

**Power & Water Resources Pooling
Authority**

Regular Meeting of the Board of Directors

**9:00 A.M.
Wednesday, August 2, 2023**

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 **August 2, 2023, at 9:00 a.m., at the Banta Carbona Irrigation District, 3514 W. Lehman Road, Tracy, CA 95304**, and by simultaneous teleconference at the following locations:

Cawelo Water District
17207 Industrial Farm Rd., Bakersfield, CA

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

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

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

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

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 2 Min	Consent Agenda A. Minutes of the Regular Board Meeting held on June 5, 2023. B. P3 funds requests for 2019 and later tranches: AEWS, BBID, CWD, JID, PPID, RD 108, SCWA.
5	TR GM OM 90 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. B. Consider and possibly approve Resolution 23-08-11 <i>2022 Annual Reconciliation</i> . C. Rate matters including carbon-free transfer proposal, REC transfer proposal, 2024 budget issues; if applicable, consider and possibly approve Resolution 23-08-XX <i>Rate Review and Adjustment</i> .
6	GM OM 15 Min	A. GM Report – Update and overview. B. OM Report – Ops highlights; CEC Demand Side Grid Support (DSGS) Program.

7	GM OM 15 Min	Special Projects A. Consider and possibly approve Resolution 23-08-12 <i>BCID Power Purchase Agreement and Rate Agreement</i> . B. Update: Lower Tule River Success Hydro; Westlands Water District solar project.
8	SC GC 10:45 AM 10 Min	Closed Session A. 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). B. Conference with legal counsel – Existing litigation: PG&E IA, FERC ER23-1661. Pursuant to Gov’t Code section 54956.9(d)(1).
9	Chair	Board Matters – Other announcements.
	Chair	Adjournment - Next Regular Meeting is Wednesday, October 7, 2023, at 9:00 A.M.

Power & Water Resources Pooling Authority

Regular Agenda • Item 4

1. Minutes of the June 7, 2023, meeting.
2. P3 funds requests.

Power and Water Resources Pooling Authority

REGULAR MEETING MINUTES JUNE 7, 2023

Chair	<p>Directors and Alternates Present: <i>Dave Nixon (AEWSD), Dave Weisenberger (BCID), Ed Pattison (BBID), Dave Ansolabehere (CWD), Louis Jarvis (GCID), Manny Amorelli (James), John Michael Domondon (LTRID), Gary Enos (PPID), Lance Boyd (PPID), Jordan Navarott (RD 108), John Brosnan (SCVWD), Dale Roberts (SCWA), Bobby Pierce (WSID), Kiti Campbell (WWD), Russ Freeman, James Carney (Z7).</i></p> <p><i>Also participating: Geoffrey King and Danhira Millan (Barbich Hooper King Dill Hoffman), Bruce McLaughlin (GM), Cori Bradley (OM), Jennifer Montoya (WWD).</i></p>
Chair	<p>Matters Subsequent to Posting the Agenda – Mr. McLaughlin requested to add 6.F.2 Displacement Contract Extension and to remove Resolution 23-06-02 from the consent agenda and put it under item 6B.</p> <p>David Nixon moved, Dave Ansolabehere seconded, and participating Directors unanimously approved the addition of 6.F.2 and the change of location Resolution 23-06-02.</p> <p>Voting Shares: 100% Yes / 0% No / 0% Absent ()</p>
Chair	<p>Public Comment – none</p>
Chair	<p>Consent Agenda</p> <p>A. Minutes of the Regular Board Meeting held on April 5, 2023.</p> <p>B. P3 funds request – RD 108 distribution facilities electrical improvement.</p> <p>Dave Ansolabehere moved, Jordan Navarott seconded, and participating Directors unanimously approved the Consent Agenda.</p> <p>Voting Shares: 100% Yes / 0% No / 0% Absent ()</p>
TR, Auditors	<p>A. Report by Auditors. Consider and possibly accept Resolution 23-06-03 <i>2022 Annual Audit.</i></p> <p>The auditors gave their report on PWRPA's 2022 operations. Mr. King presented the governance letter and the audit report. He stated that they did not have any disagreements with management and did not find any problems with the accounting processes employed by PWRPA. They also presented the 2022 financial statements. He discussed where the audit was conducted, noted that the internal control is robust and that there is good oversight by the board. He praised the use of contractors for various operations as well as the use of a General Manager as it provides good independence. Ed Pattison asked if any of the invoices from member agencies were audited. Danhira Millan responded by explaining that they go through RBI for invoices to validate those deposits. They stated that PWRPA's has one of the most detailed MDNA they have come across. He gave a rundown of the balance sheet and noted that the net position of the Authority dropped by \$3M, while the total assets of the Authority went up by \$1.6M. Ed Pattison asked how much of the increase in power cost was due to actual generation vs PG&E's T & D charges. Mr. King explained that Transmission and Distribution costs went up by 10M, which was one of the largest factors in the increase of the cost of power.</p>

	<p>Mr. McLaughlin asked that Mr. Nixon step out of the room so that the Board members could speak openly about any concerns with the business operations of PWRPA. No concerns were expressed.</p> <p>Dave Weisenberger stated his appreciation at the thoroughness of the MDNA report because it was, in his view, an excellent annual review report. Ed Pattison asked how much time Dave Weisenberger and other board members spend reviewing the results of the audit with their own district's board. All districts stated that they do not go in-depth on the results of the audit with their own boards, rather they tell their district that the audit is finished and PWRPA has a clean bill of health.</p> <p>Dave Nixon moved, Jordan Navarott seconded, and participating Directors unanimously approved the audit.</p> <p><i>Voting Shares: 100% Yes / 0% No / 0% Absent ()</i></p> <p>B. Treasurer's Report - Approval of Ordering Payments of Accounts and Claims; acceptance of the Treasurer's Report and other items related to Treasurer's duties.</p> <p>Mr. Nixon presented the Treasurers Report and stated that the information is as of April 30, 2023. He noted that PWRPA is accumulating a little extra money due to high rates from last year. He stated that he and Ms. Bradley will be working on the 2022 reconciliation and will present it at the August meeting. He reminded everyone about the Summer Reserve for which many people may tap into their Cap & Trade and P3 funds. Mr. Nixon reminded members that the CAISO collateral deposit account is the reason for increasing PWRPA's reserve fund and added that CAISO pays interest on monies in this account.</p> <p>Dave Ansolabehere moved, Manny Amorelli seconded, and participating Directors unanimously approved the Treasurer's Report.</p> <p><i>Voting Shares: 100% Yes / 0% No / 0% Absent ()</i></p>
GM OM	<p>A. GM Report – Activity update.</p> <p>Mr. Weisenberger asked Mr. McLaughlin when he would be retiring. Mr. McLaughlin stated that he did not have specific plans, however he was putting information etc. in order for future transition.</p> <p>B. OM Report – Ops highlights; power & RA forecast; Slate; RPS compliance update for CP 3 / CP 4.</p> <p>Ms. Bradley stated that her team worked on outstanding SLATE issues for 2022, updated the budget for wet year trends, worked with White Pines on various potential district projects, worked on the IRP, the Lower Tule Hydro project, and the 2022 Reconciliation. She stated that PWRPA is still following the DSGS and said her team will send out a solicitation email to see who wants to participate. She stated that PWRPA will be about 8M overfunded.</p> <p>Ms. Bradley explained that though it was a wet year, PWRPA had not received the volume of Base Resource that they would expect as of April 30 due to low rain in January through April, however currently the volume has increased. She said power prices have not yet dropped at the rate her team expected and it is still uncertain how power prices will change over the summer.</p> <p>Dave Weisenberger asked if there will be excess Base Resource during the summer. Ms. Bradley stated that Base Resource has been supplying</p>

most of PWRPA's load. In May, her team turned some Base Resource back however more recently have accepted all they can get. Dave Weisenberger asked if PWRPA will be immune to supplemental power prices considering the high volume of Base Resource. Ms. Bradley stated that PWRPA is fully hedged for the summer due to abundant Base Resource, Slate, and Lodi. Mr. Nixon asked if most of PWRPA's load is covered by Base Resource, will that lower PWRPA's CAISO costs. Ms. Bradley said we still have to pay for our load. However, because of the quantity of Base Resource in our portfolio, PWRPA is putting extra generation onto the grid for which CAISO is giving us revenue. This is lowering PWRPA's total liability in the eyes of the ISO.

Dave Weisenberger asked if PWRPA's contract with WAPA limits how much energy PWRPA can put into the ISO. Mr. McLaughlin explained that PWRPA cannot resell Base Resource per our contract with WAPA, so any extra Base Resource that PWRPA has beyond its load stays with WAPA – PWRPA is load limited. Mr. Nixon stated that PWRPA is using Base Resource to cover its load and selling all excess generation from other assets to the ISO.

Ms. Bradley noted that during stretches of negative pricing Slate made more money than other assets such as Astoria and Whitney Point, due to the battery storage. The storage allowed PWRPA to sell stored energy when the prices went positive. PWRPA's other resources do not have the option to save what they produce during negative pricing.

Ms. Bradley stated that because PWRPA must pay the contract price for generation regardless of whether it generates revenue or not, during the time the market was in negative pricing her team set a negative price high enough that it gave PWRPA recs. She stated that the negative pricing will go down during the summer.

Dave Ansolabehere asked why PWRPA is going negative, and Ms. Bradley stated that was because of the abundance of Base Resource, and PWRPA is experiencing lower loads due to mild temperatures in California.

Ms. Bradley reported that Lodi was on outage in April however it is scheduled to run all year depending on power prices.

Ms. Bradley stated PWRPA is fully hedged so no supplemental power purchases are needed for this summer, however her team is looking to hedge off-peak power for 2024 and 2025. They are anticipating better power prices towards the end of summer. She stated that they have no calls for shortfalls yet in 2023.

She discussed that next year is the end of the current compliance period for recs and said that PWRPA itself is not short, however some members are short on bucket 1 recs. She noted that Rec prices are currently high, and some districts are long, so she suggested that those that are long, sell to those that are short.

Mr. Nixon asked if the new special project that Success Hydro Power is doing will help with the rec situation. Cori stated that it is a small amount and while it will help, it will not solve any member's total requirement. To this end, she is also hoping to get Warm Springs up and running soon. She also stated that other district members who have projects coming online such as Cawelo's solar will have recs for the next compliance period.

Mr. McLaughlin stated that he and Ms. Bradley are interested in talking to growers with NEMS regarding recs.

	<p>Mr. McLaughlin requested approval of Resolution 23-06-02 for the Integrated Resource Plan Annual Progress Report which is the 5-year Plan.</p> <p>Dave Ansolabehere moved, Dave Nixon seconded, and participating Directors unanimously approved the 5-year IRP Plan.</p> <p><i>Voting Shares: 100% Yes / 0% No / 0% Absent ()</i></p> <p>C. Consider and possibly approve Resolution 23-06-04 <i>Rate Review and Adjustment</i>.</p> <p>Ms. Bradley presented the rates her team is proposing and said their recommendation is as of June 1, 2023, going forward. She said some districts are somewhat underfunded, but her team is not concerned at this point due to contingency funds etc.</p> <p>Ms. Bradley stated that because we are in a wet year, rec requirements are down for some districts as are carbon transfer purchases, so her team is recommending a fixed power charge. She presented the energy charge based on district usage and said more hydro and forward power prices are the drivers for this new rate. She stated that her team's goal is to avoid underfunding, however each district can postpone a rate change until August if they prefer. July invoices will reflect rate changes. She stated that during the last quarter of the year districts can adjust the amounts they either owe or get refunded. Mr. Nixon stated that the rates are a mechanism for collecting funds for real cost.</p> <p>Mr. Nixon asked if districts could request changes to their rates during the year and Ms. Bradley answered in the affirmative. Mr. McLaughlin stated that legally PWRPA must have a rate posted.</p> <p>Dave Weisenberger asked the board if it approves the rates in Table 3 and 4.</p> <p>Dave Nixon moved, John Brosnan seconded, and participating Directors unanimously approved Tables 3 and 4 of the Resolution 23-06-04.</p> <p><i>Voting Shares: 100% Yes / 0% No / 0% Absent ()</i></p> <p>D. Consider and possibly approve Resolution 23-06-05 <i>ASA Exhibit E Version 10</i>.</p> <p>Mr. McLaughlin stated that was presented in the April Board Meeting, met with some questions, so the BROCC worked on it in the interim.</p> <p>Manny Amorelli moved, Dave Ansolabehere seconded, and participating Directors unanimously approved Resolution 23-06-05, an update of Exhibit E.</p> <p><i>Voting Shares: 100 % Yes / 0% No / 0% Absent ()</i></p>
GM OM	<p>E. Consider and possibly approve Resolution 23-06-06, 2022 Power Source Disclosure.</p> <p>Mr. McLaughlin stated that every year PWRPA is required to disclose its energy sources. He explained that PWRPA has 2 portfolios: Zero Carbon and with Carbon. Mr. Nixon stated that in 2022 we had carbon exposure from some of the districts and stated that PWRPA has a mechanism for districts who want a 0-carbon rating to purchase BR from PWRPA. Mr. Nixon said that since 2023 is a wet year, more districts will most likely be under the Zero Carbon portfolio. He stated that more and more landowners in Arvin's district are wanting to be 0 carbon. Mr. McLaughlin stated that PWRPA can have as many portfolios as they want. Mr. Nixon asked what the "Unspecified Source"</p>

	<p>means on form, and Mr. McLaughlin stated that it is energy from the ISO. Dale Roberts asked if his district could use Cap and Trade funds to pay for the transfer to which Mr. McLaughlin stated that “yes” a district can do that.</p> <p>Dave Nixon moved, Dave Ansolabehere seconded, and participating Directors unanimously approved R 23-06-06 to approve the Power Source Disclosure.</p> <p>Voting Shares: 100% Yes / 0% No / 0% Absent ()</p> <p>F. Consider and possibly approve Resolution 23-06-07 WAPA Annual O&M Obligation for 2025.</p> <p>Mr. McLaughlin stated that this obligation is the fair share by percentage of each participant for Base Resource. It will be sent back to districts on their invoices. He stated that all participants in WAPA pay their fair share. Mr. McLaughlin stated that there is a new proposal that is suspect because the it will send too much water down the Trinity and not to the 4 diversions thereby not allowing the water to generate electricity at those 4 generation sites before being delivered to end users.</p> <p>John Brosnan moved, Manny Amorelli seconded, and participating Directors unanimously approved the Resolution 23-06-07.</p> <p>Voting Shares: 100% Yes / 0% No /0% Absent ()</p> <p>G. Resolution 23-06-10 Continued Participation in the Displacement Program.</p> <p>Mr. McLaughlin said this is just to extend our participation in the Displacement program for 2 more years.</p> <p>Dave Ansolabehere moved, Manny Amorelli seconded, and participating Directors unanimously approved the Resolution 23-06-10.</p> <p>Voting Shares: 100% Yes / 0% No /0% Absent ()</p> <p>H. Consider and possibly approve Resolution 23-06-08 Wildfire Mitigation Plan Committee.</p> <p>Mr. McLaughlin stated that the WMP is an annual filing requirement due this year, on July 1, 2023. The Wildfire Mitigation Safety Board has made significant changes to the report template so Mr. McLaughlin will be working with the 4 affected districts. This resolution will create a committee specifically comprised of Mr. McLaughlin and the 4 affected directors and will allow for in-committee approval of the revised WMP.</p> <p>Manny Amorelli moved, Dave Ansolabehere seconded, and participating Directors unanimously approved the Resolution 23-06-08, the creation of a WMP Committee comprised of the 4 affected districts.</p> <p>Voting Shares: 100% Yes / 0% No /0% Absent ()</p>
SC GC	<p>Special Projects</p> <p>A. Consider and possibly approve Resolution 23-06-09 <i>Success Hydro Power Purchase Agreement</i>.</p> <p>Mr. McLaughlin proposed that PWRPA enter into an 8-month PPA with LTRID for the purchase of its recs. This resource is a small facility that in wet years will generate 1.8 MWh of renewable energy. LTRID will assume the cost and receive the payment from the ISO for the energy, and PWRPA will get the bucket 1 recs. PWRPA will pay them \$20 a rec, which is low in the current market. We will have the option to renegotiate it next year if both parties agree.</p>

	<p>Dave Nixon asked if in a dry year would there be any benefit to either party and Mr. McLaughlin said no.</p> <p>Dave Nixon moved, John Brosnan seconded, and participating Directors unanimously approved Resolution 23-06-09 to purchase bucket 1 recs from LTRID.</p> <p>Voting Shares: 100% Yes / 0% No /0% Absent ()</p>
	<p>Closed Session</p> <p>A. 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).</p> <p>Conference with legal counsel – Existing litigation: PG&E IA, FERC ER23-1661. Pursuant to Gov’t Code section 54956.9(d)(1).</p>
Chair	<p>Board Matters – Mr. Weisenberger mentioned that his district will be meeting with Andy Roth, a representative from Centrica Company, regarding the purchase of battery storage. The meeting will take place on June 22, at 10 AM in the Banta Carbona board room, and any interested Board members are invited to attend.</p>
Chair	<p>Adjournment - Next Regular Meeting is Wednesday, August 2, 2023, at 9:00 A.M.</p>

Power & Water Resources Pooling Authority

Regular Agenda • Item 5.A

1. Treasurer's Report.

POWER AND WATER RESOURCES POOLING AUTHORITY
CASH ACTIVITY AND TREASURER'S REPORT
MONTH ENDING JUNE 30, 2023

CASH ACTIVITY:

BALANCE MAY 31, 2023		\$ 19,358,081.95
Increases:		
Power Billing Invoices	\$ 5,026,073.94	
GHG Auction	758,250.00	
NCPA - Displacement Program	53,311.59	
CAISO	45,963.21	
APX - Astoria Solar	20,708.20	
TCB - Monthly Interest	4,005.45	
	<hr/>	5,908,312.39
Decreases:		
CAISO	\$ 1,171,572.82	
WAPA - Power May 2023	545,144.97	
Canadian Solar - Astoria Solar - May 2023	196,873.08	
NCPA - LEC June 2023	192,811.00	
WAPA O&M	160,425.00	
Canadian Solar - Slate Solar partial March, April 2023	149,909.21	
PG&E - GCID, RD 108, SCVWD, Zone 7	85,735.49	
Robertson-Bryan, Inc	66,734.41	
WAPA - Restoration May 2023	55,598.34	
Cameron-Daniel, P.C.	37,435.60	
Aces - June 2023	25,000.00	
Arvin-Edison Water Storage District-Treasurer	8,867.39	
Michael McCarty Law Office, PLLC	7,025.00	
White Pines Solar Santa Clara WD - May 2023	3,783.91	
Holland and Knight	849.24	
Braun Blaising & Wynne, P.C.	520.99	
Bank Fees - June 2023	500.00	
Advanced Data Storage	44.50	
	<hr/>	2,708,830.95
BALANCE JUNE 30, 2023		<u><u>\$ 22,557,563.39</u></u>

TREASURERS REPORT:

Operating Account:		
Tri Counties Bank - General Operating Account #1031821, yield 3.0%		\$ 2,018,696.13
Local Agency Investment Fund (LAIF) - Account # 90-39007, yield 3.167%		
Reserve Funds	\$ 10,378,264.12	
Cap & Trade Allowance Revenue	6,815,336.05	
Funds on Deposit	3,345,267.09	
Total LAIF	<hr/>	20,538,867.26
TOTAL PWRPA OPERATING FUNDS - JUNE 30, 2023		<u><u>\$ 22,557,563.39</u></u>
Public Purpose Program (P-3) Tri Counties Bank Account #1031856		<hr/> 3,330,986.97
TOTAL FUNDS ON DEPOSIT WITH PWRPA - JUNE 30, 2023		<u><u>\$ 25,888,550.36</u></u>
CAISO Collateral Deposit Account		2,841,196.54
Western Area Power Administration - PWRPA Trust Account		<hr/> 1,000.00
TOTAL FUNDS - PWRPA & OTHER AGENCIES - JUNE 30, 2023		<u><u>\$ 28,730,746.90</u></u>

Treasurer's Notes:

All investments are placed in accordance with PWRPA's Statement of Investment Policy and Guidelines. The Treasurer's Report is presented on a cash basis, effective yields are based on most recent published information. PWRPA has sufficient cash flow to meet its obligations next month. Included in the Operating Funds above is the Board approved \$10,000,000 Reserve and Funds on Deposit from the following Participants:

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

Power and Water Resources Pooling Authority
P-3 Remaining Funds By Year
as of June 30, 2023

Member Agency	2019	2020	2021	2022	2023	Total Available P-3 Funds	Expenditures	
	(a)	(b)	(c)	(d)	(e)	(f)	Total to Date	June-23
							(g)	(h)
Arvin-Edison WSD	\$0.00	\$0.00	\$0.00	\$287,039.39	\$193,614.12	\$480,653.51	\$5,237,215.16	\$0.00
Banta Carbona ID	0.00	28,418.11	49,489.90	65,427.64	19,505.18	162,840.83	404,708.20	0.00
Cawelo WD	49,395.58	37,702.35	33,863.10	49,929.32	22,922.78	193,813.13	802,026.78	0.00
Glenn-Colusa ID	0.00	23,300.11	32,132.77	16,991.19	11,042.12	83,466.19	348,863.79	0.00
James ID	8,070.92	10,457.51	15,685.23	23,010.13	2,712.19	59,935.98	122,899.04	0.00
Lower Tule ID	0.00	0.00	0.00	32,941.76	15,371.81	48,313.57	331,806.44	0.00
Princeton ID	7,595.11	9,341.59	8,671.24	5,519.48	4,816.85	35,944.27	146,848.67	0.00
Santa Clara Valley WD	0.00	0.00	16,885.21	95,595.06	41,859.33	154,339.60	737,636.35	0.00
Sonoma County WA	84,011.90	99,654.97	109,040.76	145,540.92	36,912.66	475,161.21	1,406,740.31	0.00
West Stanislaus ID	0.00	0.00	0.00	61,317.22	11,056.35	72,373.57	496,284.30	0.00
Westlands WD (North & South)	0.00	0.00	102,451.51	1,093,235.26	163,691.38	1,359,378.15	5,531,125.34	0.00
West Side ID	5,539.13	8,928.49	9,001.39	14,164.94	3,702.31	41,336.26	129,954.40	0.00
RD 108	24,126.08	17,667.76	16,362.76	12,723.85	3,265.69	74,146.14	185,239.74	0.00
Zone 7	0.00	9,318.79	25,493.12	37,692.11	16,673.48	89,177.50	71,833.02	0.00
Undesignated/Forfeited/Misc	107.06	0.00	0.00	0.00	0.00	107.06	35,133.04	0.00
Total	\$178,845.78	\$244,789.68	\$419,076.99	\$1,941,128.27	\$547,146.25	\$3,330,986.97	\$15,988,314.58	\$0.00

Exclusive access Date 08/04/23 08/03/24 08/02/25

- (a) Three year exclusive access to these funds by agency begins on 8/05/20 and ends 08/04/23
- (b) Three year exclusive access to these funds by agency begins on 8/04/21 and ends 08/03/24
- (c) Three year exclusive access to these funds by agency begins on 8/03/22 and ends 08/02/25
- (d) 2022 P-3 collected
- (e) 2023 P-3 collected through June 2023
- (f) Total available P-3 Funds
- (g) Total P-3 expenditures since inception of program
- (h) P-3 expenditures June 2023

