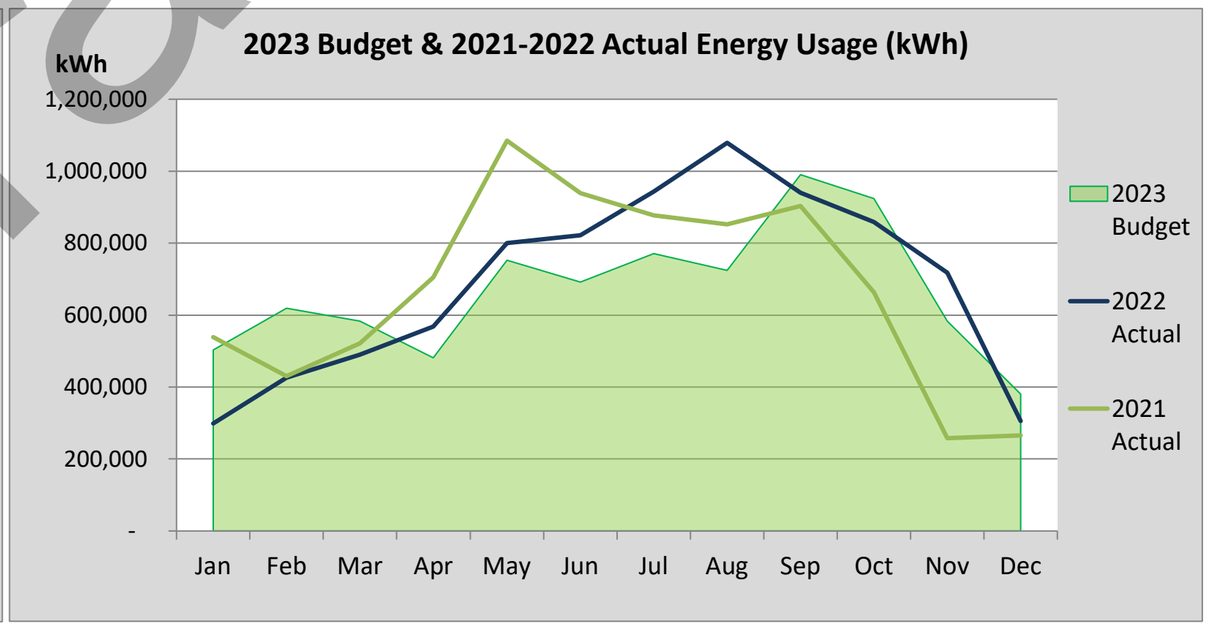
Energy Summary, Metered kWh

Zone 7

2023 Budget Summary - Dry

	2023 Budget			2022 Actual			2021 Actual			Year-Over-Year Comparison, 2023 v 2022		
	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh	Peak kW	Ave kW	Load kWh
Jan	1,217	676	502,819	1,414	402	298,738	1,363	724	538,354	-14%	68%	68%
Feb	1,898	889	618,532	1,356	612	425,776	1,368	618	430,359	40%	45%	45%
Mar	985	784	583,602	1,449	659	490,312	961	701	521,005	-32%	19%	19%
Apr	988	668	481,068	1,460	790	568,573	1,492	979	705,098	-32%	-15%	-15%
May	1,449	1,012	752,741	1,361	1,076	800,222	2,207	1,458	1,084,862	6%	-6%	-6%
Jun	1,489	961	691,763	1,421	1,141	821,756	2,227	1,304	939,219	5%	-16%	-16%
Jul	1,804	1,037	771,183	1,755	1,268	943,533	2,194	1,179	876,924	3%	-18%	-18%
Aug	1,758	973	724,189	1,875	1,450	1,078,852	2,342	1,146	852,728	-6%	-33%	-33%
Sep	1,987	1,375	990,259	1,987	1,305	939,942	1,905	1,254	902,716	0%	5%	5%
Oct	2,679	1,242	923,730	1,866	1,155	859,055	1,962	892	663,318	44%	8%	8%
Nov	2,527	810	583,277	1,286	997	717,535	1,492	358	257,923	96%	-19%	-19%
Dec	1,706	512	380,829	870	568	305,200	1,369	357	265,357	96%	-10%	25%
2023			8,003,990			8,249,494			8,037,861			-3%





Draft

Power and Water Resources Pooling Authority

2023 Budget & 2022 Actual Annual Cost Summary

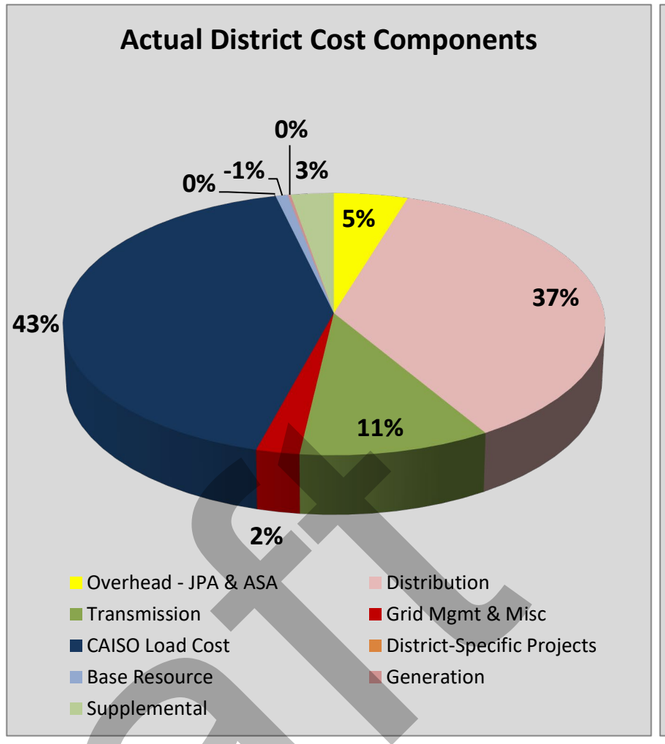
Table 1. District Cost Components

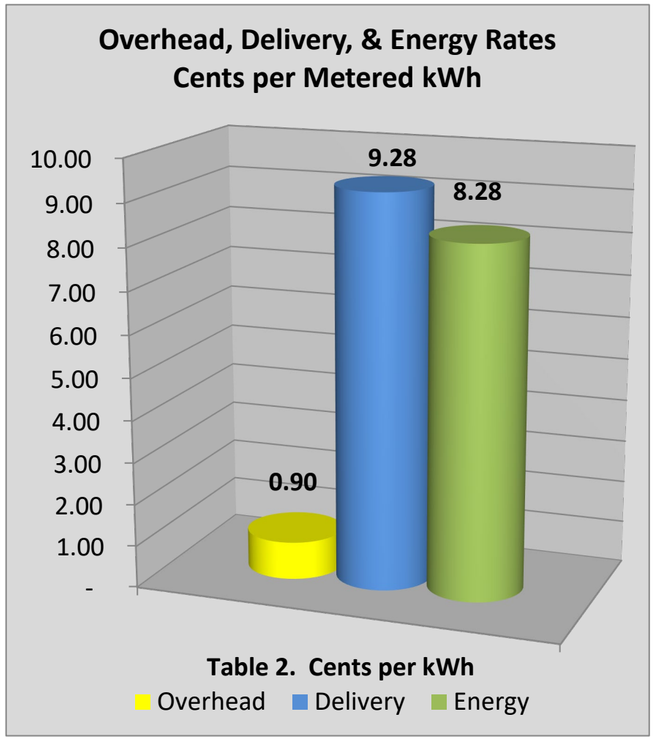
	2023 Budget	2022 Actual	Compare
Total Metered kWh	8,003,990	8,249,494	-3%
Overhead - JPA & ASA	$ 71,800	$ 59,243	21%
Distribution	$ 547,907	$ 395,610	38%
Transmission	$ 158,742	$ 147,418	8%
Grid Mgmt & Misc	$ 36,018	$ 36,588	-2%
CAISO Load Cost	$ 630,383	$ 596,733	6%
District-Specific Projects	$ -	$ -	0%
Base Resource	$ (11,818)	$ (1,360)	769%
Generation	$ 2,922	$ (3,648)	-180%
Supplemental	$ 41,529	$ 30,808	35%
Total Costs	$ 1,477,482	$ 1,261,390	17%

2% Loss Adjustment

Table 2. Cents per kWh

	2023 Budget	2022 Actual	Compare
Total Metered kWh	8,003,990	8,249,494	-3%
Overhead	0.90	0.72	25%
Delivery	9.28	7.03	32%
Energy	8.28	7.55	10%
Total Costs	18.46	15.29	21%





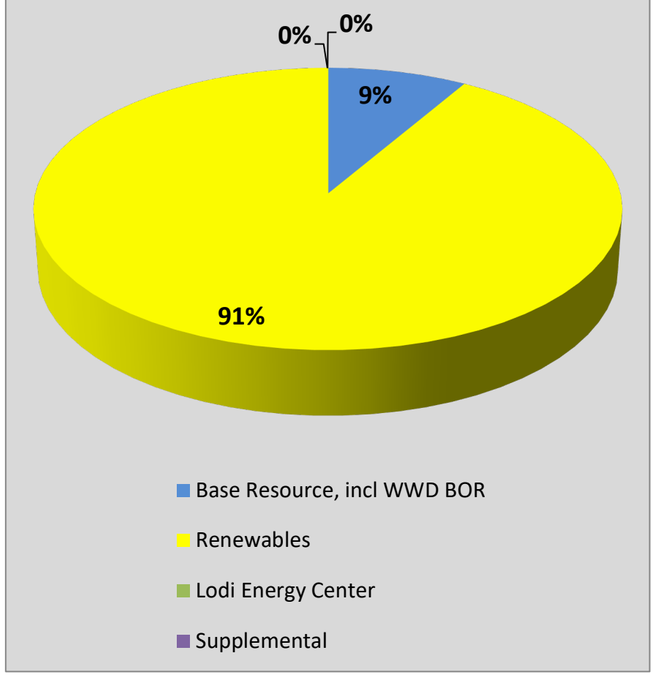
2023 Annual Resource Portfolio

Table 3. Load & Portfolio Resources (Energy Cost Only)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	8,157,477	$ 630,383	7.73		-	$ 630,383	7.73
Distirct Specific - Warm Springs	-	$ -	-	$ -	-	$ -	-
District Specific - BOR Payback	-	$ -	-	$ -	-	$ -	-
Base Resource	231,511	$ 11,349	4.90	$ (23,337)	(10.08)	$ (11,988)	(5.18)
Base Resource Pooling	-	$ -	-	$ -	-	$ -	-
Generation - LEC	-	$ -	-	$ -	-	$ -	-
Generation - Astoria	453,713	$ 28,584	6.30	$ (19,659)	(4.33)	$ 8,925	1.97
Generation - Whitney	577,632	$ 33,936	5.88	$ (23,912)	(4.14)	$ 10,024	1.74
Generation - Slate PV	1,458,950	$ 39,114	2.68	$ (43,052)	(2.95)	$ (3,938)	(0.27)
Generation - Slate BESS	-	$ -	-	$ (13,595)	-	$ (13,595)	-
Supplemental - Fixed	-	$ -	-	$ -	-	$ -	-
Supplemental - Variable	-	$ -	-	$ -	-	$ -	-
CAISO Real-time Imbalance	5,435,670						
Total Loss Adjusted kWh	8,157,477	$ 743,367	9.11	$ (123,555)	(1.51)	$ 619,812	7.60

Table 4. Resource Summary (Total Cost with Overheads)

	Energy kWh	Costs	Cents/kWh	Resource Credits	Cents/kWh	Net Cost/Credit	Cents/kWh
CAISO Load	8,157,477	$ 630,383	7.73			$ 630,383	7.73
Base Resource, incl WWD BOR	231,511	$ 11,519	4.98	$ (23,337)	(10.08)	$ (11,818)	(5.10)
Renewables	2,490,296	$ 103,140	4.14	$ (86,623)	(3.48)	$ 16,517	0.66
Lodi Energy Center	-	$ -	-	$ -	-	$ -	-
Supplemental	-	$ -	-	$ -	-	$ -	-
RA & RECs		$ 41,529				$ 41,529	
Resource Subtotal	2,721,807	$ 156,187	5.74	$ (109,960)	(4.04)	$ 46,228	1.70
Net Portfolio	8,157,477					$ 676,611	8.29
Percent of Load Covered	*33%*						



Draft

ATTACHMENT B
OPERATING COST LINE ITEM DEFINITIONS

Draft

OPERATING COST LINE ITEM DEFINITIONS

JOINT POWER AUTHORITY

General Management

- Board Meetings and Ad-hoc committees
- Overhead Budget & Tracking
- Strategic Policy Development

General Counsel

- Conflict of Interest: compliance assessments
- JPA/ASA/CSA interpretation and implementation
- Board Meetings: Brown Act, Closed Session, Voting
- Strategic Counsel – PWRPA Members

Treasurer / Auditor / Office Supplies (20 % of Actual time)

- Accounts Payable (AP) / Accounts Receivable (AR), Financial Reporting
- Annual Audits
- PWRPA Phone line

Misc.

- Web-conferencing, Office Supplies, Insurance
- Memberships

AGGREGATED SERVICE AGREEMENT

Utility Management

- Treasurer: (AP/AR), Financial Reporting
    - Includes ACES credit services of monitoring financial viability of power vendors. Credit exposure monitoring includes credit risk reporting, margining, collateral management, credit limits, etc.
- Annual Cost Reconciliation and Audits
- Power Budget and Pro Forma Rates
- Planning and Vendor Coordination
- Program Development and Compliance (P3, RPS, RA, etc.)
- Board Matters (resolutions/agreements)
- Insurance

Utility Counsel

- Compliance, Serve as Compliance Officer
- Legislative and Regulatory support
- FERC counsel retainer

Utility Operations - Fixed

- Scheduling Coordinator – schedule of load and resources into the California grid. Real-time-time desk for outage management and other compliance.

Draft

- IT Services - MCG platform subscription; EAS, HDS, and IAM. Platform Maintenance, Server rental, and basic data flow management.
    - Platform maintenance includes login issues, GUI/module maintenance, IIS, HIT, CF, XML, web code handling, error processing, and bug research.
    - Data flow management includes maintaining all the data feeds in SAMBA such as with CAISO OASIS, APM and Trimark. It also includes time to update and maintain the current reports and algorithms.
- Regulatory Reporting
    - California Energy Commission reports
    - WREGIS acceptance/retirement
    - CAISO reports
    - California Air Resources Board reports
    - Etc.
- Risk Management
    - Includes ACES Trading Controls function to have deal capture and validation, limits/policy compliance monitoring, and mark to market valuation.
- Power Invoices and Rates Analysis
- Operations and Pre-Reconciliation reports
- Settlements; invoices and resource data
    - This includes RBI time to perform all CAISO and bilateral settlements as well as web portal maintenance of all reports sent to MCG:IAM.

Utility Operations - Variable

- Load Profiling
- Daily Portfolio Optimization: Load and Resource Shaping
- Congestion Revenue Requirement scheduling
- Short-term Portfolio Planning (Net Short monthly reports and forward contract purchases)
- Software costs related to portfolio management and load forecasting functions.

Metering

- Meter Readings
- Cell Charges
- Data Analysis
- Software costs related to meter data management functions.

Special Projects

- Power Special projects have project agreements or are District Specific efforts.
- Power Resources will carry their overheads
    - Scheduling, Portfolio Management and Settlements
    - Data Management
    - Monthly invoicing, meetings, reporting
    - Software costs related to the scheduling and settlement functions
- WDT3 legal effort

Draft

Exhibit B to Resolution 22-12-19

PWRPA 2023

AGGREGATE AND INDIVIDUAL CUSTOMER PRO FORMA RATES AND BUDGET BREAKOUTS

December 2, 2022

Draft

Prepared for:

POWER AND WATER RESOURCES
Integrating Critical Resources
PWRPA
POOLING AUTHORITY

Prepared by:

RBI ROBERTSON - BRYAN, INC.
Solutions for Progress

TABLE OF CONTENTS

EXECUTIVE SUMMARY 1

COST ALLOCATIONS 2

Overhead Charges 2

Delivery Charges 2

Energy Charges 3

APPLICATION OF RATES 4

Hourly Time-of-Use 4

Rate Adjustments 4

Invoice Calendar 4

DESCRIPTION OF APPENDICES 6

LIST OF APPENDICES

ATTACHMENT A – SUMMARY OF CUSTOMER RATES

ATTACHMENT B – MINIMUM ENERGY COLLECTION

ATTACHMENT C – SUMMARY OF FIXED SUPPLEMENTAL COSTS

ATTACHMENT D – PWRPA & DISTRICT CASH FLOW

Draft

EXECUTIVE SUMMARY

The attached tables provide the proposed 2023 Pro Forma Rates for the Power and Water Resources Pooling Authority (PWRPA or Pooling Authority). PWRPA 2023 Budget supporting these rates is under separate cover. Pro forma rates are the basis for revenue collection to fund ongoing operations of PWRPA to facilitate customers' power supply for their water operations. Annual reconciliation at the end of 2023 reconciles allocated costs with collected revenue to determine any year-end true-up.

The attached provides rates for dry and average conditions only, as requested by the PWRPA Board of Directors. As is standard practice, rates are implemented in January, and are routinely monitored, primarily using the monthly pre-reconciliation reports. PWRPA composite rates vary by year-type and across customers due to availability of Base Resource, share of generation asset contracts, and varying delivery configurations. Attachment A summarizes budgets and composite rates for all customers.

The attached rates are in effect the whole year, however, are monitored no less than quarterly for potential change by the Board.

Draft

COST ALLOCATIONS

The Aggregation Services Agreement is the basis for cost reconciliation and thus also the basis for allocating costs in the pro forma rates. The District rates are derived by estimated hourly activity and rolled up into monthly averages. The actual reconciliation employs hourly analysis that will precisely account for over- and under-collection by each participant.

Overhead Charges

There are two types of overhead charges: customer charges and meter charges.

There are two **customer charges** applied to customers: Joint Power Authority (JPA) and Aggregated Service Agreement (ASA). JPA charges are allocated on a seat at the table, currently 14 members. ASA charges are split by voting share for general planning and operations and actual energy for current year portfolio scheduling and management.

Voting Share is a bicameral allocation of PWRPA participants and five-year average energy. There are 14 Districts in PWRPA in terms of seat at the table portion of the voting share calculation. The five-year average energy utilizes 2018-2022 metered demand. The 2022 data is largely complete but not determined final, therefore this allocation can change in the final reconciliation.

Meter charges include the cost of communicating to, reading, and reporting of meter data. The cost allocation is percent of active meters each month.

Delivery Charges

There are three categories of delivery charges: CAISO administration, transmission, and distribution. The rates shown are composites of energy and demand components that will pass through directly from the vendors.

CAISO administration charges include grid management and ancillary service charges from the CAISO. They are allocated to customers according to total metered energy (kWh). Customers may have different CAISO administration rates because some costs are reduced by respective share of Base Resource supplied.

Transmission Access Charge (TAC) have two rates, one for high-voltage and one for low. All energy is subject to the high-voltage rate and about 90 percent of PWRPA's load is also subject to the low-voltage tariff. Metered energy for these charges incur Distribution Loss Factors, PWRPA invoices on the same basis.

Wholesale Distribution Charge (WDT): PWRPA passes through the costs of distribution as owed to PG&E. Effective June 2021 is PG&E WDT3 rate design which is a significant change from WDT2 in that it is an annual formula rate (as opposed to a stated rate). PGE determines their annual Distribution Revenue Requirement (DRR) and uses prior year peak data to allocate costs between wholesale and retail customers. Also included in the annual formula rate is a true

Draft

up (or true down) for two years prior where PGE updates the DRR as well as the actual meter peak data. The annual PGE rates are applied to each meter's 30-minute peak usage for the month.

Cost of Ownership (CoO) charges are due PG&E for interconnection service. Points of Delivery (POD) taking service under the PWRPA-PGE WDT Settlement Agreement are Primary voltage and pay the primary service rate plus a monthly lump sum CoO. Additionally, under WAPA's Settlement Agreements 17, some secondary accounts elect to take Primary rate treatment and pay a CoO amount. The monthly CoO amount is specific to a POD and will be passed through accordingly.

Energy Charges

Energy rates collect the revenue required to fund all expected load, Base Resource, renewable, conventional, supplemental power, resource adequacy, and energy attribute costs. There are two types of energy collections: Time-of-Use and Fixed Power.

The **Time-of-Use** rate takes the total load cost from the CAISO, vendor costs for each portfolio resource, and the corresponding CAISO revenue for generation resources. This total portfolio cost is divided by the annual metered energy to derive the time-of-use rate.

PWRPA employs a **minimum energy collection** that was developed and first utilized in 2010. This element is designed to firm revenue collection when demands do not materialize as expected to allow the energy rates to collect fixed energy cost. On a monthly and customer-specific basis, when the total energy rate collection amount does not meet the customer's set minimum, PWRPA adds a lump sum additional amount to the invoice to bring the customer's energy rate collection up to the target.

For the minimum energy collection, the protocol is:

1. Invoiced energy must meet at least 90 percent of the projected energy. PWRPA sets the projected energy based on the monthly load for each customer used in the budget adopted by the Board.

2. If the invoiced energy does not meet the energy threshold, the aggregate of the on-peak and off-peak energy rates must meet 50 percent of the customer's portfolio of energy resources. The allocated dollar amount is the customer's monthly allocation matrix percentage times portfolio costs estimated at time of budget and pro forma rates adoption.

3. If the energy and dollar thresholds are not met, the lump sum difference to bring the invoice aggregate energy dollars up to the dollar threshold will be added to the invoice.

The energy and dollar threshold by customer is summarized in Attachment B.

Draft

The **Fixed Power** element includes fixed costs associated with power resources. Costs include Lodi Energy Center (LEC) debt service, Resource Adequacy contracts, Slate Battery, REC agreements, carbon credits, and overheads for all Special Projects.

PWRPA is responsible for covering its share of Resource Adequacy (RA) capacity. Because CAISO allocations are known and largely procured in advance of the start of the year, the charges are in the Fixed Power category. PWRPA allocates the obligation to participants based on 2022 estimated average peak demands less applicable resource shares. 2023 continues 2022's uncertainty about upcoming regulations and counting methods for supply. These market forces are spiking RA prices higher than the CAISO's soft offer cap. The PWRPA cost therefore is a combination of contracted RA and contingency for the exposed position.

Energy attribute contracts are also included in the Fixed Power charge. For 2023, these include the charges for District Projects that produce Renewable Energy Credits that PWRPA has title to as well as estimated costs for Districts who require enough carbon offsets to be 100 percent carbon neutral.

Overheads include activity for scheduling resources with the CAISO, organizing schedules in portfolio optimization, regulatory reporting, invoice settlements, and monthly meetings. District detail of Fixed Supplemental items is in Attachment C.

APPLICATION OF RATES

Hourly Time-of-Use

As described above, the hourly rates collect revenue from expected energy use. PWRPA will use a single time-of-use rate for energy due to most of the power portfolio being in firm contracts and less exposure to the supplemental market.

Rate Adjustments

PWRPA systematically reviews on-going revenue and costs to assess the adequacy of its rates to fund projected operations. This happens no less than quarterly. On approval of the Board of Directors, PWRPA can adjust rates provided it supplies the participants' 15-day notice of any adjustment.

Invoice Calendar

Invoices are generated for calendar months and are distributed on the closest business day to the 1st of the following month. The invoices are distributed by Robertson-Bryan, Inc. (RBI) and all payments and record keeping is done by the PWRPA Treasurer.

Continued in 2023 will be automatic Prior Period adjustments unless a District has specifically opted out. The protocol uses a two-month lag to comply with the close of the CAISO meter calendar (on which meter reads are deemed final). For example, on a March service invoice, any

Draft

necessary adjustments for January service month will be included. The Participant will receive the service month invoice which will include a line item for a lump sum collection for the prior period adjustment along with an excel file with a summary of the adjustment. Districts can contact RBI for questions on this process or to change their opt in/out status.

Draft

DESCRIPTION OF APPENDICES

Attachment A is the pro forma rate sheet for 2023.

Attachment B displays in tabular form the energy and dollar thresholds for the minimum collection invoice item.

Attachment C is a summary of the items included in the Fixed Supplemental category, organized by District.

Attachment D provides the energy use summary and cash flow estimate for PWRPA and for each customer. Included is a target reserve balance of 150 percent of next months' expenses and a starting cash position of $10 million for PWRPA. Each customer's starting cash position is based on their Exhibit B share of the $10 million starting target.

Draft

ATTACHMENT A
SUMMARY OF CUSTOMER RATES

Draft

Summary of Customer Rates
2023 Average Pro Forma Rates

		AEWSD	BCID	CWD	GCID	JID	LTRID	PPCGID	RD108	SCVWD	SCWA	WSID	WWD	BBWID	Z7	PWRPA
2023 Proforma Rates																
	Public Purpose Program (of invoiced revenue)	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	
	Customer Charge -JPA (per month)	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	
	Customer Charge - ASA (per month)	$ 22,463.89	$ 7,006.29	$ 5,893.11	$ 5,419.34	$ 4,346.05	$ 5,232.08	$ 4,145.83	$ 4,270.36	$ 7,366.01	$ 9,884.51	$ 6,766.60	$ 28,436.15	$ 4,123.62	$ 4,887.51	
	Meter Charge (per meter)	$ 93.75	$ 86.06	$ 112.73	$ 110.42	$ 98.56	$ 177.73	$ 102.73	$ 224.95	$ 99.03	$ 93.15	$ 169.40	$ 87.34	$ 102.73	$ 164.40	
	DELIVERY															
	CAISO															
	Grid Management(per kWh)	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	$ 0.0040	
	Transmission - High (per DLF kWh)	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	
	Transmission - Low (per DLF kWh)	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	
1	**PG&E Distribution Tariffs**															
	SA56 Primary (per KW)				$ 25.5055				$ 25.5055	$ 25.5055					$ 25.5055	
	SA17: Primary (per KW)	$ 16.0507		$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507		
	SA17: Secondary (per KW)	$ 30.0033		$ 30.0033	$ 30.0033				$ 30.0033	$ 30.0033	$ 30.0033		$ 30.0033			
	SA17 Secondary (per KWh)										$ 0.0417		$ 0.0417			
2	**Cost of Ownership (per District)**	$ 14,580.00	$ -	$ 1,011.06	$ 800.42	$ -	$ 900.00	$ -	$ 277.79	$ 312.11	$ 2,340.00	$ -	$ 46,311.12	$ -	$ 884.06	
	ENERGY															
3	**Fixed Power (per month)**	$ 56,612.30	$ 27,570.28	$ 18,977.98	$ 8,456.06	$ 3,576.90	$ 14,843.53	$ 3,168.28	$ 3,370.26	$ 29,736.80	$ 26,434.69	$ 16,405.87	$ 113,547.45	$ 5,376.89	$ 3,600.34	
	Energy Use, All Hours (per (kWh)	$ 0.0684	$ 0.0613	$ 0.0689	$ 0.0709	$ 0.0561	$ 0.0698	$ 0.0791	$ 0.0782	$ 0.0719	$ 0.0748	$ 0.0601	$ 0.0663	$ 0.0636	$ 0.0685	
4	**Minimum Collection (per month)**															
5	**Revenue Requirement**	$ 17,742,161	$ 2,633,761	$ 2,619,117	$ 1,729,602	$ 785,517	$ 1,870,577	$ 571,056	$ 633,350	$ 3,670,367	$ 5,487,509	$ 2,562,787	$ 30,829,873	$ 530,890	$ 1,620,267	$ 73,286,833
	Energy Planned (kWh)	101,524,239	21,135,000	14,940,674	11,412,757	4,620,700	9,756,363	3,283,223	2,685,546	20,606,847	35,628,819	18,580,175	150,212,000	2,630,701	7,654,299	404,671,344
	Composite Rate	$ 0.1748	$ 0.1246	$ 0.1753	$ 0.1515	$ 0.1700	$ 0.1917	$ 0.1739	$ 0.2358	$ 0.1781	$ 0.1540	$ 0.1379	$ 0.2052	$ 0.2018	$ 0.2117	$ 0.1811

* All energy based charges are invoiced on metered kWh, except for Transmission. Transmission uses metered kWh adjusted for Distribution Loss Factors.

1 Demand charges are based on monthly meter peak and the current WDT3 published rate.

2 Cost of Ownership charges are directly assigned to each applicable meter. These can change during the year for WWD.

3 Fixed Power items include Lodi Energy Center Debt service, Resource Adequacy, Slate Battery, and Special Project overheads (BR, LEC, WSH, solar, etc).

4 Minimum Collection - A monthly minimum amount the all-hours energy rate must collect to ensure at least 50% of a District's fixed contract requirement is met. If a District aggregate total of the revenue collected by the energy rate, the difference will be added as a lump sum to the invoice. See Attachment B of the Rates Report for monthly detail.

5 Revenue Requirement includes P3 funds.

Draft

Summary of Customer Rates
2023 Dry Pro Forma Rates

		AEWSD	BCID	CWD	GCID	JID	LTRID	PPCGID	RD108	SCVWD	SCWA	WSID	WWD	BBWID	Z7	PWRPA
2023 Proforma Rates																
	Public Purpose Program (of invoiced revenue)	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	2.85%	
	Customer Charge -JPA (per month)	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	$ 697.99	
	Customer Charge - ASA (per month)	$ 22,864.08	$ 6,816.18	$ 5,611.42	$ 5,316.88	$ 4,331.00	$ 5,149.03	$ 4,082.99	$ 4,221.42	$ 7,281.09	$ 9,738.30	$ 6,731.06	$ 29,132.44	$ 4,110.45	$ 4,855.01	
	Meter Charge (per meter)	$ 93.75	$ 86.06	$ 112.73	$ 110.42	$ 98.56	$ 177.73	$ 102.73	$ 224.95	$ 99.03	$ 93.15	$ 169.40	$ 87.34	$ 102.73	$ 164.40	
	DELIVERY															
	CAISO															
	Grid Management(per kWh)	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	$ 0.0045	
	Transmission - High (per DLF kWh)	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	$ 0.0174	
	Transmission - Low (per DLF kWh)	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	$ 0.0184	
1	**PG&E Distribution Tariffs**															
	SA56 Primary (per KW)				$ 25.5055				$ 25.5055	$ 25.5055					$ 25.5055	
	SA17: Primary (per KW)	$ 16.0507		$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507	$ 16.0507		
	SA17: Secondary (per KW)	$ 30.0033		$ 30.0033	$ 30.0033				$ 30.0033	$ 30.0033	$ 30.0033		$ 30.0033			
	SA17 Secondary (per KWh)										$ 0.0417		$ 0.0417			
2	**Cost of Ownership (per District)**	$ 14,580.00	$ -	$ 1,011.06	$ 800.42	$ -	$ 900.00	$ -	$ 277.79	$ 312.11	$ 2,340.00	$ -	$ 47,258.57	$ -	$ 884.06	
	ENERGY															
3	**Fixed Power (per month)**	$ 63,312.30	$ 40,970.28	$ 31,707.98	$ 8,456.06	$ 3,576.90	$ 14,843.53	$ 3,168.28	$ 5,045.26	$ 33,086.80	$ 26,434.69	$ 23,105.87	$ 134,987.45	$ 6,381.89	$ 3,600.34	
	Energy Use, All Hours (per (kWh)	$ 0.0708	$ 0.0587	$ 0.0654	$ 0.0670	$ 0.0561	$ 0.0769	$ 0.0604	$ 0.0604	$ 0.0749	$ 0.0776	$ 0.0565	$ 0.0666	$ 0.0381	$ 0.0774	
4	**Minimum Collection (per month)**															
5	**Revenue Requirement**	$ 22,036,722	$ 2,579,710	$ 1,999,394	$ 1,591,810	$ 836,235	$ 1,859,414	$ 371,695	$ 503,489	$ 3,844,264	$ 5,756,197	$ 2,762,272	$ 38,359,149	$ 460,213	$ 1,519,590	$ 84,480,152
	Energy Planned (kWh)	128,237,511	19,435,000	9,827,257	10,500,000	4,953,181	9,096,512	2,134,646	1,811,473	21,616,781	37,391,095	20,580,095	192,502,804	2,697,758	8,003,990	468,788,103
	Composite Rate	$ 0.1718	$ 0.1327	$ 0.2035	$ 0.1516	$ 0.1688	$ 0.2044	$ 0.1741	$ 0.2779	$ 0.1778	$ 0.1539	$ 0.1342	$ 0.1993	$ 0.1706	$ 0.1899	$ 0.1802

* All energy based charges are invoiced on metered kWh, except for Transmission. Transmission uses metered kWh adjusted for Distribution Loss Factors.