Power and Water Resources Pooling Authority
Cap and Trade Allowance Revenue
Pursuant to Resolution 13-04-05 and Resolution 21-11-14
As of June 30, 2023

District	Resolution 13-04-05		Resolution 21-11-14			Total Revenue	Expenditures	Balance
	Allocation	Revenue	2021	2022	2023			
Arvin	37.478%	\$3,421,905.95	\$208,146.78	\$831,876.00	\$352,859.15	\$4,814,787.88	\$3,921,905.95	\$892,881.93
Banta Carbona	3.115%	284,413.18	33,717.30	132,634.85	60,036.45	510,801.78	0.00	510,801.78
Cawelo	8.447%	771,248.19	32,760.55	115,918.41	38,838.22	958,765.37	205,787.50	752,977.87
Glenn-Colusa	2.849%	260,126.21	23,174.67	86,307.16	30,804.81	400,412.85	400,412.85	0.00
James	0.798%	72,860.90	5,746.23	23,359.47	11,935.50	113,902.10	0.00	113,902.10
Lower Tule	1.005%	91,760.91	20,089.23	76,569.91	27,901.55	216,321.60	0.00	216,321.60
Princeton	1.334%	121,800.06	7,684.74	25,968.74	8,270.21	163,723.75	47,503.21	116,220.54
RD 108	1.368%	124,904.41	10,013.47	35,342.29	12,019.89	182,280.06	182,280.06	0.00
Santa Clara	4.853%	443,100.21	45,211.76	169,068.24	68,841.96	726,222.17	443,100.21	283,121.96
Sonoma	7.787%	710,987.29	71,470.54	275,734.34	114,399.89	1,172,592.06	196,000.00	976,592.06
Byron Bethany II	0.708%	64,643.51	5,278.35	20,240.47	8,495.66	98,657.99	98,657.99	0.00
West Stan	3.228%	294,730.57	31,345.36	119,698.69	55,422.72	501,197.34	150,789.15	350,408.19
Westlands	27.030%	2,467,957.68	202,357.42	796,569.54	447,355.64	3,914,240.28	1,390,020.55	2,524,219.73
Zone 7	0.000%	0.00	9,503.60	46,016.34	22,368.35	77,888.29	0.00	77,888.29
Total	100.000%	\$9,130,439.07	\$706,500.00	\$2,755,304.45	\$1,259,550.00	\$13,851,793.52	\$ 7,036,457.47	\$ 6,815,336.05

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

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

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

Sale of Freely Allocated Allowances

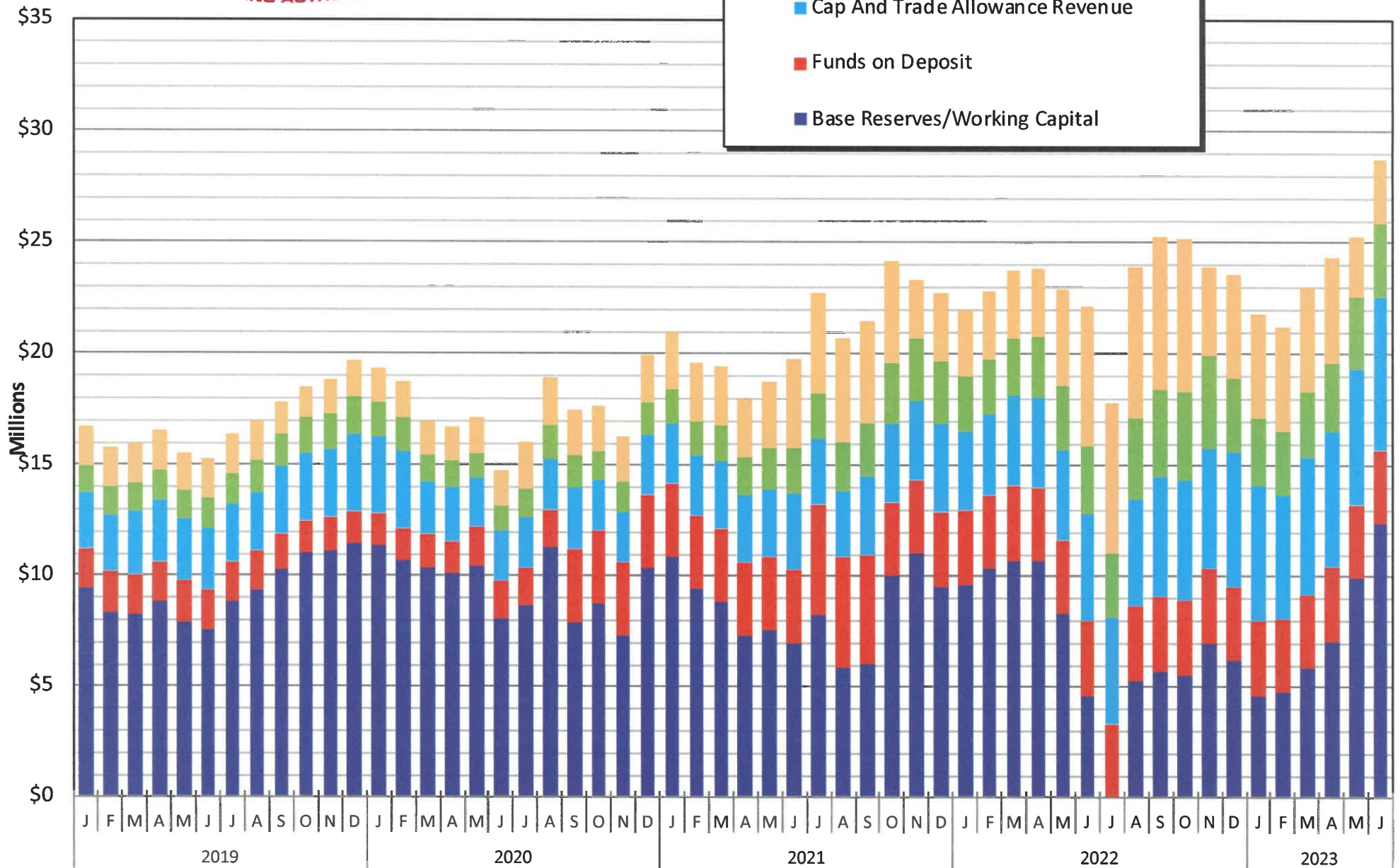
Year	March	June	September	December	Total
2012				\$ 216,935.00	\$ 216,935.00
2013	136,200.00			370,080.76	506,280.76
2014		379,500.00	184,000.00	192,511.00	756,011.00
2015	195,360.00	196,640.00	200,320.00	212,934.71	805,254.71
2016	212,158.18	89,530.09	249,317.05	296,303.48	847,308.80
2017	115,168.59	371,399.40	265,500.00	260,748.84	1,012,816.83
2018	262,980.00	263,700.00	258,408.50	264,250.60	1,049,339.10
2019	283,140.00		446,160.00	461,227.00	1,190,527.00
2020	321,660.00		500,400.00	415,783.87	1,237,843.87
2021	445,000.00	480,622.00	582,500.00	706,500.00	2,214,622.00
2022	583,000.00	827,304.45	675,000.00	670,000.00	2,755,304.45
2023	501,300.00	758,250.00			1,259,550.00
Total					\$13,851,793.52

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

SUMMARY TREASURER REPORT



- CAISO Collateral Deposit
- P3
- Cap And Trade Allowance Revenue
- Funds on Deposit
- Base Reserves/Working Capital

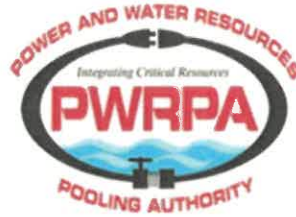


POWER & WATER RESOURCES POOLING AUTHORITY

WIRE TRANSFERS

June 1 - 30, 2023

Transaction Number	Beneficiary Name	Credit Amount	Value Date
180994	ACES Power Marketing	\$25,000.00	6/1/2023
180995	Pacific Gas and Electric	\$1,805.51	6/1/2023
181888	Cameron-Daniel, P.C.	\$37,435.60	6/7/2023
181889	Holland & Knight	\$849.24	6/7/2023
182963	Pacific Gas and Electric	\$83,929.98	6/8/2023
183327	Slate 1 (Canadian Solar)	\$64,522.41	6/12/2023
183328	Slate 1 (Canadian Solar)	\$64,048.25	6/12/2023
183329	Slate 1 (Canadian Solar)	\$21,338.55	6/12/2023
183330	WAPA O M	\$160,425.00	6/12/2023
183331	Western Area Power Administration	\$55,598.34	6/12/2023
184218	CAISO Market Clearing	\$1,131,787.55	6/20/2023
184611	Garlock Energy, LLC	\$3,783.91	6/22/2023
184612	APX Inc.	\$149.58	6/22/2023
184613	Northern California Power Agency	\$192,811.00	6/22/2023
184617	LAIF	\$2,000,000.00	6/22/2023
185015	CAISO Market Clearing	\$39,785.27	6/26/2023
185016	Western Area Power Administration	\$545,144.97	6/26/2023
185017	Astoria 2 Operating	\$196,723.50	6/26/2023
Total		4,625,138.66	



POWER AND WATER RESOURCES POOLING AUTHORITY

DISBURSEMENT LIST

July 2023

Check #	Vendor-name	Payment-description	Check-amount
3371	California Department of Tax and Fee	Electrical Energy Surcharge Return	\$ 21,420.00
3372	Advanced Data Storage	Document Storage - July 2023	44.50
3373	Arvin-Edison Water Storage District	Treasurer's Duties	7,901.80
3374	Braun Blaising & Wynne, P.C.	Legal Services - June 2023	554.34
3375	Michael McCarty Law Office PLLC	Consultant	3,000.00
3376	Robertson Bryan Inc.	Consultant	67,042.54
Sub-Total			<u>\$ 99,963.18</u>
Wire Transfers:			
Wire	Cameron-Daniel, P.C.	General Manager/General Council	\$ 37,083.63
Wire	Holland & Knight	FERC Wholesale Distribution Filing Legal Fees	1,975.68
Total			<u><u>\$ 139,022.49</u></u>

Power & Water Resources Pooling Authority

Regular Agenda • Item 5.B

1. Resolution 23-08-11 2023 Annual Reconciliation.

Power & Water Resources Pooling Authority
Resolution 23-08-11

**2022 ANNUAL RECONCILIATION STATEMENT
AND RELATED DOCUMENTATION AUTHORIZING THE COLLECTION OF THE TOTAL
REFUND BALANCES AND DISBURSEMENTS**

WHEREAS, Aggregation Services Agreement (“ASA”) Exhibit E Version 10, adopted by Resolution 23-06-05, describes the rate methodology and cost allocation principles associated with PWRPA’s provision of electric services to the Project Participants, and describes a process by which each Project Participant’s actual cost of service is annually reconciled with revenue collected from such Project Participant through pro forma rates (including any inter-period rate adjustment); and

WHEREAS, concurrently with the annual audit conducted as required in ASA Section 8.5, PWRPA has undertaken a study to determine actual costs and other amounts payable under the ASA, as determined with reference to the principles described in Exhibit E; and

WHEREAS, Resolution 06-11, as amended by Resolution 22-05-07, implements the Public Purpose Program, including guidelines specifying that, coincident with the annual reconciliation, a true-up of the P3 account shall be made; and

WHEREAS, pursuant to Resolution 14-04-04, the Board approved the Renewables Portfolio Standard Cost of Compliance Rule (“Rule”) whereby RPS Rates were established sufficient to meet the “Net Short” RPS Positions of Project Participants as defined by the Rule; and

WHEREAS, pursuant to Resolution 19-10-09, the Board of Directors: (a) determined that Zone 7 was qualified to receive aggregated electric services to Zone 7’s designated electric accounts under exactly the same terms and conditions as all other Project Participants; (b) approved the First Amended Aggregation Services Agreement and First Amended Cost Sharing Agreement with Zone 7; and (c) determined that the Ongoing Contribution Charge for all Zone 7 designated electric accounts was terminated effective October 1, 2019.

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

1. Finds that the methodology used in the document entitled “Final Monthly and Annual Reconciliation for Contract Year 2022,” appended hereto as Attachment A, reasonably reflects and implements the principles in Exhibit E of the Aggregation Services Agreement for the purpose of determining the 2022 Annual Reconciliation Statement (as defined below).
2. Finds that the figures and exhibits in the “Final Monthly and Annual Reconciliation for Contract Year 2022” reasonably represent: (a) the revenue collected from Project Participants in 2022 through pro forma rates; and (b) the Project Participants’ respective cost of service, as determined with reference to the principles described in Exhibit E of the Aggregation Services Agreement.
3. Finds that the figures shown in the document prepared by the Treasurer and entitled “2022 Annual Reconciliation Statement,” appended hereto as Attachment B, reasonably represent the Project Participants’ respective contribution to: (a) an Ending 2022 balance,

Power & Water Resources Pooling Authority
Resolution 23-08-11

which is reflected in column “l” of Attachment B; and (b) a 2022 P-3 Requirement, which is reflected in column “q” of Attachment B.

4. Subject to review by Counsel, authorizes and directs the Treasurer to, no later than October 2, 2023, disburse and/or retain in reserves as determined by each Project Participant, the amounts of the Project Participants’ respective share of: (a) the Available Refund balance, which is reflected in column “p” of Attachment B; and (b) the P-3 Available Refund balance, which is reflected in column “s” of Attachment B.
5. Establishes a 90-day review period ending on November 1, 2023, after which the 2022 Annual Reconciliation Statement shall be final.
6. Authorizes this Resolution to take effect immediately upon its adoption.

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 2nd day of August 2023, by the following vote on roll call:

AYES	Arvin-Edison WSD, Banta Carbona ID, Byron Bethany ID, Cawelo WD, Glenn-Colusa 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 (96.0% voting shares)
NOES	
ABSENT	James ID (4.0% voting shares)

David Weisenberger
Chairman

Attest by: Bruce McLaughlin
Secretary

ATTACHMENT A

2022 MONTHLY AND ANNUAL RECONCILIATION FOR CONTRACT YEAR 2022

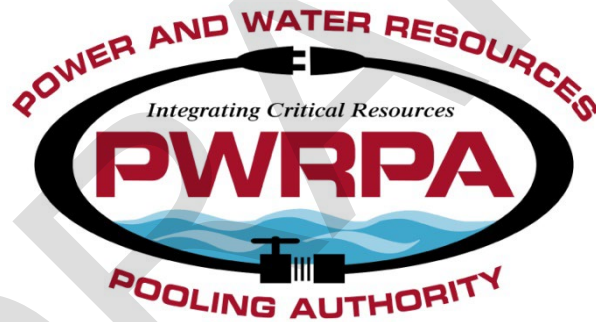
Final Monthly and Annual Reconciliation
For Contract Year 2022

Prepared For:

Power and Water Resources Pooling Authority

P.O. Box 299

Tracy, CA 95378-0299



Dated:

July 2023

TABLE OF CONTENTS

1.0	Executive Summary	1
2.0	Reconciliation Calculations.....	5
2.1	Overview	5
2.2	Monthly Metered Energy	5
2.3	Joint Power Authority (JPA) Management	6
2.4	Metering Cost Allocation	6
2.5	Aggregated Service Agreement (ASA) Cost Allocation.....	7
2.6	Distribution Cost Allocation	8
2.7	Transmission Cost Allocation	8
2.8	CAISO Grid Management.....	9
2.9	Load Costs.....	10
2.10	Specific Projects - Participant	10
2.11	Base Resource Cost Allocation.....	11
2.12	Specific Project - Generation	12
2.13	Supplemental Power Cost Allocation	14

LIST OF APPENDICES

Appendix A: Annual and Monthly Reconciliation Documents

Appendix B: 2022 Vendor Charges Summaries

Appendix C: ASA Exhibit E; Cost Allocation Principals

Appendix D: Summary of Allocation Shares

Appendix E: Detail of Adjustments included in Treasurer Final 2022 Statement

Appendix F: Supplemental - Other Charges Detail

Appendix G: Resource Summary

Appendix H: Resource Energy & Cost Valuation

Appendix I: Displacement Detail

Appendix J: DSGS Load Curtailment memo

1.0 EXECUTIVE SUMMARY

This report summarizes and transmits the 2022 cost of service reconciliation for the Power and Water Resource Pooling Authority (Authority).

The total Authority service cost for 2022 is \$76,977,497. The Authority invoiced \$80,007,600 to the Participant's on monthly power invoices to cover those costs in addition to special project funding such as P3 and Reserve balances. The monthly power invoices prepared for PWRPA Participants are calculated from pre-set rates for the purpose of revenue collection to PWRPA and do not account for the allocation of actual hourly vendor charges that are sometimes received several months after the fact. This reconciliation is the true-up of Participant's costs to the actual vendor invoices.

The Treasurer final statement determines final distribution or collection of funds after validation against his ledger and factoring in the interest earnings on 2022 Participant balances, reserves, P3 balances, direct consulting invoices, closed-year invoices, District invoice payments, and any other adjustments.

The Authority composite rate for 2022 calendar year is 16.21 ¢/kWh. The maximum Participant rate is 152.25 ¢/kWh for Princeton-Provident-Cordova-Glenn Irrigation District (historically low usage over which to spread fixed costs) and the minimum Participant rate is 11.37 ¢/kWh for West Stanislaus Irrigation District (lower delivery costs).

The summary of 2022's Cost of Service compared to 2021 Actual and the 2022 Budget is in Table 1 below.

Table 1: Summary of Cost of Service

Category	2021 Actual	2022 Budget	2022 Actual	Change over 2021	Change over Budget
Energy, MWh	490,505	424,821	474,778	-3.2%	11.8%
Overhead	\$ 2,346,853	\$ 2,268,607	\$ 2,115,889	-9.8%	-6.7%
Delivery	\$ 23,421,660	\$ 34,291,142	\$ 35,427,962	51.3%	3.3%
Power	\$ 28,597,786	\$ 28,080,938	\$ 39,433,646	37.9%	40.4%
Total	\$ 54,366,298	\$ 64,640,687	\$ 76,977,497	41.6%	19.1%
Cents per kWh	11.08	15.22	16.21	46.3%	6.6%

Total costs increased 42 percent while load was down 3 percent from the prior year. The Authority load increased 12 percent over the budget and that paired with low Base Resource supply and extreme market prices resulted in a 40 percent increase in power costs. The cost of service rate increased from 15.22 ¢/kWh in the budget to an actual rate of 16.21 ¢/kWh.

2022 was a critically dry year after a dry 2021, therefore costs were up from last year. Additionally, 2022 brought compounding extremes in weather, hydrology, tariff adjustments, governmental decisions, geopolitics, and long tail effects of the COVID pandemic. See the 2022 audit report, Management's Discussion and Analysis, for more detail, but the highlights are:

- Transmission and Distribution rates increased dramatically. CAISO transmission cost increases reflect the costs of additional transmission assets being included in the rate base. Distribution costs increased due to increased costs for wildfire hardening and impacts of the first full year of the formula rate invoicing basis from a stated rate in prior years. Because the formula rate includes an annual true-up, this year was especially dramatic because it corrected for a dry year collection being done on a wet year load allocation.
- California's 2022 water-year suffered extreme drought, the driest three-year period on record (drier than the previous of 2013-2015). This resulted in some Participants having zero percent water allocations two years in row. Additionally, the power generation from the Central Valley Project (CVP) was 54 percent of the current 10-year average.
- Energy Prices were historically high in 2022. This resulted from record heatwaves and supply and delivery constraints of natural gas. For example, average December prices are in the \$50 per MWh range and they averaged \$250 per MWh in 2022.

2022 is the second year of Compliance Period 4, a four-year Compliance Period for California's Renewable Portfolio Standard. There were no significant purchases of Renewable Energy Credits (RECs) in 2022 due to PWRPA's third solar project, Slate, coming online in March 2023 (delayed from the planned December 31, 2022 start date). Slate is a 26MW solar facility paired with 10 MW of Battery storage.

The Authority secured 207,188 MWh of resources for a distribution loss corrected (DLF) metered demand of 497,104 MWh. The difference between DLF Metered demand and PWRPA supplied resource is made whole by the California Independent System Operator (CAISO). The summary of resources and their changes from 2021 actual and the 2022 budget are summarized in Table 2 below.

Table 2: Summary of Energy use and Resources

PWRPA	2021 Actual	2022 Budget	2022 Actual	Change from 2021	Change from Budget
DLF Load	512,869	424,821	497,104	-3%	17%
Resource Portfolio	298,042	424,821	207,188	-30%	-51%
Base Resource	124,205	138,242	56,086	-55%	-59%
WWD BOR	4,113	3,904	5,001	22%	28%
Warm Springs	0	0	0	0%	0%
Solar	60,851	138,749	123,682	103%	-11%
Lodi Energy Center	46,031	42,393	22,419	-51%	-47%
Market	62,842	101,533	0	-100%	-100%

For 2022, only considering power delivered (no REC accounting), 37 percent of PWRPA's load was served by carbon-free resources. The detail of the portfolio is detailed below in Table 3:

Table 3: Power Portfolio Content

Power Supply:	2021	2022
Load, MWh	512,869	497,104
BR	25%	12%
Solar	12%	25%
LEC	9%	5%
Market	12%	0%
Total Supply	58%	42%

A general summary of resource performances:

- Base Resource (“BR”) energy decreased 55 percent from 2021 and was 59 percent lower than the 2022 budget. The annual BR rate is \$98.96 per MWh. BR covered 11 percent of the load whereas it covered 24 percent of the load in 2021.
- Warm Springs Dam did not operate in 2022 due to repairs needed by the Army Corps of Engineers on the low flow gate.
- Solar generators Astoria, Whitney Point and Slate performed as designed under their respective contract terms. Astoria had an annual capacity factor of 35 percent, Whitney Point 31 percent, and Slate 35 percent. Solar served 25 percent of the annual load.
- Lodi Energy Center energy was down 50 percent from 2021, the unit was out of commission from mid-Feb to mid-June of 2022 due to the planned major maintenance outage (happens on the 10-year mark). The unit served 5 percent of the annual load.
- Market resources include fixed contracts and day-ahead transactions with third-party vendors, none of which were made during 2022 due to the very high prices
- The total cost for all load and resources totaled \$39,433,646, for an average rate of \$132.31 per MWh, a 137 percent increase from 2021’s rate of \$55.76 per MWh. This is inclusive of all resource costs and attributes; Lodi debt service, resource adequacy costs, carbon costs, etc. The weighted average rate for load cost in 2022 was \$84.56 per MWh.

2022 also includes participation in the California Energy Commissions’ (CEC) Demand Side Grid Support (DSGS) program. The CEC paid participants to cut their load when the CAISO grid was in a state of emergency. Districts who participated were paid directly from the CEC (via PWRPA). However, the PWRPA Board did authorize a change to the load cost allocation via updates to Aggregation Service Agreement (ASA) Exhibit E under resolution 23-06-05. This allows cost allocation during CAISO/DSGS event hours to separate the day-ahead and real-time load costs to ensure the equitable allocation of load costs related to participation in this program.

Appended to this report are detailed results and support documents. The Appendices include one annual reconciliation summary and 12 monthly sets – all for calendar year 2022 (Appendix A), Vendor Charges summarized by cost category and by Vendor (Appendix B), ASA Exhibit E Cost Allocation Principals (Appendix C), Summary of Participant allocation shares (Appendix D), a summary of closed year invoice and miscellaneous adjustments (Appendix E), a summary of Resource Adequacy, Renewable Energy Credit, and Carbon transfer cost allocation (Appendix F), a summary of resource allocation and pooling (Appendix G), a valuation of generation resource projects (Appendix H), a summary of Displacement activity (Appendix I), and DSGS memo provided and approved by the Board (Appendix J).

2.0 RECONCILIATION CALCULATIONS

2.1 OVERVIEW

In this reconciliation, we refer to the “Cash Flow Reconciliation” as “CFR”, and the “Base Resource” as “BR” from this point forward. CFR consists of the allocation of specific monthly costs to each PWRPA Participant. There are eleven cost categories:

- Joint Power Authority Management (JPA)
- Metering
- Aggregate Service Agreement (ASA) Utility Management and Operations
- Distribution
- Transmission
- CAISO’s Grid Management
- Load Costs
- Specific Projects – Participant
- Base Resource
- Specific Projects
- Supplemental Power

In addition, the CFR displays the monthly-metered energy for each Participant, as well as the transactions between Participants for energy pooling. Base Resource is the only resource pooled in 2022.

The CFR tables show first the high-level summaries of each cost category, with the remaining tables providing additional detail. The detailed tables start with load costs followed by the energy resources and are ordered in sequence of their loading order to serve load. The Annual Summary page is the sum of the monthly pages plus any annual invoices. These details can be found in Appendix A.

2.2 MONTHLY METERED ENERGY

PWRPA classifies Participants’ meters as either energy meters or interval (demand) meters. Interval – or demand – meters provide an hourly reading that PWRPA reads every day by cellular telemetry. PWRPA receives Energy meters’ data once a month with no detail on hourly power level; the monthly reading is distributed hourly according to the estimated hourly load for the load class monitored. PWRPA only has about 5 out of over 600 meters that are energy meters.

Energy meters are secondary voltage level meters; interval meters can serve either a transmission, primary, or secondary voltage level. PWRPA acquires hourly meter data and stores it in the software database for each meter and each hour. For the purpose of reconciliation, each meter reading is corrected for distribution loss factors (DLF). Hourly DLF’s are acquired

automatically from PG&E and the correction applied to each meter according to its service voltage.

The CFR report shows both the DLF and non-DLF metered energy. The monthly metered energy displayed on the Operation Reconciliation Summary table is DLF adjusted as that is what energy resources are procured to cover. The monthly metered energy in the Summary of Costs as a Rate per Metered Energy table is non-DLF corrected energy. The CFR energy is the summation of all the hourly meter readings for all meters of a given Participant for the calendar month. The energy meter data follows the actual read dates and is spread/profiled hourly in proportion to the estimated hourly load used for scheduling.

2.3 JOINT POWER AUTHORITY (JPA) MANAGEMENT

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 and materials

The JPA cost to each Participant is allocated on a per capita basis. There are fourteen Districts in PWRPA, therefore these costs are split 1/14th.

2.4 METERING COST ALLOCATION

Metering costs include:

- RBI's task item of Metering
- Trimark and Associates Meter Data Management Agent (MDMA) costs
- Percentage of Energy Accounting System (EAS) software

The metering cost is allocated in proportion to a Participant's total number of active meters in the month. It is important to note that not all meters are active. The Authority software tracks all meters entered in the database, as well as their activation and deactivation dates. There are several reasons for a meter to be deactivated:

- Participant removed a metered load from PWRPA
- A meter was disconnected
- A meter was replaced, whether for repairs or upgrades reasons

- PWRPA replaced a PG&E meter
- A participant added or removed a meter

“Active meter” means a meter that is active during part or all of the reconciliation month. The number of active meters changes from month to month.

2.5 AGGREGATED SERVICE AGREEMENT (ASA) COST ALLOCATION

ASA costs are split into three categories but summed together in the reconciliation report for simplicity. The split by category is available in the Vendor Charges Appendix organized by Cost Category (Appendix C). The three categories, their functions, and cost allocation are:

ASA: Utility Management

This category includes items that we need to manage the electric utility. Functions include:

- Utility Management: Treasurer (80% of actual time), Power Budget, Planning/Staff Coordination, Cost Reconciliation, Insurance, etc.
- Utility Counsel: Compliance, Legislative/Regulatory, FERC
- 2022 included Special Project funding for PG&E’s Wholesale Distribution Tariff (WDT) case
- Cost allocation is by Voting Share (bicameral calculation of 50 percent per capita and 50 percent by five-year average energy)

ASA: Utility Operations – Fixed

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
- SAMBA basic system and its replacement mid-2020; Energy Accounting System (EAS)
- Regulatory Reporting
- Power Invoices and Operations Reports
- Cost allocation is by Voting Share (bicameral calculation of 50 percent per capita and 50 percent by five-year average energy)

ASA: Utility Operations – Variable

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
- Authority licensed software by MCG

- Cost allocation is based on energy

2.6 DISTRIBUTION COST ALLOCATION

Distribution costs consist of the PG&E Wholesale Distribution Tariff (WDT) and related administrative costs. Distribution costs are allocated to the Participants as a direct pass-through on a per meter basis. 2021 started a new rate case called WDT3 which fundamentally changed how Distribution costs are determined by going to an annual formula rate instead of a stated rate. The formula rate each year also includes an annual true-up component for two years prior. The formula rate is applied monthly to each meter's peak 30-minute reading. The rates are defined by which distribution agreement the particular meter falls under. There are currently two applicable distributions agreements with PG&E:

- SA17: WAPA WDT Exhibit C - Most meters fall under this Settlement Agreement, as it is the original agreement with PG&E when PWRPA began operation.
- SA56: PWRPA WDT is the agreement with PG&E in which new Participants and new load for existing Participants qualify for service.

PWRPA also has a negotiated a rate relief option called Primary Plus. Under this agreement, certain Secondary voltage accounts pay the lower Primary rate plus a flat monthly fee. That rate option took effect in August of 2014.

2.7 TRANSMISSION COST ALLOCATION

Transmission costs entail High and Low Voltage Transmission Access Charges (TAC) and report on a per-participant basis.

Participants' loads are served by High-Voltage (HV) or by Low-Voltage (LV) service, as determined by the distribution substation's high-side voltage. All the substations serving PWRPA loads and their service voltage levels are in the Energy Accounting System (EAS) database such that EAS can associate each meter with a voltage service.

- All metered loads which distribution line is served by an HV substation pay an HV TAC
- All metered loads which distribution line is served by an LV substation pay both an HV and an LV TAC
- CAISO assesses TAC charges on its monthly invoices
 - HV TAC charge is CAISO charge code 382
 - LV TAC charge is CAISO charge code 383

TAC rates can change mid-month and retroactively; therefore, the cost allocation for each charge code takes the total charge and splits it according to the applicable metered energy by Participant.

2.8 CAISO GRID MANAGEMENT

CAISO Costs are separated into two sub-categories:

- Special Cost Allocation
- Miscellaneous Costs

SPECIAL COST ALLOCATION

There are two items considered Special Charges:

- CAISO Operating Reserves
 - Charge codes 6294, 6296, 6194, 6196
 - Allocated to Participants by metered load minus firm imports (Base Resource)
- Integrated Forward Market Bid Cost Recovery (IFM uplift)
 - Charge code 6636
 - Allocated to Participants by metered load minus firm imports (Base Resource) and generation

MISCELLANEOUS COSTS

Miscellaneous costs include:

- Board of Equalization (BOE) energy surcharge costs
- National Energy Reliability Council (NERC) fee
- Western Electricity Coordinating Council (WECC) fee
- CAISO Grid Management (GMC)
 - charge codes 4512, 4515, 4516, 4560, 4561, 4562, 4575
- CAISO FERC fee
 - charge codes 550
- All other remaining charge codes on CAISO invoice not allocated in Special Charges
- Reversal of charge code 6799 for collateral collection

The costs are allocated in proportion to each Participant's metered energy:

The CAISO invoices are rerun multiple times for each service month, this reconciliation includes T+11m versions for January through March, T+70b versions for April through November, and T+9b for December. The rest of the T+70b and T+11m are received after the invoice cutoff date established with the auditors. Any invoices received after the cutoff date or are older (T+18M, T+35m, and T+36m) are considered 'closed year' invoices and are settled outside of the reconciliation in the Treasurer's year-end summary sheet. Any unscheduled invoices from the CAISO are also in this category.

2.9 LOAD COSTS

The CAISO cost to serve load is the net of the day-ahead transactions to meet PWRPA's scheduled load and the real-time imbalance to serve loss adjusted metered demand.

The scheduling coordinator submits a day-ahead load forecast to the CAISO and a summary of resources. All costs for the day-ahead schedule and the real-time imbalance are summed to a total load cost each hour. Those costs are then allocated pro rata on energy. Charges for load include energy, congestion, and loss costs. The CAISO charge codes that have load related charges are:

- 6011 Day-ahead Energy, Congestion, Loss Settlement
- 6700 Congestion Revenue Rights Daily Settlement
- 6947 Allocation of Integrated Forward Market Marginal Losses Surplus Credit
- 6475 Uninstructed Imbalance Energy Settlement
- 6774 Real Time Congestion Offset

PWRPA participated in the 2022 Demand Side Grid Support (DSGS) Program administered by the California Energy Commission (CEC) which provided financial incentives to reduce customer load during extreme events. These changes were reviewed by the Board Risk and Oversight Committee and approved by the Board at the June 2023 meeting, updating Exhibit E to the Aggregation Service Agreement, resolution 23-06-05. The program was open from August – October 31, but only had curtailment events from August 31 - September 9, 2022. Participants were Arvin-Edison Water Storage District, Santa Clara Valley Water District, Westlands Water District, and Zone 7 Water Agency. Combined they curtailed 296 MWhs. For the specific dates and hours included in this curtailment, the calculations noted above were replaced with separate calculations for day-ahead costs based on forecasted load (which does not regard curtailed energy) and real-time costs based on metered energy. This allows us to capture the cost reduction due to the curtailments and allocate them appropriately to the participating districts. The administration costs for PWRPA staff to set up and administer this program were fully refunded by the CEC also. See Appendix J for further details on this curtailment program.

2.10 SPECIFIC PROJECTS - PARTICIPANT

Starting in November 2010, PWRPA converted Warm Spring Hydropower (WSH) to a Specific Project, and in 2016 started Westlands Water District Bureau of Reclamation payback (WWD BOR). The energy from the projects is applied entirely to the project owner load before the allocation of Base Resource. In 2022 Warm Springs did not operate due to repairs, however they do maintain an ongoing overhead cost for Scheduling Coordination as they are not avoidable costs.

All revenue and expenses are allocated to the project owners. Those expenses include:

- Energy costs

- CAISO charge codes
 - 6011 Day-ahead energy, congestion loss
 - 6460 15 Minute Market Instructed Imbalance Energy Settlement
 - 6470 Real-time Instructed Imbalance Energy Settlement
 - 6475 Real-time Uninstructed Imbalance Energy Settlement
- PWRPA staff overhead associated with scheduling, settlements, and reporting

WSH energy is allocated to SCWA under a buy-back agreement with PWRPA:

- WSH generation is scheduled to the CAISO under the PWRPA scheduling coordinator ID, therefore the credit from the energy produced goes to PWRPA.
- SCWA bills PWRPA each month at an agreed-upon rate, times the WSH energy output.
- In the reconciliation, PWRPA charges back SCWA for the WSH energy billed, but SCWA load is offset by the WSH generation, resulting in a lesser initial net short position for SCWA.

WWD BOR energy is allocated to WWD and there is no cost for this energy.

The tracking of project energy allocation is used to calculate the initial net short or long of each Participant prior to pooling and allocating Base Resource energy. There is no pooling of these resources.

2.11 BASE RESOURCE COST ALLOCATION

All revenue and expenses are allocated to the project owners. Those expenses include:

- Western Area Power Administration (WAPA) Base Resource
- Central Valley Project (CVP) restoration
- Miscellaneous monthly adjustments from WAPA
- Western Renewable Energy Generation Information System (WREGIS) fees
- CVP Displacement Program
- CAISO charge codes
 - 6011 Day-ahead energy, congestion loss
 - 6301 Day-ahead Inter Scheduling Coordinator Trades Settlement
 - 6460 15 Minute Market Instructed Imbalance Energy Settlement
 - 6470 Real-time Instructed Imbalance Energy Settlement
- PWRPA staff overhead

The total actual Base Resource energy supplied by WAPA after exchange is divided into the total actual cost on an annual basis to determine a single annual rate: the rate is applied to the Base Resource allocated to the Participants each day. This approach avoids wide seasonal swings of Base Resource rates. All revenue from the CAISO is allocated to the Participants on Project shares.

After the allocation of Participant Specific Projects and Base Resource costs and energy, pooling of BR occurs on a daily basis.

The pool consists of the smaller quantity between the aggregation of all sequential net shorts and the aggregation of all sequential net longs. In order for pooling to occur on a given day, there must be simultaneously Participants that are long and Participants that are short. Long Participants are contributors, short Participants are takers. Contributors pool their net long energy in proportion to their relative net long (relative to other net long Participants). Takers receive energy from the pool in proportion to their relative net short position (relative to other net short Participants).

On the revenue and expense side of pooling, we use transfer rates to transfer the cost of the energy and the corresponding CAISO revenue. Transactions in the market are done hourly. Because pooling is done daily, we calculate daily weighted rates for these calculations.

The transfer rates are:

- Contract Cost uses a split-the-savings calculation:
 - Annual BR rate plus half the difference between the annual BR rate and the market index price.
 - Sets a floor at the annual BR rate, meaning that if the split-the-savings rate is lower than the annual BR rate on a given day, pooling transaction will use the annual BR rate.
- CAISO Revenue uses a split-the-revenue calculation:
 - BR revenue rate plus half the difference between the BR revenue rate and the market index price.
 - BR revenue rate is the CAISO revenue from importing and displacing BR energy divided by the total BR energy imported and displaced for the day.
 - The transfer rate for the revenue sets a floor of the weighted market revenue rate.
- Market Revenue rate is a daily weighted rate at the NP15 Trading Hub.

The CVP Corporation's Displacement Program aims to reduce and avoid costs associated with importing and exporting energy to and from the CAISO balancing area. PWRPA started participation in the program in February 2010 and its costs or credits are included in the Base Resource category. PWRPA allocates the invoiced dollars based on net use of Base Resource energy each month. The program stayed open April through October, shutting down for Winter when BR energy generation is typically low. A monthly detailed summary of Displacement activity is included in Appendix I.

2.12 SPECIFIC PROJECT - GENERATION

Generation projects and all associated costs include:

- Lodi Energy Center fixed and variable costs including gas purchases, Green House Gas allowance costs and debt service repayment
- Astoria solar
- Whitney Point solar
- Slate Solar and Battery
- CAISO energy revenue (transferred from generation owner)
- PWRPA staff overheads

The generation category consists of renewable and non-renewable, or conventional, generation projects. Renewable and conventional generation cost, revenues, and energy are allocated according to project specific entitlement percentages.

Renewable generation is the first allocation in the Generation category. This includes Astoria solar, Whitney Point solar, and Slate solar. Astoria and Whitney Point are scheduled and settled by the generation owner and therefore considered a financial transaction for PWRPA. All contract costs and associated revenues are transferred to PWRPA via the project invoices. In other words, these are not scheduled to PWRPA's load via the CAISO.

The Slate Solar and Battery Energy Storage Project started producing energy in December 2021 and is scheduled by PWRPA's scheduling agent, ACES power marketing. PWRPA signed the final revised PPA on December 18, 2020, and construction started January 4, 2021. Slate reached its Commercial Operations Date (COD) on March 10, 2022. The expected COD was December 31, 2021, and PWRPA was awarded \$414,000 in delay damages. Those costs are allocated to participants in the Prior Period Adjustment section of the Treasurer Statement (and detailed in Appendix E) and on a pro rata basis of the combined solar and battery subscription percentages (Appendix D).

PWRPA is one of multiple off-takers from the Slate Project and has a contract for 26 MW of Photovoltaic (PV) capacity and 10MW (40 MWh/day) of capacity from the Battery Energy Storage System (BESS). The BESS can run for four hours per day, and charges from PV during the lower-priced midday hours. In its first year, Slate produced over 62,000 MWhs and Renewable Energy Credits for PWRPA.

The Lodi Energy Center (LEC) is the resource in the Conventional generation category. Starting in 2019, the Authority changed the scheduling protocol to a financial hedge (like the renewable projects). The LEC generation is not scheduled to PWRPA's load to simplify all daily operations and settlements. All associated revenue and expenses are transferred to PWRPA via the monthly invoices. Lodi was on outage for a majority of 2022, it was on its 10-year major maintenance outage planned for March through May but delayed into June due to delay of parts and testing.

All generation resources performed well in 2022 in terms of the revenue for the energy delivered to the CAISO grid. The full value of each resource (actual revenue and avoided costs) is in Appendix H.

2.13 SUPPLEMENTAL POWER COST ALLOCATION

Supplemental power or market costs include:

- Fixed-rate forward purchase supplemental energy vendors contracts
- Day-Ahead supplemental energy from vendors
- Contract for Difference adjustments
- Capacity Contracts
- Renewable Energy Credits (RECs)
- Carbon attribute transfers
- CAISO energy revenue or related settlements

The following terminology is used to categorize supplemental energy:

- Fixed purchase: a power purchase at a fixed rate across all on- and/or off-peak hours of the month or partial month.
- Day-Ahead purchase and sale: a power purchase or sale in discrete amounts at any hour of the upcoming day on the Day-Ahead Market.
- Contracts for Differences: financial transactions without physical energy, based on Locational or market price differences. Contract for Differences are typically used as a financial settlement for failed energy trades.

Supplemental energy is allocated in the following order:

- Fixed purchase contracts cost and energy are allocated according to a month-specific and contract-specific percent-entitlement matrix.
- Fixed sale contracts cost and energy are allocated according to a month-specific and contract-specific percent-entitlement matrix.
- Day-Ahead Purchase costs and energy are allocated according to the Participants' sequential net short each month.
- Day-Ahead Sales credits and energy are allocated according to the Participants' sequential net long each month.

Resource Adequacy (RA) contracts are independent of supplemental power. PWRPA purchases its net short position determined by the CAISO after consideration of resources that have RA attributes (BR, LEC, Astoria, Slate, and WSH). The RA contract costs are allocated based on a matrix derived by month of each District's pro rata share of PWRPA's peak or local demand short position.

Any Renewable Portfolio Standard costs are also included in the Supplemental category.

PWRPA has Renewable Energy Credit (REC) value from existing generation resources; Astoria, Whitney Point, Slate, WSH, and other District specific projects. To fill the balance requirements, PWRPA procures short-term REC contracts, however PWRPA did not procure any supplemental RECs in 2022.

Finally, also included as an annual adjustment to the Supplemental Category for the carbon attribute transfer. This is facilitated within PWRPA between Participants. Participants who wish to buy the carbon-free attribute of Base Resource energy take it on a pro-rata share from Participants who are willing to sell. The transfer price is adopted by PWRPA's Board of Directors, the rate approved for 2021 was for both 2021 and 2022 transfers.

Details of all RA, REC, and Carbon cost allocation is detailed in Appendix F.

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APPENDIX A

ANNUAL AND MONTHLY RECONCILIATION DOCUMENTS

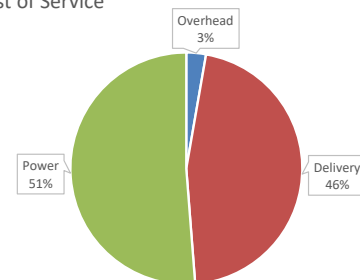
Power Water Resources Pooling Authority

January - December 2022

Operations Reconciliation Summary: January - December 2022														
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Power					Total Costs	
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt	Load Cost	District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental		
Arvin-Edison	122,278,553	\$ 5,916	\$ 67,461	\$ 247,641	\$ 4,059,905	\$ 4,163,450	\$ 206,675	\$ 9,672,399	\$ -	\$ (313,910)	\$ (83,071)	\$ 164,463	\$ 18,190,928	
Banta-Carbona	20,218,615	\$ 5,916	\$ 1,038	\$ 68,785	\$ -	\$ 688,274	\$ 64,908	\$ 1,676,182	\$ -	\$ (40,787)	\$ (29,708)	\$ (7,443)	\$ 2,427,164	
Cawelo	10,206,676	\$ 5,916	\$ 5,189	\$ 62,104	\$ 454,108	\$ 347,726	\$ 17,128	\$ 829,216	\$ -	\$ (17,847)	\$ (156,660)	\$ 1,374	\$ 1,548,253	
Glenn-Colusa	2,929,208	\$ 5,916	\$ 13,492	\$ 56,726	\$ 93,995	\$ 99,686	\$ 7,319	\$ 300,289	\$ -	\$ (37,600)	\$ 26,539	\$ 26,293	\$ 592,653	
James	5,118,713	\$ 5,916	\$ 2,076	\$ 42,770	\$ 117,869	\$ 174,299	\$ 6,649	\$ 386,664	\$ -	\$ (7,044)	\$ 33,039	\$ 524	\$ 762,762	
Lower Tule	7,250,622	\$ 5,916	\$ 1,038	\$ 53,765	\$ 312,548	\$ 246,944	\$ 7,500	\$ 620,054	\$ -	\$ (9,957)	\$ -	\$ 48,536	\$ 1,286,343	
Princeton	96,306	\$ 5,916	\$ 1,038	\$ 41,155	\$ 47,945	\$ 1,594	\$ 196	\$ 9,413	\$ -	\$ (6,048)	\$ 36,294	\$ 6,347	\$ 143,848	
RD108	1,838,837	\$ 5,916	\$ 3,114	\$ 44,139	\$ 134,852	\$ 62,630	\$ 2,971	\$ 164,627	\$ -	\$ (6,676)	\$ 12,391	\$ 1,740	\$ 425,703	
Santa Clara	21,778,737	\$ 5,916	\$ 9,341	\$ 79,826	\$ 720,279	\$ 503,932	\$ 35,277	\$ 1,910,398	\$ -	\$ (17,792)	\$ 9,926	\$ 211,395	\$ 3,468,497	
Sonoma	35,154,117	\$ 5,916	\$ 20,757	\$ 108,900	\$ 597,269	\$ 1,197,241	\$ 66,668	\$ 3,047,514	\$ 11,981	\$ (33,036)	\$ 46,815	\$ 210,954	\$ 5,280,979	
West Stan	20,673,971	\$ 5,916	\$ 1,038	\$ 65,947	\$ 467,535	\$ 341,512	\$ 59,774	\$ 1,483,008	\$ -	\$ (54,167)	\$ (68,352)	\$ 4,056	\$ 2,306,266	
Westlands	238,070,520	\$ 5,916	\$ 538,553	\$ 400,002	\$ 10,776,867	\$ 8,094,134	\$ 510,590	\$ 19,013,644	\$ (372,437)	\$ (545,781)	\$ 240,011	\$ (41,546)	\$ 38,619,952	
Westside	2,686,586	\$ 5,916	\$ 1,038	\$ 40,894	\$ 88,948	\$ 91,478	\$ 5,792	\$ 211,343	\$ -	\$ (21,142)	\$ 27,013	\$ (3,702)	\$ 447,577	
Zone 7	8,802,510	\$ 5,916	\$ 5,189	\$ 50,055	\$ 375,234	\$ 163,669	\$ 12,596	\$ 821,654	\$ -	\$ (3,915)	\$ (20,161)	\$ 66,331	\$ 1,476,569	
TOTAL	497,103,970	\$ 82,820	\$ 670,361	\$ 1,362,708	\$ 18,247,353	\$ 16,176,567	\$ 1,004,042	\$ 40,146,405	\$ (360,456)	\$ (1,115,700)	\$ 74,075	\$ 689,321	\$ 76,977,497	
Percent of total cost		0.11%	0.87%	1.77%	23.70%	21.01%	1.30%	52.15%	-0.47%	-1.45%	0.10%	0.90%	100.00%	