1 Demand charges are based on monthly meter peak and the current WDT3 published rate.

2 Cost of Ownership charges are directly assigned to each applicable meter. These can change during the year for WWD.

3 Fixed Power items include Lodi Energy Center Debt service, Resource Adequacy, Slate Battery, and Special Project overheads (BR, LEC, WSH, solar, etc).

4 Minimum Collection - A monthly minimum amount the all-hours energy rate must collect to ensure at least 50% of a District's fixed contract requirement is met. If a District aggregate total of the revenue collected by the energy rate, the difference will be added as a lump sum to the invoice. See Attachment B of the Rates Report for monthly detail.

5 Revenue Requirement includes P3 funds.

Draft

ATTACHMENT B
MINIMUM ENERGY COLLECTION

Draft

2023 Minimum Energy Collection

The minimum energy collection ensures that a portion of the fixed obligations by Disrict are collected each month. First the actual metered energy is compared to the budget energy.
As long as the actual metered energy is more than 90 percent of the budget energy, no minimum energy collection is assessed.

If the actual metered energy is lower than the budget energy, then check the monthly energy dollars (energy times time-of-use rates) against the minimum requirement.

If the energy collection is lower than the requirement, the minimum collection lump sum is applied to the invoice in lieu of the lower calculated energy collection

The minimum requirement is set at 50 percent of the fixed commitments for each District, summarized in the following table.

50 Percent of Fixed Contract Allocation (Total Dollars-Average Conditions)													
District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Arvin-Edison	$ 89,143	$ 83,585	$ 112,447	$ 95,932	$ 138,855	$ 143,059	$ 168,440	$ 163,270	$ 145,650	$ 120,409	$ 93,132	$ 88,454	$ 1,442,377
Banta-Carbona	$ 19,493	$ 14,392	$ 16,546	$ 7,654	$ 18,727	$ 18,739	$ 28,426	$ 28,344	$ 26,002	$ 22,002	$ 18,778	$ 20,157	$ 239,260
Cawelo	$ 23,387	$ 20,767	$ 27,070	$ 21,173	$ 32,738	$ 33,480	$ 41,698	$ 40,687	$ 36,498	$ 30,259	$ 23,788	$ 23,456	$ 355,001
Glenn-Colusa	$ 13,048	$ 10,424	$ 12,790	$ 8,032	$ 15,011	$ 15,254	$ 20,644	$ 20,345	$ 18,494	$ 15,545	$ 12,895	$ 13,274	$ 175,754
James	$ 8,442	$ 5,926	$ 6,608	$ 2,456	$ 7,304	$ 7,289	$ 11,556	$ 11,572	$ 10,701	$ 9,127	$ 8,015	$ 8,742	$ 97,738
Lower Tule	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Princeton	$ 9,017	$ 6,352	$ 7,119	$ 2,740	$ 7,877	$ 7,871	$ 12,372	$ 12,378	$ 11,443	$ 9,757	$ 8,560	$ 9,322	$ 104,808
RD108	$ 5,391	$ 4,330	$ 5,231	$ 3,118	$ 6,216	$ 6,292	$ 8,704	$ 8,604	$ 7,803	$ 6,556	$ 5,415	$ 5,552	$ 73,211
Santa Clara	$ 18,686	$ 16,176	$ 20,685	$ 15,200	$ 25,068	$ 25,622	$ 32,529	$ 31,833	$ 28,637	$ 23,866	$ 19,094	$ 18,900	$ 276,296
Sonoma	$ 16,285	$ 20,972	$ 31,666	$ 35,175	$ 42,139	$ 44,061	$ 43,957	$ 41,667	$ 36,055	$ 29,097	$ 19,926	$ 15,458	$ 376,459
West Stan	$ 12,334	$ 10,004	$ 12,221	$ 7,654	$ 14,397	$ 14,548	$ 20,054	$ 19,801	$ 17,938	$ 15,007	$ 12,249	$ 12,637	$ 168,844
Westlands	$ 87,425	$ 74,240	$ 95,035	$ 69,509	$ 113,984	$ 116,754	$ 147,554	$ 144,280	$ 130,233	$ 108,839	$ 88,122	$ 87,854	$ 1,263,827
BB-WID	$ 8,180	$ 5,379	$ 5,654	$ 1,145	$ 5,985	$ 5,884	$ 10,408	$ 10,521	$ 9,818	$ 8,434	$ 7,609	$ 8,544	$ 87,561
Zone 7	$ 2,225	$ 2,843	$ 4,307	$ 4,815	$ 5,664	$ 5,913	$ 5,921	$ 5,611	$ 4,859	$ 3,909	$ 2,654	$ 2,095	$ 50,817
PWRPA	**$ 313,056**	**$ 275,389**	**$ 357,380**	**$ 274,602**	**$ 433,964**	**$ 444,765**	**$ 552,264**	**$ 538,915**	**$ 484,131**	**$ 402,806**	**$ 320,236**	**$ 314,447**	**$ 4,711,954**

Notes:

Fixed Commitment dollars include:

- Lodi Energy Center Energy (no debt service)
- Warm Springs Hydro
- Solar Contracts (Whitney Point, Astoria, SCV Solar, Slate PV)

90 Percent of Energy Forecast (kWh) - Average													
District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Arvin-Edison	1,226,431	5,972,977	6,203,383	8,154,319	10,541,021	13,374,717	12,562,679	11,700,718	9,134,219	7,655,897	3,728,185	1,117,271	91,371,815
Banta-Carbona	1,530,000	1,530,000	2,520,000	2,520,000	2,430,000	2,520,000	1,800,000	1,800,000	1,710,000	450,000	153,000	58,500	19,021,500
Cawelo	96,929	623,990	394,090	558,980	1,621,518	2,346,514	2,912,855	2,539,247	1,189,880	766,103	252,366	144,135	13,446,606
Glenn-Colusa	105,599	79,778	100,321	506,057	1,770,068	1,950,356	2,295,255	1,578,228	414,293	608,214	519,752	343,558	10,271,481
James	102,600	273,510	397,980	442,080	580,770	681,210	548,010	475,740	373,230	233,370	44,820	5,310	4,158,630
Lower Tule	319,507	567,336	435,304	458,576	851,547	1,104,575	1,250,966	1,263,056	919,643	741,008	488,135	381,075	8,780,727
Princeton	5,422	3,159	1,159	140,019	453,751	641,449	656,341	309,886	41,517	553,301	142,542	6,354	2,954,901
RD108	45,230	30,012	54,894	107,704	317,546	411,020	541,334	437,148	147,055	100,452	135,263	89,332	2,416,992
Santa Clara	1,173,137	1,159,587	1,178,889	1,288,316	1,667,025	1,881,272	2,018,165	2,088,108	1,895,974	1,694,017	1,353,232	1,148,439	18,546,162
Sonoma	2,036,815	1,928,930	2,144,850	2,357,618	3,041,182	3,357,587	3,475,997	3,378,464	3,132,581	2,802,977	2,269,475	2,139,463	32,065,938
West Stan	224,757	582,720	953,970	1,942,210	2,577,475	2,204,073	2,386,032	1,860,418	1,238,156	1,228,120	747,571	776,654	16,722,158
Westlands	1,027,800	2,417,400	3,591,900	11,078,100	22,946,400	26,309,700	23,708,700	16,875,000	10,192,500	9,245,700	4,050,900	3,746,700	135,190,800
BB-WID	13,651	10,391	48,568	246,285	372,982	421,427	406,257	332,790	264,278	203,383	27,568	20,049	2,367,631
Zone 7	548,481	522,472	491,563	514,682	579,707	498,580	574,488	631,260	757,723	723,610	666,171	380,133	6,888,869
PWRPA	**8,456,359**	**15,702,261**	**18,516,872**	**30,314,946**	**49,750,992**	**57,702,480**	**55,137,080**	**45,270,064**	**31,411,049**	**27,006,151**	**14,578,981**	**10,356,974**	**364,204,210**

ATTACHMENT C
FIXED SUPPLEMENTAL DETAIL

Draft

2023 Fixed Power Category Summary

Items included in the Fixed Power cost are considered an absolute amount the Authority needs to collect. Rather than include them in the time of use rates and potentially be underfunded, the Board agreed to collect these charges as a monthly lump sum. Items included here are:

- Lodi Energy Center (LEC) debt service. The rest of the variable, gas, greenhouse gas allowance, and other costs are melded into the cost of power in the time of use rates.
- WAPA overhead. These costs include scheduling coordinator charges, attending monthly CVP meetings, and Integrated Resource Plan preparation.
- Slate Battery is the fixed cost for contract share of the Battery Storage portion of the Slate Solar facility.
- SP overhead is overhead for all Special Projects (SP). They include Astoria, Whitney Point, Warm Springs, WWD BOR, Slate and LEC. Staff efforts here include attending monthly Generator project meetings, Scheduling Coordinator charges, and other various regulatory reporting needs.
- RA Capacity. This is the Resource Adequacy contracts PWRPA purchased in 2022 to fulfill 2023 CAISO obligations. RA contracts are allocated on a pro rata share of PWRPA's peak demand each month. Districts get credit for resource shares that bring RA value.
- RECs / Carbon. This is the estimated dollars for District project RECs, 3rd party procurement, and Carbon attribute transfers.

Below is a summary table by District of the total charges:

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
PWRPA	**LEC - Debt Service**	$ 66,667	$ 66,667	$ 66,667	$ 66,667	$ 66,667	$ 66,667	$ 66,667	$ 66,667	$ 66,667	$ 66,667	$ 66,667	$ 66,667	$ 800,000
	WAPA - Overhead	$ 6,536	$ 6,536	$ 6,536	$ 6,536	$ 6,536	$ 6,536	$ 6,536	$ 6,536	$ 6,536	$ 6,536	$ 6,536	$ 6,536	$ 78,438
	Slate - Battery	$ 67,000	$ 67,000	$ 67,000	$ 67,000	$ 67,000	$ 67,000	$ 67,000	$ 67,000	$ 67,000	$ 67,000	$ 67,000	$ 67,000	$ 804,000
	SP - Overhead	$ 15,437	$ 15,437	$ 15,437	$ 15,437	$ 15,437	$ 15,437	$ 15,437	$ 15,437	$ 15,437	$ 15,437	$ 15,437	$ 15,437	$ 185,242
	RA Capacity	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 900,000
	RECs / Carbon	$ 101,038	$ 101,038	$ 101,038	$ 101,038	$ 101,038	$ 101,038	$ 101,038	$ 101,038	$ 101,038	$ 101,038	$ 101,038	$ 101,038	$ 1,212,452
	Total	$ 331,678	$ 331,678	$ 331,678	$ 331,678	$ 331,678	$ 331,678	$ 331,678	$ 331,678	$ 331,678	$ 331,678	$ 331,678	$ 331,678	$ 3,980,132

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
AEWSD	**LEC - Debt Service**	$ 15,773	$ 15,773	$ 15,773	$ 15,773	$ 15,773	$ 15,773	$ 15,773	$ 15,773	$ 15,773	$ 15,773	$ 15,773	$ 15,773	$ 189,271
	WAPA - Overhead	$ 1,895	$ 1,895	$ 1,895	$ 1,895	$ 1,895	$ 1,895	$ 1,895	$ 1,895	$ 1,895	$ 1,895	$ 1,895	$ 1,895	$ 22,738
	Slate - Battery	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 80,400
	SP - Overhead	$ 3,470	$ 3,470	$ 3,470	$ 3,470	$ 3,470	$ 3,470	$ 3,470	$ 3,470	$ 3,470	$ 3,470	$ 3,470	$ 3,470	$ 41,637
	RA Capacity	$ 29,681	$ 29,681	$ 29,681	$ 29,681	$ 29,681	$ 29,681	$ 29,681	$ 29,681	$ 29,681	$ 29,681	$ 29,681	$ 29,681	$ 356,170
	RECs / Carbon	$ (906)	$ (906)	$ (906)	$ (906)	$ (906)	$ (906)	$ (906)	$ (906)	$ (906)	$ (906)	$ (906)	$ (906)	$ (10,869)
	Total	$ 56,612	$ 56,612	$ 56,612	$ 56,612	$ 56,612	$ 56,612	$ 56,612	$ 56,612	$ 56,612	$ 56,612	$ 56,612	$ 56,612	$ 679,348

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
BBWID	**LEC - Debt Service**	$ 2,796	$ 2,796	$ 2,796	$ 2,796	$ 2,796	$ 2,796	$ 2,796	$ 2,796	$ 2,796	$ 2,796	$ 2,796	$ 2,796	$ 33,548
	WAPA - Overhead	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 1,516
	Slate - Battery	$ 1,005	$ 1,005	$ 1,005	$ 1,005	$ 1,005	$ 1,005	$ 1,005	$ 1,005	$ 1,005	$ 1,005	$ 1,005	$ 1,005	$ 12,060
	SP - Overhead	$ 966	$ 966	$ 966	$ 966	$ 966	$ 966	$ 966	$ 966	$ 966	$ 966	$ 966	$ 966	$ 11,587
	RA Capacity	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	RECs / Carbon	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 5,812
	Total	$ 5,377	$ 5,377	$ 5,377	$ 5,377	$ 5,377	$ 5,377	$ 5,377	$ 5,377	$ 5,377	$ 5,377	$ 5,377	$ 5,377	$ 64,523

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
BCID	**LEC - Debt Service**	$ 5,932	$ 5,932	$ 5,932	$ 5,932	$ 5,932	$ 5,932	$ 5,932	$ 5,932	$ 5,932	$ 5,932	$ 5,932	$ 5,932	$ 71,181
	WAPA - Overhead	$ 234	$ 234	$ 234	$ 234	$ 234	$ 234	$ 234	$ 234	$ 234	$ 234	$ 234	$ 234	$ 2,804
	Slate - Battery	$ 13,400	$ 13,400	$ 13,400	$ 13,400	$ 13,400	$ 13,400	$ 13,400	$ 13,400	$ 13,400	$ 13,400	$ 13,400	$ 13,400	$ 160,800
	SP - Overhead	$ 985	$ 985	$ 985	$ 985	$ 985	$ 985	$ 985	$ 985	$ 985	$ 985	$ 985	$ 985	$ 11,819
	RA Capacity	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	RECs / Carbon	$ 7,020	$ 7,020	$ 7,020	$ 7,020	$ 7,020	$ 7,020	$ 7,020	$ 7,020	$ 7,020	$ 7,020	$ 7,020	$ 7,020	$ 84,240
	Total	$ 27,570	$ 27,570	$ 27,570	$ 27,570	$ 27,570	$ 27,570	$ 27,570	$ 27,570	$ 27,570	$ 27,570	$ 27,570	$ 27,570	$ 330,843

Draft

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
CWD	LEC - Debt Service	$ 4,992	$ 4,992	$ 4,992	$ 4,992	$ 4,992	$ 4,992	$ 4,992	$ 4,992	$ 4,992	$ 4,992	$ 4,992	$ 4,992	$ 59,907
	WAPA - Overhead	$ 112	$ 112	$ 112	$ 112	$ 112	$ 112	$ 112	$ 112	$ 112	$ 112	$ 112	$ 112	$ 1,347
	Slate - Battery	$ 12,730	$ 12,730	$ 12,730	$ 12,730	$ 12,730	$ 12,730	$ 12,730	$ 12,730	$ 12,730	$ 12,730	$ 12,730	$ 12,730	$ 152,760
	SP - Overhead	$ 1,268	$ 1,268	$ 1,268	$ 1,268	$ 1,268	$ 1,268	$ 1,268	$ 1,268	$ 1,268	$ 1,268	$ 1,268	$ 1,268	$ 15,222
	RA Capacity	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	RECs / Carbon	$ (125)	$ (125)	$ (125)	$ (125)	$ (125)	$ (125)	$ (125)	$ (125)	$ (125)	$ (125)	$ (125)	$ (125)	$ (1,500)
	Total	$ 18,978	$ 18,978	$ 18,978	$ 18,978	$ 18,978	$ 18,978	$ 18,978	$ 18,978	$ 18,978	$ 18,978	$ 18,978	$ 18,978	$ 227,736

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
GCID	LEC - Debt Service	$ 3,347	$ 3,347	$ 3,347	$ 3,347	$ 3,347	$ 3,347	$ 3,347	$ 3,347	$ 3,347	$ 3,347	$ 3,347	$ 3,347	$ 40,168
	WAPA - Overhead	$ 211	$ 211	$ 211	$ 211	$ 211	$ 211	$ 211	$ 211	$ 211	$ 211	$ 211	$ 211	$ 2,534
	Slate - Battery	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	SP - Overhead	$ 364	$ 364	$ 364	$ 364	$ 364	$ 364	$ 364	$ 364	$ 364	$ 364	$ 364	$ 364	$ 4,366
	RA Capacity	$ 3,830	$ 3,830	$ 3,830	$ 3,830	$ 3,830	$ 3,830	$ 3,830	$ 3,830	$ 3,830	$ 3,830	$ 3,830	$ 3,830	$ 45,957
	RECs / Carbon	$ 704	$ 704	$ 704	$ 704	$ 704	$ 704	$ 704	$ 704	$ 704	$ 704	$ 704	$ 704	$ 8,448
	Total	$ 8,456	$ 8,456	$ 8,456	$ 8,456	$ 8,456	$ 8,456	$ 8,456	$ 8,456	$ 8,456	$ 8,456	$ 8,456	$ 8,456	$ 101,473

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
JID	LEC - Debt Service	$ 2,647	$ 2,647	$ 2,647	$ 2,647	$ 2,647	$ 2,647	$ 2,647	$ 2,647	$ 2,647	$ 2,647	$ 2,647	$ 2,647	$ 31,762
	WAPA - Overhead	$ 45	$ 45	$ 45	$ 45	$ 45	$ 45	$ 45	$ 45	$ 45	$ 45	$ 45	$ 45	$ 537
	Slate - Battery	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	SP - Overhead	$ 187	$ 187	$ 187	$ 187	$ 187	$ 187	$ 187	$ 187	$ 187	$ 187	$ 187	$ 187	$ 2,243
	RA Capacity	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	RECs / Carbon	$ 698	$ 698	$ 698	$ 698	$ 698	$ 698	$ 698	$ 698	$ 698	$ 698	$ 698	$ 698	$ 8,381
	Total	$ 3,577	$ 3,577	$ 3,577	$ 3,577	$ 3,577	$ 3,577	$ 3,577	$ 3,577	$ 3,577	$ 3,577	$ 3,577	$ 3,577	$ 42,923

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
LTRID	LEC - Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	WAPA - Overhead	$ 58	$ 58	$ 58	$ 58	$ 58	$ 58	$ 58	$ 58	$ 58	$ 58	$ 58	$ 58	$ 693
	Slate - Battery	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	SP - Overhead	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	RA Capacity	$ 4,468	$ 4,468	$ 4,468	$ 4,468	$ 4,468	$ 4,468	$ 4,468	$ 4,468	$ 4,468	$ 4,468	$ 4,468	$ 4,468	$ 53,617
	RECs / Carbon	$ 10,318	$ 10,318	$ 10,318	$ 10,318	$ 10,318	$ 10,318	$ 10,318	$ 10,318	$ 10,318	$ 10,318	$ 10,318	$ 10,318	$ 123,813
	Total	$ 14,844	$ 14,844	$ 14,844	$ 14,844	$ 14,844	$ 14,844	$ 14,844	$ 14,844	$ 14,844	$ 14,844	$ 14,844	$ 14,844	$ 178,122

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
PPCID	LEC - Debt Service	$ 2,795	$ 2,795	$ 2,795	$ 2,795	$ 2,795	$ 2,795	$ 2,795	$ 2,795	$ 2,795	$ 2,795	$ 2,795	$ 2,795	$ 33,535
	WAPA - Overhead	$ 47	$ 47	$ 47	$ 47	$ 47	$ 47	$ 47	$ 47	$ 47	$ 47	$ 47	$ 47	$ 568
	Slate - Battery	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	SP - Overhead	$ 201	$ 201	$ 201	$ 201	$ 201	$ 201	$ 201	$ 201	$ 201	$ 201	$ 201	$ 201	$ 2,410
	RA Capacity	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	RECs / Carbon	$ 125	$ 125	$ 125	$ 125	$ 125	$ 125	$ 125	$ 125	$ 125	$ 125	$ 125	$ 125	$ 1,506
	Total	$ 3,168	$ 3,168	$ 3,168	$ 3,168	$ 3,168	$ 3,168	$ 3,168	$ 3,168	$ 3,168	$ 3,168	$ 3,168	$ 3,168	$ 38,019

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
RD108	LEC - Debt Service	$ 1,485	$ 1,485	$ 1,485	$ 1,485	$ 1,485	$ 1,485	$ 1,485	$ 1,485	$ 1,485	$ 1,485	$ 1,485	$ 1,485	$ 17,818
	WAPA - Overhead	$ 38	$ 38	$ 38	$ 38	$ 38	$ 38	$ 38	$ 38	$ 38	$ 38	$ 38	$ 38	$ 454
	Slate - Battery	$ 1,675	$ 1,675	$ 1,675	$ 1,675	$ 1,675	$ 1,675	$ 1,675	$ 1,675	$ 1,675	$ 1,675	$ 1,675	$ 1,675	$ 20,100
	SP - Overhead	$ 214	$ 214	$ 214	$ 214	$ 214	$ 214	$ 214	$ 214	$ 214	$ 214	$ 214	$ 214	$ 2,571
	RA Capacity	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	RECs / Carbon	$ (42)	$ (42)	$ (42)	$ (42)	$ (42)	$ (42)	$ (42)	$ (42)	$ (42)	$ (42)	$ (42)	$ (42)	$ (500)
	Total	$ 3,370	$ 3,370	$ 3,370	$ 3,370	$ 3,370	$ 3,370	$ 3,370	$ 3,370	$ 3,370	$ 3,370	$ 3,370	$ 3,370	$ 40,443

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SCVWD	LEC - Debt Service	$ 4,266	$ 4,266	$ 4,266	$ 4,266	$ 4,266	$ 4,266	$ 4,266	$ 4,266	$ 4,266	$ 4,266	$ 4,266	$ 4,266	$ 51,196
	WAPA - Overhead	$ 95	$ 95	$ 95	$ 95	$ 95	$ 95	$ 95	$ 95	$ 95	$ 95	$ 95	$ 95	$ 1,145
	Slate - Battery	$ 3,350	$ 3,350	$ 3,350	$ 3,350	$ 3,350	$ 3,350	$ 3,350	$ 3,350	$ 3,350	$ 3,350	$ 3,350	$ 3,350	$ 40,200
	SP - Overhead	$ 721	$ 721	$ 721	$ 721	$ 721	$ 721	$ 721	$ 721	$ 721	$ 721	$ 721	$ 721	$ 8,647
	RA Capacity	$ 2,872	$ 2,872	$ 2,872	$ 2,872	$ 2,872	$ 2,872	$ 2,872	$ 2,872	$ 2,872	$ 2,872	$ 2,872	$ 2,872	$ 34,468
	RECs / Carbon	$ 18,432	$ 18,432	$ 18,432	$ 18,432	$ 18,432	$ 18,432	$ 18,432	$ 18,432	$ 18,432	$ 18,432	$ 18,432	$ 18,432	$ 221,185
	Total	$ 29,737	$ 29,737	$ 29,737	$ 29,737	$ 29,737	$ 29,737	$ 29,737	$ 29,737	$ 29,737	$ 29,737	$ 29,737	$ 29,737	$ 356,842

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
SCWA	LEC - Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	WAPA - Overhead	$ 175	$ 175	$ 175	$ 175	$ 175	$ 175	$ 175	$ 175	$ 175	$ 175	$ 175	$ 175	$ 2,094
	Slate - Battery	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	SP - Overhead	$ 2,256	$ 2,256	$ 2,256	$ 2,256	$ 2,256	$ 2,256	$ 2,256	$ 2,256	$ 2,256	$ 2,256	$ 2,256	$ 2,256	$ 27,075
	RA Capacity	$ 12,766	$ 12,766	$ 12,766	$ 12,766	$ 12,766	$ 12,766	$ 12,766	$ 12,766	$ 12,766	$ 12,766	$ 12,766	$ 12,766	$ 153,191
	RECs / Carbon	$ 11,238	$ 11,238	$ 11,238	$ 11,238	$ 11,238	$ 11,238	$ 11,238	$ 11,238	$ 11,238	$ 11,238	$ 11,238	$ 11,238	$ 134,855
	Total	$ 26,435	$ 26,435	$ 26,435	$ 26,435	$ 26,435	$ 26,435	$ 26,435	$ 26,435	$ 26,435	$ 26,435	$ 26,435	$ 26,435	$ 317,216

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WSID	LEC - Debt Service	$ 3,336	$ 3,336	$ 3,336	$ 3,336	$ 3,336	$ 3,336	$ 3,336	$ 3,336	$ 3,336	$ 3,336	$ 3,336	$ 3,336	$ 40,035
	WAPA - Overhead	$ 328	$ 328	$ 328	$ 328	$ 328	$ 328	$ 328	$ 328	$ 328	$ 328	$ 328	$ 328	$ 3,941
	Slate - Battery	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 6,700	$ 80,400
	SP - Overhead	$ 399	$ 399	$ 399	$ 399	$ 399	$ 399	$ 399	$ 399	$ 399	$ 399	$ 399	$ 399	$ 4,788
	RA Capacity	$ 1,915	$ 1,915	$ 1,915	$ 1,915	$ 1,915	$ 1,915	$ 1,915	$ 1,915	$ 1,915	$ 1,915	$ 1,915	$ 1,915	$ 22,979
	RECs / Carbon	$ 3,727	$ 3,727	$ 3,727	$ 3,727	$ 3,727	$ 3,727	$ 3,727	$ 3,727	$ 3,727	$ 3,727	$ 3,727	$ 3,727	$ 44,727
	Total	$ 16,406	$ 16,406	$ 16,406	$ 16,406	$ 16,406	$ 16,406	$ 16,406	$ 16,406	$ 16,406	$ 16,406	$ 16,406	$ 16,406	$ 196,870

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WWD	LEC - Debt Service	$ 19,298	$ 19,298	$ 19,298	$ 19,298	$ 19,298	$ 19,298	$ 19,298	$ 19,298	$ 19,298	$ 19,298	$ 19,298	$ 19,298	$ 231,579
	WAPA - Overhead	$ 3,158	$ 3,158	$ 3,158	$ 3,158	$ 3,158	$ 3,158	$ 3,158	$ 3,158	$ 3,158	$ 3,158	$ 3,158	$ 3,158	$ 37,897
	Slate - Battery	$ 21,440	$ 21,440	$ 21,440	$ 21,440	$ 21,440	$ 21,440	$ 21,440	$ 21,440	$ 21,440	$ 21,440	$ 21,440	$ 21,440	$ 257,280
	SP - Overhead	$ 4,281	$ 4,281	$ 4,281	$ 4,281	$ 4,281	$ 4,281	$ 4,281	$ 4,281	$ 4,281	$ 4,281	$ 4,281	$ 4,281	$ 51,371
	RA Capacity	$ 16,277	$ 16,277	$ 16,277	$ 16,277	$ 16,277	$ 16,277	$ 16,277	$ 16,277	$ 16,277	$ 16,277	$ 16,277	$ 16,277	$ 195,319
	RECs / Carbon	$ 49,094	$ 49,094	$ 49,094	$ 49,094	$ 49,094	$ 49,094	$ 49,094	$ 49,094	$ 49,094	$ 49,094	$ 49,094	$ 49,094	$ 589,124
	Total	$ 113,547	$ 113,547	$ 113,547	$ 113,547	$ 113,547	$ 113,547	$ 113,547	$ 113,547	$ 113,547	$ 113,547	$ 113,547	$ 113,547	$ 1,362,569

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Z7	LEC - Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	WAPA - Overhead	$ 14	$ 14	$ 14	$ 14	$ 14	$ 14	$ 14	$ 14	$ 14	$ 14	$ 14	$ 14	$ 170
	Slate - Battery	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	SP - Overhead	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 126	$ 1,506
	RA Capacity	$ 3,191	$ 3,191	$ 3,191	$ 3,191	$ 3,191	$ 3,191	$ 3,191	$ 3,191	$ 3,191	$ 3,191	$ 3,191	$ 3,191	$ 38,298
	RECs / Carbon	$ 269	$ 269	$ 269	$ 269	$ 269	$ 269	$ 269	$ 269	$ 269	$ 269	$ 269	$ 269	$ 3,231
	Total	$ 3,600	$ 3,600	$ 3,600	$ 3,600	$ 3,600	$ 3,600	$ 3,600	$ 3,600	$ 3,600	$ 3,600	$ 3,600	$ 3,600	$ 43,204