Summary of Costs as a Rate per Metered Energy (Cents per kWh)									
Participant	Metered Energy (kWh)	Cents per kWh							
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate	
Arvin-Edison	117,771,840	\$ 0.27	\$ 3.45	\$ 3.54	\$ 0.18	\$ 8.21	\$ (0.20)	\$ 15.45	
Banta-Carbona	20,218,615	\$ 0.37	\$ -	\$ 3.40	\$ 0.32	\$ 8.29	\$ (0.39)	\$ 12.00	
Cawelo	9,975,987	\$ 0.73	\$ 4.55	\$ 3.49	\$ 0.17	\$ 8.31	\$ (1.74)	\$ 15.52	
Glenn-Colusa	2,901,236	\$ 2.62	\$ 3.24	\$ 3.44	\$ 0.25	\$ 10.35	\$ 0.52	\$ 20.43	
James	5,020,842	\$ 1.01	\$ 2.35	\$ 3.47	\$ 0.13	\$ 7.70	\$ 0.53	\$ 15.19	
Lower Tule	6,775,462	\$ 0.90	\$ 4.61	\$ 3.64	\$ 0.11	\$ 9.15	\$ 0.57	\$ 18.99	
Princeton	94,481	\$ 50.92	\$ 50.75	\$ 1.69	\$ 0.21	\$ 9.96	\$ 38.73	\$ 152.25	
RD108	1,779,121	\$ 2.99	\$ 7.58	\$ 3.52	\$ 0.17	\$ 9.25	\$ 0.42	\$ 23.93	
Santa Clara	21,314,566	\$ 0.45	\$ 3.38	\$ 2.36	\$ 0.17	\$ 8.96	\$ 0.95	\$ 16.27	
Sonoma	34,678,888	\$ 0.39	\$ 1.72	\$ 3.45	\$ 0.19	\$ 8.79	\$ 0.68	\$ 15.23	
West Stan	20,291,277	\$ 0.36	\$ 2.30	\$ 1.68	\$ 0.29	\$ 7.31	\$ (0.58)	\$ 11.37	
Westlands	222,688,266	\$ 0.42	\$ 4.84	\$ 3.63	\$ 0.23	\$ 8.54	\$ (0.32)	\$ 17.34	
Westside	2,634,241	\$ 1.82	\$ 3.38	\$ 3.47	\$ 0.22	\$ 8.02	\$ 0.08	\$ 16.99	
Zone 7	8,633,638	\$ 0.71	\$ 4.35	\$ 1.90	\$ 0.15	\$ 9.52	\$ 0.49	\$ 17.10	
PWRPA	474,778,459	\$ 0.45	\$ 3.84	\$ 3.41	\$ 0.21	\$ 8.46	\$ (0.15)	\$ 16.21	

Cost of Service

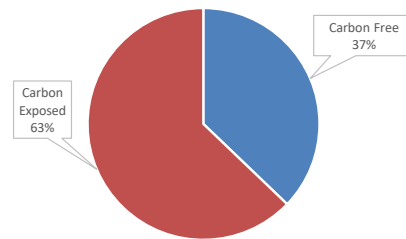


Summary of Energy Portfolio								
Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	122,278,553	16,205,107	42,951,383	5,303,994	-	64,460,485	57,818,068	48%
Banta-Carbona	20,218,615	2,025,947	4,909,422	1,994,717	-	8,930,086	11,288,528	34%
Cawelo	10,206,676	944,407	11,880,447	1,678,794	-	14,503,648	(4,296,973)	126%
Glenn-Colusa	2,929,208	1,676,524	3,587,787	1,125,638	-	6,389,948	(3,460,741)	180%
James	5,118,713	380,148	1,118,419	890,063	-	2,388,630	2,730,083	29%
Lower Tule	7,250,622	496,447	-	-	-	496,447	6,754,175	7%
Princeton	96,306	83,010	1,218,119	939,765	-	2,240,895	(2,144,589)	1351%
RD108	1,838,837	327,552	1,415,730	499,307	-	2,242,589	(403,752)	95%
Santa Clara	21,778,737	915,942	6,900,090	1,434,678	-	9,250,709	12,528,028	36%
Sonoma	35,154,117	1,688,248	13,274,096	-	-	14,962,344	20,191,773	43%
West Stan	20,673,971	2,858,574	4,837,744	1,121,916	-	8,818,235	11,855,737	37%
Westlands	238,070,520	32,311,915	28,660,805	6,489,602	-	67,462,321	170,608,198	26%
Westside	2,686,586	1,014,940	725,662	940,124	-	2,680,726	5,860	65%
Zone 7	8,802,510	158,238	2,202,778	-	-	2,361,017	6,441,493	27%
PWRPA	497,103,970	61,087,000	123,682,482	22,418,600	-	207,188,082	289,915,888	37%

Percent of DLF Adjusted Energy:

12% 25% 5% 0% 42%

Portfolio Content



January - December 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	117,771,840	122,278,553	3.8%	39,281	\$ 9,672,399	\$ 79.10
Banta-Carbona	20,218,615	20,218,615	0.0%	4,954	\$ 1,676,182	\$ 82.90
Cawelo	9,975,987	10,206,676	2.3%	3,813	\$ 829,216	\$ 81.24
Glenn-Colusa	2,901,236	2,929,208	1.0%	1,103	\$ 300,289	\$ 102.52
James	5,020,842	5,118,713	1.9%	1,262	\$ 386,664	\$ 75.54
Lower Tule	6,775,462	7,250,622	7.0%	2,603	\$ 620,054	\$ 85.52
Princeton	94,481	96,306	1.9%	218	\$ 9,413	\$ 97.74
RD108	1,779,121	1,838,837	3.4%	790	\$ 164,627	\$ 89.53
Santa Clara	21,314,566	21,778,737	2.2%	5,431	\$ 1,910,398	\$ 87.72
Sonoma	34,678,888	35,154,117	1.4%	9,226	\$ 3,047,514	\$ 86.69
West Stan	20,291,277	20,673,971	1.9%	6,244	\$ 1,483,008	\$ 71.73
Westlands	222,688,266	238,070,520	6.9%	65,220	\$ 19,013,644	\$ 79.87
Westside	2,634,241	2,686,586	2.0%	1,038	\$ 211,343	\$ 78.67
Zone 7	8,633,638	8,802,510	2.0%	2,173	\$ 821,654	\$ 93.34
PWRPA	474,778,459	497,103,970	4.7%	134,205	\$ 40,146,405	\$ 80.76

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 11,981	\$ 11,981	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	5,001,000	\$ -	\$ (390,497)	\$ 18,060	\$ (372,437)	\$ 3.61	\$ (78.08)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	5,001,000	\$ -	\$ (390,497)	\$ 30,041	\$ (360,456)	\$ 6.01	\$ (78.08)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	10,742,069	\$ (1,254,791)	5,516,558	\$ (626,287)	\$ (67,694)	(53,520)	\$ (16,547)	\$ 26,587	\$ 1,608,914	\$ 15,908	16,205,107	\$ (313,910)	\$ 99.24	\$ (118.62)
Banta-Carbona	1,324,852	\$ (154,757)	680,374	\$ (77,242)	\$ (8,360)	20,721	\$ 3,289	\$ (4,111)	\$ 198,432	\$ 1,962	2,025,947	\$ (40,787)	\$ 100.54	\$ (120.67)
Cawelo	636,234	\$ (74,319)	326,736	\$ (37,094)	\$ (4,025)	(18,564)	\$ (3,168)	\$ 4,523	\$ 95,293	\$ 942	944,407	\$ (17,847)	\$ 98.55	\$ (117.44)
Glenn-Colusa	1,197,025	\$ (139,826)	614,729	\$ (69,789)	\$ (6,847)	(135,230)	\$ (13,254)	\$ 11,056	\$ 179,287	\$ 1,773	1,676,524	\$ (37,600)	\$ 100.09	\$ (122.52)
James	253,465	\$ (29,608)	130,166	\$ (14,778)	\$ (1,609)	(3,483)	\$ (878)	\$ 1,489	\$ 37,963	\$ 375	380,148	\$ (7,044)	\$ 98.54	\$ (117.07)
Lower Tule	327,280	\$ (38,230)	168,074	\$ (19,081)	\$ (1,996)	1,093	\$ 288	\$ (442)	\$ 49,019	\$ 485	496,447	\$ (9,957)	\$ 100.30	\$ (120.35)
Princeton	268,534	\$ (31,368)	137,905	\$ (15,656)	\$ (270)	(323,428)	\$ (35,683)	\$ 36,311	\$ 40,220	\$ 398	83,010	\$ (6,048)	\$ 59.45	\$ (132.31)
RD108	214,522	\$ (25,058)	110,167	\$ (12,507)	\$ (1,348)	2,863	\$ 488	\$ (697)	\$ 32,130	\$ 318	327,552	\$ (6,676)	\$ 100.55	\$ (120.93)
Santa Clara	540,988	\$ (63,193)	277,823	\$ (31,541)	\$ (3,463)	97,131	\$ 12,431	\$ (13,854)	\$ 81,027	\$ 801	915,942	\$ (17,792)	\$ 102.91	\$ (122.33)
Sonoma	989,325	\$ (115,564)	508,065	\$ (57,680)	\$ (6,318)	190,858	\$ 24,751	\$ (27,868)	\$ 148,178	\$ 1,465	1,688,248	\$ (33,036)	\$ 103.30	\$ (122.87)
West Stan	1,861,971	\$ (217,498)	956,210	\$ (108,557)	\$ (11,715)	40,394	\$ 3,444	\$ (1,478)	\$ 278,880	\$ 2,757	2,858,574	\$ (54,167)	\$ 99.73	\$ (118.68)
Westlands	17,903,500	\$ (2,091,324)	9,194,290	\$ (1,043,815)	\$ (113,050)	213,126	\$ 27,990	\$ (33,626)	\$ 2,681,531	\$ 26,513	27,310,915	\$ (545,781)	\$ 100.18	\$ (120.16)
Westside	716,158	\$ (83,655)	367,781	\$ (41,754)	\$ (4,487)	(68,999)	\$ (8,618)	\$ 9,047	\$ 107,264	\$ 1,061	1,014,940	\$ (21,142)	\$ 98.24	\$ (119.07)
Zone 7	80,077	\$ (9,354)	41,123	\$ (4,669)	\$ (536)	37,039	\$ 5,467	\$ (6,935)	\$ 11,994	\$ 119	158,238	\$ (3,915)	\$ 111.09	\$ (135.83)
PWRPA	37,056,000	\$ (4,328,544)	19,030,000	\$ (2,160,449)	\$ (231,716)	-	\$ -	\$ (0)	\$ 5,550,133	\$ 54,876	56,086,000	\$ (1,115,700)	\$ 99.94	\$ (119.83)

January - December 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	11,873,001	\$ 748,179	\$ (653,176)	\$ 6,802	\$ 101,805	\$ 63.59	\$ (55.01)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	1,854,673	\$ 116,872	\$ (102,032)	\$ 1,063	\$ 15,903	\$ 63.59	\$ (55.01)
Glenn-Colusa	981,212	\$ 61,831	\$ (53,980)	\$ 562	\$ 8,413	\$ 63.59	\$ (55.01)
James	249,560	\$ 15,726	\$ (13,729)	\$ 143	\$ 2,140	\$ 63.59	\$ (55.01)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	349,261	\$ 22,009	\$ (19,214)	\$ 200	\$ 2,995	\$ 63.59	\$ (55.01)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	1,241,299	\$ 78,221	\$ (68,288)	\$ 711	\$ 10,643	\$ 63.59	\$ (55.01)
Sonoma	3,243,355	\$ 204,380	\$ (178,429)	\$ 1,858	\$ 27,810	\$ 63.59	\$ (55.01)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	10,705,394	\$ 674,602	\$ (588,942)	\$ 6,133	\$ 91,793	\$ 63.59	\$ (55.01)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	465,061	\$ 29,306	\$ (25,585)	\$ 266	\$ 3,988	\$ 63.59	\$ (55.01)
PWRPA	30,962,816	\$ 1,951,126	\$ (1,703,375)	\$ 17,739	\$ 265,491	\$ 63.59	\$ (55.01)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	9,559,411	\$ 576,091	\$ (487,197)	\$ 9,250	\$ 98,144	\$ 61.23	\$ (50.97)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	819,301	\$ 49,375	\$ (41,756)	\$ 793	\$ 8,412	\$ 61.23	\$ (50.97)
James	273,100	\$ 16,458	\$ (13,919)	\$ 264	\$ 2,804	\$ 61.23	\$ (50.97)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	273,100	\$ 16,458	\$ (13,919)	\$ 264	\$ 2,804	\$ 61.23	\$ (50.97)
RD108	682,901	\$ 41,154	\$ (34,804)	\$ 661	\$ 7,011	\$ 61.23	\$ (50.97)
Santa Clara	2,048,402	\$ 123,445	\$ (104,397)	\$ 1,982	\$ 21,030	\$ 61.23	\$ (50.97)
Sonoma	7,647,709	\$ 460,883	\$ (389,767)	\$ 7,400	\$ 78,517	\$ 61.23	\$ (50.97)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	8,193,909	\$ 493,800	\$ (417,604)	\$ 7,929	\$ 84,124	\$ 61.23	\$ (50.97)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	546,201	\$ 32,916	\$ (27,837)	\$ 529	\$ 5,608	\$ 61.23	\$ (50.97)
PWRPA	30,044,034	\$ 1,810,581	\$ (1,531,199)	\$ 29,071	\$ 308,453	\$ 61.23	\$ (50.97)

Specific Projects: Slate											
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	21,447,293	\$ 555,895	\$ (1,116,392)	\$ 24,887	71,679	\$ 54,813	\$ (65,499)	\$ 7,189	\$ (539,106)	\$ 29.87	\$ (54.92)
Banta-Carbona	4,766,065	\$ 123,532	\$ (248,087)	\$ 5,530	143,357	\$ 109,627	\$ (130,998)	\$ 14,379	\$ (126,016)	\$ 51.55	\$ (77.22)
Cawelo	9,889,585	\$ 256,329	\$ (514,781)	\$ 11,476	136,189	\$ 104,145	\$ (124,448)	\$ 13,660	\$ (253,618)	\$ 38.46	\$ (63.76)
Glenn-Colusa	1,787,274	\$ 46,325	\$ (93,033)	\$ 2,074	-	\$ -	\$ -	\$ -	\$ (44,634)	\$ 27.08	\$ (52.05)
James	595,758	\$ 15,442	\$ (31,011)	\$ 691	-	\$ -	\$ -	\$ -	\$ (14,878)	\$ 27.08	\$ (52.05)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	595,758	\$ 15,442	\$ (31,011)	\$ 691	-	\$ -	\$ -	\$ -	\$ (14,878)	\$ 27.08	\$ (52.05)
RD108	714,910	\$ 18,530	\$ (37,213)	\$ 830	17,920	\$ 13,703	\$ (16,375)	\$ 1,797	\$ (18,728)	\$ 47.57	\$ (73.12)
Santa Clara	3,574,549	\$ 92,649	\$ (186,065)	\$ 4,148	35,839	\$ 27,407	\$ (32,749)	\$ 3,595	\$ (91,016)	\$ 35.40	\$ (60.61)
Sonoma	2,383,033	\$ 61,766	\$ (124,044)	\$ 2,765	-	\$ -	\$ -	\$ -	\$ (59,512)	\$ 27.08	\$ (52.05)
West Stan	4,766,065	\$ 123,532	\$ (248,087)	\$ 5,530	71,679	\$ 54,813	\$ (65,499)	\$ 7,189	\$ (122,520)	\$ 39.49	\$ (64.82)
Westlands	9,532,130	\$ 247,064	\$ (496,174)	\$ 11,061	229,372	\$ 175,403	\$ (209,596)	\$ 23,006	\$ (249,236)	\$ 46.77	\$ (72.30)
Westside	714,910	\$ 18,530	\$ (37,213)	\$ 830	10,752	\$ 8,222	\$ (9,825)	\$ 1,078	\$ (18,378)	\$ 39.49	\$ (64.82)
Zone 7	1,191,516	\$ 30,883	\$ (62,022)	\$ 1,383	-	\$ -	\$ -	\$ -	\$ (29,756)	\$ 27.08	\$ (52.05)
PWRPA	61,958,846	\$ 1,605,919	\$ (3,225,132)	\$ 71,895	716,787	\$ 548,134	\$ (654,989)	\$ 71,895	\$ (1,582,278)	\$ 36.66	\$ (61.91)

January - December 2022

Specific Projects: Lodi Energy Center								
Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	5,303,994	\$ 188,386	\$ 832,310	\$ (770,844)	\$ 6,235	\$ 256,086	\$ 193.61	\$ (145.33)
Banta-Carbona	1,994,717	\$ 70,848	\$ 313,014	\$ (289,898)	\$ 2,345	\$ 96,308	\$ 193.61	\$ (145.33)
Cawelo	1,678,794	\$ 59,627	\$ 263,439	\$ (243,984)	\$ 1,973	\$ 81,055	\$ 193.61	\$ (145.33)
Glenn-Colusa	1,125,638	\$ 39,980	\$ 176,637	\$ (163,592)	\$ 1,323	\$ 54,348	\$ 193.61	\$ (145.33)
James	890,063	\$ 31,613	\$ 139,670	\$ (129,355)	\$ 1,046	\$ 42,974	\$ 193.61	\$ (145.33)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	939,765	\$ 33,378	\$ 147,469	\$ (136,579)	\$ 1,105	\$ 45,374	\$ 193.61	\$ (145.33)
RD108	499,307	\$ 17,734	\$ 78,352	\$ (72,566)	\$ 587	\$ 24,107	\$ 193.61	\$ (145.33)
Santa Clara	1,434,678	\$ 50,957	\$ 225,132	\$ (208,506)	\$ 1,687	\$ 69,269	\$ 193.61	\$ (145.33)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	1,121,916	\$ 39,848	\$ 176,053	\$ (163,051)	\$ 1,319	\$ 54,168	\$ 193.61	\$ (145.33)
Westlands	6,489,602	\$ 230,496	\$ 1,018,357	\$ (943,152)	\$ 7,629	\$ 313,329	\$ 193.61	\$ (145.33)
Westside	940,124	\$ 33,391	\$ 147,525	\$ (136,631)	\$ 1,105	\$ 45,391	\$ 193.61	\$ (145.33)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	22,418,600	\$ 796,259	\$ 3,517,956	\$ (3,258,159)	\$ 26,354	\$ 1,082,410	\$ 193.61	\$ (145.33)

Supplemental: Fixed Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc					
Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 44,013	\$ 21,381	\$ 43,373	\$ 67,782	\$ 30,126
Banta-Carbona	\$ 7,472	\$ 3,786	\$ 7,557	\$ 11,246	\$ 34,848
Cawelo	\$ 4,567	\$ 1,810	\$ 3,614	\$ 5,654	\$ 1,484
Glenn-Colusa	\$ 639	\$ 455	\$ 1,356	\$ 1,674	\$ 3,194
James	\$ 1,893	\$ 972	\$ 1,811	\$ 2,838	\$ (865)
Lower Tule	\$ 2,797	\$ 1,565	\$ 3,036	\$ 4,075	\$ (3,973)
Princeton	\$ 3	\$ 6	\$ 45	\$ 55	\$ 87
RD108	\$ 579	\$ 358	\$ 764	\$ 1,042	\$ 227
Santa Clara	\$ 8,660	\$ 5,012	\$ 9,330	\$ 12,328	\$ (53)
Sonoma	\$ 12,724	\$ 8,166	\$ 15,105	\$ 19,858	\$ 10,815
West Stan	\$ 7,189	\$ 3,413	\$ 7,008	\$ 11,336	\$ 30,827
Westlands	\$ 87,943	\$ 40,499	\$ 85,115	\$ 132,152	\$ 164,881
Westside	\$ 793	\$ 318	\$ 910	\$ 1,486	\$ 2,286
Zone 7	\$ 3,683	\$ 2,206	\$ 3,966	\$ 5,006	\$ (2,265)
PWRPA	\$ 182,954	\$ 89,948	\$ 182,991	\$ 276,531	\$ 271,619

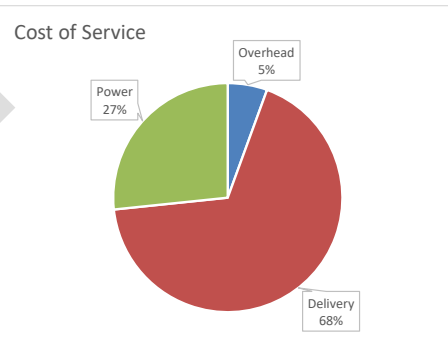
Supplemental: Other				
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ 223,923	\$ (59,460)	\$ 164,463
Banta-Carbona	\$ -	\$ -	\$ (7,443)	\$ (7,443)
Cawelo	\$ -	\$ 4,834	\$ (3,460)	\$ 1,374
Glenn-Colusa	\$ -	\$ 32,401	\$ (6,108)	\$ 26,293
James	\$ -	\$ 1,919	\$ (1,394)	\$ 524
Lower Tule	\$ -	\$ 50,358	\$ (1,822)	\$ 48,536
Princeton	\$ -	\$ 6,543	\$ (196)	\$ 6,347
RD108	\$ -	\$ 2,943	\$ (1,203)	\$ 1,740
Santa Clara	\$ 86,921	\$ 53,817	\$ 70,657	\$ 211,395
Sonoma	\$ -	\$ 101,044	\$ 109,910	\$ 210,954
West Stan	\$ -	\$ 14,562	\$ (10,505)	\$ 4,056
Westlands	\$ -	\$ 78,801	\$ (120,348)	\$ (41,546)
Westside	\$ -	\$ -	\$ (3,702)	\$ (3,702)
Zone 7	\$ -	\$ 31,256	\$ 35,075	\$ 66,331
PWRPA	\$ 86,921	\$ 602,400	\$ -	\$ 689,321

Power Water Resources Pooling Authority

January 2022

Operations Reconciliation Summary: January 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Power					Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt	Load Cost	District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	1,731,452	\$ 467	\$ 5,645	\$ 17,954	\$ 323,784	\$ 58,975	\$ 5,316	\$ 87,255	\$ -	\$ 1,280	\$ 56,134	\$ -	\$ 556,809
Banta-Carbona	199,741	\$ 467	\$ 87	\$ 4,588	\$ -	\$ 6,803	\$ 613	\$ 9,853	\$ -	\$ 195	\$ 8,513	\$ -	\$ 31,119
Cawelo	19,155	\$ 467	\$ 434	\$ 4,324	\$ 55,258	\$ 652	\$ 58	\$ 1,016	\$ -	\$ 94	\$ 9,920	\$ -	\$ 72,222
Glenn-Colusa	97,464	\$ 467	\$ 1,129	\$ 4,332	\$ 13,025	\$ 3,318	\$ 295	\$ 5,240	\$ -	\$ 293	\$ 8,086	\$ -	\$ 36,186
James	116,070	\$ 467	\$ 174	\$ 3,099	\$ 8,789	\$ 3,953	\$ 357	\$ 5,746	\$ -	\$ 30	\$ 5,086	\$ -	\$ 27,701
Lower Tule	492,853	\$ 467	\$ 87	\$ 4,176	\$ 26,168	\$ 16,787	\$ 1,512	\$ 25,421	\$ -	\$ 330	\$ -	\$ -	\$ 74,947
Princeton	6,025	\$ 467	\$ 87	\$ 2,972	\$ 10,986	\$ 100	\$ 18	\$ 322	\$ -	\$ 32	\$ 5,512	\$ -	\$ 20,495
RD108	55,694	\$ 467	\$ 261	\$ 3,228	\$ 16,627	\$ 1,897	\$ 171	\$ 2,900	\$ -	\$ 45	\$ 3,054	\$ -	\$ 28,649
Santa Clara	1,431,593	\$ 467	\$ 782	\$ 6,740	\$ 58,020	\$ 32,029	\$ 4,389	\$ 76,941	\$ -	\$ 1,093	\$ 11,090	\$ 4,971	\$ 196,521
Sonoma	2,248,324	\$ 467	\$ 1,737	\$ 9,474	\$ 49,737	\$ 76,581	\$ 6,882	\$ 120,143	\$ 1,008	\$ 2,261	\$ 14,326	\$ -	\$ 282,614
West Stan	470,376	\$ 467	\$ 87	\$ 4,717	\$ 47,240	\$ 7,784	\$ 1,424	\$ 26,744	\$ -	\$ 1,334	\$ 4,655	\$ -	\$ 94,452
Westlands	4,859,152	\$ 467	\$ 44,467	\$ 38,293	\$ 1,024,231	\$ 165,509	\$ 14,946	\$ 243,089	\$ (1,553)	\$ 1,756	\$ 58,409	\$ -	\$ 1,589,614
Westside	17,015	\$ 467	\$ 87	\$ 2,909	\$ 7,306	\$ 580	\$ 51	\$ 906	\$ -	\$ 92	\$ 4,494	\$ -	\$ 16,891
Zone 7	304,169	\$ 467	\$ 434	\$ 3,721	\$ 40,094	\$ 5,691	\$ 933	\$ 16,016	\$ -	\$ 203	\$ 1,357	\$ -	\$ 68,915
TOTAL	12,049,084	\$ 6,534	\$ 55,496	\$ 110,526	\$ 1,681,264	\$ 380,660	\$ 36,965	\$ 621,592	\$ (544)	\$ 9,035	\$ 190,634	\$ 4,971	\$ 3,097,134
Percent of total cost		0.21%	1.79%	3.57%	54.28%	12.29%	1.19%	20.07%	-0.02%	0.29%	6.16%	0.16%	100.00%

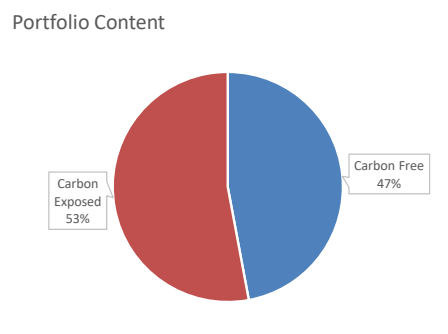
Summary of Costs as a Rate per Metered Energy (Cents per kWh)										
Participant	Metered Energy (kWh)	Cents per kWh								
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate		
Arvin-Edison	1,689,069	\$ 1.42	\$ 19.17	\$ 3.49	\$ 0.31	\$ 5.17	\$ 3.40	\$ 32.97		
Banta-Carbona	199,741	\$ 2.57	\$ -	\$ 3.41	\$ 0.31	\$ 4.93	\$ 4.36	\$ 15.58		
Cawelo	18,766	\$ 27.84	\$ 294.45	\$ 3.48	\$ 0.31	\$ 5.41	\$ 53.36	\$ 384.85		
Glenn-Colusa	93,728	\$ 6.32	\$ 13.90	\$ 3.54	\$ 0.31	\$ 5.59	\$ 8.94	\$ 38.61		
James	114,007	\$ 3.28	\$ 7.71	\$ 3.47	\$ 0.31	\$ 5.04	\$ 4.49	\$ 24.30		
Lower Tule	461,914	\$ 1.02	\$ 5.67	\$ 3.63	\$ 0.33	\$ 5.50	\$ 0.07	\$ 16.23		
Princeton	5,920	\$ 59.56	\$ 185.58	\$ 1.68	\$ 0.31	\$ 5.43	\$ 93.65	\$ 346.21		
RD108	53,396	\$ 7.41	\$ 31.14	\$ 3.55	\$ 0.32	\$ 5.43	\$ 5.80	\$ 53.65		
Santa Clara	1,404,142	\$ 0.57	\$ 4.13	\$ 2.28	\$ 0.31	\$ 5.48	\$ 1.22	\$ 14.00		
Sonoma	2,220,069	\$ 0.53	\$ 2.24	\$ 3.45	\$ 0.31	\$ 5.41	\$ 0.79	\$ 12.73		
West Stan	461,793	\$ 1.14	\$ 10.23	\$ 1.69	\$ 0.31	\$ 5.79	\$ 1.30	\$ 20.45		
Westlands	4,553,578	\$ 1.83	\$ 22.49	\$ 3.63	\$ 0.33	\$ 5.34	\$ 1.29	\$ 34.91		
Westside	16,712	\$ 20.72	\$ 43.71	\$ 3.47	\$ 0.31	\$ 5.42	\$ 27.44	\$ 101.07		
Zone 7	298,738	\$ 1.55	\$ 13.42	\$ 1.91	\$ 0.31	\$ 5.36	\$ 0.52	\$ 23.07		
PWRPA	11,591,574	\$ 1.49	\$ 14.50	\$ 3.28	\$ 0.32	\$ 5.36	\$ 1.76	\$ 26.72		



Summary of Energy Portfolio								
Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	1,731,452	40,032	1,831,616	351,574	-	2,223,221	(491,769)	108%
Banta-Carbona	199,741	5,756	157,241	132,219	-	295,216	(95,475)	82%
Cawelo	19,155	3,248	425,114	111,278	-	539,640	(520,484)	2236%
Glenn-Colusa	97,464	11,156	153,363	74,613	-	239,132	(141,668)	169%
James	116,070	585	46,990	58,998	-	106,573	9,497	41%
Lower Tule	492,853	14,148	-	-	-	14,148	478,705	3%
Princeton	6,025	627	52,304	62,292	-	115,222	(109,198)	879%
RD108	55,694	1,685	58,683	33,096	-	93,465	(37,770)	108%
Santa Clara	1,431,593	47,487	289,357	95,097	-	431,942	999,651	24%
Sonoma	2,248,324	98,179	644,511	-	-	742,690	1,505,634	33%
West Stan	470,376	55,795	157,241	74,366	-	287,402	182,974	45%
Westlands	4,859,152	142,327	1,306,112	430,161	-	1,878,600	2,980,552	30%
Westside	17,015	2,148	23,586	62,316	-	88,050	(71,035)	151%
Zone 7	304,169	8,825	92,166	-	-	100,991	203,178	33%
PWRPA	12,049,084	432,000	5,238,283	1,486,010	-	7,156,293	4,892,791	47%

Percent of DLF Adjusted Energy:

4% 43% 12% 0% 59%



January 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	1,689,069	1,731,452	2.5%	9,847	\$ 87,255	\$ 50.39
Banta-Carbona	199,741	199,741	0.0%	2,521	\$ 9,853	\$ 49.33
Cawelo	18,766	19,155	2.1%	93	\$ 1,016	\$ 53.02
Glenn-Colusa	93,728	97,464	4.0%	412	\$ 5,240	\$ 53.76
James	114,007	116,070	1.8%	673	\$ 5,746	\$ 49.51
Lower Tule	461,914	492,853	6.7%	2,104	\$ 25,421	\$ 51.58
Princeton	5,920	6,025	1.8%	12	\$ 322	\$ 53.40
RD108	53,396	55,694	4.3%	440	\$ 2,900	\$ 52.08
Santa Clara	1,404,142	1,431,593	2.0%	3,426	\$ 76,941	\$ 53.74
Sonoma	2,220,069	2,248,324	1.3%	6,853	\$ 120,143	\$ 53.44
West Stan	461,793	470,376	1.9%	3,277	\$ 26,744	\$ 56.86
Westlands	4,553,578	4,859,152	6.7%	26,375	\$ 243,089	\$ 50.03
Westside	16,712	17,015	1.8%	35	\$ 906	\$ 53.26
Zone 7	298,738	304,169	1.8%	1,830	\$ 16,016	\$ 52.66
PWRPA	11,591,574	12,049,084	3.9%	57,898	\$ 621,592	\$ 51.59

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 1,008	\$ 1,008	\$ -	\$ -
West Stan	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Westlands	93,000	\$ -	\$ (3,052)	\$ 1,500	\$ (1,553)	\$ 16.13	\$ (32.82)
Westside	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
PWRPA	93,000	\$ -	\$ (3,052)	\$ 2,508	\$ (544)	\$ 26.97	\$ (32.82)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	98,272	\$ (8,041)	-	\$ -	\$ -	(58,240)	\$ (5,763)	\$ 4,424	\$ 9,725	\$ 936	40,032	\$ 1,280	\$ 122.33	\$ (90.37)
Banta-Carbona	12,120	\$ (992)	-	\$ -	\$ -	(6,364)	\$ (631)	\$ 502	\$ 1,199	\$ 115	5,756	\$ 195	\$ 118.86	\$ (85.01)
Cawelo	5,820	\$ (476)	-	\$ -	\$ -	(2,573)	\$ (255)	\$ 193	\$ 576	\$ 55	3,248	\$ 94	\$ 116.02	\$ (87.12)
Glenn-Colusa	10,951	\$ (896)	-	\$ -	\$ -	206	\$ 20	\$ (19)	\$ 1,084	\$ 104	11,156	\$ 293	\$ 108.31	\$ (82.01)
James	2,319	\$ (190)	-	\$ -	\$ -	(1,734)	\$ (172)	\$ 140	\$ 229	\$ 22	585	\$ 30	\$ 136.07	\$ (85.27)
Lower Tule	2,994	\$ (245)	-	\$ -	\$ -	11,154	\$ 1,104	\$ (854)	\$ 296	\$ 29	14,148	\$ 330	\$ 100.98	\$ (77.66)
Princeton	2,457	\$ (201)	-	\$ -	\$ -	(1,830)	\$ (181)	\$ 148	\$ 243	\$ 23	627	\$ 32	\$ 135.66	\$ (85.10)
RD108	1,963	\$ (161)	-	\$ -	\$ -	(277)	\$ (27)	\$ 20	\$ 194	\$ 19	1,685	\$ 45	\$ 110.06	\$ (83.48)
Santa Clara	4,949	\$ (405)	-	\$ -	\$ -	42,538	\$ 4,210	\$ (3,249)	\$ 490	\$ 47	47,487	\$ 1,093	\$ 99.96	\$ (76.95)
Sonoma	9,051	\$ (741)	-	\$ -	\$ -	89,128	\$ 8,821	\$ (6,801)	\$ 896	\$ 86	98,179	\$ 2,261	\$ 99.85	\$ (76.82)
West Stan	17,034	\$ (1,394)	-	\$ -	\$ -	38,761	\$ 3,836	\$ (2,957)	\$ 1,686	\$ 162	55,795	\$ 1,334	\$ 101.87	\$ (77.97)
Westlands	163,787	\$ (13,402)	-	\$ -	\$ -	(114,459)	\$ (11,327)	\$ 8,717	\$ 16,208	\$ 1,560	49,327	\$ 1,756	\$ 130.57	\$ (94.97)
Westside	6,552	\$ (536)	-	\$ -	\$ -	(4,403)	\$ (437)	\$ 353	\$ 648	\$ 62	2,148	\$ 92	\$ 127.60	\$ (85.00)
Zone 7	733	\$ (60)	-	\$ -	\$ -	8,093	\$ 801	\$ (618)	\$ 72	\$ 7	8,825	\$ 203	\$ 99.76	\$ (76.81)
PWRPA	339,000	\$ (27,739)	-	\$ -	\$ -	(0)	\$ (0)	\$ 0	\$ 33,547	\$ 3,228	339,000	\$ 9,035	\$ 108.48	\$ (81.83)

January 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	632,738	\$ 39,862	\$ (18,677)	\$ 431	\$ 21,616	\$ 63.68	\$ (29.52)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	98,840	\$ 6,227	\$ (2,918)	\$ 67	\$ 3,377	\$ 63.68	\$ (29.52)
Glenn-Colusa	52,291	\$ 3,294	\$ (1,544)	\$ 36	\$ 1,786	\$ 63.68	\$ (29.52)
James	13,300	\$ 838	\$ (393)	\$ 9	\$ 454	\$ 63.68	\$ (29.52)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	18,613	\$ 1,173	\$ (549)	\$ 13	\$ 636	\$ 63.68	\$ (29.52)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	66,152	\$ 4,168	\$ (1,953)	\$ 45	\$ 2,260	\$ 63.68	\$ (29.52)
Sonoma	172,845	\$ 10,889	\$ (5,102)	\$ 118	\$ 5,905	\$ 63.68	\$ (29.52)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	570,514	\$ 35,942	\$ (16,840)	\$ 389	\$ 19,491	\$ 63.68	\$ (29.52)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	24,784	\$ 1,561	\$ (732)	\$ 17	\$ 847	\$ 63.68	\$ (29.52)
PWRPA	1,650,076	\$ 103,955	\$ (48,707)	\$ 1,124	\$ 56,372	\$ 63.68	\$ (29.52)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	491,295	\$ 26,700	\$ (16,997)	\$ 1,090	\$ 10,793	\$ 56.56	\$ (34.60)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	42,107	\$ 2,288	\$ (1,457)	\$ 93	\$ 925	\$ 56.56	\$ (34.60)
James	14,036	\$ 763	\$ (486)	\$ 31	\$ 308	\$ 56.56	\$ (34.60)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	14,036	\$ 763	\$ (486)	\$ 31	\$ 308	\$ 56.56	\$ (34.60)
RD108	35,097	\$ 1,907	\$ (1,214)	\$ 78	\$ 771	\$ 56.56	\$ (34.60)
Santa Clara	105,275	\$ 5,721	\$ (3,642)	\$ 234	\$ 2,313	\$ 56.56	\$ (34.60)
Sonoma	393,045	\$ 21,360	\$ (13,598)	\$ 872	\$ 8,634	\$ 56.56	\$ (34.60)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	421,117	\$ 22,886	\$ (14,569)	\$ 934	\$ 9,251	\$ 56.56	\$ (34.60)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	28,071	\$ 1,526	\$ (971)	\$ 62	\$ 617	\$ 56.56	\$ (34.60)
PWRPA	1,544,079	\$ 83,914	\$ (53,419)	\$ 3,425	\$ 33,920	\$ 56.56	\$ (34.60)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	707,583	\$ 14,228	\$ (17,711)	\$ 1,560	-	\$ -	\$ (885)	\$ 451	707,583	\$ (2,357)	\$ 22.95	\$ (26.28)
Banta-Carbona	157,241	\$ 3,162	\$ (3,936)	\$ 347	-	\$ -	\$ (1,770)	\$ 901	157,241	\$ (1,296)	\$ 28.05	\$ (36.29)
Cawelo	326,274	\$ 6,561	\$ (8,167)	\$ 719	-	\$ -	\$ (1,682)	\$ 856	326,274	\$ (1,712)	\$ 24.94	\$ (30.18)
Glenn-Colusa	58,965	\$ 1,186	\$ (1,476)	\$ 130	-	\$ -	\$ -	\$ -	58,965	\$ (160)	\$ 22.31	\$ (25.03)
James	19,655	\$ 395	\$ (492)	\$ 43	-	\$ -	\$ -	\$ -	19,655	\$ (53)	\$ 22.31	\$ (25.03)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	19,655	\$ 395	\$ (492)	\$ 43	-	\$ -	\$ -	\$ -	19,655	\$ (53)	\$ 22.31	\$ (25.03)
RD108	23,586	\$ 474	\$ (590)	\$ 52	-	\$ -	\$ (221)	\$ 113	23,586	\$ (173)	\$ 27.09	\$ (34.41)
Santa Clara	117,930	\$ 2,371	\$ (2,952)	\$ 260	-	\$ -	\$ (443)	\$ 225	117,930	\$ (538)	\$ 24.22	\$ (28.78)
Sonoma	78,620	\$ 1,581	\$ (1,968)	\$ 173	-	\$ -	\$ -	\$ -	78,620	\$ (214)	\$ 22.31	\$ (25.03)
West Stan	157,241	\$ 3,162	\$ (3,936)	\$ 347	-	\$ -	\$ (885)	\$ 451	157,241	\$ (862)	\$ 25.18	\$ (30.66)
Westlands	314,481	\$ 6,323	\$ (7,872)	\$ 693	-	\$ -	\$ (2,832)	\$ 1,442	314,481	\$ (2,245)	\$ 26.90	\$ (34.04)
Westside	23,586	\$ 474	\$ (590)	\$ 52	-	\$ -	\$ (133)	\$ 68	23,586	\$ (129)	\$ 25.18	\$ (30.66)
Zone 7	39,310	\$ 790	\$ (984)	\$ 87	-	\$ -	\$ -	\$ -	39,310	\$ (107)	\$ 22.31	\$ (25.03)
PWRPA	2,044,128	\$ 41,102	\$ (51,165)	\$ 4,507	-	\$ -	\$ (8,850)	\$ 4,507	2,044,128	\$ (9,899)	\$ 22.31	\$ (29.36)

January 2022

Specific Projects: Lodi Energy Center

Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	351,574	\$ 15,701	\$ 33,638	\$ (23,679)	\$ 422	\$ 26,082	\$ 141.54	\$ (67.35)
Banta-Carbona	132,219	\$ 5,905	\$ 12,650	\$ (8,905)	\$ 159	\$ 9,809	\$ 141.54	\$ (67.35)
Cawelo	111,278	\$ 4,970	\$ 10,647	\$ (7,495)	\$ 134	\$ 8,255	\$ 141.54	\$ (67.35)
Glenn-Colusa	74,613	\$ 3,332	\$ 7,139	\$ (5,025)	\$ 90	\$ 5,535	\$ 141.54	\$ (67.35)
James	58,998	\$ 2,635	\$ 5,645	\$ (3,974)	\$ 71	\$ 4,377	\$ 141.54	\$ (67.35)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	62,292	\$ 2,782	\$ 5,960	\$ (4,196)	\$ 75	\$ 4,621	\$ 141.54	\$ (67.35)
RD108	33,096	\$ 1,478	\$ 3,167	\$ (2,229)	\$ 40	\$ 2,455	\$ 141.54	\$ (67.35)
Santa Clara	95,097	\$ 4,247	\$ 9,099	\$ (6,405)	\$ 114	\$ 7,055	\$ 141.54	\$ (67.35)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	74,366	\$ 3,321	\$ 7,115	\$ (5,009)	\$ 89	\$ 5,517	\$ 141.54	\$ (67.35)
Westlands	430,161	\$ 19,211	\$ 41,157	\$ (28,973)	\$ 516	\$ 31,912	\$ 141.54	\$ (67.35)
Westside	62,316	\$ 2,783	\$ 5,962	\$ (4,197)	\$ 75	\$ 4,623	\$ 141.54	\$ (67.35)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	1,486,010	\$ 66,366	\$ 142,179	\$ (100,087)	\$ 1,784	\$ 110,241	\$ 141.54	\$ (67.35)

Supplemental: Fixed Contracts

Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts

Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc

Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 418	\$ 340	\$ 1,180	\$ 1,035	\$ 2,343
Banta-Carbona	\$ 48	\$ 39	\$ 136	\$ 119	\$ 270
Cawelo	\$ 4	\$ 3	\$ 13	\$ 11	\$ 26
Glenn-Colusa	\$ 21	\$ 17	\$ 66	\$ 58	\$ 132
James	\$ 29	\$ 23	\$ 79	\$ 69	\$ 157
Lower Tule	\$ 118	\$ 96	\$ 336	\$ 295	\$ 667
Princeton	\$ 1	\$ 1	\$ 4	\$ 4	\$ 8
RD108	\$ 13	\$ 11	\$ 38	\$ 33	\$ 75
Santa Clara	\$ 342	\$ 278	\$ 976	\$ 856	\$ 1,937
Sonoma	\$ 531	\$ 432	\$ 1,532	\$ 1,344	\$ 3,042
West Stan	\$ 102	\$ 83	\$ 321	\$ 281	\$ 637
Westlands	\$ 1,187	\$ 967	\$ 3,312	\$ 2,905	\$ 6,576
Westside	\$ 4	\$ 3	\$ 12	\$ 10	\$ 23
Zone 7	\$ 73	\$ 59	\$ 207	\$ 182	\$ 412
PWRPA	\$ 2,891	\$ 2,354	\$ 8,212	\$ 7,203	\$ 16,305

Supplemental: Other

Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	\$ -	\$ -	\$ -	\$ -
Cawelo	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	\$ -	\$ -	\$ -	\$ -
James	\$ -	\$ -	\$ -	\$ -
Lower Tule	\$ -	\$ -	\$ -	\$ -
Princeton	\$ -	\$ -	\$ -	\$ -
RD108	\$ -	\$ -	\$ -	\$ -
Santa Clara	\$ 4,971	\$ -	\$ -	\$ 4,971
Sonoma	\$ -	\$ -	\$ -	\$ -
West Stan	\$ -	\$ -	\$ -	\$ -
Westlands	\$ -	\$ -	\$ -	\$ -
Westside	\$ -	\$ -	\$ -	\$ -
Zone 7	\$ -	\$ -	\$ -	\$ -
PWRPA	\$ 4,971	\$ -	\$ -	\$ 4,971