Draft

ATTACHMENT D
PWRPA & DISTRICT CASH FLOW

Draft

Cash Flow Planning for PWRPA

Powr and Water Resources Pooling Authority

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	714		20.7	50.4	46.0	60.9	85.5	97.9	92.6	80.2	59.2	59.6	30.8	30.0	
	Capacity	Meter Specific Peak 30 Min (MW)	785		22.7	55.5	50.6	66.9	94.1	107.7	101.8	88.3	65.1	65.5	33.8	33.0	
	Energy	Total Meter (MWh)	404,671		9,396	17,447	20,574	33,683	55,279	64,114	61,263	50,300	34,901	30,007	16,199	11,508	
	Energy	**Loss Adjusted Meter (MWh)**	**416,811**	3.00%	9,678	17,970	21,192	34,694	56,937	66,037	63,101	51,809	35,948	30,907	16,685	11,853	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 31,466,726**														
	Load Cost		**28,833,019**														
	CAISO Load			Following month		430,491	967,470	904,409	1,851,300	3,084,016	4,711,671	4,862,720	4,636,136	3,716,002	2,011,822	996,030	660,952
	WAPA Power		**($2,589,772)**														
	Base Resource & Restoration			Following month		240,982	240,982	240,982	611,750	611,750	611,750	611,750	611,750	611,750	286,142	286,142	286,142
	Pooling			Following month													
	Revenues			Following month		-	(19,848)	(0)	(709,688)	(1,093,562)	(1,324,625)	(1,666,732)	(957,902)	(674,226)	(576,700)	(333,938)	(562,862)
	Overhead			Following month		6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536
	Special Projects		**2,307,028**														
	Lodi Energy Center			Following month		367,801	225,417	222,167	-	222,466	215,289	430,115	438,903	414,266	359,345	335,409	386,335
	Lodi Energy Center - Debt			Following month		66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667
	Warm Springs Hydro & WWD BOR			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		72,800	102,666	154,933	173,599	212,799	222,133	222,133	210,933	181,066	145,600	97,066	70,933
	Astoria			Following month		104,090	109,228	164,413	176,592	203,043	213,889	210,654	198,666	176,021	144,242	107,706	94,385
	Slate			Following month		81,420	113,466	173,247	199,012	229,621	238,218	241,625	229,328	196,909	156,425	100,291	77,241
	Revenues			Following month		(370,414)	(426,350)	(400,441)	(283,749)	(438,386)	(812,424)	(1,272,698)	(1,222,493)	(1,057,361)	(782,865)	(508,328)	(526,612)
	Overhead			Following month		15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437
	Supplemental Power & Attributes		**2,916,452**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequecy/Capacity			Following month		142,000	142,000	142,000	142,000	142,000	142,000	142,000	142,000	142,000	142,000	142,000	142,000
	Renewable/Carbon Credits			Following month		101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038
	DELIVERY		**$ 37,558,894**														
	CAISO Grid Management		**1,618,685**														
	GMC & Misc			Following month		37,584	69,788	82,297	134,733	221,116	256,455	245,054	201,200	139,605	120,027	64,795	46,031
	Transmission		**14,326,280**														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		167,984	314,346	370,608	611,414	1,007,697	1,169,158	1,116,124	914,522	633,307	545,141	293,276	208,650
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		146,960	294,537	346,493	575,063	966,978	1,139,812	1,076,597	880,260	602,488	502,316	260,793	181,757
	Distribution		**21,613,929**														
	WDT Charges			Following month		620,993	1,051,173	1,377,611	2,079,129	2,403,908	2,466,346	2,359,492	2,145,312	1,805,036	1,753,634	1,685,718	1,021,579
	Admin			Following month		2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917
	Cost of Ownership			Following month		67,417	67,417	67,417	67,417	67,417	67,417	67,417	67,417	67,417	67,417	67,417	67,417
Costs - Overhead	**OVERHEAD**		**$ 2,113,152**														
	Joint Power Authority		**117,263**	Following month		9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772
	Aggregate Service Agreement		**2,013,152**														
	Utility Management			Following month		53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183
	Utility Operations - Fixed			Following month		41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072
	Utility Operations - Variable			Following month		17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652
	Metering			Following month		55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855
	Special Projects		**100,000**														
	WDT			Following month		8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333
	Other		**2,030,797**														
	Direct Consulting			Following month													
	P3			Following month		70,924	103,476	120,401	171,200	234,251	276,323	257,204	252,923	208,983	149,711	113,226	72,174
	TOTAL COSTS (ONE MONTH LAG)		**$ 73,286,833**		**2,429,121**	**2,559,493**	**3,734,230**	**4,344,999**	**6,178,234**	**8,453,575**	**9,971,875**	**9,281,918**	**9,127,418**	**7,541,725**	**5,402,717**	**4,086,065**	**2,604,582**
	Variable Costs				1,700,385	1,738,965	2,913,703	3,524,471	4,986,939	7,262,280	8,780,580	8,090,622	7,936,122	6,350,430	4,537,030	3,220,378	1,738,895
	Fixed Costs				728,736	820,528	820,528	820,528	1,191,296	1,191,296	1,191,296	1,191,296	1,191,296	1,191,296	865,687	865,687	865,687
	Revenue (Two Month Lag)		**$ 73,179,165**		**4,836,856**	**2,496,914**	**2,559,493**	**3,734,230**	**4,344,999**	**6,178,234**	**8,453,575**	**9,971,875**	**9,281,918**	**9,127,418**	**7,541,725**	**5,402,717**	**4,086,065**
	Participants' payments				4,836,856	2,496,914	2,559,493	3,734,230	4,344,999	6,178,234	8,453,575	9,971,875	9,281,918	9,127,418	7,541,725	5,402,717	4,086,065
	Net Cash Increase / <Decrease>		**$ (107,668)**		**2,407,736**	**(62,579)**	**(1,174,737)**	**(610,768)**	**(1,833,236)**	**(2,275,341)**	**(1,518,300)**	**689,958**	**154,499**	**1,585,693**	**2,139,008**	**1,316,652**	**1,481,483**
	Reserve Use			10,000,000	12,407,736	12,345,156	11,170,419	10,559,651	8,726,415	6,451,074	4,932,774	5,622,732	5,777,232	7,362,924	9,501,932	10,818,584	12,300,068

Draft

Cash Flow Planning for PWRPA

Arvin-Edison Water Storage District

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	217		4.8	29.0	18.7	18.3	20.2	24.0	21.9	21.3	17.4	19.4	13.3	9.2	
	Capacity	Meter Specific Peak 30 Min (MW)	239		5.3	31.9	20.5	20.1	22.2	26.4	24.1	23.4	19.2	21.4	14.7	10.1	
	Energy	Total Meter (MWh)	101,524		1,363	6,637	6,893	9,060	11,712	14,861	13,959	13,001	10,149	8,507	4,142	1,241	
	Energy	**Loss Adjusted Meter (MWh)**	**104,437**	2.87%	1,402	6,827	7,090	9,320	12,048	15,287	14,359	13,374	10,440	8,751	4,261	1,277	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 7,624,927**														
	Load Cost		**7,260,104**														
	CAISO Load			Following month		62,434	368,016	302,988	497,975	653,428	1,092,107	1,107,944	1,198,278	1,080,600	570,326	254,708	71,301
	WAPA Power		**($750,743)**														
	Base Resource & Restoration			Following month		69,858	69,858	69,858	177,339	177,339	177,339	177,339	177,339	177,339	82,949	82,949	82,949
	Pooling			Following month													
	Revenues			Following month		-	(5,754)	(0)	(205,730)	(317,010)	(383,992)	(483,165)	(277,684)	(195,450)	(167,178)	(96,804)	(163,167)
	Overhead			Following month		1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895
	Special Projects		**689,864**														
	Lodi Energy Center			Following month		87,014	53,329	52,560	-	52,631	50,933	101,756	103,835	98,007	85,013	79,351	91,399
	Lodi Energy Center - Debt			Following month		15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		23,163	32,666	49,297	55,236	67,708	70,678	70,678	67,115	57,612	46,327	30,885	22,569
	Astoria			Following month		39,915	41,885	63,047	67,717	77,860	82,020	80,779	76,182	67,498	55,312	41,302	36,194
	Slate			Following month		28,193	39,290	59,990	68,912	79,511	82,488	83,667	79,409	68,184	54,165	34,728	26,746
	Revenues			Following month		(103,695)	(120,857)	(123,528)	(93,407)	(129,440)	(252,300)	(382,071)	(375,261)	(321,326)	(232,981)	(146,250)	(144,683)
	Overhead			Following month		3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470
	Supplemental Power & Attributes		**425,701**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		36,381	36,381	36,381	36,381	36,381	36,381	36,381	36,381	36,381	36,381	36,381	36,381
	Renewable/Carbon Credits			Following month		(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)
	DELIVERY		**$ 9,280,523**														
	CAISO Grid Management		**406,097**														
	GMC & Misc			Following month		5,451	26,547	27,571	36,241	46,849	59,443	55,834	52,003	40,597	34,026	16,570	4,966
	Transmission		**3,772,211**														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		24,646	120,030	124,660	163,865	211,826	268,771	252,452	235,131	183,556	153,849	74,919	22,452
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		25,987	126,560	131,442	172,780	223,351	283,394	266,188	247,924	193,543	162,219	78,996	23,674
	Distribution		**5,102,214**														
	WDT Charges			Following month		102,595	234,669	417,368	527,445	558,592	557,955	460,089	453,994	390,937	493,640	468,969	255,002
	Admin			Following month		500	500	500	500	500	500	500	500	500	500	500	500
	Cost of Ownership			Following month		14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580
Costs - Overhead	**OVERHEAD**		**$ 836,711**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**319,115**														
	Utility Management			Following month		9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350
	Utility Operations - Fixed			Following month		7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221
	Utility Operations - Variable			Following month		4,429	4,429	4,429	4,429	4,429	4,429	4,429	4,429	4,429	4,429	4,429	4,429
	Metering			Following month		5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594
	Special Projects		**17,580**														
	WDT3			Following month		1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465
	Other		**491,640**														
	Direct Consulting			Following month													
	P3			Following month		13,281	30,971	36,357	44,711	51,388	62,395	53,920	60,953	55,334	40,986	29,092	12,251
	TOTAL COSTS		**$ 17,742,161**		**409,768**	**479,291**	**1,117,657**	**1,312,058**	**1,613,532**	**1,854,482**	**2,251,676**	**1,945,859**	**2,199,666**	**1,996,878**	**1,479,101**	**1,049,861**	**442,100**
	Variable Costs				286,838	310,450	948,816	1,143,217	1,337,210	1,578,160	1,975,355	1,669,537	1,923,344	1,720,556	1,297,168	867,929	260,168
	Fixed Costs				122,930	168,841	168,841	168,841	276,322	276,322	276,322	276,322	276,322	276,322	181,932	181,932	181,932
	Revenue (Two Month Lag)		**$ 17,650,742**		**1,129,160**	**350,681**	**479,291**	**1,117,657**	**1,312,058**	**1,613,532**	**1,854,482**	**2,251,676**	**1,945,859**	**2,199,666**	**1,996,878**	**1,479,101**	**1,049,861**
	Participants' payments				1,129,160	350,681	479,291	1,117,657	1,312,058	1,613,532	1,854,482	2,251,676	1,945,859	2,199,666	1,996,878	1,479,101	1,049,861
	Net Cash Increase / <Decrease>		**$ (91,419)**		**719,392**	**(128,610)**	**(638,365)**	**(194,401)**	**(301,474)**	**(240,950)**	**(397,195)**	**305,817**	**(253,807)**	**202,788**	**517,777**	**429,239**	**607,761**
	Reserve Use				1,758,010	2,477,402	2,348,792	1,710,426	1,516,025	1,214,551	973,601	576,406	882,224	628,417	831,205	1,348,982	1,778,221	2,385,983

Draft

Cash Flow Planning for PWRPA

Banta-Carbona Irrigation District

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	41		3.1	3.0	5.4	4.9	4.5	4.9	3.6	4.1	4.8	1.2	0.9	0.5	
	Capacity	Meter Specific Peak 30 Min (MW)	45		3.4	3.3	5.9	5.4	4.9	5.3	4.0	4.5	5.3	1.3	1.0	0.6	
	Energy	Total Meter (MWh)	21,135		1,700	1,700	2,800	2,800	2,700	2,800	2,000	2,000	1,900	500	170	65	
	Energy	**Loss Adjusted Meter (MWh)**	**21,135**	0.00%	1,700	1,700	2,800	2,800	2,700	2,800	2,000	2,000	1,900	500	170	65	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 1,625,490**														
	Load Cost		**1,398,629**														
	CAISO Load			Following month		77,888	94,269	123,083	153,894	150,633	205,770	158,748	184,339	202,297	33,523	10,453	3,733
	WAPA Power		**($92,591)**														
	Base Resource & Restoration			Following month		8,616	8,616	8,616	21,872	21,872	21,872	21,872	21,872	21,872	10,230	10,230	10,230
	Pooling			Following month													
	Revenues			Following month		-	(710)	(0)	(25,373)	(39,098)	(47,359)	(59,590)	(34,248)	(24,105)	(20,619)	(11,939)	(20,124)
	Overhead			Following month		234	234	234	234	234	234	234	234	234	234	234	234
	Special Projects		**74,412**														
	Lodi Energy Center			Following month		32,724	20,056	19,767	-	19,793	19,155	38,268	39,050	36,858	31,972	29,842	34,373
	Lodi Energy Center - Debt			Following month		5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate			Following month		6,262	8,727	13,325	15,307	17,661	18,323	18,585	17,639	15,145	12,032	7,714	5,941
	Revenues			Following month		(26,709)	(28,908)	(25,080)	(12,639)	(24,896)	(43,057)	(70,216)	(72,548)	(61,483)	(52,407)	(32,626)	(36,537)
	Overhead			Following month		985	985	985	985	985	985	985	985	985	985	985	985
	Supplemental Power & Attributes		**245,040**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		13,400	13,400	13,400	13,400	13,400	13,400	13,400	13,400	13,400	13,400	13,400	13,400
	Renewable/Carbon Credits			Following month		7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020
	DELIVERY		**$ 841,805**														
	CAISO Grid Management		**84,540**														
	GMC & Misc			Following month		6,800	6,800	11,200	11,200	10,800	11,200	8,000	8,000	7,600	2,000	680	260
	Transmission		**757,265**														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		29,649	29,649	48,833	48,833	47,089	48,833	34,881	34,881	33,137	8,720	2,965	1,134
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		31,262	31,262	51,490	51,490	49,651	51,490	36,779	36,779	34,940	9,195	3,126	1,195
	Distribution		**-**														
	WDT Charges			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Admin			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Cost of Ownership			Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**		**$ 166,466**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**79,177**														
	Utility Management			Following month		3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154
	Utility Operations - Fixed			Following month		2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436
	Utility Operations - Variable			Following month		922	922	922	922	922	922	922	922	922	922	922	922
	Metering			Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects		**5,931**														
	WDT3			Following month		494	494	494	494	494	494	494	494	494	494	494	494
	Other		**72,982**														
	Direct Consulting			Following month													
	P3			Following month		5,753	5,846	8,168	8,548	8,233	9,165	6,347	7,727	8,596	1,995	1,590	1,014
	TOTAL COSTS (ONE MONTH LAG)		**$ 2,633,761**		**31,705**	**207,606**	**210,967**	**294,763**	**308,493**	**297,100**	**330,752**	**229,033**	**278,852**	**310,218**	**72,001**	**57,396**	**36,580**
	Variable Costs				22,194	164,123	167,485	251,281	251,755	240,362	274,014	172,295	222,114	253,480	26,904	12,299	(8,517)
	Fixed Costs				9,512	43,482	43,482	43,482	56,738	56,738	56,738	56,738	56,738	56,738	45,097	45,097	45,097
	Revenue (Two Month Lag)		**$ 2,632,399**		**89,305**	**35,218**	**207,606**	**210,967**	**294,763**	**308,493**	**297,100**	**330,752**	**229,033**	**278,852**	**310,218**	**72,001**	**57,396**
	Participants' payments				89,305	35,218	207,606	210,967	294,763	308,493	297,100	330,752	229,033	278,852	310,218	72,001	57,396
	Net Cash Increase / <Decrease>		**$ (1,362)**		**57,600**	**(172,388)**	**(3,361)**	**(83,796)**	**(13,730)**	**11,393**	**(33,652)**	**101,719**	**(49,818)**	**(31,366)**	**238,217**	**14,605**	**20,816**
	Reserve Use				593,080	650,680	478,292	474,930	391,134	377,404	388,797	355,145	456,864	407,046	375,680	613,896	628,501	649,317

Draft

Cash Flow Planning for PWRPA

Cawelo Water District

Average Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		44		1.3	2.9	4.9	1.9	3.9	5.4	8.2	6.4	4.6	3.1	0.8	0.9	
	Capacity	Meter Specific Peak 30 Min (MW)		49		1.5	3.2	5.4	2.1	4.2	6.0	9.0	7.0	5.1	3.4	0.9	1.0	
	Energy	Total Meter (MWh)		14,941		108	693	438	621	1,802	2,607	3,237	2,821	1,322	851	280	160	
	Energy	**Loss Adjusted Meter (MWh)**	5.29%	15,732		113	730	461	654	1,897	2,745	3,408	2,971	1,392	896	295	169	
Costs - Power and Delivery	**POWER RESOURCES**			$ 1,256,519														
	Load Cost			1,130,101														
	CAISO Load				Following month		4,934	38,446	19,248	34,136	100,516	191,604	256,894	260,046	140,766	57,071	17,242	9,198
	WAPA Power			($44,465)														
	Base Resource & Restoration				Following month		4,138	4,138	4,138	10,503	10,503	10,503	10,503	10,503	10,503	4,913	4,913	4,913
	Pooling				Following month													
	Revenues				Following month		-	(341)	(0)	(12,185)	(18,776)	(22,743)	(28,617)	(16,447)	(11,576)	(9,902)	(5,734)	(9,664)
	Overhead				Following month		112	112	112	112	112	112	112	112	112	112	112	112
	Special Projects			19,622														
	Lodi Energy Center				Following month		27,541	16,879	16,636	-	16,658	16,121	32,207	32,865	31,021	26,908	25,116	28,929
	Lodi Energy Center - Debt				Following month		4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992
	Special Application				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria				Following month		6,235	6,543	9,848	10,578	12,162	12,812	12,618	11,900	10,543	8,640	6,451	5,653
	Slate				Following month		12,997	18,113	27,656	31,769	36,655	38,027	38,571	36,608	31,433	24,970	16,010	12,330
	Revenues				Following month		(33,048)	(38,595)	(41,842)	(28,663)	(40,371)	(80,148)	(116,799)	(123,114)	(98,521)	(78,598)	(43,487)	(42,324)
	Overhead				Following month		1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268
	Supplemental Power & Attributes			151,260														
	Fixed Contract - Energy				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity				Following month		12,730	12,730	12,730	12,730	12,730	12,730	12,730	12,730	12,730	12,730	12,730	12,730
	Renewable/Carbon Credits				Following month		(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)
	DELIVERY			$ 1,205,765														
	CAISO Grid Management			59,763														
	GMC & Misc				Following month		431	2,773	1,752	2,484	7,207	10,429	12,946	11,286	5,288	3,405	1,122	641
	Transmission			547,203														
	High voltage TAC (200kV & >)	$	17.4405		Following month		1,920	12,360	7,806	11,072	32,120	46,481	57,699	50,298	23,570	15,175	4,999	2,855
	Low voltage TAC (50kV-200kV)	$	18.3894		Following month		2,024	13,033	8,231	11,675	33,867	49,010	60,838	53,035	24,852	16,001	5,271	3,010
	Distribution			598,800														
	WDT Charges				Following month		26,787	75,553	11,842	10,605	40,076	78,049	77,977	78,831	73,362	46,824	56,846	8,313
	Admin				Following month		133	133	133	133	133	133	133	133	133	133	133	133
	Cost of Ownership				Following month		1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011
Costs - Overhead	**OVERHEAD**			$ 156,833														
	Joint Power Authority			8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement			70,772														
	Utility Management				Following month		2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717
	Utility Operations - Fixed				Following month		2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098
	Utility Operations - Variable				Following month		652	652	652	652	652	652	652	652	652	652	652	652
	Metering				Following month		430	430	430	430	430	430	430	430	430	430	430	430
	Special Projects			5,109														
	WDT3				Following month		426	426	426	426	426	426	426	426	426	426	426	426
	Other			72,576														
	Direct Consulting				Following month													
	P3				Following month		2,311	5,017	2,635	3,110	7,346	10,753	12,596	12,339	7,649	4,063	3,303	1,453
	TOTAL COSTS (ONE MONTH LAG)			$ 2,619,117		**30,663**	**83,414**	**181,063**	**95,094**	**112,229**	**265,108**	**388,040**	**454,579**	**445,295**	**276,034**	**146,614**	**119,195**	**52,453**
	Variable Costs					21,464	52,559	150,207	64,238	75,007	227,886	350,819	417,357	408,074	238,812	114,983	87,565	20,822
	Fixed Costs					9,199	30,856	30,856	30,856	37,221	37,221	37,221	37,221	37,221	37,221	31,631	31,631	31,631
	Revenue (Two Month Lag)			$ 2,600,166		**87,831**	**33,501**	**83,414**	**181,063**	**95,094**	**112,229**	**265,108**	**388,040**	**454,579**	**445,295**	**276,034**	**146,614**	**119,195**
	Participants' payments					87,831	33,501	83,414	181,063	95,094	112,229	265,108	388,040	454,579	445,295	276,034	146,614	119,195
	Net Cash Increase / <Decrease>			$ (18,951)		**57,168**	**(49,913)**	**(97,648)**	**85,969**	**(17,135)**	**(152,879)**	**(122,933)**	**(66,538)**	**9,283**	**169,262**	**129,420**	**27,418**	**66,743**
	Reserve Use				510,910	568,078	518,165	420,516	506,485	489,350	336,471	213,539	147,000	156,284	325,545	454,965	482,383	549,126

Draft

Cash Flow Planning for PWRPA

Glenn-Colusa Irrigation District

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	**23**		0.5	0.6	0.3	1.7	3.5	3.7	3.9	3.2	1.2	1.5	1.8	1.2	
	Capacity	Meter Specific Peak 30 Min (MW)	**26**		0.6	0.6	0.4	1.9	3.9	4.1	4.3	3.5	1.3	1.6	2.0	1.3	
	Energy	Total Meter (MWh)	**11,413**		117	89	111	562	1,967	2,167	2,550	1,754	460	676	578	382	
	Energy	**Loss Adjusted Meter (MWh)**	**11,507**	0.83%	118	89	112	567	1,983	2,185	2,571	1,768	464	681	582	385	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 910,775**														
	Load Cost		**830,884**														
	CAISO Load			Following month		5,376	4,915	4,900	30,904	109,725	159,255	202,426	161,627	49,012	45,309	35,509	21,925
	WAPA Power		**($83,658)**														
	Base Resource & Restoration			Following month		7,784	7,784	7,784	19,761	19,761	19,761	19,761	19,761	19,761	9,243	9,243	9,243
	Pooling			Following month													
	Revenues			Following month		-	(641)	(0)	(22,925)	(35,325)	(42,790)	(53,841)	(30,943)	(21,780)	(18,629)	(10,787)	(18,182)
	Overhead			Following month		211	211	211	211	211	211	211	211	211	211	211	211
	Special Projects		**109,143**														
	Lodi Energy Center			Following month		18,466	11,318	11,155	-	11,170	10,809	21,595	22,036	20,799	18,042	16,840	19,397
	Lodi Energy Center - Debt			Following month		3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		1,985	2,800	4,225	4,734	5,803	6,058	6,058	5,752	4,938	3,970	2,647	1,934
	Astoria			Following month		3,299	3,462	5,210	5,596	6,435	6,778	6,676	6,296	5,578	4,571	3,413	2,991
	Slate			Following month		2,345	3,268	4,991	5,733	6,614	6,862	6,960	6,606	5,672	4,506	2,889	2,225
	Revenues			Following month		(15,398)	(16,644)	(13,793)	(7,815)	(14,680)	(25,669)	(42,889)	(41,494)	(37,250)	(29,026)	(19,927)	(22,313)
	Overhead			Following month		364	364	364	364	364	364	364	364	364	364	364	364
	Supplemental Power & Attributes		**54,405**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830
	Renewable/Carbon Credits			Following month		704	704	704	704	704	704	704	704	704	704	704	704
	DELIVERY		**$ 684,066**														
	CAISO Grid Management		**45,651**														
	GMC & Misc			Following month		469	355	446	2,249	7,867	8,668	10,201	7,014	1,841	2,703	2,310	1,527
	Transmission		**412,233**														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		2,065	1,560	1,962	9,897	34,616	38,142	44,887	30,865	8,102	11,895	10,165	6,719
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		2,173	1,642	2,064	10,413	36,423	40,133	47,230	32,476	8,525	12,515	10,695	7,069
	Distribution		**226,182**														
	WDT Charges			Following month		14,076	6,067	5,070	24,110	25,439	22,944	25,917	21,541	12,242	13,849	13,921	27,603
	Admin			Following month		317	317	317	317	317	317	317	317	317	317	317	317
	Cost of Ownership			Following month		800	800	800	800	800	800	800	800	800	800	800	800
Costs - Overhead	**OVERHEAD**		**$ 134,761**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**73,661**														
	Utility Management			Following month		2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551
	Utility Operations - Fixed			Following month		1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970
	Utility Operations - Variable			Following month		498	498	498	498	498	498	498	498	498	498	498	498
	Metering			Following month		1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119
	Special Projects		**4,797**														
	WDT3			Following month		400	400	400	400	400	400	400	400	400	400	400	400
	Other		**47,928**														
	Direct Consulting			Following month													
	P3			Following month		1,694	1,217	1,448	2,835	6,574	7,631	8,886	7,363	2,686	2,729	2,671	2,193
	TOTAL COSTS (ONE MONTH LAG)		**$ 1,729,602**		**59,721**	**61,145**	**43,912**	**52,271**	**102,302**	**237,230**	**275,393**	**320,677**	**265,709**	**96,937**	**98,487**	**96,398**	**79,141**
	Variable Costs				41,804	36,951	19,718	28,077	66,131	201,059	239,222	284,506	229,538	60,766	72,834	70,745	53,488
	Fixed Costs				17,916	24,194	24,194	24,194	36,171	36,171	36,171	36,171	36,171	36,171	25,653	25,653	25,653
	Revenue (Two Month Lag)		**$ 1,712,185**		**70,713**	**61,724**	**61,145**	**43,912**	**52,271**	**102,302**	**237,230**	**275,393**	**320,677**	**265,709**	**96,937**	**98,487**	**96,398**
	Participants' payments				70,713	61,724	61,145	43,912	52,271	102,302	237,230	275,393	320,677	265,709	96,937	98,487	96,398
	Net Cash Increase / <Decrease>		**$ (17,417)**		**10,993**	**579**	**17,233**	**(8,360)**	**(50,031)**	**(134,928)**	**(38,163)**	**(45,284)**	**54,968**	**168,773**	**(1,550)**	**2,088**	**17,257**
	Reserve Use				479,730	490,723	491,302	508,535	500,176	450,145	315,217	277,054	231,770	286,738	455,511	453,961	456,049	473,306

Draft

Cash Flow Planning for PWRPA

James Irrigation District

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	9		0.4	0.7	0.7	0.9	1.1	1.3	1.1	0.9	0.7	0.7	0.2	0.0	
	Capacity	Meter Specific Peak 30 Min (MW)	10		0.5	0.7	0.8	1.0	1.2	1.4	1.2	1.0	0.8	0.7	0.2	0.0	
	Energy	Total Meter (MWh)	4,621		114	304	442	491	645	757	609	529	415	259	50	6	
	Energy	**Loss Adjusted Meter (MWh)**	4,708	1.89%	116	310	451	501	658	771	620	539	423	264	51	6	
Costs - Power and Delivery	**POWER RESOURCES**		$ 385,509														
	Load Cost		322,127														
	CAISO Load			Following month		5,223	16,852	19,438	26,997	36,001	55,624	48,331	48,721	44,154	17,385	3,062	339
	WAPA Power		($17,714)														
	Base Resource & Restoration			Following month		1,648	1,648	1,648	4,184	4,184	4,184	4,184	4,184	4,184	1,957	1,957	1,957
	Pooling			Following month													
	Revenues			Following month		-	(136)	(0)	(4,854)	(7,480)	(9,061)	(11,401)	(6,552)	(4,612)	(3,945)	(2,284)	(3,850)
	Overhead			Following month		45	45	45	45	45	45	45	45	45	45	45	45
	Special Projects		72,714														
	Lodi Energy Center			Following month		14,602	8,949	8,820	-	8,832	8,547	17,076	17,425	16,446	14,266	13,316	15,338
	Lodi Energy Center - Debt			Following month		2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		662	933	1,408	1,578	1,934	2,019	2,019	1,917	1,646	1,323	882	645
	Astoria			Following month		839	880	1,325	1,423	1,636	1,724	1,697	1,601	1,418	1,162	868	761
	Slate			Following month		782	1,089	1,664	1,911	2,205	2,287	2,320	2,202	1,891	1,502	963	742
	Revenues			Following month		(10,137)	(10,396)	(7,125)	(2,503)	(7,694)	(11,720)	(22,126)	(21,117)	(19,911)	(16,720)	(12,307)	(15,011)
	Overhead			Following month		187	187	187	187	187	187	187	187	187	187	187	187
	Supplemental Power & Attributes		8,381														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Renewable/Carbon Credits			Following month		698	698	698	698	698	698	698	698	698	698	698	698
	DELIVERY		$ 315,647														
	CAISO Grid Management		18,483														
	GMC & Misc			Following month		456	1,216	1,769	1,965	2,581	3,028	2,436	2,114	1,659	1,037	199	24
	Transmission		168,738														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		2,026	5,402	7,860	8,731	11,470	13,454	10,823	9,396	7,371	4,609	885	105
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		2,137	5,696	8,288	9,206	12,094	14,186	11,412	9,907	7,772	4,860	933	111
	Distribution		128,426														
	WDT Charges			Following month		4,017	17,996	11,354	9,475	11,004	14,224	16,139	10,414	10,695	7,793	14,457	559
	Admin			Following month		25	25	25	25	25	25	25	25	25	25	25	25
	Cost of Ownership			Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**		$ 84,361														
	Joint Power Authority		8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		50,178														
	Utility Management			Following month		2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149
	Utility Operations - Fixed			Following month		1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659
	Utility Operations - Variable			Following month		202	202	202	202	202	202	202	202	202	202	202	202
	Metering			Following month		172	172	172	172	172	172	172	172	172	172	172	172
	Special Projects		4,040														
	WDT3			Following month		337	337	337	337	337	337	337	337	337	337	337	337
	Other		21,767														
	Direct Consulting			Following month													
	P3			Following month		886	1,680	1,860	1,908	2,439	3,058	2,614	2,537	2,324	1,255	905	300
	TOTAL COSTS (ONE MONTH LAG)		$ 785,517		**8,691**	**31,958**	**60,628**	**67,128**	**68,839**	**88,027**	**110,374**	**94,344**	**91,568**	**83,856**	**45,304**	**32,655**	**10,836**
	Variable Costs				6,084	21,829	50,498	56,999	56,173	75,361	97,708	81,678	78,902	71,190	34,865	22,216	397
	Fixed Costs				2,607	10,130	10,130	10,130	12,666	12,666	12,666	12,666	12,666	12,666	10,439	10,439	10,439
	Revenue (Two Month Lag)		$ 784,149		**20,537**	**9,468**	**31,958**	**60,628**	**67,128**	**68,839**	**88,027**	**110,374**	**94,344**	**91,568**	**83,856**	**45,304**	**32,655**
	Participants' payments				20,537	9,468	31,958	60,628	67,128	68,839	88,027	110,374	94,344	91,568	83,856	45,304	32,655
	Net Cash Increase / <Decrease>		$ (1,367)		**11,846**	**(22,490)**	**(28,670)**	**(6,500)**	**(1,711)**	**(19,188)**	**(22,347)**	**16,030**	**2,776**	**7,712**	**38,552**	**12,649**	**21,819**
	Reserve Use			403,990	415,836	393,346	364,676	358,176	356,465	337,277	314,930	330,960	333,736	341,448	380,000	392,649	414,468