Power Water Resources Pooling Authority

February 2022

Operations Reconciliation Summary: February 2022

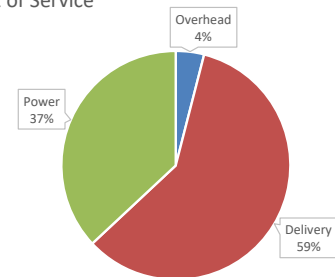
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Power					Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt	Load Cost	District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	4,040,510	\$ 471	\$ 5,538	\$ 18,561	\$ 323,784	\$ 137,603	\$ 11,569	\$ 188,646	\$ -	\$ 23,965	\$ 88,844	\$ -	\$ 798,981
Banta-Carbona	2,253,688	\$ 471	\$ 85	\$ 5,519	\$ -	\$ 76,751	\$ 6,583	\$ 104,998	\$ -	\$ 3,114	\$ 6,737	\$ -	\$ 204,259
Cawelo	622,498	\$ 471	\$ 426	\$ 4,575	\$ 55,258	\$ 21,200	\$ 1,813	\$ 28,025	\$ -	\$ 1,371	\$ 14,267	\$ -	\$ 127,405
Glenn-Colusa	138,751	\$ 471	\$ 1,108	\$ 4,315	\$ 13,025	\$ 4,725	\$ 379	\$ 6,760	\$ -	\$ 2,321	\$ 11,047	\$ -	\$ 44,150
James	309,391	\$ 471	\$ 170	\$ 3,073	\$ 8,789	\$ 10,537	\$ 902	\$ 14,599	\$ -	\$ 586	\$ 5,986	\$ -	\$ 45,112
Lower Tule	583,244	\$ 471	\$ 85	\$ 3,856	\$ 26,168	\$ 19,863	\$ 1,704	\$ 26,874	\$ -	\$ 774	\$ -	\$ -	\$ 79,795
Princeton	5,865	\$ 471	\$ 85	\$ 2,885	\$ 10,986	\$ 97	\$ 15	\$ 280	\$ -	\$ 196	\$ 6,559	\$ -	\$ 21,572
RD108	59,339	\$ 471	\$ 256	\$ 3,132	\$ 16,627	\$ 2,021	\$ 169	\$ 2,940	\$ -	\$ 454	\$ 3,224	\$ -	\$ 29,292
Santa Clara	1,349,552	\$ 471	\$ 767	\$ 5,860	\$ 58,020	\$ 31,638	\$ 3,949	\$ 65,412	\$ -	\$ 1,310	\$ 14,895	\$ 7,551	\$ 189,874
Sonoma	2,622,797	\$ 471	\$ 1,704	\$ 8,481	\$ 49,737	\$ 89,322	\$ 7,676	\$ 123,027	\$ 985	\$ 2,417	\$ 23,922	\$ -	\$ 307,740
West Stan	1,823,130	\$ 471	\$ 85	\$ 5,110	\$ 47,240	\$ 30,160	\$ 5,303	\$ 83,909	\$ -	\$ 4,292	\$ 5,269	\$ -	\$ 181,837
Westlands	13,821,176	\$ 471	\$ 44,131	\$ 45,863	\$ 1,024,231	\$ 470,692	\$ 40,099	\$ 655,079	\$ (8,572)	\$ 40,484	\$ 76,055	\$ -	\$ 2,388,532
Westside	28,970	\$ 471	\$ 85	\$ 2,825	\$ 7,306	\$ 987	\$ 79	\$ 1,545	\$ -	\$ 460	\$ 4,624	\$ -	\$ 18,381
Zone 7	433,451	\$ 471	\$ 426	\$ 3,579	\$ 40,304	\$ 8,092	\$ 1,271	\$ 19,814	\$ -	\$ 215	\$ 3,020	\$ -	\$ 77,192
TOTAL	28,092,361	\$ 6,590	\$ 54,950	\$ 117,635	\$ 1,681,474	\$ 903,685	\$ 81,507	\$ 1,321,909	\$ (7,587)	\$ 81,959	\$ 264,448	\$ 7,551	\$ 4,514,122

Percent of total cost 0.15% 1.22% 2.61% 37.25% 20.02% 1.81% 29.28% -0.17% 1.82% 5.86% 0.17% 100.00%

Summary of Costs as a Rate per Metered Energy (Cents per kWh)

Participant	Metered Energy (kWh)	Cents per kWh						
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate
Arvin-Edison	3,893,393	\$ 0.63	\$ 8.32	\$ 3.53	\$ 0.30	\$ 4.85	\$ 2.90	\$ 20.52
Banta-Carbona	2,253,688	\$ 0.27	\$ -	\$ 3.41	\$ 0.29	\$ 4.66	\$ 0.44	\$ 9.06
Cawelo	611,430	\$ 0.89	\$ 9.04	\$ 3.47	\$ 0.30	\$ 4.58	\$ 2.56	\$ 20.84
Glenn-Colusa	135,375	\$ 4.35	\$ 9.62	\$ 3.49	\$ 0.28	\$ 4.99	\$ 9.87	\$ 32.61
James	303,874	\$ 1.22	\$ 2.89	\$ 3.47	\$ 0.30	\$ 4.80	\$ 2.16	\$ 14.85
Lower Tule	546,507	\$ 0.81	\$ 4.79	\$ 3.63	\$ 0.31	\$ 4.92	\$ 0.14	\$ 14.60
Princeton	5,763	\$ 59.70	\$ 190.64	\$ 1.68	\$ 0.26	\$ 4.85	\$ 117.21	\$ 374.34
RD108	57,514	\$ 6.71	\$ 28.91	\$ 3.51	\$ 0.29	\$ 5.11	\$ 6.39	\$ 50.93
Santa Clara	1,323,914	\$ 0.54	\$ 4.38	\$ 2.39	\$ 0.30	\$ 4.94	\$ 1.79	\$ 14.34
Sonoma	2,591,614	\$ 0.41	\$ 1.92	\$ 3.45	\$ 0.30	\$ 4.75	\$ 1.05	\$ 11.87
West Stan	1,790,596	\$ 0.32	\$ 2.64	\$ 1.68	\$ 0.30	\$ 4.69	\$ 0.53	\$ 10.16
Westlands	12,950,988	\$ 0.70	\$ 7.91	\$ 3.63	\$ 0.31	\$ 5.06	\$ 0.83	\$ 18.44
Westside	28,444	\$ 11.89	\$ 25.68	\$ 3.47	\$ 0.28	\$ 5.43	\$ 17.87	\$ 64.62
Zone 7	425,776	\$ 1.05	\$ 9.47	\$ 1.90	\$ 0.30	\$ 4.65	\$ 0.76	\$ 18.13
PWRPA	26,918,874	\$ 0.67	\$ 6.25	\$ 3.36	\$ 0.30	\$ 4.91	\$ 1.29	\$ 16.77

Cost of Service

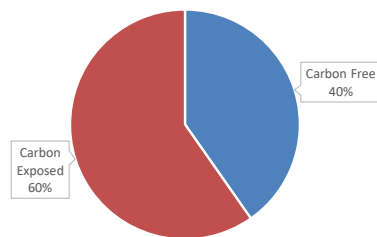


Summary of Energy Portfolio

Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	4,040,510	715,980	3,008,612	186,792	-	3,911,384	129,127	92%
Banta-Carbona	2,253,688	92,992	340,582	70,248	-	503,822	1,749,865	19%
Cawelo	622,498	38,974	833,988	59,122	-	932,084	(309,587)	140%
Glenn-Colusa	138,751	68,430	251,724	39,642	-	359,795	(221,044)	231%
James	309,391	17,557	78,589	31,346	-	127,491	181,900	31%
Lower Tule	583,244	23,237	-	-	-	23,237	560,007	4%
Princeton	5,865	5,654	85,431	33,096	-	124,180	(118,315)	1553%
RD108	59,339	13,677	98,321	17,584	-	129,583	(70,244)	189%
Santa Clara	1,349,552	39,411	482,303	50,525	-	572,240	777,312	39%
Sonoma	2,622,797	72,476	921,835	-	-	994,311	1,628,486	38%
West Stan	1,823,130	128,258	340,582	39,511	-	508,351	1,314,779	26%
Westlands	13,821,176	1,433,267	1,982,581	228,546	-	3,644,394	10,176,782	25%
Westside	28,970	14,670	51,087	33,109	-	98,866	(69,896)	227%
Zone 7	433,451	6,417	154,840	-	-	161,257	272,194	37%
PWRPA	28,092,361	2,671,000	8,630,475	789,520	-	12,090,995	16,001,367	40%

Percent of DLF Adjusted Energy: 10% 31% 3% 0% 43%

Portfolio Content



February 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	3,893,393	4,040,510	3.8%	20,795	\$ 188,646	\$ 46.69
Banta-Carbona	2,253,688	2,253,688	0.0%	4,330	\$ 104,998	\$ 46.59
Cawelo	611,430	622,498	1.8%	1,659	\$ 28,025	\$ 45.02
Glenn-Colusa	135,375	138,751	2.5%	653	\$ 6,760	\$ 48.72
James	303,874	309,391	1.8%	757	\$ 14,599	\$ 47.19
Lower Tule	546,507	583,244	6.7%	2,603	\$ 26,874	\$ 46.08
Princeton	5,763	5,865	1.8%	12	\$ 280	\$ 47.68
RD108	57,514	59,339	3.2%	467	\$ 2,940	\$ 49.54
Santa Clara	1,323,914	1,349,552	1.9%	4,054	\$ 65,412	\$ 48.47
Sonoma	2,591,614	2,622,797	1.2%	6,676	\$ 123,027	\$ 46.91
West Stan	1,790,596	1,823,130	1.8%	4,066	\$ 83,909	\$ 46.02
Westlands	12,950,988	13,821,176	6.7%	45,610	\$ 655,079	\$ 47.40
Westside	28,444	28,970	1.8%	152	\$ 1,545	\$ 53.35
Zone 7	425,776	433,451	1.8%	1,489	\$ 19,814	\$ 45.71
PWRPA	26,918,874	28,092,361	4.4%	93,323	\$ 1,321,909	\$ 47.06

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 985	\$ 985	\$ -	\$ -
West Stan	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Westlands	224,000	-	\$ (10,075)	\$ 1,503	\$ (8,572)	\$ 6.71	\$ (44.98)
Westside	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
PWRPA	224,000	\$ -	\$ (10,075)	\$ 2,487	\$ (7,587)	\$ 11.10	\$ (44.98)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	709,355	\$ (47,550)	-	\$ -	\$ -	6,625	\$ 656	\$ (450)	\$ 70,196	\$ 1,113	715,980	\$ 23,965	\$ 100.51	\$ (67.04)
Banta-Carbona	87,487	\$ (5,864)	-	\$ -	\$ -	5,505	\$ 545	\$ (361)	\$ 8,657	\$ 137	92,992	\$ 3,114	\$ 100.44	\$ (66.95)
Cawelo	42,014	\$ (2,816)	-	\$ -	\$ -	(3,039)	\$ (302)	\$ 266	\$ 4,158	\$ 66	38,974	\$ 1,371	\$ 100.62	\$ (65.45)
Glenn-Colusa	79,046	\$ (5,299)	-	\$ -	\$ -	(10,616)	\$ (1,051)	\$ 724	\$ 7,822	\$ 124	68,430	\$ 2,321	\$ 100.77	\$ (66.85)
James	16,738	\$ (1,122)	-	\$ -	\$ -	819	\$ 81	\$ (55)	\$ 1,656	\$ 26	17,557	\$ 586	\$ 100.46	\$ (67.06)
Lower Tule	21,612	\$ (1,449)	-	\$ -	\$ -	1,625	\$ 161	\$ (110)	\$ 2,139	\$ 34	23,237	\$ 774	\$ 100.42	\$ (67.09)
Princeton	17,733	\$ (1,189)	-	\$ -	\$ -	(12,079)	\$ (1,196)	\$ 798	\$ 1,755	\$ 28	5,654	\$ 196	\$ 103.76	\$ (69.14)
RD108	14,166	\$ (950)	-	\$ -	\$ -	(489)	\$ (48)	\$ 28	\$ 1,402	\$ 22	13,677	\$ 454	\$ 100.58	\$ (67.39)
Santa Clara	35,724	\$ (2,395)	-	\$ -	\$ -	3,687	\$ 365	\$ (251)	\$ 3,535	\$ 56	39,411	\$ 1,310	\$ 100.39	\$ (67.14)
Sonoma	65,330	\$ (4,379)	-	\$ -	\$ -	7,145	\$ 708	\$ (479)	\$ 6,465	\$ 103	72,476	\$ 2,417	\$ 100.38	\$ (67.03)
West Stan	122,956	\$ (8,242)	-	\$ -	\$ -	5,303	\$ 525	\$ (352)	\$ 12,167	\$ 193	128,258	\$ 4,292	\$ 100.46	\$ (67.00)
Westlands	1,182,261	\$ (79,250)	-	\$ -	\$ -	27,006	\$ 2,674	\$ (1,788)	\$ 116,994	\$ 1,855	1,209,267	\$ 40,484	\$ 100.49	\$ (67.01)
Westside	47,292	\$ (3,170)	-	\$ -	\$ -	(32,621)	\$ (3,230)	\$ 2,105	\$ 4,680	\$ 74	14,670	\$ 460	\$ 103.90	\$ (72.58)
Zone 7	5,288	\$ (354)	-	\$ -	\$ -	1,130	\$ 112	\$ (74)	\$ 523	\$ 8	6,417	\$ 215	\$ 100.26	\$ (66.74)
PWRPA	2,447,000	\$ (164,029)	-	\$ -	\$ -	-	\$ 0	\$ (0)	\$ 242,149	\$ 3,840	2,447,000	\$ 81,959	\$ 100.53	\$ (67.03)

February 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	814,803	\$ 51,390	\$ (13,085)	\$ 470	\$ 38,775	\$ 63.65	\$ (16.06)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	127,280	\$ 8,028	\$ (2,044)	\$ 73	\$ 6,057	\$ 63.65	\$ (16.06)
Glenn-Colusa	67,337	\$ 4,247	\$ (1,081)	\$ 39	\$ 3,204	\$ 63.65	\$ (16.06)
James	17,126	\$ 1,080	\$ (275)	\$ 10	\$ 815	\$ 63.65	\$ (16.06)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	23,969	\$ 1,512	\$ (385)	\$ 14	\$ 1,141	\$ 63.65	\$ (16.06)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	85,186	\$ 5,373	\$ (1,368)	\$ 49	\$ 4,054	\$ 63.65	\$ (16.06)
Sonoma	222,580	\$ 14,038	\$ (3,575)	\$ 128	\$ 10,592	\$ 63.65	\$ (16.06)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	734,675	\$ 46,336	\$ (11,799)	\$ 424	\$ 34,961	\$ 63.65	\$ (16.06)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	31,916	\$ 2,013	\$ (513)	\$ 18	\$ 1,519	\$ 63.65	\$ (16.06)
PWRPA	2,124,872	\$ 134,016	\$ (34,124)	\$ 1,226	\$ 101,118	\$ 63.65	\$ (16.06)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	661,189	\$ 35,461	\$ (21,566)	\$ 1,166	\$ 15,060	\$ 55.40	\$ (32.62)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	56,668	\$ 3,039	\$ (1,848)	\$ 100	\$ 1,291	\$ 55.40	\$ (32.62)
James	18,889	\$ 1,013	\$ (616)	\$ 33	\$ 430	\$ 55.40	\$ (32.62)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	18,889	\$ 1,013	\$ (616)	\$ 33	\$ 430	\$ 55.40	\$ (32.62)
RD108	47,234	\$ 2,533	\$ (1,541)	\$ 83	\$ 1,076	\$ 55.40	\$ (32.62)
Santa Clara	141,680	\$ 7,599	\$ (4,621)	\$ 250	\$ 3,227	\$ 55.40	\$ (32.62)
Sonoma	528,964	\$ 28,369	\$ (17,254)	\$ 933	\$ 12,049	\$ 55.40	\$ (32.62)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	566,743	\$ 30,395	\$ (18,486)	\$ 1,000	\$ 12,909	\$ 55.40	\$ (32.62)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	37,779	\$ 2,026	\$ (1,232)	\$ 67	\$ 861	\$ 55.40	\$ (32.62)
PWRPA	2,078,036	\$ 111,449	\$ (67,781)	\$ 3,665	\$ 47,333	\$ 55.40	\$ (32.62)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,532,619	\$ 30,817	\$ (20,499)	\$ 1,214	-	\$ -	\$ (3,217)	\$ 351	1,532,619	\$ 8,666	\$ 21.13	\$ (15.47)
Banta-Carbona	340,582	\$ 6,848	\$ (4,555)	\$ 270	-	\$ -	\$ (6,434)	\$ 701	340,582	\$ (3,170)	\$ 22.96	\$ (32.27)
Cawelo	706,708	\$ 14,210	\$ (9,452)	\$ 560	-	\$ -	\$ (6,112)	\$ 666	706,708	\$ (128)	\$ 21.84	\$ (22.02)
Glenn-Colusa	127,718	\$ 2,568	\$ (1,708)	\$ 101	-	\$ -	\$ -	\$ -	127,718	\$ 961	\$ 20.90	\$ (13.38)
James	42,573	\$ 856	\$ (569)	\$ 34	-	\$ -	\$ -	\$ -	42,573	\$ 320	\$ 20.90	\$ (13.38)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	42,573	\$ 856	\$ (569)	\$ 34	-	\$ -	\$ -	\$ -	42,573	\$ 320	\$ 20.90	\$ (13.38)
RD108	51,087	\$ 1,027	\$ (683)	\$ 40	-	\$ -	\$ (804)	\$ 88	51,087	\$ (332)	\$ 22.62	\$ (29.12)
Santa Clara	255,437	\$ 5,136	\$ (3,416)	\$ 202	-	\$ -	\$ (1,608)	\$ 175	255,437	\$ 489	\$ 21.59	\$ (19.67)
Sonoma	170,291	\$ 3,424	\$ (2,278)	\$ 135	-	\$ -	\$ -	\$ -	170,291	\$ 1,281	\$ 20.90	\$ (13.38)
West Stan	340,582	\$ 6,848	\$ (4,555)	\$ 270	-	\$ -	\$ (3,217)	\$ 351	340,582	\$ (304)	\$ 21.93	\$ (22.82)
Westlands	681,164	\$ 13,697	\$ (9,111)	\$ 539	-	\$ -	\$ (10,294)	\$ 1,122	681,164	\$ (4,047)	\$ 22.55	\$ (28.49)
Westside	51,087	\$ 1,027	\$ (683)	\$ 40	-	\$ -	\$ (483)	\$ 53	51,087	\$ (46)	\$ 21.93	\$ (22.82)
Zone 7	85,146	\$ 1,712	\$ (1,139)	\$ 67	-	\$ -	\$ -	\$ -	85,146	\$ 641	\$ 20.90	\$ (13.38)
PWRPA	4,427,567	\$ 89,027	\$ (59,219)	\$ 3,507	-	\$ -	\$ (32,169)	\$ 3,507	4,427,567	\$ 4,652	\$ 21.69	\$ (20.64)

February 2022

Specific Projects: Lodi Energy Center

Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	186,792	\$ 15,701	\$ 24,746	\$ (14,553)	\$ 449	\$ 26,343	\$ 218.94	\$ (77.91)
Banta-Carbona	70,248	\$ 5,905	\$ 9,306	\$ (5,473)	\$ 169	\$ 9,907	\$ 218.94	\$ (77.91)
Cawelo	59,122	\$ 4,970	\$ 7,832	\$ (4,606)	\$ 142	\$ 8,338	\$ 218.94	\$ (77.91)
Glenn-Colusa	39,642	\$ 3,332	\$ 5,252	\$ (3,089)	\$ 95	\$ 5,591	\$ 218.94	\$ (77.91)
James	31,346	\$ 2,635	\$ 4,153	\$ (2,442)	\$ 75	\$ 4,421	\$ 218.94	\$ (77.91)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	33,096	\$ 2,782	\$ 4,384	\$ (2,579)	\$ 80	\$ 4,667	\$ 218.94	\$ (77.91)
RD108	17,584	\$ 1,478	\$ 2,329	\$ (1,370)	\$ 42	\$ 2,480	\$ 218.94	\$ (77.91)
Santa Clara	50,525	\$ 4,247	\$ 6,693	\$ (3,937)	\$ 122	\$ 7,126	\$ 218.94	\$ (77.91)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	39,511	\$ 3,321	\$ 5,234	\$ (3,078)	\$ 95	\$ 5,572	\$ 218.94	\$ (77.91)
Westlands	228,546	\$ 19,211	\$ 30,277	\$ (17,806)	\$ 550	\$ 32,232	\$ 218.94	\$ (77.91)
Westside	33,109	\$ 2,783	\$ 4,386	\$ (2,580)	\$ 80	\$ 4,669	\$ 218.94	\$ (77.91)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	789,520	\$ 66,366	\$ 104,593	\$ (61,513)	\$ 1,899	\$ 111,345	\$ 218.94	\$ (77.91)

Supplemental: Fixed Contracts

Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts

Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc

Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 798	\$ 609	\$ 1,181	\$ 2,150	\$ 6,830
Banta-Carbona	\$ 519	\$ 396	\$ 659	\$ 1,199	\$ 3,810
Cawelo	\$ 140	\$ 107	\$ 182	\$ 331	\$ 1,052
Glenn-Colusa	\$ 17	\$ 13	\$ 41	\$ 74	\$ 235
James	\$ 70	\$ 53	\$ 90	\$ 165	\$ 523
Lower Tule	\$ 134	\$ 103	\$ 170	\$ 310	\$ 986
Princeton	\$ 0	\$ 0	\$ 2	\$ 3	\$ 10
RD108	\$ 11	\$ 8	\$ 17	\$ 32	\$ 100
Santa Clara	\$ 314	\$ 240	\$ 394	\$ 718	\$ 2,281
Sonoma	\$ 612	\$ 468	\$ 767	\$ 1,396	\$ 4,434
West Stan	\$ 407	\$ 311	\$ 533	\$ 970	\$ 3,082
Westlands	\$ 3,027	\$ 2,312	\$ 4,040	\$ 7,356	\$ 23,363
Westside	\$ 3	\$ 3	\$ 8	\$ 15	\$ 49
Zone 7	\$ 103	\$ 78	\$ 127	\$ 231	\$ 733
PWRPA	\$ 6,156	\$ 4,701	\$ 8,212	\$ 14,951	\$ 47,488

Supplemental: Other

Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	\$ -	\$ -	\$ -	\$ -
Cawelo	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	\$ -	\$ -	\$ -	\$ -
James	\$ -	\$ -	\$ -	\$ -
Lower Tule	\$ -	\$ -	\$ -	\$ -
Princeton	\$ -	\$ -	\$ -	\$ -
RD108	\$ -	\$ -	\$ -	\$ -
Santa Clara	\$ 7,551	\$ -	\$ -	\$ 7,551
Sonoma	\$ -	\$ -	\$ -	\$ -
West Stan	\$ -	\$ -	\$ -	\$ -
Westlands	\$ -	\$ -	\$ -	\$ -
Westside	\$ -	\$ -	\$ -	\$ -
Zone 7	\$ -	\$ -	\$ -	\$ -
PWRPA	\$ 7,551	\$ -	\$ -	\$ 7,551

Power Water Resources Pooling Authority

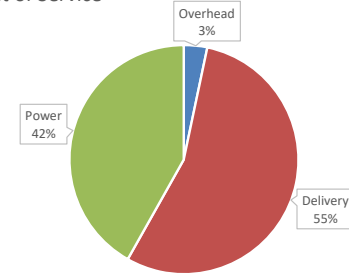
March 2022

Operations Reconciliation Summary: March 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Load Cost	Power				Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt		District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	7,617,082	\$ 691	\$ 5,875	\$ 20,232	\$ 323,784	\$ 259,384	\$ 23,489	\$ 362,895	\$ -	\$ 31,950	\$ 106,779	\$ -	\$ 1,135,080
Banta-Carbona	2,878,634	\$ 691	\$ 90	\$ 5,960	\$ -	\$ 98,026	\$ 9,053	\$ 135,655	\$ -	\$ 4,275	\$ 5,735	\$ -	\$ 259,486
Cawelo	772,932	\$ 691	\$ 452	\$ 5,050	\$ 55,258	\$ 26,321	\$ 2,412	\$ 35,902	\$ -	\$ 1,989	\$ 11,865	\$ -	\$ 139,939
Glenn-Colusa	244,237	\$ 691	\$ 1,175	\$ 4,692	\$ 13,025	\$ 8,302	\$ 695	\$ 11,547	\$ -	\$ 3,672	\$ 12,749	\$ -	\$ 56,548
James	450,063	\$ 691	\$ 181	\$ 3,467	\$ 8,789	\$ 15,326	\$ 1,412	\$ 21,244	\$ -	\$ 814	\$ 6,652	\$ -	\$ 58,575
Lower Tule	351,661	\$ 691	\$ 90	\$ 4,174	\$ 26,168	\$ 11,975	\$ 1,097	\$ 16,912	\$ -	\$ 870	\$ -	\$ -	\$ 61,978
Princeton	7,255	\$ 691	\$ 90	\$ 3,301	\$ 10,986	\$ 120	\$ 19	\$ 348	\$ -	\$ 197	\$ 7,313	\$ -	\$ 23,066
RD108	178,000	\$ 691	\$ 271	\$ 3,573	\$ 16,627	\$ 6,061	\$ 551	\$ 8,423	\$ -	\$ 670	\$ 4,407	\$ -	\$ 41,274
Santa Clara	2,090,533	\$ 691	\$ 813	\$ 6,470	\$ 58,020	\$ 45,833	\$ 6,603	\$ 99,691	\$ -	\$ 1,820	\$ 18,507	\$ 9,811	\$ 248,260
Sonoma	3,189,035	\$ 691	\$ 1,808	\$ 8,836	\$ 49,737	\$ 108,596	\$ 10,062	\$ 149,698	\$ 985	\$ 3,266	\$ 39,608	\$ -	\$ 373,285
West Stan	3,457,375	\$ 691	\$ 90	\$ 5,991	\$ 47,240	\$ 57,195	\$ 10,855	\$ 164,856	\$ -	\$ 5,915	\$ 3,575	\$ -	\$ 296,409
Westlands	18,326,865	\$ 691	\$ 46,911	\$ 39,540	\$ 1,024,231	\$ 624,084	\$ 57,002	\$ 869,418	\$ (6,035)	\$ 55,830	\$ 97,979	\$ -	\$ 2,809,651
Westside	258,176	\$ 691	\$ 90	\$ 3,313	\$ 7,306	\$ 8,792	\$ 775	\$ 12,480	\$ -	\$ 2,031	\$ 4,603	\$ -	\$ 40,081
Zone 7	498,972	\$ 691	\$ 452	\$ 3,921	\$ 40,304	\$ 9,417	\$ 1,579	\$ 23,380	\$ -	\$ 292	\$ 3,787	\$ -	\$ 83,824
TOTAL	40,320,818	\$ 9,679	\$ 58,391	\$ 118,518	\$ 1,681,474	\$ 1,279,431	\$ 125,605	\$ 1,912,449	\$ (5,050)	\$ 113,590	\$ 323,560	\$ 9,811	\$ 5,627,456
Percent of total cost		0.17%	1.04%	2.11%	29.88%	22.74%	2.23%	33.98%	-0.09%	2.02%	5.75%	0.17%	100.00%

Summary of Costs as a Rate per Metered Energy (Cents per kWh)

Participant	Metered Energy (kWh)	Cents per kWh							
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate	
Arvin-Edison	7,351,691	\$ 0.36	\$ 4.40	\$ 3.53	\$ 0.32	\$ 4.94	\$ 1.89	\$ 15.44	
Banta-Carbona	2,878,634	\$ 0.23	\$ -	\$ 3.41	\$ 0.31	\$ 4.71	\$ 0.35	\$ 9.01	
Cawelo	759,461	\$ 0.82	\$ 7.28	\$ 3.47	\$ 0.32	\$ 4.73	\$ 1.82	\$ 18.43	
Glenn-Colusa	243,524	\$ 2.69	\$ 5.35	\$ 3.41	\$ 0.29	\$ 4.74	\$ 6.74	\$ 23.22	
James	442,249	\$ 0.98	\$ 1.99	\$ 3.47	\$ 0.32	\$ 4.80	\$ 1.69	\$ 13.24	
Lower Tule	329,659	\$ 1.50	\$ 7.94	\$ 3.63	\$ 0.33	\$ 5.13	\$ 0.26	\$ 18.80	
Princeton	7,130	\$ 57.26	\$ 154.08	\$ 1.68	\$ 0.26	\$ 4.88	\$ 105.34	\$ 323.50	
RD108	173,163	\$ 2.62	\$ 9.60	\$ 3.50	\$ 0.32	\$ 4.86	\$ 2.93	\$ 23.84	
Santa Clara	2,032,195	\$ 0.39	\$ 2.86	\$ 2.26	\$ 0.32	\$ 4.91	\$ 1.48	\$ 12.22	
Sonoma	3,154,442	\$ 0.36	\$ 1.58	\$ 3.44	\$ 0.32	\$ 4.75	\$ 1.39	\$ 11.83	
West Stan	3,397,352	\$ 0.20	\$ 1.39	\$ 1.68	\$ 0.32	\$ 4.85	\$ 0.28	\$ 8.72	
Westlands	17,185,851	\$ 0.51	\$ 5.96	\$ 3.63	\$ 0.33	\$ 5.06	\$ 0.86	\$ 16.35	
Westside	253,680	\$ 1.61	\$ 2.88	\$ 3.47	\$ 0.31	\$ 4.92	\$ 2.62	\$ 15.80	
Zone 7	490,312	\$ 1.03	\$ 8.22	\$ 1.92	\$ 0.32	\$ 4.77	\$ 0.83	\$ 17.10	
PWRPA	38,699,343	\$ 0.48	\$ 4.34	\$ 3.31	\$ 0.32	\$ 4.94	\$ 1.14	\$ 14.54	

Cost of Service



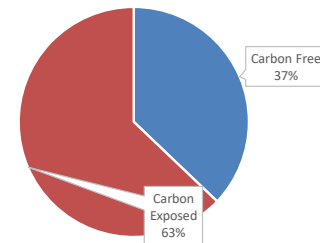
Summary of Energy Portfolio

Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	7,617,082	1,197,399	3,653,467	-	-	4,850,865	2,766,217	64%
Banta-Carbona	2,878,634	156,914	412,520	-	-	569,434	2,309,201	20%
Cawelo	772,932	72,973	997,585	-	-	1,070,558	(297,626)	139%
Glenn-Colusa	244,237	136,207	305,026	-	-	441,233	(196,996)	181%
James	450,063	29,890	94,963	-	-	124,853	325,209	28%
Lower Tule	351,661	33,460	-	-	-	33,460	318,201	10%
Princeton	7,255	7,023	103,597	-	-	110,620	(103,365)	1525%
RD108	178,000	24,754	121,216	-	-	145,969	32,030	82%
Santa Clara	2,090,533	66,262	587,690	-	-	653,951	1,436,582	31%
Sonoma	3,189,035	119,411	1,147,917	-	-	1,267,328	1,921,706	40%
West Stan	3,457,375	218,005	404,075	-	-	622,080	2,835,295	18%
Westlands	18,326,865	2,283,061	2,462,363	-	-	4,745,424	13,581,441	26%
Westside	258,176	76,255	60,611	-	-	136,866	121,310	53%
Zone 7	498,972	10,388	186,977	-	-	197,365	301,607	40%
PWRPA	40,320,818	4,432,000	10,538,008	-	-	14,970,008	25,350,810	37%

Percent of DLF Adjusted Energy:

11% 26% 0% 0% 37%

Portfolio Content



March 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	7,351,691	7,617,082	3.6%	28,805	\$ 362,895	\$ 47.64
Banta-Carbona	2,878,634	2,878,634	0.0%	4,670	\$ 135,655	\$ 47.12
Cawelo	759,461	772,932	1.8%	1,644	\$ 35,902	\$ 46.45
Glenn-Colusa	243,524	244,237	0.3%	808	\$ 11,547	\$ 47.28
James	442,249	450,063	1.8%	770	\$ 21,244	\$ 47.20
Lower Tule	329,659	351,661	6.7%	1,849	\$ 16,912	\$ 48.09
Princeton	7,130	7,255	1.8%	14	\$ 348	\$ 47.95
RD108	173,163	178,000	2.8%	608	\$ 8,423	\$ 47.32
Santa Clara	2,032,195	2,090,533	2.9%	4,742	\$ 99,691	\$ 47.69
Sonoma	3,154,442	3,189,035	1.1%	8,590	\$ 149,698	\$ 46.94
West Stan	3,397,352	3,457,375	1.8%	5,826	\$ 164,856	\$ 47.68
Westlands	17,185,851	18,326,865	6.6%	52,780	\$ 869,418	\$ 47.44
Westside	253,680	258,176	1.8%	805	\$ 12,480	\$ 48.34
Zone 7	490,312	498,972	1.8%	1,571	\$ 23,380	\$ 46.86
PWRPA	38,699,343	40,320,818	4.2%	113,480	\$ 1,912,449	\$ 47.43

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 985	\$ 985	\$ -	\$ -
West Stan	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Westlands	218,000	-	(7,537)	\$ 1,503	\$ (6,035)	\$ 6.89	\$ (34.57)
Westside	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
PWRPA	218,000	\$ -	(7,537)	\$ 2,487	\$ (5,050)	\$ 11.41	\$ (34.57)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,221,586	\$ (89,107)	-	\$ -	\$ -	(24,187)	\$ (2,393)	\$ 1,416	\$ 120,885	\$ 1,150	1,197,399	\$ 31,950	\$ 99.92	\$ (73.23)
Banta-Carbona	150,662	\$ (10,990)	-	\$ -	\$ -	6,252	\$ 619	\$ (405)	\$ 14,909	\$ 142	156,914	\$ 4,275	\$ 99.86	\$ (72.62)
Cawelo	72,352	\$ (5,278)	-	\$ -	\$ -	621	\$ 61	\$ (23)	\$ 7,160	\$ 68	72,973	\$ 1,989	\$ 99.89	\$ (72.64)
Glenn-Colusa	136,125	\$ (9,929)	-	\$ -	\$ -	81	\$ 8	\$ (6)	\$ 13,471	\$ 128	136,207	\$ 3,672	\$ 99.90	\$ (72.94)
James	28,824	\$ (2,103)	-	\$ -	\$ -	1,066	\$ 105	\$ (68)	\$ 2,852	\$ 27	29,890	\$ 814	\$ 99.87	\$ (72.63)
Lower Tule	37,218	\$ (2,715)	-	\$ -	\$ -	(3,758)	\$ (372)	\$ 239	\$ 3,683	\$ 35	33,460	\$ 870	\$ 100.00	\$ (74.00)
Princeton	30,538	\$ (2,228)	-	\$ -	\$ -	(23,515)	\$ (2,327)	\$ 1,701	\$ 3,022	\$ 29	7,023	\$ 197	\$ 103.05	\$ (74.96)
RD108	24,395	\$ (1,779)	-	\$ -	\$ -	358	\$ 35	\$ (23)	\$ 2,414	\$ 23	24,754	\$ 670	\$ 99.89	\$ (72.83)
Santa Clara	61,521	\$ (4,488)	-	\$ -	\$ -	4,741	\$ 469	\$ (307)	\$ 6,088	\$ 58	66,262	\$ 1,820	\$ 99.83	\$ (72.36)
Sonoma	112,506	\$ (8,207)	-	\$ -	\$ -	6,905	\$ 683	\$ (450)	\$ 11,133	\$ 106	119,411	\$ 3,266	\$ 99.84	\$ (72.49)
West Stan	211,743	\$ (15,445)	-	\$ -	\$ -	6,262	\$ 620	\$ (412)	\$ 20,954	\$ 199	218,005	\$ 5,915	\$ 99.87	\$ (72.74)
Westlands	2,035,982	\$ (148,512)	-	\$ -	\$ -	29,079	\$ 2,878	\$ (1,928)	\$ 201,476	\$ 1,916	2,065,061	\$ 55,830	\$ 99.89	\$ (72.85)
Westside	81,441	\$ (5,941)	-	\$ -	\$ -	(5,186)	\$ (513)	\$ 349	\$ 8,059	\$ 77	76,255	\$ 2,031	\$ 99.96	\$ (73.33)
Zone 7	9,106	\$ (664)	-	\$ -	\$ -	1,281	\$ 127	\$ (80)	\$ 901	\$ 9	10,388	\$ 292	\$ 99.78	\$ (71.69)
PWRPA	4,214,000	\$ (307,384)	-	\$ -	\$ -	0	\$ 0	\$ (0)	\$ 417,007	\$ 3,966	4,214,000	\$ 113,590	\$ 99.90	\$ (72.94)

March 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,028,150	\$ 64,820	\$ (17,615)	\$ 421	\$ 47,626	\$ 63.45	\$ (17.13)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	160,607	\$ 10,125	\$ (2,752)	\$ 66	\$ 7,440	\$ 63.45	\$ (17.13)
Glenn-Colusa	84,969	\$ 5,357	\$ (1,456)	\$ 35	\$ 3,936	\$ 63.45	\$ (17.13)
James	21,611	\$ 1,362	\$ (370)	\$ 9	\$ 1,001	\$ 63.45	\$ (17.13)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	30,244	\$ 1,907	\$ (518)	\$ 12	\$ 1,401	\$ 63.45	\$ (17.13)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	107,491	\$ 6,777	\$ (1,842)	\$ 44	\$ 4,979	\$ 63.45	\$ (17.13)
Sonoma	280,860	\$ 17,707	\$ (4,812)	\$ 115	\$ 13,010	\$ 63.45	\$ (17.13)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	927,041	\$ 58,445	\$ (15,883)	\$ 380	\$ 42,942	\$ 63.45	\$ (17.13)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	40,272	\$ 2,539	\$ (690)	\$ 17	\$ 1,865	\$ 63.45	\$ (17.13)
PWRPA	2,681,245	\$ 169,039	\$ (45,938)	\$ 1,099	\$ 124,200	\$ 63.45	\$ (17.13)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	836,532	\$ 50,127	\$ (17,777)	\$ 832	\$ 33,182	\$ 60.92	\$ (21.25)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	71,696	\$ 4,296	\$ (1,524)	\$ 71	\$ 2,844	\$ 60.92	\$ (21.25)
James	23,899	\$ 1,432	\$ (508)	\$ 24	\$ 948	\$ 60.92	\$ (21.25)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	23,899	\$ 1,432	\$ (508)	\$ 24	\$ 948	\$ 60.92	\$ (21.25)
RD108	59,760	\$ 3,581	\$ (1,270)	\$ 59	\$ 2,370	\$ 60.92	\$ (21.25)
Santa Clara	179,253	\$ 10,741	\$ (3,809)	\$ 178	\$ 7,110	\$ 60.92	\$ (21.25)
Sonoma	669,241	\$ 40,103	\$ (14,222)	\$ 665	\$ 26,546	\$ 60.92	\$ (21.25)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	717,039	\$ 42,967	\$ (15,237)	\$ 713	\$ 28,442	\$ 60.92	\$ (21.25)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	47,797	\$ 2,864	\$ (1,016)	\$ 48	\$ 1,896	\$ 60.92	\$ (21.25)
PWRPA	2,629,116	\$ 157,543	\$ (55,870)	\$ 2,614	\$ 104,287	\$ 60.92	\$ (21.25)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,780,340	\$ 32,525	\$ (34,833)	\$ 2,771	8,444	\$ -	\$ (3,239)	\$ 801	1,788,784	\$ (1,975)	\$ 20.18	\$ (21.28)
Banta-Carbona	395,631	\$ 7,228	\$ (7,741)	\$ 616	16,889	\$ -	\$ (6,479)	\$ 1,601	412,520	\$ (4,775)	\$ 22.89	\$ (34.47)
Cawelo	820,934	\$ 14,998	\$ (16,062)	\$ 1,278	16,044	\$ -	\$ (6,155)	\$ 1,521	836,979	\$ (4,420)	\$ 21.26	\$ (26.54)
Glenn-Colusa	148,362	\$ 2,710	\$ (2,903)	\$ 231	-	\$ -	\$ -	\$ -	148,362	\$ 39	\$ 19.83	\$ (19.57)
James	49,454	\$ 903	\$ (968)	\$ 77	-	\$ -	\$ -	\$ -	49,454	\$ 13	\$ 19.83	\$ (19.57)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	49,454	\$ 903	\$ (968)	\$ 77	-	\$ -	\$ -	\$ -	49,454	\$ 13	\$ 19.83	\$ (19.57)
RD108	59,345	\$ 1,084	\$ (1,161)	\$ 92	2,111	\$ -	\$ (810)	\$ 200	61,456	\$ (594)	\$ 22.40	\$ (32.07)
Santa Clara	296,723	\$ 5,421	\$ (5,805)	\$ 462	4,222	\$ -	\$ (1,620)	\$ 400	300,945	\$ (1,142)	\$ 20.88	\$ (24.67)
Sonoma	197,816	\$ 3,614	\$ (3,870)	\$ 308	-	\$ -	\$ -	\$ -	197,816	\$ 52	\$ 19.83	\$ (19.57)
West Stan	395,631	\$ 7,228	\$ (7,741)	\$ 616	8,444	\$ -	\$ (3,239)	\$ 801	404,075	\$ (2,336)	\$ 21.39	\$ (27.17)
Westlands	791,262	\$ 14,456	\$ (15,481)	\$ 1,232	27,022	\$ -	\$ (10,366)	\$ 2,562	818,284	\$ (7,598)	\$ 22.30	\$ (31.59)
Westside	59,345	\$ 1,084	\$ (1,161)	\$ 92	1,267	\$ -	\$ (486)	\$ 120	60,611	\$ (350)	\$ 21.39	\$ (27.17)
Zone 7	98,908	\$ 1,807	\$ (1,935)	\$ 154	-	\$ -	\$ -	\$ -	98,908	\$ 26	\$ 19.83	\$ (19.57)
PWRPA	5,143,204	\$ 93,962	\$ (100,628)	\$ 8,005	84,443	\$ -	\$ (32,394)	\$ 8,005	5,227,647	\$ (23,049)	\$ 21.04	\$ (25.45)

March 2022

Specific Projects: Lodi Energy Center								
Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ 15,701	\$ 11,719	\$ -	\$ 526	\$ 27,946	\$ -	\$ -
Banta-Carbona	-	\$ 5,905	\$ 4,407	\$ -	\$ 198	\$ 10,510	\$ -	\$ -
Cawelo	-	\$ 4,970	\$ 3,709	\$ -	\$ 167	\$ 8,845	\$ -	\$ -
Glenn-Colusa	-	\$ 3,332	\$ 2,487	\$ -	\$ 112	\$ 5,931	\$ -	\$ -
James	-	\$ 2,635	\$ 1,967	\$ -	\$ 88	\$ 4,690	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ 2,782	\$ 2,076	\$ -	\$ 93	\$ 4,952	\$ -	\$ -
RD108	-	\$ 1,478	\$ 1,103	\$ -	\$ 50	\$ 2,631	\$ -	\$ -
Santa Clara	-	\$ 4,247	\$ 3,170	\$ -	\$ 142	\$ 7,559	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ 3,321	\$ 2,479	\$ -	\$ 111	\$ 5,911	\$ -	\$ -
Westlands	-	\$ 19,211	\$ 14,338	\$ -	\$ 644	\$ 34,193	\$ -	\$ -
Westside	-	\$ 2,783	\$ 2,077	\$ -	\$ 93	\$ 4,953	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ 66,366	\$ 49,533	\$ -	\$ 2,224	\$ 118,122	\$ -	\$ -

Supplemental: Fixed Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc					
Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 2,410	\$ 1,411	\$ 1,551	\$ 4,213	\$ 13,904
Banta-Carbona	\$ 1,022	\$ 598	\$ 586	\$ 1,592	\$ 5,255
Cawelo	\$ 263	\$ 154	\$ 157	\$ 428	\$ 1,411
Glenn-Colusa	\$ 41	\$ 24	\$ 50	\$ 135	\$ 446
James	\$ 158	\$ 92	\$ 92	\$ 249	\$ 822
Lower Tule	\$ 119	\$ 70	\$ 72	\$ 195	\$ 642
Princeton	\$ 0	\$ 0	\$ 1	\$ 4	\$ 13
RD108	\$ 58	\$ 34	\$ 36	\$ 98	\$ 325
Santa Clara	\$ 760	\$ 445	\$ 426	\$ 1,156	\$ 3,816
Sonoma	\$ 1,152	\$ 675	\$ 649	\$ 1,764	\$ 5,821
West Stan	\$ 1,216	\$ 712	\$ 704	\$ 1,912	\$ 6,311
Westlands	\$ 6,104	\$ 3,575	\$ 3,732	\$ 10,137	\$ 33,453
Westside	\$ 68	\$ 40	\$ 53	\$ 143	\$ 471
Zone 7	\$ 183	\$ 107	\$ 102	\$ 276	\$ 911
PWRPA	\$ 13,554	\$ 7,938	\$ 8,212	\$ 22,302	\$ 73,600

Supplemental: Other				
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	\$ -	\$ -	\$ -	\$ -
Cawelo	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	\$ -	\$ -	\$ -	\$ -
James	\$ -	\$ -	\$ -	\$ -
Lower Tule	\$ -	\$ -	\$ -	\$ -
Princeton	\$ -	\$ -	\$ -	\$ -
RD108	\$ -	\$ -	\$ -	\$ -
Santa Clara	\$ 9,811	\$ -	\$ -	\$ 9,811
Sonoma	\$ -	\$ -	\$ -	\$ -
West Stan	\$ -	\$ -	\$ -	\$ -
Westlands	\$ -	\$ -	\$ -	\$ -
Westside	\$ -	\$ -	\$ -	\$ -
Zone 7	\$ -	\$ -	\$ -	\$ -
PWRPA	\$ 9,811	\$ -	\$ -	\$ 9,811

Power Water Resources Pooling Authority

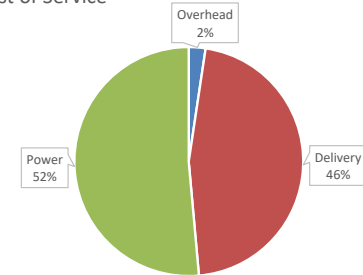
April 2022

Operations Reconciliation Summary: April 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Power					Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt	Load Cost	District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	14,263,863	\$ 665	\$ 5,621	\$ 21,071	\$ 323,784	\$ 484,180	\$ 33,350	\$ 940,111	\$ -	\$ 918	\$ 113,571	\$ 45,302	\$ 1,968,572
Banta-Carbona	2,884,326	\$ 665	\$ 86	\$ 5,823	\$ -	\$ 97,907	\$ 6,793	\$ 183,695	\$ -	\$ 147	\$ 8,208	\$ -	\$ 303,324
Cawelo	758,747	\$ 665	\$ 432	\$ 5,004	\$ 55,258	\$ 25,755	\$ 1,770	\$ 48,024	\$ -	\$ 66	\$ 15,084	\$ 890	\$ 152,948
Glenn-Colusa	133,996	\$ 665	\$ 1,124	\$ 4,534	\$ 13,025	\$ 4,541	\$ 266	\$ 8,633	\$ -	\$ (207)	\$ 13,332	\$ 6,624	\$ 52,536
James	499,797	\$ 665	\$ 173	\$ 3,481	\$ 8,789	\$ 16,965	\$ 1,176	\$ 31,362	\$ -	\$ 29	\$ 6,911	\$ 353	\$ 69,903
Lower Tule	545,821	\$ 665	\$ 86	\$ 4,268	\$ 26,168	\$ 18,528	\$ 1,285	\$ 35,015	\$ -	\$ (87)	\$ -	\$ 9,972	\$ 95,900
Princeton	7,620	\$ 665	\$ 86	\$ 3,348	\$ 10,986	\$ 125	\$ 15	\$ 481	\$ -	\$ (74)	\$ 7,514	\$ 1,287	\$ 24,433
RD108	121,550	\$ 665	\$ 259	\$ 3,564	\$ 16,627	\$ 4,126	\$ 277	\$ 7,873	\$ -	\$ 18	\$ 5,159	\$ 583	\$ 39,150
Santa Clara	1,584,090	\$ 665	\$ 778	\$ 6,132	\$ 58,020	\$ 36,338	\$ 3,742	\$ 101,704	\$ -	\$ 66	\$ 20,466	\$ 18,128	\$ 246,039
Sonoma	3,053,961	\$ 665	\$ 1,729	\$ 8,404	\$ 49,737	\$ 103,665	\$ 7,216	\$ 192,316	\$ 985	\$ 128	\$ 42,906	\$ 20,005	\$ 427,756
West Stan	4,017,282	\$ 665	\$ 86	\$ 5,977	\$ 47,240	\$ 66,009	\$ 9,460	\$ 255,946	\$ -	\$ 211	\$ 5,702	\$ 3,051	\$ 394,347
Westlands	24,595,257	\$ 665	\$ 44,964	\$ 33,088	\$ 1,024,231	\$ 834,874	\$ 57,539	\$ 1,591,248	\$ (24,599)	\$ 1,690	\$ 101,001	\$ 17,139	\$ 3,681,839
Westside	250,640	\$ 665	\$ 86	\$ 3,337	\$ 7,306	\$ 8,508	\$ 555	\$ 16,388	\$ -	\$ 59	\$ 4,950	\$ -	\$ 41,853
Zone 7	578,550	\$ 665	\$ 432	\$ 3,905	\$ 40,304	\$ 10,446	\$ 1,373	\$ 37,092	\$ -	\$ 16	\$ 4,262	\$ 6,126	\$ 104,620
TOTAL	53,295,497	\$ 9,303	\$ 55,946	\$ 111,936	\$ 1,681,474	\$ 1,711,966	\$ 124,816	\$ 3,449,887	\$ (23,615)	\$ 2,980	\$ 349,067	\$ 129,460	\$ 7,603,220
Percent of total cost		0.12%	0.74%	1.47%	22.12%	22.52%	1.64%	45.37%	-0.31%	0.04%	4.59%	1.70%	100.00%