Draft

Cash Flow Planning for PWRPA

Lower Tule River Irrigation District

Average Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		34		4.3	2.6	3.2	2.4	2.8	3.2	3.0	3.5	2.3	2.3	2.4	2.0	
	Capacity	Meter Specific Peak 30 Min (MW)		37		4.7	2.8	3.5	2.6	3.1	3.6	3.4	3.8	2.5	2.5	2.6	2.2	
	Energy	Total Meter (MWh)		9,756		355	630	484	510	946	1,227	1,390	1,403	1,022	823	542	423	
	Energy	**Loss Adjusted Meter (MWh)**	6.88%	10,427		379	674	517	545	1,011	1,312	1,486	1,500	1,092	880	580	453	
Costs - Power and Delivery	**POWER RESOURCES**			$ 859,366														
	Load Cost			704,810														
	CAISO Load				Following month		16,265	34,955	21,261	28,005	52,787	90,194	110,327	129,350	108,796	55,201	33,349	24,319
	WAPA Power			($22,873)														
	Base Resource & Restoration				Following month		2,128	2,128	2,128	5,403	5,403	5,403	5,403	5,403	5,403	2,527	2,527	2,527
	Pooling				Following month													
	Revenues				Following month		-	(175)	(0)	(6,268)	(9,658)	(11,699)	(14,721)	(8,460)	(5,955)	(5,093)	(2,949)	(4,971)
	Overhead				Following month		58	58	58	58	58	58	58	58	58	58	58	58
	Special Projects			-														
	Lodi Energy Center				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Lodi Energy Center - Debt				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Special Application				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Overhead				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Supplemental Power & Attributes			177,430														
	Fixed Contract - Energy				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity				Following month		4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468
	Renewable/Carbon Credits				Following month		10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318
	DELIVERY			$ 887,182														
	CAISO Grid Management			39,025														
	GMC & Misc				Following month		1,420	2,521	1,935	2,038	3,785	4,909	5,560	5,614	4,087	3,293	2,169	1,694
	Transmission			373,897														
	High voltage TAC (200kV & >)	$	17.4405		Following month		6,622	11,759	9,023	9,505	17,650	22,894	25,929	26,179	19,061	15,359	10,118	7,899
	Low voltage TAC (50kV-200kV)	$	18.3894		Following month		6,983	12,399	9,513	10,022	18,610	24,140	27,339	27,604	20,098	16,194	10,668	8,328
	Distribution			474,260														
	WDT Charges				Following month		39,401	42,210	32,387	31,040	42,170	42,430	42,939	43,355	42,719	34,052	39,795	29,862
	Admin				Following month		92	92	92	92	92	92	92	92	92	92	92	92
	Cost of Ownership				Following month		900	900	900	900	900	900	900	900	900	900	900	900
Costs - Overhead	**OVERHEAD**			$ 124,028														
	Joint Power Authority			8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement			59,133														
	Utility Management				Following month		2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492
	Utility Operations - Fixed				Following month		1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924
	Utility Operations - Variable				Following month		426	426	426	426	426	426	426	426	426	426	426	426
	Metering				Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects			4,685														
	WDT3				Following month		390	390	390	390	390	390	390	390	390	390	390	390
	Other			51,834														
	Direct Consulting				Following month													
	P3				Following month		2,698	3,638	2,796	2,896	4,349	5,703	6,402	7,151	6,158	4,086	3,350	2,608
	TOTAL COSTS (ONE MONTH LAG)			$ 1,870,577		**88,419**	**97,370**	**131,288**	**100,895**	**104,492**	**156,946**	**205,826**	**231,029**	**258,046**	**222,219**	**147,471**	**120,877**	**94,117**
	Variable Costs					61,893	73,780	107,698	77,305	77,628	130,082	178,962	204,165	231,182	195,355	123,483	96,889	70,129
	Fixed Costs					26,526	23,589	23,589	23,589	26,864	26,864	26,864	26,864	26,864	26,864	23,988	23,988	23,988
	Revenue (Two Month Lag)			$ 1,873,015		**159,549**	**96,555**	**97,370**	**131,288**	**100,895**	**104,492**	**156,946**	**205,826**	**231,029**	**258,046**	**222,219**	**147,471**	**120,877**
	Participants' payments					159,549	96,555	97,370	131,288	100,895	104,492	156,946	205,826	231,029	258,046	222,219	147,471	120,877
	Net Cash Increase / <Decrease>			$ 2,438		**71,130**	**(814)**	**(33,918)**	**30,393**	**(3,597)**	**(52,454)**	**(48,880)**	**(25,203)**	**(27,017)**	**35,827**	**74,748**	**26,594**	**26,760**
	Reserve Use				468,520	539,650	538,836	504,918	535,311	531,713	479,259	430,379	405,176	378,159	413,986	488,734	515,328	542,088

Draft

Cash Flow Planning for PWRPA

Princeton-Codora-Glenn ID - Provident ID

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	7		0.1	0.0	0.0	0.6	1.5	1.2	1.1	1.1	0.2	1.1	0.3	0.0	
	Capacity	Meter Specific Peak 30 Min (MW)	8		0.1	0.0	0.0	0.6	1.6	1.3	1.3	1.2	0.3	1.2	0.4	0.0	
	Energy	Total Meter (MWh)	3,283		6	4	1	156	504	713	729	344	46	615	158	7	
	Energy	**Loss Adjusted Meter (MWh)**	3,345	1.88%	6	4	1	159	514	726	743	351	47	626	161	7	
Costs - Power and Delivery	**POWER RESOURCES**		$ 297,733														
	Load Cost		235,477														
	CAISO Load			Following month		276	195	57	8,551	28,128	52,377	57,885	31,736	4,912	41,218	9,738	406
	WAPA Power		($18,767)														
	Base Resource & Restoration			Following month		1,746	1,746	1,746	4,433	4,433	4,433	4,433	4,433	4,433	2,074	2,074	2,074
	Pooling			Following month													
	Revenues			Following month		-	(144)	(0)	(5,143)	(7,925)	(9,599)	(12,078)	(6,942)	(4,886)	(4,179)	(2,420)	(4,079)
	Overhead			Following month		47	47	47	47	47	47	47	47	47	47	47	47
	Special Projects		79,518														
	Lodi Energy Center			Following month		15,417	9,449	9,313	-	9,325	9,024	18,029	18,398	17,365	15,063	14,059	16,194
	Lodi Energy Center - Debt			Following month		2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		662	933	1,408	1,578	1,934	2,019	2,019	1,917	1,646	1,323	882	645
	Astoria			Following month		1,174	1,232	1,854	1,991	2,289	2,412	2,375	2,240	1,985	1,626	1,214	1,064
	Slate			Following month		782	1,089	1,664	1,911	2,205	2,287	2,320	2,202	1,891	1,502	963	742
	Revenues			Following month		(10,732)	(10,992)	(7,503)	(2,634)	(8,115)	(12,451)	(23,495)	(22,352)	(21,122)	(17,653)	(13,059)	(15,936)
	Overhead			Following month		201	201	201	201	201	201	201	201	201	201	201	201
	Supplemental Power & Attributes		1,506														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Renewable/Carbon Credits			Following month		125	125	125	125	125	125	125	125	125	125	125	125
	DELIVERY		$ 198,341														
	CAISO Grid Management		13,133														
	GMC & Misc			Following month		24	14	5	622	2,017	2,851	2,917	1,377	185	2,459	634	28
	Transmission		58,363														
	High voltage TAC (200kV & >)	$	17.4405	Following month		107	62	23	2,766	8,962	12,669	12,963	6,121	820	10,928	2,815	126
	Low voltage TAC (50kV-200kV)	$	18.3894	Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Distribution		126,845														
	WDT Charges			Following month		-	117	347	8,716	24,091	11,780	18,527	16,407	6,006	21,373	19,086	196
	Admin			Following month		17	17	17	17	17	17	17	17	17	17	17	17
	Cost of Ownership			Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**		$ 74,983														
	Joint Power Authority		8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		46,881														
	Utility Management			Following month		2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075
	Utility Operations - Fixed			Following month		1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602
	Utility Operations - Variable			Following month		143	143	143	143	143	143	143	143	143	143	143	143
	Metering			Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects		3,902														
	WDT3			Following month		325	325	325	325	325	325	325	325	325	325	325	325
	Other		15,824														
	Direct Consulting			Following month													
	P3			Following month		501	337	485	881	2,151	2,449	2,679	1,814	608	2,390	1,257	273
	TOTAL COSTS (ONE MONTH LAG)		$ 571,056		**13,953**	**18,072**	**12,153**	**17,513**	**31,786**	**77,610**	**88,366**	**96,690**	**65,466**	**21,957**	**86,239**	**45,358**	**9,846**
	Variable Costs				9,767	8,536	2,617	7,977	19,563	65,387	76,143	84,468	53,243	9,734	76,376	35,495	(18)
	Fixed Costs				4,186	9,536	9,536	9,536	12,223	12,223	12,223	12,223	12,223	12,223	9,863	9,863	9,863
	Revenue (Two Month Lag)		$ 574,513		**13,557**	**13,303**	**18,072**	**12,153**	**17,513**	**31,786**	**77,610**	**88,366**	**96,690**	**65,466**	**21,957**	**86,239**	**45,358**
	Participants' payments				13,557	13,303	18,072	12,153	17,513	31,786	77,610	88,366	96,690	65,466	21,957	86,239	45,358
	Net Cash Increase / <Decrease>		$ 3,457		**(396)**	**(4,769)**	**5,919**	**(5,359)**	**(14,274)**	**(45,823)**	**(10,756)**	**(8,325)**	**31,225**	**43,508**	**(64,282)**	**40,881**	**35,513**
	Reserve Use				390,160	389,764	384,995	390,913	385,554	371,280	325,457	314,701	306,376	337,601	381,109	316,828	357,708	393,221

Draft

Cash Flow Planning for PWRPA

Reclamation District 108

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	7		0.2	0.2	0.2	0.4	0.9	0.9	1.1	1.0	0.4	0.6	0.7	0.6	
	Capacity	Meter Specific Peak 30 Min (MW)	8		0.2	0.3	0.2	0.4	0.9	1.0	1.2	1.1	0.5	0.7	0.8	0.6	
	Energy	Total Meter (MWh)	2,686		50	33	61	120	353	457	601	486	163	112	150	99	
	Energy	**Loss Adjusted Meter (MWh)**	**2,833**	5.49%	53	35	64	126	372	482	635	512	172	118	159	105	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 250,421**														
	Load Cost		**198,989**														
	CAISO Load			Following month		2,303	1,849	2,681	6,577	19,684	33,562	47,742	44,769	17,397	7,483	9,241	5,701
	WAPA Power		**($14,993)**														
	Base Resource & Restoration			Following month		1,395	1,395	1,395	3,541	3,541	3,541	3,541	3,541	3,541	1,657	1,657	1,657
	Pooling			Following month													
	Revenues			Following month		-	(115)	(0)	(4,108)	(6,331)	(7,668)	(9,649)	(5,545)	(3,903)	(3,339)	(1,933)	(3,258)
	Overhead			Following month		38	38	38	38	38	38	38	38	38	38	38	38
	Special Projects		**46,824**														
	Lodi Energy Center			Following month		8,191	5,020	4,948	-	4,955	4,795	9,579	9,775	9,226	8,003	7,470	8,604
	Lodi Energy Center - Debt			Following month		1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		1,655	2,334	3,522	3,946	4,837	5,049	5,049	4,794	4,116	3,309	2,206	1,612
	Astoria			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate			Following month		937	1,305	1,993	2,289	2,641	2,740	2,779	2,638	2,265	1,799	1,154	888
	Revenues			Following month		(6,511)	(7,095)	(5,804)	(3,386)	(6,390)	(10,365)	(17,806)	(17,018)	(15,587)	(12,131)	(8,440)	(9,455)
	Overhead			Following month		214	214	214	214	214	214	214	214	214	214	214	214
	Supplemental Power & Attributes		**19,600**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		1,675	1,675	1,675	1,675	1,675	1,675	1,675	1,675	1,675	1,675	1,675	1,675
	Renewable/Carbon Credits			Following month		(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)
	DELIVERY		**$ 302,661**														
	CAISO Grid Management		**10,742**														
	GMC & Misc			Following month		201	133	244	479	1,411	1,827	2,406	1,943	654	446	601	397
	Transmission		**99,380**														
	High voltage TAC (200kV & >)	$	17.4405	Following month		905	601	1,099	2,156	6,355	8,226	10,834	8,749	2,943	2,010	2,707	1,788
	Low voltage TAC (50kV-200kV)	$	18.3894	Following month		954	633	1,158	2,273	6,701	8,674	11,424	9,225	3,103	2,120	2,854	1,885
	Distribution		**192,538**														
	WDT Charges			Following month		5,520	6,637	9,292	17,782	22,552	18,740	24,696	25,582	18,451	12,484	13,540	8,929
	Admin			Following month		417	417	417	417	417	417	417	417	417	417	417	417
	Cost of Ownership			Following month		278	278	278	278	278	278	278	278	278	278	278	278
Costs - Overhead	**OVERHEAD**		**$ 80,269**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**50,294**														
	Utility Management			Following month		2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153
	Utility Operations - Fixed			Following month		1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663
	Utility Operations - Variable			Following month		117	117	117	117	117	117	117	117	117	117	117	117
	Metering			Following month		258	258	258	258	258	258	258	258	258	258	258	258
	Special Projects		**4,048**														
	WDT3			Following month		337	337	337	337	337	337	337	337	337	337	337	337
	Other		**17,550**														
	Direct Consulting			Following month													
	P3			Following month		708	627	850	1,164	1,974	2,235	2,847	2,786	1,468	944	1,150	799
	TOTAL COSTS (ONE MONTH LAG)		**$ 633,350**		**27,365**	**25,549**	**22,615**	**30,669**	**42,004**	**71,223**	**80,647**	**102,735**	**100,529**	**52,965**	**34,079**	**41,499**	**28,838**
	Variable Costs				19,155	15,200	12,266	20,320	29,508	58,728	68,151	90,239	88,034	40,469	23,468	30,889	18,227
	Fixed Costs				8,209	10,349	10,349	10,349	12,495	12,495	12,495	12,495	12,495	12,495	10,610	10,610	10,610
	Revenue (Two Month Lag)		**$ 634,184**		**42,656**	**29,671**	**25,549**	**22,615**	**30,669**	**42,004**	**71,223**	**80,647**	**102,735**	**100,529**	**52,965**	**34,079**	**41,499**
	Participants' payments				42,656	29,671	25,549	22,615	30,669	42,004	71,223	80,647	102,735	100,529	52,965	34,079	41,499
	Net Cash Increase / <Decrease>		**$ 833**		**15,291**	**4,123**	**2,933**	**(8,053)**	**(11,335)**	**(29,219)**	**(9,424)**	**(22,088)**	**2,205**	**47,565**	**18,886**	**(7,420)**	**12,661**
	Reserve Use				404,840	420,131	424,254	427,187	419,134	407,799	378,580	369,156	347,068	349,273	396,838	415,724	408,304	420,965

Draft

Cash Flow Planning for PWRPA

Santa Clara Valley Water District

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	38		2.6	2.9	2.5	2.6	3.1	3.8	3.6	3.9	3.9	3.5	3.1	2.6	
	Capacity	Meter Specific Peak 30 Min (MW)	42		2.8	3.2	2.8	2.9	3.5	4.2	4.0	4.3	4.3	3.9	3.4	2.9	
	Energy	Total Meter (MWh)	20,607		1,303	1,288	1,310	1,431	1,852	2,090	2,242	2,320	2,107	1,882	1,504	1,276	
	Energy	**Loss Adjusted Meter (MWh)**	**21,025**	2.03%	1,330	1,315	1,336	1,461	1,890	2,133	2,288	2,367	2,149	1,920	1,534	1,302	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 1,839,002**														
	Load Cost		**1,432,444**														
	CAISO Load			Following month		59,721	71,446	57,580	78,676	103,337	153,614	177,989	213,844	224,298	126,196	92,452	73,290
	WAPA Power		**($37,809)**														
	Base Resource & Restoration			Following month		3,518	3,518	3,518	8,931	8,931	8,931	8,931	8,931	8,931	4,177	4,177	4,177
	Pooling			Following month													
	Revenues			Following month		-	(290)	(0)	(10,361)	(15,965)	(19,338)	(24,333)	(13,985)	(9,843)	(8,419)	(4,875)	(8,217)
	Overhead			Following month		95	95	95	95	95	95	95	95	95	95	95	95
	Special Projects		**148,513**														
	Lodi Energy Center			Following month		23,536	14,425	14,217	-	14,236	13,777	27,524	28,086	26,510	22,995	21,464	24,722
	Lodi Energy Center - Debt			Following month		4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		4,963	7,000	10,563	11,836	14,509	15,145	15,145	14,381	12,345	9,927	6,618	4,836
	Astoria			Following month		4,173	4,379	6,591	7,079	8,139	8,574	8,445	7,964	7,056	5,782	4,318	3,784
	Slate			Following month		4,699	6,548	9,998	11,485	13,252	13,748	13,945	13,235	11,364	9,028	5,788	4,458
	Revenues			Following month		(22,311)	(25,108)	(23,151)	(15,598)	(24,668)	(44,540)	(71,020)	(69,199)	(60,814)	(45,799)	(30,036)	(31,678)
	Overhead			Following month		721	721	721	721	721	721	721	721	721	721	721	721
	Supplemental Power & Attributes		**295,854**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		6,222	6,222	6,222	6,222	6,222	6,222	6,222	6,222	6,222	6,222	6,222	6,222
	Renewable/Carbon Credits			Following month		18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432
	DELIVERY		**$ 1,623,595**														
	CAISO Grid Management		**82,427**														
	GMC & Misc			Following month		5,214	5,154	5,240	5,726	7,409	8,361	8,970	9,280	8,427	7,529	6,014	5,104
	Transmission		**513,799**														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		23,217	22,949	23,331	25,497	32,992	37,232	39,941	41,325	37,523	33,526	26,782	22,729
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		9,283	9,176	9,329	10,194	13,191	14,886	15,970	16,523	15,003	13,405	10,708	9,088
	Distribution		**1,027,369**														
	WDT Charges			Following month		88,825	89,816	72,879	81,366	84,651	86,516	91,560	88,808	93,507	90,226	87,362	66,707
	Admin			Following month		117	117	117	117	117	117	117	117	117	117	117	117
	Cost of Ownership			Following month		312	312	312	312	312	312	312	312	312	312	312	312
Costs - Overhead	**OVERHEAD**		**$ 207,770**														
	Joint Power Authority		**8,376**	Following month	698	698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**91,383**														
	Utility Management			Following month		3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353
	Utility Operations - Fixed			Following month		2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589
	Utility Operations - Variable			Following month		899	899	899	899	899	899	899	899	899	899	899	899
	Metering			Following month		775	775	775	775	775	775	775	775	775	775	775	775
	Special Projects		**6,304**														
	WDT3			Following month		525	525	525	525	525	525	525	525	525	525	525	525
	Other		**101,707**														
	Direct Consulting			Following month													
	P3			Following month		6,950	7,069	6,529	7,234	8,522	9,573	10,034	11,349	11,779	8,766	7,689	6,213
	TOTAL COSTS (ONE MONTH LAG)		**$ 3,670,367**		**205,694**	**250,793**	**255,086**	**235,628**	**261,071**	**307,541**	**345,484**	**362,103**	**409,548**	**425,090**	**316,342**	**277,464**	**224,217**
	Variable Costs				143,986	208,796	213,089	193,631	213,661	260,131	298,074	314,693	362,138	377,680	273,686	234,808	181,560
	Fixed Costs				61,708	41,997	41,997	41,997	47,410	47,410	47,410	47,410	47,410	47,410	42,656	42,656	42,656
	Revenue (Two Month Lag)		**$ 3,668,899**		**315,340**	**222,749**	**250,793**	**255,086**	**235,628**	**261,071**	**307,541**	**345,484**	**362,103**	**409,548**	**425,090**	**316,342**	**277,464**
	Participants' payments				315,340	222,749	250,793	255,086	235,628	261,071	307,541	345,484	362,103	409,548	425,090	316,342	277,464
	Net Cash Increase / <Decrease>		**$ (1,468)**		**109,646**	**(28,045)**	**(4,293)**	**19,458**	**(25,442)**	**(46,470)**	**(37,943)**	**(16,619)**	**(47,445)**	**(15,542)**	**108,748**	**38,878**	**53,247**
	Reserve Use			630,390	740,036	711,991	707,698	727,156	701,714	655,243	617,300	600,681	553,236	537,694	646,442	685,320	738,568

Draft

Cash Flow Planning for PWRPA

Sonoma County Water Agency

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	73		5.2	5.3	4.8	5.0	6.1	6.9	6.7	8.3	7.0	6.6	5.8	4.9	
	Capacity	Meter Specific Peak 30 Min (MW)	80		5.7	5.8	5.3	5.5	6.7	7.6	7.4	9.1	7.8	7.3	6.4	5.4	
	Energy	Total Meter (MWh)	35,629		2,263	2,143	2,383	2,620	3,379	3,731	3,862	3,754	3,481	3,114	2,522	2,377	
	Energy	**Loss Adjusted Meter (MWh)**	**36,092**	1.30%	2,293	2,171	2,414	2,654	3,423	3,779	3,912	3,803	3,526	3,155	2,554	2,408	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 2,983,605**														
	Load Cost		**2,457,489**														
	CAISO Load			Following month		103,689	118,848	104,760	143,977	188,520	274,162	306,560	345,991	370,592	208,808	155,050	136,534
	WAPA Power		**($69,142)**														
	Base Resource & Restoration			Following month		6,434	6,434	6,434	16,333	16,333	16,333	16,333	16,333	16,333	7,639	7,639	7,639
	Pooling			Following month													
	Revenues			Following month		-	(530)	(0)	(18,947)	(29,196)	(35,365)	(44,499)	(25,574)	(18,001)	(15,397)	(8,916)	(15,027)
	Overhead			Following month		175	175	175	175	175	175	175	175	175	175	175	175
	Special Projects		**307,211**														
	Lodi Energy Center			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Lodi Energy Center - Debt			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Warm Sprhings Hydro			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		18,531	26,134	39,438	44,190	54,168	56,544	56,544	53,693	46,090	37,062	24,708	18,056
	Astoria			Following month		10,903	11,441	17,222	18,497	21,268	22,404	22,065	20,810	18,438	15,109	11,282	9,887
	Slate			Following month		3,135	4,369	6,671	7,663	8,842	9,173	9,304	8,831	7,583	6,024	3,862	2,974
	Revenues			Following month		(12,829)	(18,207)	(23,070)	(27,333)	(28,528)	(56,518)	(83,315)	(73,105)	(67,581)	(36,363)	(25,744)	(20,189)
	Overhead			Following month		2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256
	Supplemental Power & Attributes		**288,047**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766
	Renewable/Carbon Credits			Following month		11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238
	DELIVERY		**$ 2,204,199**														
	CAISO Grid Management		**142,515**														
	GMC & Misc			Following month		9,053	8,573	9,533	10,478	13,516	14,923	15,449	15,015	13,923	12,458	10,087	9,509
	Transmission		**1,293,746**														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		40,001	37,882	42,123	46,301	59,726	65,940	68,265	66,350	61,521	55,048	44,570	42,017
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		42,177	39,943	44,414	48,820	62,975	69,527	71,979	69,959	64,868	58,043	46,995	44,303
	Distribution		**767,937**														
	WDT Charges			Following month		64,427	73,977	65,801	63,556	58,809	53,682	62,813	54,084	57,998	57,081	78,492	47,437
	Admin			Following month		142	142	142	142	142	142	142	142	142	142	142	142
	Cost of Ownership			Following month		2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340
Costs - Overhead	**OVERHEAD**		**$ 299,705**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**131,149**														
	Utility Management			Following month		4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319
	Utility Operations - Fixed			Following month		3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335
	Utility Operations - Variable			Following month		1,554	1,554	1,554	1,554	1,554	1,554	1,554	1,554	1,554	1,554	1,554	1,554
	Metering			Following month		1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721
	Special Projects		**8,120**														
	WDT3			Following month		677	677	677	677	677	677	677	677	677	677	677	677
	Other		**152,060**														
	Direct Consulting			Following month													
	P3			Following month		9,312	9,977	10,105	11,251	13,328	15,163	15,467	16,918	17,470	12,732	11,093	9,244
	TOTAL COSTS (ONE MONTH LAG)		**$ 5,487,509**		**362,388**	**336,054**	**360,062**	**364,651**	**406,007**	**480,981**	**547,187**	**558,186**	**610,523**	**630,452**	**459,463**	**400,338**	**333,604**
	Variable Costs				253,671	289,077	313,085	317,673	349,131	424,105	490,311	501,310	553,647	573,576	411,280	352,155	285,421
	Fixed Costs				108,716	46,977	46,977	46,977	56,876	56,876	56,876	56,876	56,876	56,876	48,183	48,183	48,183
	Revenue (Two Month Lag)		**$ 5,553,639**		**521,228**	**399,734**	**336,054**	**360,062**	**364,651**	**406,007**	**480,981**	**547,187**	**558,186**	**610,523**	**630,452**	**459,463**	**400,338**
	Participants' payments				521,228	399,734	336,054	360,062	364,651	406,007	480,981	547,187	558,186	610,523	630,452	459,463	400,338
	Net Cash Increase / <Decrease>		**$ 66,130**		**158,840**	**63,680**	**(24,008)**	**(4,589)**	**(41,357)**	**(74,974)**	**(66,205)**	**(10,999)**	**(52,337)**	**(19,929)**	**170,989**	**59,125**	**66,734**
	Reserve Use			812,010	970,850	1,034,530	1,010,522	1,005,933	964,576	889,602	823,397	812,398	760,060	740,132	911,120	970,245	1,036,980

Draft

Cash Flow Planning for PWRPA

West Stanislaus Irrigation District

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	41		0.7	3.5	2.4	4.4	5.1	4.7	5.0	4.4	3.3	3.3	1.9	2.1	
	Capacity	Meter Specific Peak 30 Min (MW)	45		0.8	3.9	2.7	4.9	5.6	5.1	5.5	4.8	3.6	3.7	2.1	2.3	
	Energy	Total Meter (MWh)	18,580		250	647	1,060	2,158	2,864	2,449	2,651	2,067	1,376	1,365	831	863	
	Energy	**Loss Adjusted Meter (MWh)**	18,931	1.89%	254	660	1,080	2,199	2,918	2,495	2,701	2,106	1,402	1,390	846	879	
Costs - Power and Delivery	**POWER RESOURCES**		$ 1,313,022														
	Load Cost		1,291,858														
	CAISO Load			Following month		11,442	35,903	46,594	118,609	159,775	179,973	210,432	190,527	146,477	91,489	51,074	49,564
	WAPA Power		($130,130)														
	Base Resource & Restoration			Following month		12,109	12,109	12,109	30,739	30,739	30,739	30,739	30,739	30,739	14,378	14,378	14,378
	Pooling			Following month													
	Revenues			Following month		-	(997)	(0)	(35,660)	(54,949)	(66,559)	(83,749)	(48,132)	(33,878)	(28,978)	(16,780)	(28,282)
	Overhead			Following month		328	328	328	328	328	328	328	328	328	328	328	328
	Special Projects		3,188														
	Lodi Energy Center			Following month		18,405	11,280	11,118	-	11,133	10,773	21,524	21,963	20,731	17,982	16,784	19,333
	Lodi Energy Center - Debt			Following month		3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate			Following month		6,262	8,727	13,325	15,307	17,661	18,323	18,585	17,639	15,145	12,032	7,714	5,941
	Revenues			Following month		(18,089)	(20,532)	(20,630)	(12,639)	(19,964)	(37,171)	(56,190)	(59,544)	(48,180)	(40,154)	(22,771)	(23,460)
	Overhead			Following month		399	399	399	399	399	399	399	399	399	399	399	399
	Supplemental Power & Attributes		148,106														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		8,615	8,615	8,615	8,615	8,615	8,615	8,615	8,615	8,615	8,615	8,615	8,615
	Renewable/Carbon Credits			Following month		3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727
	DELIVERY		$ 1,088,142														
	CAISO Grid Management		74,321														
	GMC & Misc			Following month		999	2,590	4,240	8,632	11,455	9,796	10,605	8,269	5,503	5,458	3,323	3,452
	Transmission		330,272														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		4,439	11,509	18,841	38,360	50,907	43,532	47,126	36,744	24,454	24,256	14,765	15,339
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Distribution		683,549														
	WDT Charges			Following month		2,748	37,400	41,664	71,350	89,569	89,751	97,699	84,749	51,918	41,802	38,925	34,973
	Admin			Following month		83	83	83	83	83	83	83	83	83	83	83	83
	Cost of Ownership			Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**		$ 161,623														
	Joint Power Authority		8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		76,426														
	Utility Management			Following month		3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088
	Utility Operations - Fixed			Following month		2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385
	Utility Operations - Variable			Following month		811	811	811	811	811	811	811	811	811	811	811	811
	Metering			Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects		5,806														
	WDT3			Following month		484	484	484	484	484	484	484	484	484	484	484	484
	Other		71,015														
	Direct Consulting			Following month													
	P3			Following month		1,777	3,478	4,312	7,374	9,130	8,641	9,143	8,749	6,753	4,626	3,746	3,285
	TOTAL COSTS (ONE MONTH LAG)		$ 2,562,787		**137,331**	**64,133**	**125,506**	**155,613**	**266,112**	**329,498**	**311,837**	**329,952**	**315,743**	**243,701**	**166,931**	**135,198**	**118,563**
	Variable Costs				96,132	28,468	89,842	119,949	211,817	275,203	257,542	275,657	261,448	189,407	128,997	97,264	80,629
	Fixed Costs				41,199	35,665	35,665	35,665	54,295	54,295	54,295	54,295	54,295	54,295	37,934	37,934	37,934
	Revenue (Two Month Lag)		$ 2,606,275		**228,541**	**162,051**	**64,133**	**125,506**	**155,613**	**266,112**	**329,498**	**311,837**	**329,952**	**315,743**	**243,701**	**166,931**	**135,198**
	Participants' payments				228,541	162,051	64,133	125,506	155,613	266,112	329,498	311,837	329,952	315,743	243,701	166,931	135,198
	Net Cash Increase / <Decrease>		$ 43,488		**91,210**	**97,918**	**(61,374)**	**(30,107)**	**(110,498)**	**(63,386)**	**17,660**	**(18,115)**	**14,209**	**72,042**	**76,770**	**31,733**	**16,635**
	Reserve Use			580,580	671,790	769,708	708,334	678,227	567,729	504,343	522,003	503,888	518,097	590,139	666,909	698,643	715,278

Draft

Cash Flow Planning for PWRPA

Westlands Water District

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	**260**		3.4	6.4	9.5	22.7	39.8	45.1	40.6	30.3	19.3	21.0	9.4	12.8	
	Capacity	Meter Specific Peak 30 Min (MW)	**286**		3.7	7.0	10.4	25.0	43.8	49.6	44.7	33.3	21.2	23.1	10.4	14.1	
	Energy	Total Meter (MWh)	**150,212**		1,142	2,686	3,991	12,309	25,496	29,233	26,343	18,750	11,325	10,273	4,501	4,163	
	Energy	**Loss Adjusted Meter (MWh)**	**160,504**	6.85%	1,220	2,870	4,264	13,152	27,243	31,236	28,148	20,035	12,101	10,977	4,809	4,448	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 11,321,346**														
	Load Cost		**10,853,505**														
	CAISO Load			Following month		52,323	148,944	175,437	676,527	1,422,425	2,148,307	2,090,948	1,728,179	1,205,797	688,758	276,756	239,103
	WAPA Power		**($1,251,241)**														
	Base Resource & Restoration			Following month		116,430	116,430	116,430	295,565	295,565	295,565	295,565	295,565	295,565	138,249	138,249	138,249
	Pooling			Following month													
	Revenues			Following month		-	(9,590)	(0)	(342,884)	(528,351)	(639,989)	(805,277)	(462,807)	(325,750)	(278,631)	(161,341)	(271,945)
	Overhead			Following month		3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158
	Special Projects		**677,359**														
	Lodi Energy Center			Following month		106,480	65,259	64,318	-	64,405	62,327	124,521	127,065	119,932	104,032	97,103	111,846
	Lodi Energy Center - Debt			Following month		19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298
	BOR Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		19,855	28,000	42,255	47,346	58,037	60,582	60,582	57,528	49,382	39,709	26,473	19,346
	Astoria			Following month		35,990	37,766	56,847	61,058	70,203	73,953	72,835	68,690	60,860	49,872	37,240	32,634
	Slate			Following month		12,525	17,455	26,651	30,614	35,323	36,645	37,169	35,278	30,291	24,063	15,428	11,882
	Revenues			Following month		(97,964)	(114,865)	(96,762)	(70,282)	(121,011)	(216,418)	(350,507)	(311,785)	(274,073)	(195,815)	(137,106)	(146,658)
	Overhead			Following month		4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281
	Supplemental Power & Attributes		**1,041,723**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		37,717	37,717	37,717	37,717	37,717	37,717	37,717	37,717	37,717	37,717	37,717	37,717
	Renewable/Carbon Credits			Following month		49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094
	DELIVERY		**$ 17,765,516**														
	CAISO Grid Management		**600,848**														
	GMC & Misc			Following month		4,568	10,744	15,964	49,236	101,984	116,932	105,372	75,000	45,300	41,092	18,004	16,652
	Transmission		**5,751,286**														
	High voltage TAC (200kV & >)	$	17.4405	Following month		21,283	50,059	74,380	229,402	475,167	544,813	490,952	349,442	211,063	191,457	83,885	77,585
	Low voltage TAC (50kV-200kV)	$	18.3894	Following month		22,441	52,782	78,427	241,883	501,019	574,454	517,663	368,454	222,546	201,874	88,449	81,807
	Distribution		**11,413,382**														
	WDT Charges			Following month		213,868	409,518	640,734	1,170,501	1,375,813	1,412,188	1,358,629	1,186,915	969,535	860,969	749,128	501,851
	Admin			Following month		667	667	667	667	667	667	667	667	667	667	667	667
	Cost of Ownership			Following month		46,311	46,311	46,311	46,311	46,311	46,311	46,311	46,311	46,311	46,311	46,311	46,311
Costs - Overhead	**OVERHEAD**		**$ 1,743,010**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**858,999**														
	Utility Management			Following month		11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345
	Utility Operations - Fixed			Following month		8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761
	Utility Operations - Variable			Following month		6,553	6,553	6,553	6,553	6,553	6,553	6,553	6,553	6,553	6,553	6,553	6,553
	Metering			Following month		44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925
	Special Projects		**21,331**														
	WDT3			Following month		1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778
	Other		**854,304**														
	Direct Consulting			Following month													
	P3			Following month		21,158	29,842	40,734	74,771	113,577	134,062	120,642	106,935	81,083	59,856	41,805	29,838
	TOTAL COSTS (ONE MONTH LAG)		**$ 30,829,873**		**981,748**	**763,540**	**1,076,929**	**1,469,999**	**2,698,321**	**4,098,740**	**4,838,008**	**4,353,679**	**3,859,043**	**2,926,116**	**2,160,069**	**1,508,655**	**1,076,774**
	Variable Costs				687,223	414,304	727,693	1,120,762	2,169,949	3,570,368	4,309,636	3,825,307	3,330,671	2,397,744	1,789,014	1,137,600	705,719
	Fixed Costs				294,524	349,236	349,236	349,236	528,372	528,372	528,372	528,372	528,372	528,372	371,055	371,055	371,055
	Revenue (Two Month Lag)		**$ 30,759,163**		**2,059,692**	**1,006,064**	**763,540**	**1,076,929**	**1,469,999**	**2,698,321**	**4,098,740**	**4,838,008**	**4,353,679**	**3,859,043**	**2,926,116**	**2,160,069**	**1,508,655**
	Participants' payments				2,059,692	1,006,064	763,540	1,076,929	1,469,999	2,698,321	4,098,740	4,838,008	4,353,679	3,859,043	2,926,116	2,160,069	1,508,655
	Net Cash Increase / <Decrease>		**$ (70,709)**		**1,077,945**	**242,524**	**(313,388)**	**(393,070)**	**(1,228,322)**	**(1,400,419)**	**(739,268)**	**484,329**	**494,635**	**932,927**	**766,047**	**651,414**	**431,882**
	Reserve Use			2,133,140	3,211,085	3,453,609	3,140,220	2,747,150	1,518,828	118,409	(620,859)	(136,530)	358,106	1,291,033	2,057,080	2,708,494	3,140,375

Draft

Cash Flow Planning for PWRPA

Byron Bethany - West Side Irrigation District

Average Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		6		0.0	0.0	0.3	0.6	0.9	0.8	1.0	0.8	0.6	0.6	0.1	0.0	
	Capacity	Meter Specific Peak 30 Min (MW)		6		0.0	0.0	0.3	0.6	1.0	0.9	1.1	0.9	0.7	0.7	0.1	0.0	
	Energy	Total Meter (MWh)		2,631		15	12	54	274	414	468	451	370	294	226	31	22	
	Energy	**Loss Adjusted Meter (MWh)**	1.88%	2,680		15	12	55	279	422	477	460	377	299	230	31	23	
Costs - Power and Delivery	**POWER RESOURCES**			**$ 231,743**														
	Load Cost			**195,769**														
	CAISO Load				Following month		695	640	2,372	15,040	23,121	34,411	35,829	34,081	31,265	15,151	1,883	1,279
	WAPA Power			**($50,051)**														
	Base Resource & Restoration				Following month		4,657	4,657	4,657	11,823	11,823	11,823	11,823	11,823	11,823	5,530	5,530	5,530
	Pooling				Following month													
	Revenues				Following month		-	(384)	(0)	(13,716)	(21,135)	(25,600)	(32,212)	(18,513)	(13,030)	(11,146)	(6,454)	(10,878)
	Overhead				Following month		126	126	126	126	126	126	126	126	126	126	126	126
	Special Projects			**68,153**														
	Lodi Energy Center				Following month		15,423	9,452	9,316	-	9,329	9,028	18,036	18,405	17,371	15,068	14,065	16,200
	Lodi Energy Center - Debt				Following month		2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796
	Special Application				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate				Following month		937	1,305	1,993	2,289	2,641	2,740	2,779	2,638	2,265	1,799	1,154	888
	Revenues				Following month		(10,334)	(10,482)	(7,022)	(1,890)	(7,350)	(10,767)	(20,815)	(20,412)	(18,977)	(16,848)	(12,126)	(15,080)
	Overhead				Following month		966	966	966	966	966	966	966	966	966	966	966	966
	Supplemental Power & Attributes			**17,872**														
	Fixed Contract - Energy				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity				Following month		1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,005	1,005
	Renewable/Carbon Credits				Following month		484	484	484	484	484	484	484	484	484	484	484	484
	DELIVERY			**$ 225,543**														
	CAISO Grid Management			**10,523**														
	GMC & Misc				Following month		61	46	216	1,095	1,658	1,873	1,806	1,479	1,175	904	123	89
	Transmission			**96,081**														
	High voltage TAC (200kV & >)	$	17.4405		Following month		270	205	959	4,865	7,368	8,324	8,025	6,574	5,220	4,017	545	396
	Low voltage TAC (50kV-200kV)	$	18.3894		Following month		284	216	1,012	5,130	7,768	8,777	8,461	6,931	5,504	4,236	574	418
	Distribution			**118,940**														
	WDT Charges				Following month		613	581	13,081	15,763	13,937	15,186	16,515	12,142	10,863	10,109	4,757	5,192
	Admin				Following month		17	17	17	17	17	17	17	17	17	17	17	17
	Cost of Ownership				Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**			**$ 73,603**														
	Joint Power Authority			**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement			**46,608**														
	Utility Management				Following month		2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078
	Utility Operations - Fixed				Following month		1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605
	Utility Operations - Variable				Following month		115	115	115	115	115	115	115	115	115	115	115	115
	Metering				Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects			**3,908**														
	WDT3				Following month		326	326	326	326	326	326	326	326	326	326	326	326
	Other			**14,711**														
	Direct Consulting				Following month													
	P3				Following month		653	471	1,051	1,445	1,695	1,884	1,726	1,865	1,818	1,115	580	409
	TOTAL COSTS (ONE MONTH LAG)			**$ 530,890**		**11,213**	**23,560**	**17,011**	**37,937**	**52,145**	**61,156**	**67,980**	**62,274**	**67,315**	**65,598**	**40,238**	**20,932**	**14,745**
	Variable Costs					7,849	8,927	2,378	23,304	30,347	39,357	46,182	40,476	45,516	43,800	24,732	5,426	(761)
	Fixed Costs					3,364	14,633	14,633	14,633	21,799	21,799	21,799	21,799	21,799	21,799	15,506	15,506	15,506
	Revenue (Two Month Lag)			**$ 528,161**		**11,498**	**12,016**	**23,560**	**17,011**	**37,937**	**52,145**	**61,156**	**67,980**	**62,274**	**67,315**	**65,598**	**40,238**	**20,932**
	Participants' payments					11,498	12,016	23,560	17,011	37,937	52,145	61,156	67,980	62,274	67,315	65,598	40,238	20,932
	Net Cash Increase / <Decrease>			**$ (2,729)**		**285**	**(11,544)**	**6,550**	**(20,926)**	**(14,209)**	**(9,010)**	**(6,825)**	**5,706**	**(5,041)**	**1,717**	**25,360**	**19,306**	**6,187**
	Reserve Use				390,770	391,055	379,511	386,060	365,134	350,926	341,915	335,091	340,797	335,756	337,473	362,833	382,139	388,326

Draft

Cash Flow Planning for PWRPA

Zone 7 Water Agency

Average Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	**20**		1.5	1.8	0.9	1.2	1.2	1.2	1.5	1.7	1.7	2.3	3.2	1.9	
	Capacity	Meter Specific Peak 30 Min (MW)	**22**		1.6	2.0	1.0	1.3	1.4	1.3	1.6	1.9	1.9	2.6	3.5	2.1	
	Energy	Total Meter (MWh)	**7,654**		609	581	546	572	644	554	638	701	842	804	740	422	
	Energy	**Loss Adjusted Meter (MWh)**	**7,916**	3.42%	630	600	565	591	666	573	660	725	871	832	766	437	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 567,269**														
	Load Cost		**520,831**														
	CAISO Load			Following month		27,922	32,191	24,009	31,431	35,935	40,711	50,666	64,648	89,640	53,905	45,513	24,259
	WAPA Power		**($5,596)**														
	Base Resource & Restoration			Following month		521	521	521	1,322	1,322	1,322	1,322	1,322	1,322	618	618	618
	Pooling			Following month													
	Revenues			Following month		-	(43)	(0)	(1,534)	(2,363)	(2,862)	(3,602)	(2,070)	(1,457)	(1,246)	(722)	(1,216)
	Overhead			Following month		14	14	14	14	14	14	14	14	14	14	14	14
	Special Projects		**10,506**														
	Lodi Energy Center			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Lodi Energy Center - Debt			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		1,323	1,866	2,817	3,156	3,869	4,038	4,038	3,835	3,292	2,647	1,765	1,290
	Astoria			Following month		1,564	1,641	2,470	2,653	3,050	3,213	3,164	2,984	2,644	2,167	1,618	1,418
	Slate			Following month		1,564	2,179	3,327	3,822	4,410	4,575	4,640	4,404	3,781	3,004	1,926	1,483
	Revenues			Following month		(2,657)	(3,668)	(5,132)	(4,962)	(5,280)	(11,299)	(15,451)	(15,543)	(12,536)	(8,369)	(4,448)	(3,288)
	Overhead			Following month		126	126	126	126	126	126	126	126	126	126	126	126
	Supplemental Power & Attributes		**41,529**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191
	Renewable/Carbon Credits			Following month		269	269	269	269	269	269	269	269	269	269	269	269
	DELIVERY		**$ 935,910**														
	CAISO Grid Management		**30,617**														
	GMC & Misc			Following month		2,438	2,322	2,185	2,287	2,576	2,216	2,553	2,806	3,368	3,216	2,961	1,689
	Transmission		**151,806**														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		10,832	10,319	9,708	10,165	11,449	9,847	11,346	12,467	14,965	14,291	13,157	7,508
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		1,254	1,195	1,124	1,177	1,326	1,140	1,314	1,443	1,733	1,655	1,523	869
	Distribution		**753,486**														
	WDT Charges			Following month		58,114	56,632	55,791	47,420	57,204	62,902	65,993	68,490	66,804	63,432	100,441	34,955
	Admin			Following month		392	392	392	392	392	392	392	392	392	392	392	392
	Cost of Ownership			Following month		884	884	884	884	884	884	884	884	884	884	884	884
Costs - Overhead	**OVERHEAD**		**$ 117,088**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**59,375**														
	Utility Management			Following month		2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361
	Utility Operations - Fixed			Following month		1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823
	Utility Operations - Variable			Following month		334	334	334	334	334	334	334	334	334	334	334	334
	Metering			Following month		430	430	430	430	430	430	430	430	430	430	430	430
	Special Projects		**4,439**														
	WDT3			Following month		370	370	370	370	370	370	370	370	370	370	370	370
	Other		**44,898**														
	Direct Consulting			Following month													
	P3			Following month		3,242	3,307	3,070	3,073	3,545	3,611	3,901	4,437	5,257	4,167	4,994	2,294
	TOTAL COSTS (ONE MONTH LAG)		**$ 1,620,267**		**60,463**	**117,008**	**119,354**	**110,781**	**110,902**	**127,934**	**130,305**	**140,777**	**160,115**	**189,704**	**150,379**	**180,237**	**82,770**
	Variable Costs				42,324	105,966	108,311	99,738	99,058	116,090	118,461	128,933	148,271	177,860	139,239	169,097	71,630
	Fixed Costs				18,139	11,043	11,043	11,043	11,844	11,844	11,844	11,844	11,844	11,844	11,140	11,140	11,140
	Revenue (Two Month Lag)		**$ 1,601,675**		**87,251**	**64,179**	**117,008**	**119,354**	**110,781**	**110,902**	**127,934**	**130,305**	**140,777**	**160,115**	**189,704**	**150,379**	**180,237**
	Participants' payments				87,251	64,179	117,008	119,354	110,781	110,902	127,934	130,305	140,777	160,115	189,704	150,379	180,237
	Net Cash Increase / <Decrease>		**$ (18,591)**		**26,788**	**(52,830)**	**(2,346)**	**8,573**	**(121)**	**(17,032)**	**(2,371)**	**(10,472)**	**(19,338)**	**(29,589)**	**39,325**	**(29,858)**	**97,467**
	Reserve Use			443,870	470,658	417,828	415,483	424,056	423,935	406,903	404,532	394,060	374,722	345,133	384,458	354,600	452,067

Draft

Cash Flow Planning for PWRPA

Powr and Water Resources Pooling Authority

Dry Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		**828**		32.0	54.1	69.6	89.5	99.7	102.7	97.5	87.4	70.4	70.7	28.0	26.5	
	Capacity	Meter Specific Peak 30 Min (MW)		**911**		35.2	59.5	76.6	98.4	109.6	113.0	107.3	96.1	77.4	77.8	30.8	29.1	
	Energy	Total Meter (MWh)		**468,788**		13,561	21,505	32,063	48,710	63,896	67,014	64,763	54,739	42,041	35,176	14,519	10,800	
	Energy	**Loss Adjusted Meter (MWh)**	3.00%	**482,852**		13,968	22,150	33,025	50,171	65,813	69,025	66,706	56,381	43,302	36,231	14,955	11,124	
Costs - Power and Delivery	**POWER RESOURCES**			**$ 36,880,593**														
	Load Cost			**38,014,147**														
	CAISO Load		Following month				718,910	1,051,551	1,615,022	3,379,355	4,530,991	5,814,658	5,231,174	6,149,545	5,607,208	2,340,760	932,833	642,139
	WAPA Power			**($5,468,864)**														
	Base Resource & Restoration		Following month				240,982	240,982	240,982	611,750	611,750	611,750	611,750	611,750	611,750	286,142	286,142	286,142
	Pooling		Following month															
	Revenues		Following month				-	(273,896)	(448,422)	(1,370,225)	(1,691,098)	(2,035,858)	(1,474,377)	(1,478,976)	(1,328,653)	(423,456)	(268,586)	(5,629)
	Overhead		Following month				6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536	6,536
	Special Projects			**614,858**														
	Lodi Energy Center		Following month				367,801	225,417	222,167	-	222,466	215,289	430,115	438,903	414,266	359,345	335,409	386,335
	Lodi Energy Center - Debt		Following month				66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667	66,667
	Warm Springs Hydro & WWD BOR		Following month				-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point		Following month				72,800	102,666	154,933	173,599	212,799	222,133	222,133	210,933	181,066	145,600	97,066	70,933
	Astoria		Following month				104,090	109,228	164,413	176,592	203,043	213,889	210,654	198,666	176,021	144,242	107,706	94,385
	Slate		Following month				81,420	113,466	173,247	199,012	229,621	238,218	241,625	229,328	196,909	156,425	100,291	77,241
	Revenues		Following month				(454,144)	(349,416)	(330,113)	(330,273)	(527,548)	(1,131,874)	(1,421,155)	(1,672,918)	(1,764,810)	(845,895)	(502,119)	(464,026)
	Overhead		Following month				15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437	15,437
	Supplemental Power & Attributes			**3,720,452**														
	Fixed Contract - Energy		Following month				-	-	-	-	-	-	-	-	-	-	-	-
	Revenues		Following month				-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequecy/Capacity		Following month				209,000	209,000	209,000	209,000	209,000	209,000	209,000	209,000	209,000	209,000	209,000	209,000
	Renewable/Carbon Credits		Following month				101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038	101,038
	DELIVERY			**$ 43,028,178**														
	CAISO Grid Management			**2,109,546**														
	GMC & Misc		Following month				61,025	96,772	144,285	219,195	287,533	301,564	291,435	246,324	189,185	158,293	65,337	48,600
	Transmission			**16,725,092**														
	High voltage TAC (200kV & >)	$	17.4405	Following month			244,788	390,184	581,382	885,946	1,165,627	1,223,732	1,182,234	998,154	765,475	639,987	263,174	195,507
	Low voltage TAC (50kV-200kV)	$	18.3894	Following month			225,381	373,218	520,808	826,551	1,129,765	1,215,258	1,174,848	983,047	736,896	605,351	231,792	165,986
	Distribution			**24,193,539**														
	WDT Charges		Following month				1,297,658	1,573,554	1,897,489	2,397,569	2,512,048	2,581,313	2,521,183	2,347,723	2,110,713	1,891,645	1,340,495	866,782
	Admin		Following month				2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917
	Cost of Ownership		Following month				68,364	68,364	68,364	68,364	68,364	68,364	68,364	68,364	68,364	68,364	68,364	68,364
Costs - Overhead	**OVERHEAD**			**$ 2,113,152**														
	Joint Power Authority			**117,263**	Following month		9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772	9,772
	Aggregate Service Agreement			**2,013,152**														
	Utility Management		Following month				53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183	53,183
	Utility Operations - Fixed		Following month				41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072	41,072
	Utility Operations - Variable		Following month				17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652	17,652
	Metering		Following month				55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855	55,855
	Special Projects			**100,000**														
	WDT		Following month				8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333
	Other			**2,340,967**														
	Direct Consulting		Following month															
	P3		Following month				103,071	122,822	159,373	223,010	271,970	288,588	281,507	282,672	243,728	174,257	103,893	86,076
	TOTAL COSTS (ONE MONTH LAG)			**$ 84,480,152**		**2,429,121**	**3,719,608**	**4,432,376**	**5,751,392**	**8,047,907**	**9,814,793**	**10,414,487**	**10,158,952**	**10,200,976**	**8,795,582**	**6,288,521**	**3,749,259**	**3,106,298**
	Variable Costs					1,700,385	2,831,133	3,543,901	4,862,917	6,788,664	8,555,549	9,155,244	8,899,709	8,941,733	7,536,339	5,354,886	2,815,625	2,172,663
	Fixed Costs					728,736	888,475	888,475	888,475	1,259,243	1,259,243	1,259,243	1,259,243	1,259,243	1,259,243	933,635	933,635	933,635
	Revenue (Two Month Lag)			**$ 83,870,769**		**4,836,856**	**2,496,914**	**3,719,608**	**4,432,376**	**5,751,392**	**8,047,907**	**9,814,793**	**10,414,487**	**10,158,952**	**10,200,976**	**8,795,582**	**6,288,521**	**3,749,259**
	Participants' payments					4,836,856	2,496,914	3,719,608	4,432,376	5,751,392	8,047,907	9,814,793	10,414,487	10,158,952	10,200,976	8,795,582	6,288,521	3,749,259
	Net Cash Increase / <Decrease>			**$ (609,384)**		**2,407,736**	**(1,222,694)**	**(712,768)**	**(1,319,016)**	**(2,296,515)**	**(1,766,885)**	**(599,695)**	**255,535**	**(42,024)**	**1,405,394**	**2,507,062**	**2,539,261**	**642,962**
	Reserve Use				10,000,000	12,407,736	11,185,041	10,472,273	9,153,257	6,856,743	5,089,857	4,490,162	4,745,697	4,703,673	6,109,067	8,616,129	11,155,390	11,798,352

Draft

Cash Flow Planning for PWRPA

Arvin-Edison Water Storage District

Dry Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		**258**		8.5	18.7	21.8	29.7	30.6	30.3	27.8	25.8	23.0	27.4	8.3	6.5	
	Capacity	Meter Specific Peak 30 Min (MW)		**284**		9.4	20.6	24.0	32.6	33.6	33.3	30.6	28.4	25.3	30.2	9.1	7.1	
	Energy	Total Meter (MWh)		**128,238**		2,410	4,283	8,052	14,711	17,710	18,766	17,701	15,760	13,378	12,025	2,568	874	
	Energy	**Loss Adjusted Meter (MWh)**	2.87%	**131,917**		2,479	4,406	8,283	15,133	18,218	19,305	18,209	16,213	13,761	12,370	2,642	899	
Costs - Power and Delivery	**POWER RESOURCES**			**$ 9,845,340**														
	Load Cost			**10,649,215**														
	CAISO Load		Following month				127,749	209,439	405,558	1,020,632	1,255,857	1,628,315	1,429,758	1,770,582	1,784,222	800,180	164,984	51,939
	WAPA Power			**($1,585,355)**														
	Base Resource & Restoration		Following month				69,858	69,858	69,858	177,339	177,339	177,339	177,339	177,339	177,339	82,949	82,949	82,949
	Pooling		Following month															
	Revenues		Following month				-	(79,399)	(129,992)	(397,211)	(490,228)	(590,170)	(427,403)	(428,736)	(385,160)	(122,755)	(77,860)	(1,632)
	Overhead		Following month				1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895	1,895
	Special Projects			**275,379**														
	Lodi Energy Center		Following month				87,014	53,329	52,560	-	52,631	50,933	101,756	103,835	98,007	85,013	79,351	91,399
	Lodi Energy Center - Debt		Following month				15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773	15,773
	Special Application		Following month				-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point		Following month				23,163	32,666	49,297	55,236	67,708	70,678	70,678	67,115	57,612	46,327	30,885	22,569
	Astoria		Following month				39,915	41,885	63,047	67,717	77,860	82,020	80,779	76,182	67,498	55,312	41,302	36,194
	Slate		Following month				28,193	39,290	59,990	68,912	79,511	82,488	83,667	79,409	68,184	54,165	34,728	26,746
	Revenues		Following month				(123,523)	(93,798)	(97,660)	(106,103)	(151,983)	(331,437)	(419,154)	(497,841)	(497,846)	(252,766)	(142,457)	(125,715)
	Overhead		Following month				3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470	3,470
	Supplemental Power & Attributes			**506,101**														
	Fixed Contract - Energy		Following month				-	-	-	-	-	-	-	-	-	-	-	-
	Revenues		Following month				-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity		Following month				43,081	43,081	43,081	43,081	43,081	43,081	43,081	43,081	43,081	43,081	43,081	43,081
	Renewable/Carbon Credits		Following month				(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)	(906)
	DELIVERY			**$ 11,230,865**														
	CAISO Grid Management			**577,069**														
	GMC & Misc		Following month				10,844	19,274	36,232	66,201	79,696	84,449	79,654	70,922	60,199	54,112	11,556	3,931
	Transmission			**4,764,764**														
	High voltage TAC (200kV & >)	$	Following month	17.4405			43,583	77,465	145,621	266,069	320,303	339,407	320,134	285,041	241,945	217,480	46,443	15,799
	Low voltage TAC (50kV-200kV)	$	Following month	18.3894			45,954	81,679	153,544	280,545	337,730	357,873	337,552	300,549	255,108	229,313	48,970	16,658
	Distribution			**5,889,033**														
	WDT Charges		Following month				292,841	405,435	499,113	603,995	621,767	598,789	600,476	599,774	547,348	522,019	204,048	212,469
	Admin		Following month				500	500	500	500	500	500	500	500	500	500	500	500
	Cost of Ownership		Following month				14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580	14,580
Costs - Overhead	**OVERHEAD**			**$ 960,517**														
	Joint Power Authority		Following month	**8,376**			698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement			**323,918**														
	Utility Management		Following month				9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350	9,350
	Utility Operations - Fixed		Following month				7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221	7,221
	Utility Operations - Variable		Following month				4,829	4,829	4,829	4,829	4,829	4,829	4,829	4,829	4,829	4,829	4,829	4,829
	Metering		Following month				5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594	5,594
	Special Projects			**17,580**														
	WDT3		Following month				1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465	1,465
	Other			**610,643**														
	Direct Consulting		Following month															
	P3		Following month				21,464	27,493	40,319	63,010	72,269	75,760	72,469	77,284	73,587	53,549	18,025	15,414
	TOTAL COSTS			**$ 22,036,722**		**409,768**	**774,604**	**992,165**	**1,455,035**	**2,273,890**	**2,608,007**	**2,733,990**	**2,615,254**	**2,789,000**	**2,655,591**	**1,932,446**	**650,472**	**556,269**
	Variable Costs					286,838	598,663	816,223	1,279,094	1,990,468	2,324,585	2,450,568	2,331,832	2,505,578	2,372,169	1,743,414	461,440	367,237
	Fixed Costs					122,930	175,941	175,941	175,941	283,422	283,422	283,422	283,422	283,422	283,422	189,032	189,032	189,032
	Revenue (Two Month Lag)			**$ 21,831,134**		**1,129,160**	**350,681**	**774,604**	**992,165**	**1,455,035**	**2,273,890**	**2,608,007**	**2,733,990**	**2,615,254**	**2,789,000**	**2,655,591**	**1,932,446**	**650,472**
	Participants' payments					1,129,160	350,681	774,604	992,165	1,455,035	2,273,890	2,608,007	2,733,990	2,615,254	2,789,000	2,655,591	1,932,446	650,472
	Net Cash Increase / <Decrease>			**$ (205,588)**		**719,392**	**(423,923)**	**(217,561)**	**(462,870)**	**(818,855)**	**(334,117)**	**(125,983)**	**118,736**	**(173,746)**	**133,409**	**723,145**	**1,281,974**	**94,203**
	Reserve Use				1,758,010	2,477,402	2,053,479	1,835,918	1,373,048	554,193	220,076	94,093	212,829	39,083	172,492	895,637	2,177,611	2,271,814

Draft

Cash Flow Planning for PWRPA

Banta-Carbona Irrigation District

Dry Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		37		3.1	3.8	5.4	4.9	4.5	3.1	3.4	2.9	3.5	1.2	0.9	0.5	
	Capacity	Meter Specific Peak 30 Min (MW)		41		3.4	4.2	5.9	5.4	4.9	3.4	3.8	3.2	3.9	1.3	1.0	0.6	
	Energy	Total Meter (MWh)		19,435		1,700	2,200	2,800	2,800	2,700	1,800	1,900	1,400	1,400	500	170	65	
	Energy	**Loss Adjusted Meter (MWh)**	0.00%	**19,435**		1,700	2,200	2,800	2,800	2,700	1,800	1,900	1,400	1,400	500	170	65	
Costs - Power and Delivery	**POWER RESOURCES**			**$ 1,633,211**														
	Load Cost			**1,426,166**														
	CAISO Load				Following month		90,122	107,576	141,035	194,256	191,462	156,182	153,470	157,281	186,724	33,272	10,922	3,865
	WAPA Power			**($195,527)**														
	Base Resource & Restoration				Following month		8,616	8,616	8,616	21,872	21,872	21,872	21,872	21,872	21,872	10,230	10,230	10,230
	Pooling				Following month													
	Revenues				Following month		-	(9,793)	(16,032)	(48,989)	(60,461)	(72,787)	(52,713)	(52,877)	(47,503)	(15,140)	(9,603)	(201)
	Overhead				Following month		234	234	234	234	234	234	234	234	234	234	234	234
	Special Projects			**(3,268)**														
	Lodi Energy Center				Following month		32,724	20,056	19,767	-	19,793	19,155	38,268	39,050	36,858	31,972	29,842	34,373
	Lodi Energy Center - Debt				Following month		5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932	5,932
	Special Application				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate				Following month		6,262	8,727	13,325	15,307	17,661	18,323	18,585	17,639	15,145	12,032	7,714	5,941
	Revenues				Following month		(31,799)	(22,732)	(18,779)	(12,639)	(24,896)	(60,696)	(79,566)	(91,574)	(100,085)	(53,725)	(34,057)	(34,241)
	Overhead				Following month		985	985	985	985	985	985	985	985	985	985	985	985
	Supplemental Power & Attributes			**405,840**														
	Fixed Contract - Energy				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity				Following month		26,800	26,800	26,800	26,800	26,800	26,800	26,800	26,800	26,800	26,800	26,800	26,800
	Renewable/Carbon Credits				Following month		7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020	7,020
	DELIVERY			**$ 783,811**														
	CAISO Grid Management			**87,458**														
	GMC & Misc				Following month		7,650	9,900	12,600	12,600	12,150	8,100	8,550	6,300	6,300	2,250	765	293
	Transmission			**696,354**														
	High voltage TAC (200kV & >)	$	17.4405		Following month		29,649	38,369	48,833	48,833	47,089	31,393	33,137	24,417	24,417	8,720	2,965	1,134
	Low voltage TAC (50kV-200kV)	$	18.3894		Following month		31,262	40,457	51,490	51,490	49,651	33,101	34,940	25,745	25,745	9,195	3,126	1,195
	Distribution			**-**														
	WDT Charges				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Admin				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Cost of Ownership				Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**			**$ 162,687**														
	Joint Power Authority			**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement			**76,896**														
	Utility Management				Following month		3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154	3,154
	Utility Operations - Fixed				Following month		2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436	2,436
	Utility Operations - Variable				Following month		732	732	732	732	732	732	732	732	732	732	732	732
	Metering				Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects			**5,931**														
	WDT3				Following month		494	494	494	494	494	494	494	494	494	494	494	494
	Other			**71,484**														
	Direct Consulting				Following month													
	P3				Following month		6,357	7,118	8,819	9,442	9,202	5,792	6,416	5,598	6,214	2,490	2,009	2,028
	TOTAL COSTS (ONE MONTH LAG)			**$ 2,579,710**		**31,705**	**229,413**	**256,864**	**318,244**	**340,743**	**332,095**	**209,004**	**231,529**	**202,021**	**224,258**	**89,867**	**72,484**	**73,187**
	Variable Costs					22,194	172,721	200,172	261,552	270,795	262,147	139,056	161,581	132,073	154,310	31,560	14,177	14,881
	Fixed Costs					9,512	56,692	56,692	56,692	69,948	69,948	69,948	69,948	69,948	69,948	58,307	58,307	58,307
	Revenue (Two Month Lag)			**$ 2,541,740**		**89,305**	**35,218**	**229,413**	**256,864**	**318,244**	**340,743**	**332,095**	**209,004**	**231,529**	**202,021**	**224,258**	**89,867**	**72,484**
	Participants' payments					89,305	35,218	229,413	256,864	318,244	340,743	332,095	209,004	231,529	202,021	224,258	89,867	72,484
	Net Cash Increase / <Decrease>			**$ (37,969)**		**57,600**	**(194,196)**	**(27,451)**	**(61,380)**	**(22,498)**	**8,648**	**123,091**	**(22,525)**	**29,508**	**(22,237)**	**134,392**	**17,382**	**(703)**
	Reserve Use				593,080	650,680	456,484	429,033	367,653	345,155	353,802	476,894	454,368	483,876	461,639	596,031	613,413	612,710

Draft

Cash Flow Planning for PWRPA

Cawelo Water District

Dry Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		28		0.7	3.2	1.5	0.6	2.2	3.7	5.2	4.7	3.1	2.1	0.7	0.1	
	Capacity	Meter Specific Peak 30 Min (MW)		31		0.8	3.6	1.7	0.7	2.4	4.1	5.7	5.1	3.4	2.3	0.8	0.1	
	Energy	Total Meter (MWh)		9,827		58	762	139	205	1,007	1,796	2,075	2,067	883	571	246	18	
	Energy	**Loss Adjusted Meter (MWh)**	5.29%	10,347		61	803	146	216	1,061	1,891	2,185	2,176	929	602	259	19	
Costs - Power and Delivery	**POWER RESOURCES**			$ 1,022,824														
	Load Cost			861,230														
	CAISO Load				Following month		3,089	37,275	6,997	14,204	71,425	155,795	167,581	232,196	117,730	38,029	15,830	1,079
	WAPA Power			($93,898)														
	Base Resource & Restoration				Following month		4,138	4,138	4,138	10,503	10,503	10,503	10,503	10,503	10,503	4,913	4,913	4,913
	Pooling				Following month													
	Revenues				Following month		-	(4,703)	(7,699)	(23,526)	(29,035)	(34,955)	(25,314)	(25,393)	(22,812)	(7,271)	(4,611)	(97)
	Overhead				Following month		112	112	112	112	112	112	112	112	112	112	112	112
	Special Projects			(48,528)														
	Lodi Energy Center				Following month		27,541	16,879	16,636	-	16,658	16,121	32,207	32,865	31,021	26,908	25,116	28,929
	Lodi Energy Center - Debt				Following month		4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992	4,992
	Special Application				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria				Following month		6,235	6,543	9,848	10,578	12,162	12,812	12,618	11,900	10,543	8,640	6,451	5,653
	Slate				Following month		12,997	18,113	27,656	31,769	36,655	38,027	38,571	36,608	31,433	24,970	16,010	12,330
	Revenues				Following month		(35,910)	(25,499)	(28,898)	(30,730)	(43,405)	(97,202)	(125,511)	(145,487)	(136,398)	(81,067)	(44,227)	(39,327)
	Overhead				Following month		1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268
	Supplemental Power & Attributes			304,020														
	Fixed Contract - Energy				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity				Following month		25,460	25,460	25,460	25,460	25,460	25,460	25,460	25,460	25,460	25,460	25,460	25,460
	Renewable/Carbon Credits				Following month		(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)
	DELIVERY			$ 840,290														
	CAISO Grid Management			44,223														
	GMC & Misc				Following month		262	3,430	625	921	4,533	8,080	9,336	9,301	3,972	2,572	1,109	82
	Transmission			359,924														
	High voltage TAC (200kV & >)	$	17.4405		Following month		1,039	13,590	2,476	3,650	17,956	32,010	36,987	36,847	15,736	10,188	4,393	324
	Low voltage TAC (50kV-200kV)	$	18.3894		Following month		1,095	14,329	2,611	3,848	18,933	33,752	38,999	38,851	16,593	10,742	4,632	341
	Distribution			436,143														
	WDT Charges				Following month		6,557	34,460	28,163	14,930	53,774	57,068	77,407	51,944	43,145	31,800	20,474	2,689
	Admin				Following month		133	133	133	133	133	133	133	133	133	133	133	133
	Cost of Ownership				Following month		1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011	1,011
Costs - Overhead	**OVERHEAD**			$ 136,280														
	Joint Power Authority			8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement			67,392														
	Utility Management				Following month		2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717	2,717
	Utility Operations - Fixed				Following month		2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098
	Utility Operations - Variable				Following month		370	370	370	370	370	370	370	370	370	370	370	370
	Metering				Following month		430	430	430	430	430	430	430	430	430	430	430	430
	Special Projects			5,109														
	WDT3				Following month		426	426	426	426	426	426	426	426	426	426	426	426
	Other			55,404														
	Direct Consulting				Following month													
	P3				Following month		1,899	4,507	2,911	2,159	5,978	7,741	8,920	9,397	4,590	3,135	2,556	1,611
	TOTAL COSTS (ONE MONTH LAG)			$ 1,999,394		**30,663**	**68,535**	**162,656**	**105,056**	**77,898**	**215,730**	**279,343**	**321,896**	**339,125**	**165,648**	**113,152**	**92,236**	**58,120**
	Variable Costs					21,464	25,231	119,352	61,752	28,228	166,060	229,674	272,226	289,455	115,978	69,072	48,157	14,040
	Fixed Costs					9,199	43,304	43,304	43,304	49,670	49,670	49,670	49,670	49,670	49,670	44,079	44,079	44,079
	Revenue (Two Month Lag)			$ 1,974,775		**87,831**	**33,501**	**68,535**	**162,656**	**105,056**	**77,898**	**215,730**	**279,343**	**321,896**	**339,125**	**165,648**	**113,152**	**92,236**
	Participants' payments					87,831	33,501	68,535	162,656	105,056	77,898	215,730	279,343	321,896	339,125	165,648	113,152	92,236
	Net Cash Increase / <Decrease>			$ (24,618)		**57,168**	**(35,034)**	**(94,121)**	**57,600**	**27,159**	**(137,832)**	**(63,614)**	**(42,552)**	**(17,229)**	**173,477**	**52,496**	**20,916**	**34,116**
	Reserve Use				510,910	568,078	533,044	438,923	496,523	523,681	385,849	322,236	279,683	262,454	435,931	488,427	509,343	543,459

Draft

Cash Flow Planning for PWRPA

Glenn-Colusa Irrigation District

Dry Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	21		0.6	0.7	0.6	2.9	3.1	3.7	3.6	3.1	1.1	0.7	0.5	0.9	
	Capacity	Meter Specific Peak 30 Min (MW)	24		0.6	0.8	0.7	3.2	3.4	4.0	4.0	3.5	1.2	0.7	0.6	0.9	
	Energy	Total Meter (MWh)	10,500		128	104	208	945	1,730	2,147	2,351	1,719	431	298	159	279	
	Energy	**Loss Adjusted Meter (MWh)**	10,587	0.83%	130	104	210	952	1,744	2,165	2,371	1,734	435	301	160	281	
Costs - Power and Delivery	**POWER RESOURCES**		$ 804,917														
	Load Cost		884,128														
	CAISO Load			Following month		6,812	5,066	10,477	65,538	122,652	186,316	189,910	193,155	57,539	19,862	10,220	16,582
	WAPA Power		($176,661)														
	Base Resource & Restoration			Following month		7,784	7,784	7,784	19,761	19,761	19,761	19,761	19,761	19,761	9,243	9,243	9,243
	Pooling			Following month													
	Revenues			Following month		-	(8,848)	(14,485)	(44,263)	(54,628)	(65,765)	(47,627)	(47,776)	(42,920)	(13,679)	(8,676)	(182)
	Overhead			Following month		211	211	211	211	211	211	211	211	211	211	211	211
	Special Projects		43,045														
	Lodi Energy Center			Following month		18,466	11,318	11,155	-	11,170	10,809	21,595	22,036	20,799	18,042	16,840	19,397
	Lodi Energy Center - Debt			Following month		3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347	3,347
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		1,985	2,800	4,225	4,734	5,803	6,058	6,058	5,752	4,938	3,970	2,647	1,934
	Astoria			Following month		3,299	3,462	5,210	5,596	6,435	6,778	6,676	6,296	5,578	4,571	3,413	2,991
	Slate			Following month		2,345	3,268	4,991	5,733	6,614	6,862	6,960	6,606	5,672	4,506	2,889	2,225
	Revenues			Following month		(19,403)	(14,294)	(11,645)	(8,862)	(16,553)	(38,342)	(49,196)	(58,276)	(65,260)	(31,139)	(20,092)	(19,936)
	Overhead			Following month		364	364	364	364	364	364	364	364	364	364	364	364
	Supplemental Power & Attributes		54,405														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830	3,830
	Renewable/Carbon Credits			Following month		704	704	704	704	704	704	704	704	704	704	704	704
	DELIVERY		$ 657,179														
	CAISO Grid Management		47,250														
	GMC & Misc			Following month		578	466	936	4,251	7,783	9,663	10,580	7,737	1,941	1,343	716	1,255
	Transmission		379,264														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		2,262	1,824	3,661	16,627	30,443	37,794	41,382	30,261	7,593	5,254	2,800	4,909
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		2,380	1,919	3,852	17,495	32,032	39,767	43,542	31,841	7,989	5,528	2,946	5,165
	Distribution		230,666														
	WDT Charges			Following month		12,025	11,260	9,228	19,072	21,864	38,662	37,974	35,841	14,200	3,077	5,974	8,084
	Admin			Following month		317	317	317	317	317	317	317	317	317	317	317	317
	Cost of Ownership			Following month		800	800	800	800	800	800	800	800	800	800	800	800
Costs - Overhead	**OVERHEAD**		$ 129,714														
	Joint Power Authority		8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		72,431														
	Utility Management			Following month		2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551
	Utility Operations - Fixed			Following month		1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970	1,970
	Utility Operations - Variable			Following month		395	395	395	395	395	395	395	395	395	395	395	395
	Metering			Following month		1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119	1,119
	Special Projects		4,797														
	WDT3			Following month		400	400	400	400	400	400	400	400	400	400	400	400
	Other		44,109														
	Direct Consulting			Following month													
	P3			Following month		1,574	1,218	1,485	3,488	5,987	7,840	8,673	7,693	1,554	1,348	1,300	1,949
	TOTAL COSTS (ONE MONTH LAG)		$ 1,591,810		**59,721**	**56,815**	**43,950**	**53,581**	**125,877**	**216,070**	**282,911**	**312,994**	**277,636**	**56,094**	**48,633**	**46,926**	**70,323**
	Variable Costs				41,804	32,723	19,858	29,489	89,809	180,002	246,843	276,926	241,567	20,025	23,083	21,375	44,772
	Fixed Costs				17,916	24,092	24,092	24,092	36,069	36,069	36,069	36,069	36,069	36,069	25,550	25,550	25,550
	Revenue (Two Month Lag)		$ 1,583,212		**70,713**	**61,724**	**56,815**	**43,950**	**53,581**	**125,877**	**216,070**	**282,911**	**312,994**	**277,636**	**56,094**	**48,633**	**46,926**
	Participants' payments				70,713	61,724	56,815	43,950	53,581	125,877	216,070	282,911	312,994	277,636	56,094	48,633	46,926
	Net Cash Increase / <Decrease>		$ (8,598)		**10,993**	**4,909**	**12,865**	**(9,631)**	**(72,297)**	**(90,193)**	**(66,841)**	**(30,083)**	**35,358**	**221,542**	**7,460**	**1,708**	**(23,397)**
	Reserve Use				479,730	490,723	495,632	508,497	498,867	426,570	336,377	269,536	239,453	274,811	496,353	503,814	505,521	482,124

Draft

Cash Flow Planning for PWRPA

James Irrigation District

Dry Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	**10**		0.4	0.7	0.7	0.9	1.1	1.3	1.1	0.9	0.7	1.2	0.8	0.0	
	Capacity	Meter Specific Peak 30 Min (MW)	**11**		0.5	0.7	0.8	1.0	1.2	1.4	1.2	1.0	0.8	1.3	0.9	0.0	
	Energy	Total Meter (MWh)	**4,953**		114	304	442	491	645	757	609	529	415	462	179	6	
	Energy	**Loss Adjusted Meter (MWh)**	**5,047**	1.89%	116	310	451	501	658	771	620	539	423	470	183	6	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 394,046**														
	Load Cost		**395,193**														
	CAISO Load			Following month		6,044	14,859	22,276	34,080	45,758	65,674	49,182	59,385	55,305	30,723	11,531	376
	WAPA Power		**($37,407)**														
	Base Resource & Restoration			Following month		1,648	1,648	1,648	4,184	4,184	4,184	4,184	4,184	4,184	1,957	1,957	1,957
	Pooling			Following month													
	Revenues			Following month		-	(1,873)	(3,067)	(9,372)	(11,567)	(13,925)	(10,085)	(10,116)	(9,088)	(2,896)	(1,837)	(39)
	Overhead			Following month		45	45	45	45	45	45	45	45	45	45	45	45
	Special Projects		**27,879**														
	Lodi Energy Center			Following month		14,602	8,949	8,820	-	8,832	8,547	17,076	17,425	16,446	14,266	13,316	15,338
	Lodi Energy Center - Debt			Following month		2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647	2,647
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		662	933	1,408	1,578	1,934	2,019	2,019	1,917	1,646	1,323	882	645
	Astoria			Following month		839	880	1,325	1,423	1,636	1,724	1,697	1,601	1,418	1,162	868	761
	Slate			Following month		782	1,089	1,664	1,911	2,205	2,287	2,320	2,202	1,891	1,502	963	742
	Revenues			Following month		(13,206)	(9,556)	(6,403)	(2,766)	(8,191)	(20,404)	(26,606)	(31,355)	(38,986)	(17,707)	(12,750)	(13,670)
	Overhead			Following month		187	187	187	187	187	187	187	187	187	187	187	187
	Supplemental Power & Attributes		**8,381**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Renewable/Carbon Credits			Following month		698	698	698	698	698	698	698	698	698	698	698	698
	DELIVERY		**$ 356,604**														
	CAISO Grid Management		**22,289**														
	GMC & Misc			Following month		513	1,367	1,990	2,211	2,904	3,406	2,740	2,379	1,866	2,078	808	28
	Transmission		**180,879**														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		2,027	5,401	7,861	8,732	11,470	13,454	10,823	9,396	7,371	8,207	3,190	112
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		2,137	5,695	8,289	9,207	12,094	14,186	11,412	9,907	7,772	8,653	3,364	119
	Distribution		**153,435**														
	WDT Charges			Following month		8,974	9,019	13,638	18,357	20,203	20,339	19,834	15,524	12,622	10,945	3,539	140
	Admin			Following month		25	25	25	25	25	25	25	25	25	25	25	25
	Cost of Ownership			Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**		**$ 85,586**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**49,998**														
	Utility Management			Following month		2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149	2,149
	Utility Operations - Fixed			Following month		1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659	1,659
	Utility Operations - Variable			Following month		187	187	187	187	187	187	187	187	187	187	187	187
	Metering			Following month		172	172	172	172	172	172	172	172	172	172	172	172
	Special Projects		**4,040**														
	WDT3			Following month		337	337	337	337	337	337	337	337	337	337	337	337
	Other		**23,172**														
	Direct Consulting			Following month													
	P3			Following month		964	1,346	1,945	2,233	2,858	3,143	2,662	2,601	2,031	1,967	987	436
	TOTAL COSTS (ONE MONTH LAG)		**$ 836,235**		**8,691**	**34,788**	**48,561**	**70,197**	**80,581**	**103,124**	**113,439**	**96,062**	**93,852**	**73,281**	**70,983**	**35,620**	**15,748**
	Variable Costs				6,084	24,673	38,446	60,083	67,930	90,473	100,788	83,411	81,201	60,631	60,560	25,197	5,324
	Fixed Costs				2,607	10,115	10,115	10,115	12,651	12,651	12,651	12,651	12,651	12,651	10,424	10,424	10,424
	Revenue (Two Month Lag)		**$ 829,956**		**20,537**	**9,468**	**34,788**	**48,561**	**70,197**	**80,581**	**103,124**	**113,439**	**96,062**	**93,852**	**73,281**	**70,983**	**35,620**
	Participants' payments				20,537	9,468	34,788	48,561	70,197	80,581	103,124	113,439	96,062	93,852	73,281	70,983	35,620
	Net Cash Increase / <Decrease>		**$ (6,279)**		**11,846**	**(25,319)**	**(13,773)**	**(21,636)**	**(10,383)**	**(22,543)**	**(10,315)**	**17,377**	**2,209**	**20,571**	**2,298**	**35,363**	**19,873**
	Reserve Use				403,990	415,836	390,516	376,743	355,107	344,723	322,181	311,865	329,243	331,452	352,023	354,321	389,684	409,556

Draft

Cash Flow Planning for PWRPA

Lower Tule Irrigation District

Dry Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		31		3.8	2.9	2.4	1.9	2.5	2.7	2.9	3.2	2.2	2.3	2.5	1.8	
	Capacity	Meter Specific Peak 30 Min (MW)		34		4.2	3.2	2.7	2.1	2.7	3.0	3.2	3.5	2.4	2.6	2.8	2.0	
	Energy	Total Meter (MWh)		9,097		316	715	370	418	841	1,028	1,313	1,303	991	844	574	383	
	Energy	**Loss Adjusted Meter (MWh)**	6.88%	9,722		338	764	395	447	899	1,099	1,403	1,392	1,059	902	614	409	
Costs - Power and Delivery	**POWER RESOURCES**			$ 877,782														
	Load Cost			748,654														
	CAISO Load				Following month		16,750	34,973	18,630	28,986	59,650	89,214	106,071	146,363	132,196	56,150	36,900	22,770
	WAPA Power			($48,301)														
	Base Resource & Restoration				Following month		2,128	2,128	2,128	5,403	5,403	5,403	5,403	5,403	5,403	2,527	2,527	2,527
	Pooling				Following month													
	Revenues				Following month		-	(2,419)	(3,960)	(12,102)	(14,936)	(17,981)	(13,022)	(13,062)	(11,735)	(3,740)	(2,372)	(50)
	Overhead				Following month		58	58	58	58	58	58	58	58	58	58	58	58
	Special Projects			-														
	Lodi Energy Center				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Lodi Energy Center - Debt				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Special Application				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Overhead				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Supplemental Power & Attributes			177,430														
	Fixed Contract - Energy				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity				Following month		4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468	4,468
	Renewable/Carbon Credits				Following month		10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318	10,318
	DELIVERY			$ 858,910														
	CAISO Grid Management			40,934														
	GMC & Misc				Following month		1,422	3,219	1,664	1,880	3,785	4,627	5,909	5,863	4,460	3,797	2,584	1,723
	Transmission			348,609														
	High voltage TAC (200kV & >)	$	17.4405		Following month		5,894	13,342	6,900	7,794	15,692	19,180	24,496	24,303	18,489	15,740	10,714	7,144
	Low voltage TAC (50kV-200kV)	$	18.3894		Following month		6,215	14,068	7,275	8,218	16,546	20,224	25,829	25,625	19,495	16,597	11,297	7,532
	Distribution			469,366														
	WDT Charges				Following month		27,222	29,429	39,939	39,541	42,724	42,384	42,361	42,708	34,410	42,014	42,106	32,629
	Admin				Following month		92	92	92	92	92	92	92	92	92	92	92	92
	Cost of Ownership				Following month		900	900	900	900	900	900	900	900	900	900	900	900
Costs - Overhead	**OVERHEAD**			$ 122,722														
	Joint Power Authority			8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement			58,136														
	Utility Management				Following month		2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492	2,492
	Utility Operations - Fixed				Following month		1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924	1,924
	Utility Operations - Variable				Following month		343	343	343	343	343	343	343	343	343	343	343	343
	Metering				Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects			4,685														
	WDT3				Following month		390	390	390	390	390	390	390	390	390	390	390	390
	Other			51,525														
	Direct Consulting				Following month													
	P3				Following month		2,320	3,320	2,689	2,892	4,293	5,267	6,236	7,381	6,398	4,413	3,577	2,737
	TOTAL COSTS (ONE MONTH LAG)			$ 1,859,414		**88,419**	**83,719**	**119,829**	**97,033**	**104,381**	**154,925**	**190,086**	**225,053**	**266,351**	**230,885**	**159,268**	**129,101**	**98,782**
	Variable Costs					61,893	60,213	96,322	73,527	77,600	128,145	163,305	198,272	239,570	204,104	135,363	105,196	74,877
	Fixed Costs					26,526	23,506	23,506	23,506	26,781	26,781	26,781	26,781	26,781	26,781	23,905	23,905	23,905
	Revenue (Two Month Lag)			$ 1,857,187		**159,549**	**96,555**	**83,719**	**119,829**	**97,033**	**104,381**	**154,925**	**190,086**	**225,053**	**266,351**	**230,885**	**159,268**	**129,101**
	Participants' payments					159,549	96,555	83,719	119,829	97,033	104,381	154,925	190,086	225,053	266,351	230,885	159,268	129,101
	Net Cash Increase / <Decrease>			$ (2,227)		**71,130**	**12,836**	**(36,109)**	**22,795**	**(7,348)**	**(50,544)**	**(35,161)**	**(34,967)**	**(41,298)**	**35,466**	**71,617**	**30,167**	**30,319**
	Reserve Use					468,520	539,650	552,486	516,377	539,172	531,824	481,280	446,119	411,153	369,854	405,321	476,938	507,104	537,423

Draft

Cash Flow Planning for PWRPA

Princeton-Codora-Glenn ID - Provident ID

Dry Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		5		0.1	0.0	0.0	1.3	1.3	0.8	0.9	0.6	0.1	0.0	0.0	0.0	
	Capacity	Meter Specific Peak 30 Min (MW)		6		0.1	0.0	0.0	1.4	1.5	0.9	0.9	0.7	0.2	0.0	0.0	0.0	
	Energy	Total Meter (MWh)		2,135		6	4	5	364	458	506	544	198	28	9	6	6	
	Energy	**Loss Adjusted Meter (MWh)**	1.88%	2,175		6	5	5	370	467	516	554	202	29	9	6	6	
Costs - Power and Delivery	**POWER RESOURCES**			$ 166,922														
	Load Cost			173,716														
	CAISO Load				Following month		319	219	249	25,224	32,506	43,930	43,904	22,289	3,741	581	381	372
	WAPA Power			($39,631)														
	Base Resource & Restoration				Following month		1,746	1,746	1,746	4,433	4,433	4,433	4,433	4,433	4,433	2,074	2,074	2,074
	Pooling				Following month													
	Revenues				Following month		-	(1,985)	(3,250)	(9,930)	(12,255)	(14,753)	(10,684)	(10,718)	(9,628)	(3,069)	(1,946)	(41)
	Overhead				Following month		47	47	47	47	47	47	47	47	47	47	47	47
	Special Projects			31,331														
	Lodi Energy Center				Following month		15,417	9,449	9,313	-	9,325	9,024	18,029	18,398	17,365	15,063	14,059	16,194
	Lodi Energy Center - Debt				Following month		2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795	2,795
	Special Application				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point				Following month		662	933	1,408	1,578	1,934	2,019	2,019	1,917	1,646	1,323	882	645
	Astoria				Following month		1,174	1,232	1,854	1,991	2,289	2,412	2,375	2,240	1,985	1,626	1,214	1,064
	Slate				Following month		782	1,089	1,664	1,911	2,205	2,287	2,320	2,202	1,891	1,502	963	742
	Revenues				Following month		(14,010)	(10,108)	(6,789)	(3,007)	(8,775)	(21,694)	(28,253)	(33,406)	(41,447)	(18,746)	(13,514)	(14,481)
	Overhead				Following month		201	201	201	201	201	201	201	201	201	201	201	201
	Supplemental Power & Attributes			1,506														
	Fixed Contract - Energy				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Renewable/Carbon Credits				Following month		125	125	125	125	125	125	125	125	125	125	125	125
	DELIVERY			$ 136,069														
	CAISO Grid Management			9,606														
	GMC & Misc				Following month		27	20	22	1,636	2,063	2,278	2,446	893	126	39	27	28
	Transmission			37,946														
	High voltage TAC (200kV & >)	$	17.4405		Following month		107	80	88	6,463	8,149	9,000	9,662	3,527	499	155	105	111
	Low voltage TAC (50kV-200kV)	$	18.3894		Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Distribution			88,517														
	WDT Charges				Following month		2,965	130	156	21,174	21,253	14,150	14,163	10,860	2,774	252	255	186
	Admin				Following month		17	17	17	17	17	17	17	17	17	17	17	17
	Cost of Ownership				Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**			$ 68,704														
	Joint Power Authority			8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement			46,127														
	Utility Management				Following month		2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075
	Utility Operations - Fixed				Following month		1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602	1,602
	Utility Operations - Variable				Following month		80	80	80	80	80	80	80	80	80	80	80	80
	Metering				Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects			3,902														
	WDT3				Following month		325	325	325	325	325	325	325	325	325	325	325	325
	Other			10,300														
	Direct Consulting				Following month													
	P3				Following month		491	309	414	1,696	2,029	1,742	1,951	875	(244)	252	358	426
	TOTAL COSTS (ONE MONTH LAG)			$ 371,695		**13,953**	**17,732**	**11,168**	**14,926**	**61,222**	**73,208**	**62,881**	**70,418**	**31,561**	**(8,809)**	**9,105**	**12,911**	**15,372**
	Variable Costs					9,767	8,259	1,694	5,453	49,062	61,048	50,721	58,258	19,401	(20,969)	(695)	3,110	5,572
	Fixed Costs					4,186	9,473	9,473	9,473	12,160	12,160	12,160	12,160	12,160	12,160	9,800	9,800	9,800
	Revenue (Two Month Lag)			$ 369,625		**13,557**	**13,303**	**17,732**	**11,168**	**14,926**	**61,222**	**73,208**	**62,881**	**70,418**	**31,561**	**(8,809)**	**9,105**	**12,911**
	Participants' payments					13,557	13,303	17,732	11,168	14,926	61,222	73,208	62,881	70,418	31,561	(8,809)	9,105	12,911
	Net Cash Increase / <Decrease>			$ (2,070)		**(396)**	**(4,430)**	**6,565**	**(3,758)**	**(46,296)**	**(11,986)**	**10,326**	**(7,536)**	**38,857**	**40,369**	**(17,914)**	**(3,805)**	**(2,462)**
	Reserve Use				390,160	389,764	385,334	391,899	388,141	341,845	329,859	340,185	332,649	371,506	411,875	393,961	390,156	387,694

Draft

Cash Flow Planning for PWRPA

Reclamation District 108

Dry Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	6		0.2	0.4	0.6	0.4	0.5	0.5	0.4	0.5	0.3	0.5	0.7	0.6	
	Capacity	Meter Specific Peak 30 Min (MW)	6		0.2	0.4	0.6	0.4	0.6	0.5	0.5	0.5	0.4	0.5	0.8	0.7	
	Energy	Total Meter (MWh)	1,811		53	58	173	118	214	233	250	237	124	89	160	103	
	Energy	**Loss Adjusted Meter (MWh)**	1,911	5.49%	56	61	183	124	226	245	264	250	130	94	169	108	
Costs - Power and Delivery	**POWER RESOURCES**		$ 170,013														
	Load Cost		143,569														
	CAISO Load			Following month		2,831	2,812	8,722	8,185	15,203	20,174	20,210	26,656	16,485	5,902	10,278	6,112
	WAPA Power		($31,660)														
	Base Resource & Restoration			Following month		1,395	1,395	1,395	3,541	3,541	3,541	3,541	3,541	3,541	1,657	1,657	1,657
	Pooling			Following month													
	Revenues			Following month		-	(1,586)	(2,596)	(7,932)	(9,790)	(11,786)	(8,535)	(8,562)	(7,692)	(2,451)	(1,555)	(33)
	Overhead			Following month		38	38	38	38	38	38	38	38	38	38	38	38
	Special Projects		18,404														
	Lodi Energy Center			Following month		8,191	5,020	4,948	-	4,955	4,795	9,579	9,775	9,226	8,003	7,470	8,604
	Lodi Energy Center - Debt			Following month		1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		1,655	2,334	3,522	3,946	4,837	5,049	5,049	4,794	4,116	3,309	2,206	1,612
	Astoria			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate			Following month		937	1,305	1,993	2,289	2,641	2,740	2,779	2,638	2,265	1,799	1,154	888
	Revenues			Following month		(8,307)	(6,461)	(4,979)	(3,347)	(6,613)	(16,073)	(20,633)	(24,014)	(28,063)	(13,002)	(8,467)	(8,448)
	Overhead			Following month		214	214	214	214	214	214	214	214	214	214	214	214
	Supplemental Power & Attributes		39,700														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		3,350	3,350	3,350	3,350	3,350	3,350	3,350	3,350	3,350	3,350	3,350	3,350
	Renewable/Carbon Credits			Following month		(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)	(42)
	DELIVERY		$ 257,393														
	CAISO Grid Management		8,152														
	GMC & Misc			Following month		240	259	779	531	965	1,046	1,126	1,068	556	399	720	463
	Transmission		67,035														
	High voltage TAC (200kV & >)	$	17.4405	Following month		962	1,036	3,119	2,125	3,862	4,188	4,507	4,274	2,226	1,597	2,882	1,852
	Low voltage TAC (50kV-200kV)	$	18.3894	Following month		1,014	1,092	3,289	2,241	4,072	4,416	4,752	4,506	2,347	1,684	3,038	1,952
	Distribution		182,206														
	WDT Charges			Following month		8,854	6,571	10,289	17,467	26,045	25,705	22,335	22,478	9,545	6,184	8,570	9,830
	Admin			Following month		417	417	417	417	417	417	417	417	417	417	417	417
	Cost of Ownership			Following month		278	278	278	278	278	278	278	278	278	278	278	278
Costs - Overhead	**OVERHEAD**		$ 76,083														
	Joint Power Authority		8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		49,707														
	Utility Management			Following month		2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153
	Utility Operations - Fixed			Following month		1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663	1,663
	Utility Operations - Variable			Following month		68	68	68	68	68	68	68	68	68	68	68	68
	Metering			Following month		258	258	258	258	258	258	258	258	258	258	258	258
	Special Projects		4,048														
	WDT3			Following month		337	337	337	337	337	337	337	337	337	337	337	337
	Other		13,952														
	Direct Consulting			Following month													
	P3			Following month		818	704	1,180	1,139	1,728	1,559	1,585	1,655	726	741	1,108	1,009
	TOTAL COSTS (ONE MONTH LAG)		$ 503,489		**27,365**	**29,507**	**25,398**	**42,577**	**41,100**	**62,363**	**56,273**	**57,212**	**59,727**	**26,197**	**26,739**	**39,978**	**36,415**
	Variable Costs				19,155	17,532	13,423	30,602	26,979	48,242	42,151	43,091	45,605	12,076	14,503	27,741	24,179
	Fixed Costs				8,209	11,975	11,975	11,975	14,121	14,121	14,121	14,121	14,121	14,121	12,236	12,236	12,236
	Revenue (Two Month Lag)		$ 496,745		**42,656**	**29,671**	**29,507**	**25,398**	**42,577**	**41,100**	**62,363**	**56,273**	**57,212**	**59,727**	**26,197**	**26,739**	**39,978**
	Participants' payments				42,656	29,671	29,507	25,398	42,577	41,100	62,363	56,273	57,212	59,727	26,197	26,739	39,978
	Net Cash Increase / <Decrease>		$ (6,744)		**15,291**	**164**	**4,109**	**(17,179)**	**1,477**	**(21,263)**	**6,090**	**(940)**	**(2,514)**	**33,530**	**(542)**	**(13,238)**	**3,563**
	Reserve Use			404,840	420,131	420,295	424,404	407,226	408,702	387,439	393,530	392,590	390,076	423,605	423,063	409,825	413,387

Draft

Cash Flow Planning for PWRPA

Santa Clara Valley Water District

Dry Conditions

				Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)		40		2.6	3.0	3.1	2.9	3.2	3.8	3.7	4.0	4.1	3.7	3.2	2.8	
	Capacity	Meter Specific Peak 30 Min (MW)		44		2.9	3.3	3.4	3.2	3.5	4.2	4.1	4.4	4.5	4.1	3.5	3.0	
	Energy	Total Meter (MWh)		21,617		1,335	1,342	1,603	1,605	1,872	2,091	2,288	2,396	2,205	1,969	1,548	1,361	
	Energy	**Loss Adjusted Meter (MWh)**	2.03%	**22,056**		1,362	1,370	1,636	1,638	1,910	2,134	2,334	2,445	2,250	2,009	1,579	1,389	
Costs - Power and Delivery	**POWER RESOURCES**			**$ 2,015,523**														
	Load Cost			**1,702,287**														
	CAISO Load				Following month		70,762	65,643	80,751	111,385	132,772	181,463	184,788	269,191	294,133	131,024	99,442	80,933
	WAPA Power			**($79,841)**														
	Base Resource & Restoration				Following month		3,518	3,518	3,518	8,931	8,931	8,931	8,931	8,931	8,931	4,177	4,177	4,177
	Pooling				Following month													
	Revenues				Following month		-	(3,999)	(6,547)	(20,004)	(24,689)	(29,722)	(21,525)	(21,592)	(19,397)	(6,182)	(3,921)	(82)
	Overhead				Following month		95	95	95	95	95	95	95	95	95	95	95	95
	Special Projects			**57,023**														
	Lodi Energy Center				Following month		23,536	14,425	14,217	-	14,236	13,777	27,524	28,086	26,510	22,995	21,464	24,722
	Lodi Energy Center - Debt				Following month		4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266	4,266
	Special Application				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point				Following month		4,963	7,000	10,563	11,836	14,509	15,145	15,145	14,381	12,345	9,927	6,618	4,836
	Astoria				Following month		4,173	4,379	6,591	7,079	8,139	8,574	8,445	7,964	7,056	5,782	4,318	3,784
	Slate				Following month		4,699	6,548	9,998	11,485	13,252	13,748	13,945	13,235	11,364	9,028	5,788	4,458
	Revenues				Following month		(27,442)	(20,995)	(18,866)	(16,866)	(27,367)	(62,582)	(79,771)	(93,840)	(100,622)	(49,280)	(29,763)	(28,018)
	Overhead				Following month		721	721	721	721	721	721	721	721	721	721	721	721
	Supplemental Power & Attributes			**336,054**														
	Fixed Contract - Energy				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues				Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity				Following month		9,572	9,572	9,572	9,572	9,572	9,572	9,572	9,572	9,572	9,572	9,572	9,572
	Renewable/Carbon Credits				Following month		18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432	18,432
	DELIVERY			**$ 1,617,171**														
	CAISO Grid Management			**97,276**														
	GMC & Misc				Following month		6,007	6,041	7,214	7,225	8,426	9,411	10,295	10,783	9,924	8,860	6,965	6,125
	Transmission			**538,980**														
	High voltage TAC (200kV & >)	$ 17.4405			Following month		23,775	23,911	28,555	28,597	33,350	37,251	40,748	42,679	39,281	35,071	27,569	24,245
	Low voltage TAC (50kV-200kV)	$ 18.3894			Following month		9,506	9,560	11,417	11,434	13,334	14,894	16,292	17,065	15,706	14,022	11,023	9,694
	Distribution			**980,915**														
	WDT Charges				Following month		65,471	77,708	76,933	76,905	80,418	100,721	84,193	88,677	98,104	83,389	79,392	63,857
	Admin				Following month		117	117	117	117	117	117	117	117	117	117	117	117
	Cost of Ownership				Following month		312	312	312	312	312	312	312	312	312	312	312	312
Costs - Overhead	**OVERHEAD**			**$ 211,569**														
	Joint Power Authority			**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement			**90,364**														
	Utility Management				Following month		3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353	3,353
	Utility Operations - Fixed				Following month		2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589
	Utility Operations - Variable				Following month		814	814	814	814	814	814	814	814	814	814	814	814
	Metering				Following month		775	775	775	775	775	775	775	775	775	775	775	775
	Special Projects			**6,304**														
	WDT3				Following month		525	525	525	525	525	525	525	525	525	525	525	525
	Other			**106,526**														
	Direct Consulting				Following month													
	P3				Following month		6,590	6,726	7,599	7,988	9,051	10,086	10,011	12,193	12,700	8,866	7,847	6,869
	TOTAL COSTS (ONE MONTH LAG)			**$ 3,844,264**		**205,694**	**237,829**	**242,737**	**274,213**	**288,264**	**326,631**	**363,966**	**361,292**	**440,023**	**458,303**	**319,950**	**283,188**	**247,869**
	Variable Costs					143,986	192,567	197,475	228,951	237,589	275,956	313,291	310,617	389,348	407,628	274,028	237,267	201,947
	Fixed Costs					61,708	45,262	45,262	45,262	50,675	50,675	50,675	50,675	50,675	50,675	45,921	45,921	45,921
	Revenue (Two Month Lag)			**$ 3,819,143**		**315,340**	**222,749**	**237,829**	**242,737**	**274,213**	**288,264**	**326,631**	**363,966**	**361,292**	**440,023**	**458,303**	**319,950**	**283,188**
	Participants' payments					315,340	222,749	237,829	242,737	274,213	288,264	326,631	363,966	361,292	440,023	458,303	319,950	283,188
	Net Cash Increase / <Decrease>			**$ (25,120)**		**109,646**	**(15,080)**	**(4,908)**	**(31,477)**	**(14,051)**	**(38,367)**	**(37,335)**	**2,674**	**(78,732)**	**(18,280)**	**138,353**	**36,762**	**35,319**
	Reserve Use				630,390	740,036	724,955	720,048	688,571	674,520	636,153	598,818	601,493	522,761	504,481	642,835	679,596	714,916

Draft

Cash Flow Planning for PWRPA

Sonoma County Water Agency

Dry Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	76		5.6	6.1	5.7	5.9	6.4	7.2	6.5	7.8	6.8	6.8	6.2	5.5	
	Capacity	Meter Specific Peak 30 Min (MW)	84		6.1	6.7	6.3	6.5	7.0	7.9	7.1	8.6	7.4	7.5	6.8	6.0	
	Energy	Total Meter (MWh)	37,391		2,420	2,478	2,836	3,108	3,527	3,885	3,745	3,535	3,334	3,215	2,670	2,638	
	Energy	**Loss Adjusted Meter (MWh)**	**37,878**	1.30%	2,452	2,511	2,873	3,149	3,573	3,935	3,793	3,581	3,377	3,257	2,704	2,673	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 3,218,301**														
	Load Cost		**2,881,756**														
	CAISO Load			Following month		128,307	121,186	142,829	215,655	250,112	337,058	302,474	397,123	444,681	213,941	171,526	156,864
	WAPA Power		**($146,008)**														
	Base Resource & Restoration			Following month		6,434	6,434	6,434	16,333	16,333	16,333	16,333	16,333	16,333	7,639	7,639	7,639
	Pooling			Following month													
	Revenues			Following month		-	(7,313)	(11,972)	(36,582)	(45,149)	(54,354)	(39,363)	(39,486)	(35,472)	(11,305)	(7,171)	(150)
	Overhead			Following month		175	175	175	175	175	175	175	175	175	175	175	175
	Special Projects		**194,506**														
	Lodi Energy Center			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Lodi Energy Center - Debt			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Warm Sprhings Hydro			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		18,531	26,134	39,438	44,190	54,168	56,544	56,544	53,693	46,090	37,062	24,708	18,056
	Astoria			Following month		10,903	11,441	17,222	18,497	21,268	22,404	22,065	20,810	18,438	15,109	11,282	9,887
	Slate			Following month		3,135	4,369	6,671	7,663	8,842	9,173	9,304	8,831	7,583	6,024	3,862	2,974
	Revenues			Following month		(17,098)	(17,699)	(21,468)	(30,516)	(36,331)	(74,858)	(90,247)	(109,243)	(108,506)	(44,800)	(21,231)	(13,489)
	Overhead			Following month		2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256	2,256
	Supplemental Power & Attributes		**288,047**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766	12,766
	Renewable/Carbon Credits			Following month		11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238	11,238
	DELIVERY		**$ 2,232,500**														
	CAISO Grid Management		**168,260**														
	GMC & Misc			Following month		10,891	11,152	12,760	13,988	15,872	17,481	16,851	15,907	15,003	14,468	12,014	11,872
	Transmission		**1,357,738**														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		42,779	43,805	50,120	54,942	62,342	68,661	66,188	62,479	58,930	56,826	47,188	46,631
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		45,107	46,188	52,847	57,931	65,733	72,396	69,789	65,879	62,136	59,918	49,755	49,168
	Distribution		**706,502**														
	WDT Charges			Following month		63,239	48,583	50,764	50,161	38,866	67,101	46,299	50,637	50,692	62,355	98,346	49,678
	Admin			Following month		142	142	142	142	142	142	142	142	142	142	142	142
	Cost of Ownership			Following month		2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340	2,340
Costs - Overhead	**OVERHEAD**		**$ 305,396**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**129,395**														
	Utility Management			Following month		4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319	4,319
	Utility Operations - Fixed			Following month		3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335	3,335
	Utility Operations - Variable			Following month		1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408
	Metering			Following month		1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721	1,721
	Special Projects		**8,120**														
	WDT3			Following month		677	677	677	677	677	677	677	677	677	677	677	677
	Other		**159,506**														
	Direct Consulting			Following month													
	P3			Following month		10,069	9,558	11,021	12,920	14,054	16,502	14,743	16,645	17,584	13,062	12,511	10,836
	TOTAL COSTS (ONE MONTH LAG)		**$ 5,756,197**		**362,388**	**363,373**	**344,911**	**397,740**	**466,257**	**507,184**	**595,516**	**532,055**	**600,681**	**634,565**	**471,372**	**451,504**	**391,040**
	Variable Costs				253,671	316,542	298,080	350,909	409,527	450,454	538,786	475,325	543,952	577,835	423,335	403,467	343,004
	Fixed Costs				108,716	46,831	46,831	46,831	56,730	56,730	56,730	56,730	56,730	56,730	48,037	48,037	48,037
	Revenue (Two Month Lag)		**$ 5,764,890**		**521,228**	**399,734**	**363,373**	**344,911**	**397,740**	**466,257**	**507,184**	**595,516**	**532,055**	**600,681**	**634,565**	**471,372**	**451,504**
	Participants' payments				521,228	399,734	363,373	344,911	397,740	466,257	507,184	595,516	532,055	600,681	634,565	471,372	451,504
	Net Cash Increase / <Decrease>		**$ 8,693**		**158,840**	**36,361**	**18,461**	**(52,829)**	**(68,517)**	**(40,928)**	**(88,331)**	**63,461**	**(68,626)**	**(33,883)**	**163,193**	**19,868**	**60,463**
	Reserve Use			812,010	970,850	1,007,211	1,025,672	972,844	904,327	863,399	775,068	838,529	769,902	736,019	899,212	919,080	979,543

Draft

Cash Flow Planning for PWRPA

West Stanislaus Irrigation District

Dry Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	46		1.3	3.5	7.8	8.1	5.4	3.0	2.2	2.9	3.5	4.0	2.2	2.3	
	Capacity	Meter Specific Peak 30 Min (MW)	51		1.4	3.9	8.6	8.9	5.9	3.3	2.4	3.2	3.9	4.4	2.4	2.5	
	Energy	Total Meter (MWh)	20,580		462	647	3,397	3,948	3,000	1,577	1,168	1,366	1,465	1,649	950	950	
	Energy	**Loss Adjusted Meter (MWh)**	**20,968**	1.89%	471	660	3,461	4,023	3,057	1,607	1,190	1,392	1,492	1,680	968	968	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 1,440,487**														
	Load Cost		**1,521,201**														
	CAISO Load			Following month		24,481	31,660	171,123	273,917	212,753	136,825	94,331	153,500	195,340	109,751	61,036	56,485
	WAPA Power		**($274,797)**														
	Base Resource & Restoration			Following month		12,109	12,109	12,109	30,739	30,739	30,739	30,739	30,739	30,739	14,378	14,378	14,378
	Pooling			Following month													
	Revenues			Following month		-	(13,763)	(22,532)	(68,850)	(84,973)	(102,297)	(74,084)	(74,315)	(66,761)	(21,278)	(13,496)	(283)
	Overhead			Following month		328	328	328	328	328	328	328	328	328	328	328	328
	Special Projects		**(34,423)**														
	Lodi Energy Center			Following month		18,405	11,280	11,118	-	11,133	10,773	21,524	21,963	20,731	17,982	16,784	19,333
	Lodi Energy Center - Debt			Following month		3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336	3,336
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate			Following month		6,262	8,727	13,325	15,307	17,661	18,323	18,585	17,639	15,145	12,032	7,714	5,941
	Revenues			Following month		(20,188)	(14,500)	(14,330)	(12,639)	(19,964)	(47,092)	(61,449)	(70,245)	(69,891)	(40,895)	(23,576)	(22,168)
	Overhead			Following month		399	399	399	399	399	399	399	399	399	399	399	399
	Supplemental Power & Attributes		**228,506**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		15,315	15,315	15,315	15,315	15,315	15,315	15,315	15,315	15,315	15,315	15,315	15,315
	Renewable/Carbon Credits			Following month		3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727	3,727
	DELIVERY		**$ 1,155,061**														
	CAISO Grid Management		**92,610**														
	GMC & Misc			Following month		2,078	2,914	15,288	17,767	13,501	7,096	5,255	6,149	6,591	7,422	4,275	4,275
	Transmission		**365,822**														
	High voltage TAC (200kV & >)	$	17.4405	Following month		8,209	11,509	60,390	70,182	53,331	28,030	20,759	24,287	26,034	29,317	16,887	16,887
	Low voltage TAC (50kV-200kV)	$	18.3894	Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Distribution		**696,628**														
	WDT Charges			Following month		19,943	49,006	50,141	91,293	87,273	68,350	55,073	63,601	54,250	60,628	60,282	35,788
	Admin			Following month		83	83	83	83	83	83	83	83	83	83	83	83
	Cost of Ownership			Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**		**$ 166,725**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**76,000**														
	Utility Management			Following month		3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088	3,088
	Utility Operations - Fixed			Following month		2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385	2,385
	Utility Operations - Variable			Following month		775	775	775	775	775	775	775	775	775	775	775	775
	Metering			Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects		**5,806**														
	WDT3			Following month		484	484	484	484	484	484	484	484	484	484	484	484
	Other		**76,543**														
	Direct Consulting			Following month													
	P3			Following month		2,907	3,695	9,329	12,780	10,036	5,171	4,031	5,815	6,922	6,271	4,987	4,598
	TOTAL COSTS (ONE MONTH LAG)		**$ 2,762,272**		**137,331**	**104,911**	**133,342**	**336,665**	**461,200**	**362,194**	**186,624**	**145,469**	**209,838**	**249,803**	**226,312**	**179,975**	**165,938**
	Variable Costs				96,132	62,582	91,012	294,336	400,241	301,235	125,664	84,510	148,878	188,843	181,714	135,377	121,340
	Fixed Costs				41,199	42,329	42,329	42,329	60,959	60,959	60,959	60,959	60,959	60,959	44,598	44,598	44,598
	Revenue (Two Month Lag)		**$ 2,758,385**		**228,541**	**162,051**	**104,911**	**133,342**	**336,665**	**461,200**	**362,194**	**186,624**	**145,469**	**209,838**	**249,803**	**226,312**	**179,975**
	Participants' payments				228,541	162,051	104,911	133,342	336,665	461,200	362,194	186,624	145,469	209,838	249,803	226,312	179,975
	Net Cash Increase / <Decrease>		**$ (3,888)**		**91,210**	**57,139**	**(28,430)**	**(203,324)**	**(124,535)**	**99,006**	**175,571**	**41,154**	**(64,368)**	**(39,965)**	**23,490**	**46,337**	**14,037**
	Reserve Use				580,580	671,790	728,929	700,499	497,175	372,640	471,646	647,217	688,371	624,003	584,038	607,528	653,865	667,902

Draft

Cash Flow Planning for PWRPA

Westlands Water District

Dry Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	344		11.9	18.9	27.0	35.4	45.3	48.2	45.7	37.5	27.5	25.3	9.8	11.4	
	Capacity	Meter Specific Peak 30 Min (MW)	378		13.1	20.8	29.7	38.9	49.9	53.0	50.3	41.2	30.2	27.8	10.8	12.5	
	Energy	Total Meter (MWh)	192,503		4,038	7,974	11,339	19,137	29,015	31,271	29,670	23,199	16,107	12,374	4,680	3,699	
	Energy	**Loss Adjusted Meter (MWh)**	**205,692**	6.85%	4,315	8,520	12,116	20,448	31,003	33,414	31,703	24,789	17,211	13,222	5,001	3,952	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 14,448,979**														
	Load Cost		**15,768,725**														
	CAISO Load			Following month		214,067	389,914	571,125	1,327,680	2,057,519	2,713,313	2,396,540	2,606,289	2,148,273	823,399	300,692	219,913
	WAPA Power		**($2,642,266)**														
	Base Resource & Restoration			Following month		116,430	116,430	116,430	295,565	295,565	295,565	295,565	295,565	295,565	138,249	138,249	138,249
	Pooling			Following month													
	Revenues			Following month		-	(132,332)	(216,654)	(662,020)	(817,049)	(983,619)	(712,341)	(714,563)	(641,935)	(204,592)	(129,766)	(2,720)
	Overhead			Following month		3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158
	Special Projects		**23,516**														
	Lodi Energy Center			Following month		106,480	65,259	64,318	-	64,405	62,327	124,521	127,065	119,932	104,032	97,103	111,846
	Lodi Energy Center - Debt			Following month		19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298	19,298
	BOR Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		19,855	28,000	42,255	47,346	58,037	60,582	60,582	57,528	49,382	39,709	26,473	19,346
	Astoria			Following month		35,990	37,766	56,847	61,058	70,203	73,953	72,835	68,690	60,860	49,872	37,240	32,634
	Slate			Following month		12,525	17,455	26,651	30,614	35,323	36,645	37,169	35,278	30,291	24,063	15,428	11,882
	Revenues			Following month		(127,285)	(102,025)	(90,530)	(95,458)	(169,903)	(329,527)	(399,497)	(469,334)	(524,397)	(216,156)	(135,117)	(127,858)
	Overhead			Following month		4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281	4,281
	Supplemental Power & Attributes		**1,299,003**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		59,157	59,157	59,157	59,157	59,157	59,157	59,157	59,157	59,157	59,157	59,157	59,157
	Renewable/Carbon Credits			Following month		49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094
	DELIVERY		**$ 21,950,167**														
	CAISO Grid Management		**866,263**														
	GMC & Misc			Following month		18,171	35,883	51,024	86,117	130,568	140,720	133,514	104,397	72,482	55,682	21,061	16,644
	Transmission		**7,370,508**														
	High voltage TAC (200kV & >)	$	17.4405	Following month		75,256	148,610	211,318	356,658	540,753	582,795	552,954	432,362	300,186	230,609	87,224	68,931
	Low voltage TAC (50kV-200kV)	$	18.3894	Following month		79,351	156,696	222,815	376,063	570,174	614,503	583,038	455,885	316,518	243,156	91,970	72,681
	Distribution		**13,713,396**														
	WDT Charges			Following month		754,186	866,535	1,080,397	1,392,816	1,426,801	1,477,439	1,453,982	1,296,165	1,185,616	1,009,481	778,956	415,920
	Admin			Following month		667	667	667	667	667	667	667	667	667	667	667	667
	Cost of Ownership			Following month		47,259	47,259	47,259	47,259	47,259	47,259	47,259	47,259	47,259	47,259	47,259	47,259
Costs - Overhead	**OVERHEAD**		**$ 1,960,004**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**867,354**														
	Utility Management			Following month		11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345	11,345
	Utility Operations - Fixed			Following month		8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761
	Utility Operations - Variable			Following month		7,249	7,249	7,249	7,249	7,249	7,249	7,249	7,249	7,249	7,249	7,249	7,249
	Metering			Following month		44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925	44,925
	Special Projects		**21,331**														
	WDT3			Following month		1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778	1,778
	Other		**1,062,942**														
	Direct Consulting			Following month													
	P3			Following month		44,537	53,747	68,219	99,012	128,822	142,567	138,411	129,760	104,608	72,822	45,235	35,201
	TOTAL COSTS (ONE MONTH LAG)		**$ 38,359,149**		**981,748**	**1,607,230**	**1,939,607**	**2,461,882**	**3,573,118**	**4,648,886**	**5,144,934**	**4,994,941**	**4,682,755**	**3,775,050**	**2,627,996**	**1,632,413**	**1,270,338**
	Variable Costs				687,223	1,234,910	1,567,286	2,089,562	3,021,662	4,097,430	4,593,478	4,443,486	4,131,300	3,223,595	2,233,857	1,238,274	876,199
	Fixed Costs				294,524	372,320	372,320	372,320	551,456	551,456	551,456	551,456	551,456	551,456	394,139	394,139	394,139
	Revenue (Two Month Lag)		**$ 38,094,876**		**2,059,692**	**1,006,064**	**1,607,230**	**1,939,607**	**2,461,882**	**3,573,118**	**4,648,886**	**5,144,934**	**4,994,941**	**4,682,755**	**3,775,050**	**2,627,996**	**1,632,413**
	Participants' payments				2,059,692	1,006,064	1,607,230	1,939,607	2,461,882	3,573,118	4,648,886	5,144,934	4,994,941	4,682,755	3,775,050	2,627,996	1,632,413
	Net Cash Increase / <Decrease>		**$ (264,273)**		**1,077,945**	**(601,166)**	**(332,376)**	**(522,276)**	**(1,111,236)**	**(1,075,768)**	**(496,048)**	**149,992**	**312,186**	**907,705**	**1,147,055**	**995,583**	**362,075**
	Reserve Use			2,133,140	3,211,085	2,609,919	2,277,542	1,755,267	644,031	(431,736)	(927,785)	(777,792)	(465,606)	442,099	1,589,153	2,584,736	2,946,811

Draft

Cash Flow Planning for PWRPA

Byron Bethany - West Side Irrigation District

Dry Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	6		0.0	0.0	0.6	0.8	0.9	0.8	0.8	0.7	0.6	0.7	0.1	0.1	
	Capacity	Meter Specific Peak 30 Min (MW)	7		0.0	0.0	0.6	0.9	1.0	0.9	0.9	0.7	0.7	0.7	0.1	0.1	
	Energy	Total Meter (MWh)	2,698		17	14	116	378	422	465	380	304	291	248	25	37	
	Energy	**Loss Adjusted Meter (MWh)**	2,749	1.88%	18	14	118	385	430	474	387	310	296	252	26	38	
Costs - Power and Delivery	**POWER RESOURCES**		$ 179,233														
	Load Cost		227,923														
	CAISO Load			Following month		921	682	5,854	26,239	29,945	40,376	30,663	34,178	38,763	16,478	1,616	2,207
	WAPA Power		($105,693)														
	Base Resource & Restoration			Following month		4,657	4,657	4,657	11,823	11,823	11,823	11,823	11,823	11,823	5,530	5,530	5,530
	Pooling			Following month													
	Revenues			Following month		-	(5,293)	(8,666)	(26,481)	(32,683)	(39,346)	(28,494)	(28,583)	(25,678)	(8,184)	(5,191)	(109)
	Overhead			Following month		126	126	126	126	126	126	126	126	126	126	126	126
	Special Projects		27,072														
	Lodi Energy Center			Following month		15,423	9,452	9,316	-	9,329	9,028	18,036	18,405	17,371	15,068	14,065	16,200
	Lodi Energy Center - Debt			Following month		2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796	2,796
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Astoria			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Slate			Following month		937	1,305	1,993	2,289	2,641	2,740	2,779	2,638	2,265	1,799	1,154	888
	Revenues			Following month		(13,294)	(9,453)	(6,080)	(1,890)	(7,350)	(19,081)	(25,221)	(29,379)	(37,170)	(17,469)	(12,800)	(13,998)
	Overhead			Following month		966	966	966	966	966	966	966	966	966	966	966	966
	Supplemental Power & Attributes		29,932														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010
	Renewable/Carbon Credits			Following month		484	484	484	484	484	484	484	484	484	484	484	484
	DELIVERY		$ 209,493														
	CAISO Grid Management		12,140														
	GMC & Misc			Following month		78	63	523	1,702	1,900	2,094	1,708	1,369	1,308	1,114	113	167
	Transmission		98,530														
	High voltage TAC (200kV & >)	$ 17.4405		Following month		309	248	2,066	6,724	7,507	8,273	6,749	5,408	5,167	4,402	447	660
	Low voltage TAC (50kV-200kV)	$ 18.3894		Following month		326	261	2,179	7,089	7,916	8,723	7,116	5,703	5,448	4,642	472	696
	Distribution		98,824														
	WDT Charges			Following month		620	523	14,226	13,813	14,765	13,813	11,122	9,785	9,430	9,449	493	586
	Admin			Following month		17	17	17	17	17	17	17	17	17	17	17	17
	Cost of Ownership			Following month		-	-	-	-	-	-	-	-	-	-	-	-
Costs - Overhead	**OVERHEAD**		$ 71,487														
	Joint Power Authority		8,376	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		46,450														
	Utility Management			Following month		2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078	2,078
	Utility Operations - Fixed			Following month		1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605	1,605
	Utility Operations - Variable			Following month		102	102	102	102	102	102	102	102	102	102	102	102
	Metering			Following month		86	86	86	86	86	86	86	86	86	86	86	86
	Special Projects		3,908														
	WDT3			Following month		326	326	326	326	326	326	326	326	326	326	326	326
	Other		12,753														
	Direct Consulting			Following month													
	P3			Following month		606	392	1,065	1,499	1,627	1,417	1,356	1,215	1,141	1,258	490	687
	TOTAL COSTS (ONE MONTH LAG)		$ 460,213		**11,213**	**21,875**	**14,131**	**38,426**	**54,100**	**58,713**	**51,154**	**48,929**	**43,854**	**41,160**	**45,381**	**17,682**	**24,808**
	Variable Costs				7,849	6,251	(1,494)	22,801	31,309	35,923	28,364	26,139	21,064	18,370	28,883	1,184	8,310
	Fixed Costs				3,364	15,625	15,625	15,625	22,790	22,790	22,790	22,790	22,790	22,790	16,498	16,498	16,498
	Revenue (Two Month Lag)		$ 447,421		**11,498**	**12,016**	**21,875**	**14,131**	**38,426**	**54,100**	**58,713**	**51,154**	**48,929**	**43,854**	**41,160**	**45,381**	**17,682**
	Participants' payments				11,498	12,016	21,875	14,131	38,426	54,100	58,713	51,154	48,929	43,854	41,160	45,381	17,682
	Net Cash Increase / <Decrease>		$ (12,792)		**285**	**(9,859)**	**7,745**	**(24,295)**	**(15,674)**	**(4,614)**	**7,559**	**2,225**	**5,075**	**2,694**	**(4,221)**	**27,699**	**(7,126)**
	Reserve Use				390,770	391,055	381,195	388,940	364,645	348,971	344,357	351,917	354,142	359,217	361,911	357,690	385,389	378,263

Draft

Cash Flow Planning for PWRPA

Zone 7 Water Agency

Dry Conditions

			Sheet Total /		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24
Cost Basis	Capacity	District Peak Hourly Load (MW)	**20**		1.2	1.9	1.0	1.0	1.4	1.5	1.8	1.8	2.0	2.7	2.5	1.7	
	Capacity	Meter Specific Peak 30 Min (MW)	**23**		1.3	2.1	1.1	1.1	1.6	1.6	2.0	1.9	2.2	2.9	2.8	1.9	
	Energy	Total Meter (MWh)	**8,004**		503	619	584	481	753	692	771	724	990	924	583	381	
	Energy	**Loss Adjusted Meter (MWh)**	**8,278**	3.42%	520	640	604	498	778	715	798	749	1,024	955	603	394	
Costs - Power and Delivery	**POWER RESOURCES**		**$ 663,016**														
	Load Cost		**630,383**														
	CAISO Load			Following month		26,656	30,245	29,396	33,375	53,378	60,023	62,291	81,358	132,075	61,469	37,474	22,643
	WAPA Power		**($11,818)**														
	Base Resource & Restoration			Following month		521	521	521	1,322	1,322	1,322	1,322	1,322	1,322	618	618	618
	Pooling			Following month													
	Revenues			Following month		-	(592)	(969)	(2,961)	(3,654)	(4,399)	(3,186)	(3,196)	(2,871)	(915)	(580)	(12)
	Overhead			Following month		14	14	14	14	14	14	14	14	14	14	14	14
	Special Projects		**2,922**														
	Lodi Energy Center			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Lodi Energy Center - Debt			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Special Application			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Whitney Point			Following month		1,323	1,866	2,817	3,156	3,869	4,038	4,038	3,835	3,292	2,647	1,765	1,290
	Astoria			Following month		1,564	1,641	2,470	2,653	3,050	3,213	3,164	2,984	2,644	2,167	1,618	1,418
	Slate			Following month		1,564	2,179	3,327	3,822	4,410	4,575	4,640	4,404	3,781	3,004	1,926	1,483
	Revenues			Following month		(2,681)	(2,295)	(3,686)	(5,449)	(6,219)	(12,887)	(16,052)	(18,925)	(16,138)	(9,143)	(4,068)	(2,676)
	Overhead			Following month		126	126	126	126	126	126	126	126	126	126	126	126
	Supplemental Power & Attributes		**41,529**														
	Fixed Contract - Energy			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Revenues			Following month		-	-	-	-	-	-	-	-	-	-	-	-
	Resource Adequacy/Capacity			Following month		3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191	3,191
	Renewable/Carbon Credits			Following month		269	269	269	269	269	269	269	269	269	269	269	269
	DELIVERY		**$ 742,667**														
	CAISO Grid Management		**36,018**														
	GMC & Misc			Following month		2,263	2,783	2,626	2,165	3,387	3,113	3,470	3,259	4,456	4,157	2,625	1,714
	Transmission		**158,742**														
	High voltage TAC (200kV & >)	$	17.4405	Following month		8,938	10,994	10,373	8,551	13,380	12,296	13,708	12,872	17,602	16,419	10,368	6,769
	Low voltage TAC (50kV-200kV)	$	18.3894	Following month		1,035	1,273	1,201	990	1,549	1,424	1,587	1,490	2,038	1,901	1,200	784
	Distribution		**547,907**														
	WDT Charges			Following month		34,761	34,894	24,503	38,044	56,296	56,791	55,964	59,729	48,578	50,052	38,062	34,925
	Admin			Following month		392	392	392	392	392	392	392	392	392	392	392	392
	Cost of Ownership			Following month		884	884	884	884	884	884	884	884	884	884	884	884
Costs - Overhead	**OVERHEAD**		**$ 113,908**														
	Joint Power Authority		**8,376**	Following month		698	698	698	698	698	698	698	698	698	698	698	698
	Aggregate Service Agreement		**58,985**														
	Utility Management			Following month		2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361
	Utility Operations - Fixed			Following month		1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823	1,823
	Utility Operations - Variable			Following month		301	301	301	301	301	301	301	301	301	301	301	301
	Metering			Following month		430	430	430	430	430	430	430	430	430	430	430	430
	Special Projects		**4,439**														
	WDT3			Following month		370	370	370	370	370	370	370	370	370	370	370	370
	Other		**42,108**														
	Direct Consulting			Following month													
	P3			Following month		2,474	2,690	2,378	2,751	4,036	4,000	4,041	4,560	5,918	4,082	2,903	2,275
	TOTAL COSTS (ONE MONTH LAG)		**$ 1,519,590**		**60,463**	**89,276**	**97,059**	**85,816**	**99,277**	**145,662**	**144,367**	**145,848**	**164,552**	**213,556**	**147,317**	**104,770**	**82,089**
	Variable Costs				42,324	78,266	86,048	74,806	87,466	133,851	132,556	134,037	152,740	201,745	136,209	93,663	70,982
	Fixed Costs				18,139	11,010	11,010	11,010	11,811	11,811	11,811	11,811	11,811	11,811	11,108	11,108	11,108
	Revenue (Two Month Lag)		**$ 1,501,680**		**87,251**	**64,179**	**89,276**	**97,059**	**85,816**	**99,277**	**145,662**	**144,367**	**145,848**	**164,552**	**213,556**	**147,317**	**104,770**
	Participants' payments				87,251	64,179	89,276	97,059	85,816	99,277	145,662	144,367	145,848	164,552	213,556	147,317	104,770
	Net Cash Increase / <Decrease>		**$ (17,911)**		**26,788**	**(25,097)**	**(7,783)**	**11,243**	**(13,461)**	**(46,385)**	**1,295**	**(1,481)**	**(18,704)**	**(49,004)**	**66,239**	**42,547**	**22,681**
	Reserve Use			443,870	470,658	445,561	437,778	449,021	435,560	389,175	390,470	388,989	370,285	321,281	387,520	430,066	452,747

Draft

Power & Water Resources Pooling Authority

Regular Agenda • Item 6.C

1. Resolution 22-12-20 RBI Professional Service Agreement.

Power & Water Resources Pooling Authority
Resolution 22-12-20

EXTENSION OF PROFESSIONAL SERVICES AGREEMENT WITH ROBERTSON-BRYAN, INC

The Power and Water Resources Pooling Authority ("PWRPA") provides electric service to its customers, known as "Project Participants," under terms and conditions specified in the Aggregation Services Agreement ("ASA"); and

WHEREAS, Robertson-Bryan, Inc. (RBI), is currently providing operations management services to PWRPA under a one-year fixed-fee professional services agreement expiring on January 15, 2023; and

WHEREAS, RBI has worked together with PWRPA's General Manager to evaluate the 2023 scope of work for operations management functions; and

WHEREAS, RBI has proposed a one-year extension of the existing professional services agreement.

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

1. Authorizes the Chair, or his designee, to execute and implement the contract with RBI for operations management services according to the rates, terms, and conditions substantially similar to those set forth in Exhibit A, subject to the prior approval of General Counsel as to the form of the final, executable version.

PASSED AND ADOPTED by the PWRPA Board of Directors this 7th day of December 2022, by the following vote on roll call:

AYES	Arvin-Edison WSD, Banta Carbona ID, Byron Bethany ID, Cawelo WD, Glenn-Colusa ID, James ID, Lower Tule River ID, Princeton/Provident ID, RD 108, Santa Clara Valley WD, Sonoma County WA, West Stanislaus ID, Westlands WD, Zone 7 WA
NOES	
ABSENT	

_____
David Weisenberger
Chairman

_____
Attest by: Bruce McLaughlin
Secretary

ATTACHMENT A
to
RESOLUTION 22-12-20

PROFESSIONAL SERVICES AGREEMENT

Robertson-Bryan, Inc. (Firm), and the **Power and Water Resources Pooling Authority**, a California joint powers authority (Authority), enter into this **Professional Services Agreement** (Agreement), effective January 16, 2023. The Firm and the Authority are collectively referred to herein as the Parties. The Parties agree as follows:

1. Term and Termination

This Agreement shall become effective **January 16, 2023** and shall continue in effect until **January 15, 2024**, unless terminated prior to that date by either Party. This Agreement may be terminated under the following conditions:

1. By written mutual agreement of both Parties. Termination under this provision may be immediate.
2. Termination for convenience: Upon six (6) months written notice by either Party to the other of intent to terminate. In the event that the Joint Powers Agreement (JPA) is terminated pursuant to JPA section 6.1.1, the six-month notice period shall automatically begin no later than the date that all parties to the JPA mutually agree to terminate the JPA.
3. Termination for cause: If the Firm fails to perform in accordance with the Scope of Services listed below, or if the Firm fails to comply with any other provisions of the Agreement and fails to correct such noncompliance within thirty (30) days written notice thereof, the Authority may terminate this Agreement for cause. Termination shall be affected by serving a notice of termination on the Firm setting forth the manner in which the Firm is in default. The Firm will only be paid for services performed in accordance with the manner of performance set forth in this Agreement.
4. If this Agreement is terminated by either Party, the Authority agrees to pay to the Firm all fees and expenses associated with services provided to the effective date of termination.

2. General Scope of Services, Staff Roles, and Availability

a. General Scope of Services (see **Exhibit A**)

   i. Any work deemed by the Operations Manager, General Manager, and/or Authority Board of Directors (Board) to be out of scope with regards to Exhibit A will be presented by the Firm to the General Manager and/or Board for approval on a time and material basis according to the Firm Fee Schedule presented in **Exhibit B**.

   ii. Any services requested of Firm staff that would result in exceeding the annual availability of staff for the fixed fee for services defined in Exhibit A shall be billed to the Authority on a time and material basis, according to the Firm Fee Schedule provided in Exhibit B.

   iii. Additional services requested by individual Districts (for projects/topics primarily addressed through PWRPA) that are not covered by the fixed fee will be billed on a time and material basis, according to the Firm Fee Schedule in Exhibit B, at the discretion of the Firm and Districts.

b. Staff & Accessibility

i. Professional services by Cori Bradley:

Role: Operations Manager duties

ii. Firm Staff:

Role: Staff shall support both the Operations Manager and the General Manager in an efficient and effective manner. Staff roles can change over time, but key staff positions available are staff analyst, database analyst, and power trader.

Accessibility: Staff are available up to a collective total of 4,100 hours for their respective roles under the fixed fee. Staff are available during standard business hours and on-call as needed.

3. Independent Contractor Relationship

The Parties intend that an independent contractor relationship will be created by this Agreement. The Firm shall remain, at all times as to the Authority, a wholly independent contractor with only such obligations as are required under this Agreement. The implementation of services will lie solely with the discretion of the Firm. No employee of the Firm shall be deemed to be an employee of the Authority. The Firm will be solely and entirely responsible for its acts and for the acts of its agents, employees, servants, subcontractors or representatives during the performance of this Agreement.

4. Fixed Fee for services, reimbursable expenses

Fixed Fee: The annual contract rate for 2023 services provided under this Agreement shall be **Six hundred twelve thousand one hundred fifty ($612,150.00)** dollars, which shall be paid in monthly installments of fifty one thousand twelve dollars and fifty cents **($51,012.50)**. This fixed fee shall be compensation for the scope of services outlined in Exhibit A and staff availability defined above.

In the event that this Agreement is extended to subsequent years, the scope of services and associated fixed fee shall be reviewed and revised by the Firm and submitted to the Authority Board for review and approval annually as part of the Authority's annual budget approval process. As such, it provides a reasonable opportunity to maintain an equitable Agreement in place for both parties in the face of changing workloads and services requested from the Firm to meet the Authority's needs.

The Firm shall receive reimbursement beyond that of the fixed fee for all direct expenses incurred while providing professional services to the Authority, including but not limited to, plane fare, mileage at the current IRS approved business rate per mile, lodging for overnight stays as authorized in advance by the Authority, document delivery charges, copying charges, filing fees and any other costs required to complete the scope of services. The Authority will consider and possibly reimburse certain educational activities that directly benefit the Authority.

MCG Energy Solutions software as service: The Firm is contracted with a software provider under the guidance and agreement by the Authority that replaces the SAMBA system. The Firm will pass through the MCG invoiced costs and will manage the subscription level as requested by the Authority.

5. General Right of Inspection and Supervision

Even though the Firm is an independent contractor with the Authority to control and direct the performance and details of the work authorized under this Agreement, the work must meet the approval of the Authority and shall be subject to the Authority's inspection.

6. Notices

All notices, invoices, reports or other communication required herein shall be properly given if delivered in person, or sent by first-class mail, facsimile, email, or overnight delivery to the following addresses.

Authority:
Power and Water Resources Pooling Authority
Attention: Chairman
Banta-Carbona Irrigation District
3514 West Lehman Road
Tracy, CA 95304
bcid@inreach.com

Firm:
Robertson-Bryan, Inc.
Attention: Michael Bryan
3100 Zinfandel Drive, Suite 300
Rancho Cordova, CA 95670
bryan@robertson-bryan.com
Telephone: (916) 714-1802

7. Key Terms and Conditions

1. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of California, exclusive of conflict of laws provisions.
2. This Agreement constitutes the entire agreement between the Parties concerning the subject matter hereof.
3. This Agreement may not be modified or amended without the express written agreement of the Parties.
4. This Agreement may be executed in any number of counterparts, including through facsimile signatures, and upon execution by the Parties, each executed counterpart shall have the same force and effect as an original document and as if the Firm and the Client had signed the same document. Any signature page of this Agreement may be detached from any counterpart of this Agreement without impairing the legal effect of any signatures thereon, and may be attached to another counterpart of this Agreement identical in form but having attached to it one or more signature pages.

5. This Agreement may be scanned and stored in electronic format. Neither Party shall object to the admissibility of an electronic version of this Agreement on the basis that such was not originated or maintained in documentary form.

6. All intellectual property rights in the services, including but not limited to, any deliverable furnished to the Authority as part of the services or any modifications, customizations and interfaces developed with respect to a deliverable, in whole or in part, provided to the Authority by the Firm under this Agreement shall be solely the property of the Authority. The Firm hereby assigns all right, title and interest in and to and exclusive ownership of such services and deliverables to the Authority and the Firm shall take all actions necessary to transfer exclusive ownership of the same to the Authority. The Authority and the Firm agree that any product created, conceived, and/or prepared by the Firm in the performance of the services contained in this Agreement shall in all respects be considered a "work made for hire" within the meaning of the federal copyright and patent laws and that no other right in this Work shall inhere in the Firm, or in the Firm's representatives, heirs, or assigns. The Work shall be owned by the Authority and the Authority may, at its option and expense, seek copyright or patent registration for the Work. As owner of the copyright or patent, the Authority shall have all rights attendant to that ownership, including, but not limited to, rights of reproduction, preparation of derivative works, distribution, and display. Notwithstanding the foregoing, the Firm and the Authority may establish different terms for a specified deliverable pursuant to a separate written agreement.

7. Indemnity: If any claim or action is brought against the Firm, or any personnel of the Firm, and such claim arises from the Authority's negligence, errors or omissions, or willful misconduct, the Authority agrees to indemnify and hold harmless the Firm, its owners, officers, and employees from injuries, damages, claims, demands, costs, expenses, losses or liabilities, in law or in equity for all such claims and damages. The Firm agrees to indemnify and hold harmless the Authority, its Directors, officers, employees, and authorized volunteers from injuries, damages, claims, demands, costs, expenses, losses or liabilities, in law or in equity arising from the negligent acts, errors or omissions of the Firm or its employees, subcontractors, and any other person, firm, or corporation furnishing or supplying work, services, materials, or supplies in connection with the performance of this Agreement. The Authority will control its own defense and at the time of claim resolution, in the event of any claim within the purview of these indemnification provisions, Firm will provide reimbursement for those defense costs caused by any negligence or willful misconduct by or attributable to the Firm.

8. Arbitration: Any dispute arising out of or related to the engagement of Firm or its personnel by the Authority for any purpose, including, but not limited to, (i) any dispute relating to Firm's fees, expenses or costs, or (ii) any dispute relating to any allegedly wrongful or negligent act or omission by Firm or the Authority or any of their personnel, or (iii) any dispute relating to any duty allegedly owed by Firm or its personnel to the Authority or by the Authority or its personnel to Firm, shall be subject to binding arbitration at San Francisco, California, pursuant to the Commercial Arbitration Rules of the American Arbitration Association in effect at the time of the arbitration. The Authority understands that by agreeing to arbitrate the disputes specified in this arbitration agreement it is

waiving its right to have a trial by a jury or court regarding such disputes. This arbitration agreement shall only apply to disputes concerning fees, costs, or both if (i) the Authority does not elect to pursue the arbitration procedures provided by the California Business and Professions Code (Bus. & Prof. Code, § 6200 et seq.) regarding such disputes, or (ii) if either Firm or the Authority rejects the award in any such arbitration. All employees and officers of Firm and the Authority are intended beneficiaries of this arbitration agreement and shall be bound by and have the benefit of it. The arbitration shall not deprive any party of prejudgment remedies. All arbitration proceedings, or any action to enforce such proceedings, shall be conducted in as confidential a manner as permitted by law. The arbitrator or arbitrators shall be authorized to award equitable remedies including specific performance. In any such arbitration, a written statement of decision prepared in compliance with the California Code of Civil Procedure shall be rendered, and any arbitration decision must be based on correct application of law and findings of fact based upon a preponderance of evidence admissible under the Evidence Code of the State of California. Failure of the arbitrator to comply with the requirements of this agreement shall be grounds to modify or vacate an award. The arbitration proceeding shall be reported by a certified court reporter, and all evidence shall be marked and retained as part of the record of the proceedings by the court reporter, or the arbitrator, until a final judgment on the arbitrator's award is paid or confirmed or the award is modified or vacated. By agreeing to arbitration both parties waive their right to trial by Jury.

9. The Firm shall obtain at its own expense, all insurance required by the attached insurance requirements (**Exhibit C**). Such insurance shall be maintained in full force and in effect at all times during the performance of work under this Agreement.

8. Signatures

In witness whereof, the Parties have caused this Agreement to be executed by their duly authorized representatives.

Authority	**Firm**
_____	_____
David Weisenberger	Michael Bryan
Title: Chairman	Title: President
Date: _____	Date: _____

Exhibit A: General Scope of Work

The general scope of services for the fixed fee agreement is defined below.

1. Support the General Management Services:
    a. Advise Board in coordination with the General Manager on all matters relevant to the electric service provided by the Authority. Develop and implement strategic policies as authorized by the General Manager and the Board.
    b. Identify and pursue Authority customer-focused programs and initiatives.
    c. Design, build and maintains a cross-functional, team-based system to implement Board directives and attract/retain the highest caliber staff.
    d. Plan, organize, coordinate, and direct the work of Firms and others to achieve efficient operations and meet project goals.
    e. Plan, organize, coordinate, and participate in Board and committee meetings.
    f. Meet with member Agencies, as necessary, to represent the Authority's activities.
    g. Conducts a variety of special studies and surveys to determine the effectiveness of Authority projects.
    h. Represent the Board's policies and projects with other government agencies.
    i. Evaluate and make recommendations on improvements to existing Authority operations, projects, and services.
2. Operations Services
    a. Develop and implement Authority's annual and Long-term Resource Plan (ASA Article 6).
    b. Prepare and disseminate monthly reports covering operations and activities of the Authority.
    c. Develop plans and operations for Authority facilities and resources.
    d. Prepare the annual budget and Pro Forma rates, making recommendations to the Board on revenue and expenditure levels. (JPA 4.4)
    e. Manage MDMA and all metering issues, including new Points of Delivery requests.
    f. Manage Scheduling Coordinator functions, including load and resource portfolio strategy protocols.
    g. Manage staff, algorithms, and all data in software systems.
    h. Coordinate with Treasurer on all aspects of vendor invoicing, audits, and District allocation, monthly and annual reconciliation processes. This includes settlement validation of all load and resource transactions.
    i. Coordinate and manage regulatory reporting needs of the Authority.
    j. Manage staff and Districts on load scheduling and resource position analysis.

EXHIBIT B: FIRM HOURLY FEE SCHEDULE

2023 FEE SCHEDULE FOR ALL FIRM SERVICES NOT COVERED BY THE FIXED FEE

PROFESSIONAL SERVICES	RATE/HOUR
♦ Managing Partner	$285.00
♦ Principal Engineer/Scientist	$261.00
♦ Chief Engineer/Scientist	$252.00
♦ Resource Director	$236.00
♦ Senior Analyst	$219.00
♦ Project Engineer I	$206.00
♦ Senior Portfolio Manager	$189.00
♦ ISO Specialist	$173.00
♦ Project Analyst II	$158.00
♦ Project Database Analyst II	$155.00
♦ Project Analyst I	$145.00
♦ Project Database Analyst I	$144.00
♦ Staff Analyst II	$134.00
♦ Staff Analyst I	$128.00
♦ Administrative Assistant	$100.00

Ten percent (10%) of subcontractor fees will be added to cover administrative costs. Hourly rates increased by twenty-five percent (25%) for depositions, trials, and hearings.

RBI issues invoices on a monthly basis for all work performed. Payment is due upon receipt of the invoice.

EXHIBIT C: INSURANCE REQUIREMENTS

Professional Services
Additional Insured Endorsement

Liability Insurance – The Firm shall provide and maintain at all times during the performance of this Agreement, the following commercial general liability, professional liability, and automobile liability insurance:

Coverage - Coverage shall be at least as broad as the following:

1. Coverage for Professional Liability appropriate to the Firm's profession covering Firm's wrongful acts, negligent acts, and errors and omissions. The retroactive date, if any, is to be no later than the effective date of this Agreement.

2. Commercial General Liability Coverage

3. Automobile Liability Coverage

Limits – The Firm shall maintain no less than the following:

1. Professional Liability **–** One million dollars ($1,000,000) per claim and occurrence.

2. General Liability – One million dollars ($1,000,000) per occurrence, and two million dollars ($2,000,000.00) aggregate, for bodily injury and property damage.

3. Automobile Liability (hired and non-owned) – One million dollars ($1,000,000) for bodily injury and property damage each accident limit.

Required Provisions – The general liability policy is to contain the following provisions:

1. The Authority, its directors, officers, employees, and authorized volunteers are to be given additional insured status (via ISO endorsement CG 2010, CG 2033, or insurer's equivalent for general liability coverage) as respects: liability arising out of activities by or on behalf of the Firm; and premises owned, occupied or used by the Firm.

2. For any claims related to this project, the Firm's insurance shall be primary insurance as respects the Authority, its directors, officers, employees, or authorized volunteers. Any insurance, self-insurance, or other coverage maintained by the Authority, its directors, officers, employees, or authorized volunteers shall not contribute to it.

3. In the event any change is made in the scope of coverage or retroactive date of professional liability coverage required under this Agreement, Firm shall notify the Authority prior to any changes.

Workers Compensation and Employers Liability Insurance – The Firm and all sub-contractors shall cover or insure under the applicable laws relating to workers' compensation insurance, all of their employees employed directly by them or through sub-contractors in carrying out the work contemplated under this Agreement, all in accordance with the "Workers Compensation and Insurance Act," Division IV of the Labor Code of the State of California and any Acts amendatory thereof. The Firm shall provide employer's liability insurance in the amount of at least $1,000,000 per accident for bodily injury and disease.

Deductibles and Self-Insured Retentions – Any deductible or self-insured retention must be declared to and approved by the Authority; whereas, said approval shall not be unreasonably withheld.

Acceptability of Insurers – Insurance is to be placed with insurers having a current A.M. Best rating of no less than A-:VII or equivalent or as otherwise approved by the Authority.

Evidence of Insurance – Prior to execution of the Agreement, the Firm shall file with the Authority a certificate of insurance (Accord Form 25-S or equivalent) signed by the insurer's representative. Such evidence shall include an original copy of the additional insured endorsement signed by the insurer's representative. Such evidence shall also include confirmation that the coverage includes or has been modified to include Required Provisions 1 through 3. The Firm shall upon demand of the Authority, deliver to the Authority such policy or policies of insurance and the receipts for payment of premiums thereon.

Sub-contractors – In the event that the Firm employs other independent contractors (sub-contractors), as part of the services covered under this Agreement, it shall be the Firm's responsibility to require and confirm that each sub-contractor meets the minimum insurance requirements specified above.

Power & Water Resources Pooling Authority

Regular Agenda • Item 7.A

1. General Manager Report.

Power and Water Resources Pooling Authority
December 2022 Board Meeting
General Manager's Report

Federal / WAPA Matters

1. Folsom / Shasta bypass
    a) Description
    b) BOR rules
    c) Next steps
2. Aging Infrastructure Act
    a) Description
    b) Projects, costs and WAPA allocation
    c) Next steps
3. Committee Reports
    a) Operations & Maintenance Committee
    b) Technical Committee
    c) Major Maintenance & Projects Planning Committee
    d) Hydropower Operations Committee and HPOC subcommittee

L&R Matters

1. FERC
    a) ER20-2878 WDT3 2023 Update
        i. Description
        ii. Filing
        iii. Cost of Ownership and Non-Usage Charge
        iv. Schedule and next steps
    b) ER22-619 WDT3 litigation
        i. Description and issues
        ii. Schedule and next steps
    c) ER22-523 Point of Delivery Biannual Filing
        i. Description
        ii. Next steps
    d) WAPA matters
        i. 2025 et seq., WAPA-PG&E service agreements
        ii. WAPA CVP Rate Case 207
        iii. Schedule and next steps
2. Wildfire Safety Advisory Board
    a) 2023 Wildfire Mitigation Plan comprehensive update
    b) Schedule and next steps
3. CPUC
    a) 2023 General Rate Case
        i. Description and issues
        ii. Schedule
    b) Other Proceedings of interest

Power and Water Resources Pooling Authority
December 2022 Board Meeting
General Manager's Report

Inflation Reduction Act of 2022

1. Description
2. Financing models
3. IRS Guidance
    a) Requests
    b) Rulings
4. Schedule and next steps

Energy Projects

1. Distributed generation
    a) IRA definition
    b) October/November activities
    c) Structural options
2. Distributed energy storage
    a) IRA definition
    b) October/November activities
3. Schedule and next steps

Strategic Matters (2023-2045)

1. Description and scope
2. Energy Transition
    a) Industry direction
    b) Regulatory direction
    c) Local impact of global issues
3. Schedule and next steps

Staffing Matters

1. Vendor team
    a) Contract status
    b) Coordination activities
    c) Cost control
2. Open functions
3. Schedule and next steps

Power & Water Resources Pooling Authority

Regular Agenda • Item 7.B

1. Operations Manager Report.

Power and Water Resources Pooling Authority
December 2022 Board Meeting
Operations Manager Report

Possible Action

n/a

Operations Staff Overview

1. December planned activity
   a) Slate: data comms with MCG, invoice resolution, deemed energy outline
   b) 2022 Generator Eval reports: enhance once Slate issues resolved
   c) 2023 various operations transitions
   d) DSGS reimbursement
2. November recap
   a) Slate coord: data flows, battery dispatch issues, deemed energy discussions, PV/BESS internal cost allocation.
   b) DSGS program: reimbursement from CEC
   c) 2023 Budget prep

October Operations Report:

1. Pre-Reconciliation
   a) Actual data for January – October, Nov/Dec estimates.
   b) Does not include any DSGS revenue from CEC.
   c) Many Slate months still highly estimated, staff expects to resolve most of this in December.

Table 2: Revenue and Expense: January - December 2022

Participant	Revenue	Expenses			Balance	Summary	
	Power Invoice	Power & Ops Costs	P3	Direct Consulting	Over/(Under) Funded	Total Costs	Composite Rate (¢/ kWh)
Arvin-Edison	$ 19,524,274	$ 18,862,858	$ 537,591	$ (110,920)	$ 234,745	$ 19,289,530	$ 16.31
Banta-Carbona	$ 2,265,899	$ 2,135,999	$ 60,876	$ (46,000)	$ 115,024	$ 2,150,875	$ 11.12
Cawelo	$ 1,770,227	$ 1,639,085	$ 46,714	$ (69,575)	$ 154,002	$ 1,616,224	$ 16.39
Glenn-Colusa	$ 639,566	$ 588,667	$ 16,777	$ (8,625)	$ 42,746	$ 596,819	$ 19.50
James	$ 794,849	$ 756,318	$ 21,555	$ (2,875)	$ 19,851	$ 774,998	$ 16.07
Lower Tule	$ 1,358,367	$ 1,341,833	$ 38,242	$ -	$ (21,708)	$ 1,380,075	$ 19.56
Princeton	$ 203,327	$ 163,273	$ 4,653	$ (2,875)	$ 38,276	$ 165,051	$ 92.30
RD108	$ 465,935	$ 425,323	$ 12,122	$ (6,295)	$ 34,785	$ 431,150	$ 24.13
Santa Clara	$ 3,489,240	$ 3,396,044	$ 96,787	$ (10,180)	$ 6,589	$ 3,482,651	$ 16.28
Sonoma	$ 5,415,516	$ 5,092,536	$ 145,137	$ (10,939)	$ 188,783	$ 5,226,734	$ 14.88
West Stan	$ 2,754,483	$ 2,532,917	$ 72,188	$ (34,500)	$ 183,878	$ 2,570,605	$ 11.83
Westlands	$ 39,946,524	$ 39,351,834	$ 1,121,527	$ (82,424)	$ (444,414)	$ 40,390,938	$ 18.09
Westside	$ 499,936	$ 462,267	$ 13,175	$ (5,175)	$ 29,669	$ 470,266	$ 18.04
Zone 7	$ 1,292,557	$ 1,260,995	$ 35,938	$ (5,312)	$ 936	$ 1,291,621	$ 16.48
PWRPA	***$ 80,420,700***	***$ 78,009,949***	***$ 2,223,284***	***$ (395,696)***	***$ 583,163***	***$ 79,837,537***	**$ 16.76**

2. Load scheduling
   a) Energy is 26% above budget for the month, 18% for the year
   b) Load averaged 52MW, 20MW less than last month
   c) Average schedule deviation of 8MW for an estimated credit of 5,000.

3. Pricing
    a) Average monthly prices

	Cost	Revenue
BR	$ 100.12	$ (76.28)
Displacement	$ 100.12	$ (82.89)
WWD BOR	$ -	$ (70.40)
Whitney Point	$ 58.75	$ (39.70)
Astoria	$ 63.00	$ (46.52)
Slate	$ 26.81	$ (42.32)
Lodi	$ 86.44	$ (79.98)
Market		

Generator Reports

1. Astoria Solar
    a. Generation
        - 2,383MWh, 32% capacity
        - Net cost $4,200 or $1.75 /MWh

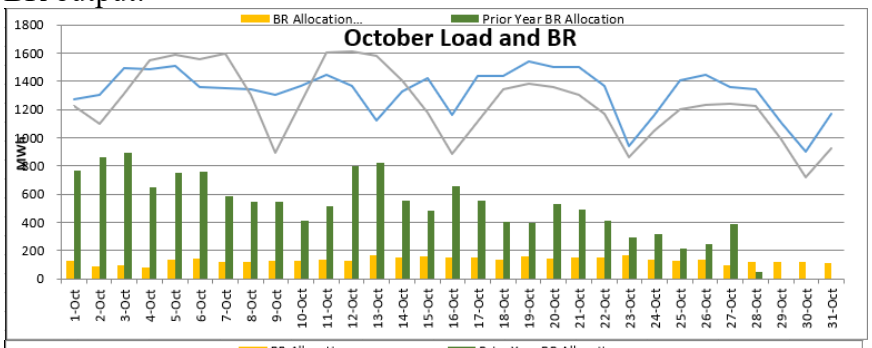
2. Whitney Point Solar
    a. Generation
        - 2,347 MWh, 29% capacity factor
        - Net cost $10,300, or $4.41 /MWh

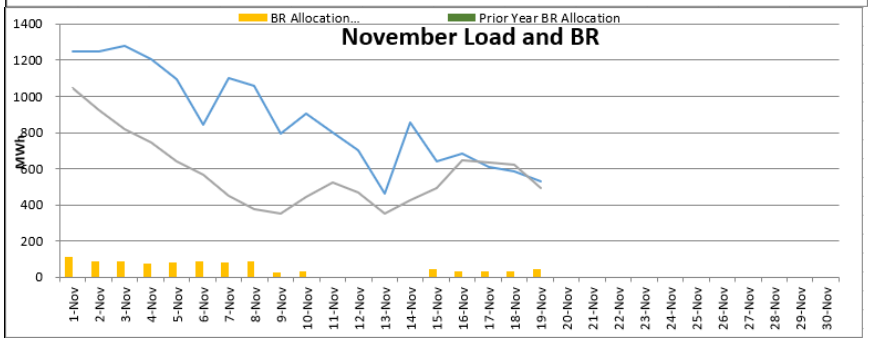
3. Slate Solar + Battery
    a. Generation
        - 4,664 MWh, 24% capacity factor
        - Net value $185,300, or $39.73/MWh
    b. Staff work
        - ACES & MCG to setup data flows
        - Invoice validation for March – August, BESS availability
        - Deemed Energy issues being worked out
        - Cost allocation between PV and Battery contract shares, first draft done and included for January – September data in the pre-reconciliation report.

4. Lodi Energy Center
    a. Generation
        - 2,693 MWh, 45% capacity factor
        - Net cost $27,300, or $10.15/MWh

Power and Water Resources Pooling Authority
December 2022 Board Meeting
Operations Manager Report

Power Planning & Regulatory

1. Power Net Short
    a. 2023 - Staff will keep eyes on forward pricing for supplemental purchase.
    b. BR output:
    c. 

    d. 

2. Regulatory
    a. Resource Adequacy:
        - No shortfall capacity calls from the CAISO for the year thus far.
        - Staff working on 2023 planning with ACES, procurement will be assessed in January 2023.
    b. RPS: Compliance snapshot:
        - PWRPA is covered with its long-term renewable requirement through 2030 assuming the CWD project is built and contracted to PWRPA for the RECs.
        - That means that we could procure additional RECs needs on a short-term basis.
        - Another way to tackle REC needs is to build/contract more renewable projects AND/OR reducing the amount of retail sales (load reduction or behind the meter resources).
        - High-level summary of position:

Power and Water Resources Pooling Authority
December 2022 Board Meeting
Operations Manager Report

		MWh				
Compliance Period		Retail Sales	RPS Req	RPS %	LT RECs	LT %
2021-2024	CP4	1,453,699	561,661	39%	493,989	88%
2025-2027	CP5	1,231,364	607,937	49%	432,414	71%
2028-2030	CP6	1,169,698	674,211	58%	423,704	63%
**LT RECs don't include CWD project*						

	RECs		
	PCC1/2 Req	In Portfolio	Coverage
CP4	495,914	474,943	96%
CP5	539,044	417,114	77%
CP6	598,690	408,404	68%

Power & Water Resources Pooling Authority

Regular Agenda • Item 7.C

1. Resolution 22-12-21 Regular Meeting Dates for 2023.

Power & Water Resources Pooling Authority
Resolution 22-12-21

SETTING THE REGULAR MEETING DATES FOR 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, JPA Section 3.10.1 provides that the Board may provide for the holding of regular meetings at intervals more frequently than annually; and

WHEREAS, JPA Section 3.10.1 requires that the date, hour, and place of each regular meeting shall be fixed by an action of the Board.

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

1. Approves the 2023 Regular Meeting Schedule, appended hereto as Attachment A.

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 7th day of December, 2022, 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, Santa Clara Valley WD, Sonoma County Water Agency, West Stanislaus ID, Westlands Water District, Zone 7 WA
NOES	
ABSENT	

David Weisenberger
Chairman

Attest by: Bruce McLaughlin
Secretary

Attachment A to Resolution 22-12-21

Time and Place of Regular Meetings in 2023

The Regular Board meetings shall occur at 9:00 AM on the first Wednesday of the following months.

(a) February 1

(b) April 5

(c) June 7

(d) August 2

(e) October 4

(f) December 6

Unless otherwise specially noticed, the Regular Board meetings shall be held at the Banta-Carbona Irrigation District headquarters, 3514 W. Lehman Road, Tracy, CA 95304.

Power & Water Resources Pooling Authority

Regular Agenda • Item 7.D

1. Resolution 22-12-22 Appointment of PWRPA Officers for 2023.

Power & Water Resources Pooling Authority
Resolution 22-12-22

OFFICERS FOR THE 2023 FISCAL YEAR

WHEREAS, the Power and Water Resources Pooling Authority ("Pooling Authority") 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, JPA Section 3.11.1 requires the Board of Directors ("Board") to select, from among themselves, a Chair and a Vice-Chair; and

WHEREAS, JPA Section 3.11.2 requires the Board to appoint a Secretary; and

WHEREAS, JPA Section 3.11.3 requires the Board to appoint a qualified person to serve as Treasurer and Auditor; and

WHEREAS, JPA Section 3.11.6 provides that the aforementioned officers shall serve a one-year term beginning on the first day of each fiscal year.

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

1. Selects, appoints and designates the following persons as officers for 2023.
    a. Chair –
    b. Vice Chair –
    c. Secretary –
    d. Treasurer and Auditor -

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 7th day of December, 2022, 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, Santa Clara Valley WD, Sonoma County Water Agency, West Stanislaus ID, Westlands Water District, Zone 7 WA
NOES	
ABSENT	

_____ _____

David Weisenberger
Chairman

Attest by: Bruce McLaughlin
Secretary

Power & Water Resources Pooling Authority

Regular Agenda • Item 7.E

1. Energy Outlook Reports by District.