Summary of Costs as a Rate per Metered Energy (Cents per kWh)

Participant	Metered Energy (kWh)	Cents per kWh							
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate	
Arvin-Edison	13,796,269	\$ 0.20	\$ 2.35	\$ 3.51	\$ 0.24	\$ 6.81	\$ 1.16	\$ 14.27	
Banta-Carbona	2,884,326	\$ 0.23	\$ -	\$ 3.39	\$ 0.24	\$ 6.37	\$ 0.29	\$ 10.52	
Cawelo	741,874	\$ 0.82	\$ 7.45	\$ 3.47	\$ 0.24	\$ 6.47	\$ 2.16	\$ 20.62	
Glenn-Colusa	133,955	\$ 4.72	\$ 9.72	\$ 3.39	\$ 0.20	\$ 6.44	\$ 14.74	\$ 39.22	
James	491,232	\$ 0.88	\$ 1.79	\$ 3.45	\$ 0.24	\$ 6.38	\$ 1.48	\$ 14.23	
Lower Tule	511,912	\$ 0.98	\$ 5.11	\$ 3.62	\$ 0.25	\$ 6.84	\$ 1.93	\$ 18.73	
Princeton	7,489	\$ 54.73	\$ 146.70	\$ 1.67	\$ 0.20	\$ 6.42	\$ 116.55	\$ 326.27	
RD108	117,972	\$ 3.80	\$ 14.09	\$ 3.50	\$ 0.23	\$ 6.67	\$ 4.88	\$ 33.19	
Santa Clara	1,555,220	\$ 0.49	\$ 3.73	\$ 2.34	\$ 0.24	\$ 6.54	\$ 2.49	\$ 15.82	
Sonoma	3,020,702	\$ 0.36	\$ 1.65	\$ 3.43	\$ 0.24	\$ 6.37	\$ 2.12	\$ 14.16	
West Stan	3,948,239	\$ 0.17	\$ 1.20	\$ 1.67	\$ 0.24	\$ 6.48	\$ 0.23	\$ 9.99	
Westlands	23,067,225	\$ 0.34	\$ 4.44	\$ 3.62	\$ 0.25	\$ 6.90	\$ 0.41	\$ 15.96	
Westside	246,312	\$ 1.66	\$ 2.97	\$ 3.45	\$ 0.23	\$ 6.65	\$ 2.03	\$ 16.99	
Zone 7	568,573	\$ 0.88	\$ 7.09	\$ 1.84	\$ 0.24	\$ 6.52	\$ 1.83	\$ 18.40	
PWRPA	51,091,300	\$ 0.35	\$ 3.29	\$ 3.35	\$ 0.24	\$ 6.75	\$ 0.90	\$ 14.88	

Cost of Service



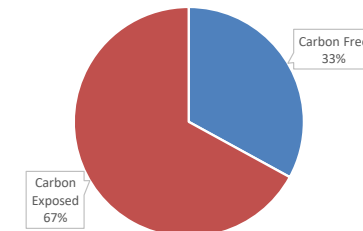
Summary of Energy Portfolio

Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	14,263,863	1,544,402	4,101,327	-	-	5,645,729	8,618,133	40%
Banta-Carbona	2,884,326	193,017	521,777	-	-	714,794	2,169,532	25%
Cawelo	758,747	91,716	1,201,800	-	-	1,293,516	(534,770)	170%
Glenn-Colusa	133,996	129,420	340,487	-	-	469,907	(335,911)	351%
James	499,797	36,879	105,818	-	-	142,698	357,099	29%
Lower Tule	545,821	38,680	-	-	-	38,680	507,141	7%
Princeton	7,620	7,620	115,694	-	-	123,313	(115,694)	1618%
RD108	121,550	30,586	134,480	-	-	165,066	(43,516)	136%
Santa Clara	1,584,090	79,512	658,496	-	-	738,007	846,083	47%
Sonoma	3,053,961	145,924	1,199,030	-	-	1,344,954	1,709,007	44%
West Stan	4,017,282	271,418	493,071	-	-	764,489	3,252,794	19%
Westlands	24,595,257	2,969,479	2,772,647	-	-	5,742,126	18,853,130	23%
Westside	250,640	101,971	73,961	-	-	175,931	74,708	70%
Zone 7	578,550	12,375	208,263	-	-	220,639	357,911	38%
PWRPA	53,295,497	5,653,000	11,926,850	-	-	17,579,850	35,715,647	33%

Percent of DLF Adjusted Energy:

11% 22% 0% 0% 33%

Portfolio Content



April 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	13,796,269	14,263,863	3.4%	35,986	\$ 940,111	\$ 65.91
Banta-Carbona	2,884,326	2,884,326	0.0%	4,954	\$ 183,695	\$ 63.69
Cawelo	741,874	758,747	2.3%	3,336	\$ 48,024	\$ 63.29
Glenn-Colusa	133,955	133,996	0.0%	308	\$ 8,633	\$ 64.42
James	491,232	499,797	1.7%	943	\$ 31,362	\$ 62.75
Lower Tule	511,912	545,821	6.6%	2,258	\$ 35,015	\$ 64.15
Princeton	7,489	7,620	1.8%	14	\$ 481	\$ 63.08
RD108	117,972	121,550	3.0%	628	\$ 7,873	\$ 64.77
Santa Clara	1,555,220	1,584,090	1.9%	4,071	\$ 101,704	\$ 64.20
Sonoma	3,020,702	3,053,961	1.1%	7,094	\$ 192,316	\$ 62.97
West Stan	3,948,239	4,017,282	1.7%	6,244	\$ 255,946	\$ 63.71
Westlands	23,067,225	24,595,257	6.6%	58,140	\$ 1,591,248	\$ 64.70
Westside	246,312	250,640	1.8%	598	\$ 16,388	\$ 65.38
Zone 7	568,573	578,550	1.8%	1,576	\$ 37,092	\$ 64.11
PWRPA	51,091,300	53,295,497	4.3%	126,150	\$ 3,449,887	\$ 64.73

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -		\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -		\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -		\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -		\$ -	\$ -	\$ -
James	-	\$ -	\$ -		\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -		\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -		\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -		\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -		\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 985	\$ 985	\$ -	\$ -
West Stan	-	\$ -	\$ -		\$ -	\$ -	\$ -
Westlands	390,000	\$ -	\$ (26,102)	\$ 1,503	\$ (24,599)	\$ 3.85	\$ (66.93)
Westside	-	\$ -	\$ -		\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -		\$ -	\$ -	\$ -
PWRPA	390,000	\$ -	\$ (26,102)	\$ 2,487	\$ (23,615)	\$ 6.38	\$ (66.93)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,126,503	\$ (103,422)	399,175	\$ (42,216)	\$ (5,436)	18,725	\$ 1,896	\$ (1,776)	\$ 150,977	\$ 894	1,544,402	\$ 918	\$ 99.56	\$ (98.97)
Banta-Carbona	138,935	\$ (12,755)	49,231	\$ (5,207)	\$ (679)	4,851	\$ 488	\$ (430)	\$ 18,620	\$ 110	193,017	\$ 147	\$ 99.57	\$ (98.81)
Cawelo	66,721	\$ (6,125)	23,642	\$ (2,500)	\$ (323)	1,353	\$ 136	\$ (116)	\$ 8,942	\$ 53	91,716	\$ 66	\$ 99.56	\$ (98.84)
Glenn-Colusa	125,530	\$ (11,525)	44,481	\$ (4,704)	\$ (456)	(40,591)	\$ (4,091)	\$ 3,645	\$ 16,824	\$ 100	129,420	\$ (207)	\$ 99.15	\$ (100.75)
James	26,580	\$ (2,440)	9,419	\$ (996)	\$ (130)	880	\$ 88	\$ (77)	\$ 3,562	\$ 21	36,879	\$ 29	\$ 99.56	\$ (98.78)
Lower Tule	34,321	\$ (3,151)	12,162	\$ (1,286)	\$ (136)	(7,803)	\$ (771)	\$ 630	\$ 4,600	\$ 27	38,680	\$ (87)	\$ 99.71	\$ (101.94)
Princeton	28,161	\$ (2,585)	9,979	\$ (1,055)	\$ (27)	(30,520)	\$ (3,093)	\$ 2,890	\$ 3,774	\$ 22	7,620	\$ (74)	\$ 92.36	\$ (102.07)
RD108	22,497	\$ (2,065)	7,972	\$ (843)	\$ (108)	118	\$ 12	\$ (11)	\$ 3,015	\$ 18	30,586	\$ 18	\$ 99.55	\$ (98.97)
Santa Clara	56,732	\$ (5,208)	20,103	\$ (2,126)	\$ (280)	2,676	\$ 269	\$ (238)	\$ 7,603	\$ 45	79,512	\$ 66	\$ 99.58	\$ (98.75)
Sonoma	103,749	\$ (9,525)	36,763	\$ (3,888)	\$ (514)	5,412	\$ 544	\$ (476)	\$ 13,905	\$ 82	145,924	\$ 128	\$ 99.58	\$ (98.70)
West Stan	195,262	\$ (17,927)	69,191	\$ (7,318)	\$ (955)	6,966	\$ 700	\$ (614)	\$ 26,170	\$ 155	271,418	\$ 211	\$ 99.57	\$ (98.79)
Westlands	1,877,510	\$ (172,370)	665,294	\$ (70,360)	\$ (9,080)	36,676	\$ 3,695	\$ (3,316)	\$ 251,630	\$ 1,490	2,579,479	\$ 1,690	\$ 99.56	\$ (98.91)
Westside	75,102	\$ (6,895)	26,612	\$ (2,814)	\$ (359)	256	\$ 26	\$ (24)	\$ 10,065	\$ 60	101,971	\$ 59	\$ 99.55	\$ (98.97)
Zone 7	8,397	\$ (771)	2,976	\$ (315)	\$ (44)	1,002	\$ 100	\$ (88)	\$ 1,125	\$ 7	12,375	\$ 16	\$ 99.60	\$ (98.35)
PWRPA	3,886,000	\$ (356,764)	1,377,000	\$ (145,629)	\$ (18,525)	0	\$ 0	\$ (0)	\$ 520,814	\$ 3,085	5,263,000	\$ 2,980	\$ 99.54	\$ (98.98)

April 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,176,001	\$ 74,119	\$ (34,530)	\$ 899	\$ 40,488	\$ 63.79	\$ (29.36)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	183,702	\$ 11,578	\$ (5,394)	\$ 140	\$ 6,325	\$ 63.79	\$ (29.36)
Glenn-Colusa	97,187	\$ 6,125	\$ (2,854)	\$ 74	\$ 3,346	\$ 63.79	\$ (29.36)
James	24,719	\$ 1,558	\$ (726)	\$ 19	\$ 851	\$ 63.79	\$ (29.36)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	34,594	\$ 2,180	\$ (1,016)	\$ 26	\$ 1,191	\$ 63.79	\$ (29.36)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	122,949	\$ 7,749	\$ (3,610)	\$ 94	\$ 4,233	\$ 63.79	\$ (29.36)
Sonoma	321,249	\$ 20,247	\$ (9,433)	\$ 246	\$ 11,060	\$ 63.79	\$ (29.36)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	1,060,351	\$ 66,830	\$ (31,134)	\$ 811	\$ 36,507	\$ 63.79	\$ (29.36)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	46,064	\$ 2,903	\$ (1,353)	\$ 35	\$ 1,586	\$ 63.79	\$ (29.36)
PWRPA	3,066,815	\$ 193,291	\$ (90,048)	\$ 2,344	\$ 105,587	\$ 63.79	\$ (29.36)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	806,979	\$ 57,366	\$ (19,456)	\$ 724	\$ 38,635	\$ 71.99	\$ (24.11)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	69,163	\$ 4,917	\$ (1,667)	\$ 62	\$ 3,311	\$ 71.99	\$ (24.11)
James	23,054	\$ 1,639	\$ (556)	\$ 21	\$ 1,104	\$ 71.99	\$ (24.11)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	23,054	\$ 1,639	\$ (556)	\$ 21	\$ 1,104	\$ 71.99	\$ (24.11)
RD108	57,649	\$ 4,098	\$ (1,390)	\$ 52	\$ 2,760	\$ 71.99	\$ (24.11)
Santa Clara	172,921	\$ 12,293	\$ (4,169)	\$ 155	\$ 8,279	\$ 71.99	\$ (24.11)
Sonoma	645,599	\$ 45,894	\$ (15,565)	\$ 579	\$ 30,909	\$ 71.99	\$ (24.11)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	691,707	\$ 49,172	\$ (16,677)	\$ 621	\$ 33,116	\$ 71.99	\$ (24.11)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	46,109	\$ 3,278	\$ (1,112)	\$ 41	\$ 2,208	\$ 71.99	\$ (24.11)
PWRPA	2,536,235	\$ 180,296	\$ (61,147)	\$ 2,277	\$ 121,425	\$ 71.99	\$ (24.11)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	2,089,641	\$ 60,430	\$ (53,844)	\$ 1,850	28,706	\$ 6,035	\$ (8,694)	\$ 534	2,118,347	\$ 6,311	\$ 32.50	\$ (29.52)
Banta-Carbona	464,365	\$ 13,429	\$ (11,965)	\$ 411	57,412	\$ 12,070	\$ (17,387)	\$ 1,069	521,777	\$ (2,374)	\$ 51.71	\$ (56.26)
Cawelo	963,557	\$ 27,865	\$ (24,828)	\$ 853	54,541	\$ 11,467	\$ (16,518)	\$ 1,015	1,018,098	\$ (146)	\$ 40.47	\$ (40.61)
Glenn-Colusa	174,137	\$ 5,036	\$ (4,487)	\$ 154	-	\$ -	\$ -	\$ -	174,137	\$ 703	\$ 29.80	\$ (25.77)
James	58,046	\$ 1,679	\$ (1,496)	\$ 51	-	\$ -	\$ -	\$ -	58,046	\$ 234	\$ 29.80	\$ (25.77)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	58,046	\$ 1,679	\$ (1,496)	\$ 51	-	\$ -	\$ -	\$ -	58,046	\$ 234	\$ 29.80	\$ (25.77)
RD108	69,655	\$ 2,014	\$ (1,795)	\$ 62	7,177	\$ 1,509	\$ (2,173)	\$ 134	76,831	\$ (250)	\$ 48.40	\$ (51.65)
Santa Clara	348,273	\$ 10,072	\$ (8,974)	\$ 308	14,353	\$ 3,018	\$ (4,347)	\$ 267	362,626	\$ 344	\$ 37.68	\$ (36.73)
Sonoma	232,182	\$ 6,714	\$ (5,983)	\$ 206	-	\$ -	\$ -	\$ -	232,182	\$ 937	\$ 29.80	\$ (25.77)
West Stan	464,365	\$ 13,429	\$ (11,965)	\$ 411	28,706	\$ 6,035	\$ (8,694)	\$ 534	493,071	\$ (250)	\$ 41.39	\$ (41.90)
Westlands	928,729	\$ 26,858	\$ (23,931)	\$ 822	91,859	\$ 19,313	\$ (27,820)	\$ 1,710	1,020,588	\$ (3,048)	\$ 47.72	\$ (50.71)
Westside	69,655	\$ 2,014	\$ (1,795)	\$ 62	4,306	\$ 905	\$ (1,304)	\$ 80	73,961	\$ (37)	\$ 41.39	\$ (41.90)
Zone 7	116,091	\$ 3,357	\$ (2,991)	\$ 103	-	\$ -	\$ -	\$ -	116,091	\$ 469	\$ 29.80	\$ (25.77)
PWRPA	6,036,740	\$ 174,574	\$ (155,549)	\$ 5,344	287,060	\$ 60,352	\$ (86,937)	\$ 5,344	6,323,800	\$ 3,127	\$ 38.84	\$ (38.35)

April 2022

Specific Projects: Lodi Energy Center								
Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ 15,701	\$ 11,718	\$ (0)	\$ 717	\$ 28,137	\$ -	\$ -
Banta-Carbona	-	\$ 5,905	\$ 4,407	\$ (0)	\$ 270	\$ 10,582	\$ -	\$ -
Cawelo	-	\$ 4,970	\$ 3,709	\$ (0)	\$ 227	\$ 8,906	\$ -	\$ -
Glenn-Colusa	-	\$ 3,332	\$ 2,487	\$ (0)	\$ 152	\$ 5,971	\$ -	\$ -
James	-	\$ 2,635	\$ 1,966	\$ (0)	\$ 120	\$ 4,722	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ 2,782	\$ 2,076	\$ (0)	\$ 127	\$ 4,985	\$ -	\$ -
RD108	-	\$ 1,478	\$ 1,103	\$ (0)	\$ 68	\$ 2,649	\$ -	\$ -
Santa Clara	-	\$ 4,247	\$ 3,170	\$ (0)	\$ 194	\$ 7,611	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ 3,321	\$ 2,479	\$ (0)	\$ 152	\$ 5,952	\$ -	\$ -
Westlands	-	\$ 19,211	\$ 14,338	\$ (0)	\$ 878	\$ 34,426	\$ -	\$ -
Westside	-	\$ 2,783	\$ 2,077	\$ (0)	\$ 127	\$ 4,987	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ 66,366	\$ 49,531	\$ (1)	\$ 3,032	\$ 118,928	\$ -	\$ -

Supplemental: Fixed Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc					
Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 3,711	\$ 1,523	\$ 5,006	\$ 7,648	\$ 15,461
Banta-Carbona	\$ 785	\$ 322	\$ 1,012	\$ 1,547	\$ 3,126
Cawelo	\$ 195	\$ 80	\$ 266	\$ 407	\$ 822
Glenn-Colusa	\$ 1	\$ 1	\$ 47	\$ 72	\$ 145
James	\$ 135	\$ 55	\$ 175	\$ 268	\$ 542
Lower Tule	\$ 148	\$ 61	\$ 192	\$ 293	\$ 592
Princeton	\$ 0	\$ 0	\$ 3	\$ 4	\$ 8
RD108	\$ 27	\$ 11	\$ 43	\$ 65	\$ 132
Santa Clara	\$ 439	\$ 180	\$ 556	\$ 849	\$ 1,717
Sonoma	\$ 849	\$ 348	\$ 1,072	\$ 1,638	\$ 3,310
West Stan	\$ 1,093	\$ 449	\$ 1,410	\$ 2,154	\$ 4,354
Westlands	\$ 6,424	\$ 2,636	\$ 8,632	\$ 13,188	\$ 26,659
Westside	\$ 43	\$ 18	\$ 88	\$ 134	\$ 272
Zone 7	\$ 165	\$ 68	\$ 203	\$ 310	\$ 627
PWRPA	\$ 14,015	\$ 5,752	\$ 18,705	\$ 28,577	\$ 57,767

Supplemental: Other				
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ 45,302		\$ 45,302
Banta-Carbona	\$ -	\$ -		\$ -
Cawelo	\$ -	\$ 890		\$ 890
Glenn-Colusa	\$ -	\$ 6,624		\$ 6,624
James	\$ -	\$ 353		\$ 353
Lower Tule	\$ -	\$ 9,972		\$ 9,972
Princeton	\$ -	\$ 1,287		\$ 1,287
RD108	\$ -	\$ 583		\$ 583
Santa Clara	\$ 7,560	\$ 10,568		\$ 18,128
Sonoma	\$ -	\$ 20,005		\$ 20,005
West Stan	\$ -	\$ 3,051		\$ 3,051
Westlands	\$ -	\$ 17,139		\$ 17,139
Westside	\$ -	\$ -		\$ -
Zone 7	\$ -	\$ 6,126		\$ 6,126
PWRPA	\$ 7,560	\$ 121,900	\$ -	\$ 129,460

Power Water Resources Pooling Authority

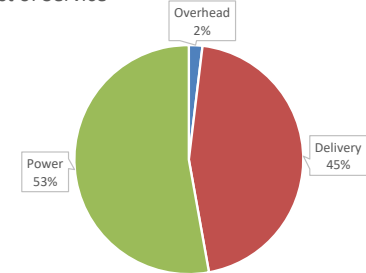
May 2022

Operations Reconciliation Summary: May 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Power					Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt	Load Cost	District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	17,233,387	\$ 597	\$ 5,854	\$ 21,236	\$ 442,084	\$ 585,378	\$ 60,889	\$ 1,170,828	\$ -	\$ (10,909)	\$ 123,188	\$ 44,274	\$ 2,443,420
Banta-Carbona	2,754,942	\$ 597	\$ 90	\$ 6,022	\$ -	\$ 93,579	\$ 9,769	\$ 179,533	\$ -	\$ (1,340)	\$ 6,434	\$ -	\$ 294,684
Cawelo	977,713	\$ 597	\$ 450	\$ 5,348	\$ 28,717	\$ 33,211	\$ 3,452	\$ 68,132	\$ -	\$ (645)	\$ 14,792	\$ 2,098	\$ 156,152
Glenn-Colusa	218,028	\$ 597	\$ 1,171	\$ 4,731	\$ 4,122	\$ 7,398	\$ 694	\$ 14,677	\$ -	\$ (1,269)	\$ 14,233	\$ 5,511	\$ 51,867
James	657,233	\$ 597	\$ 180	\$ 3,748	\$ 15,050	\$ 22,325	\$ 2,336	\$ 43,509	\$ -	\$ (257)	\$ 7,184	\$ 833	\$ 95,507
Lower Tule	766,261	\$ 597	\$ 90	\$ 4,634	\$ 24,704	\$ 26,028	\$ 2,722	\$ 53,691	\$ -	\$ (322)	\$ -	\$ 12,770	\$ 124,913
Princeton	9,400	\$ 597	\$ 90	\$ 3,629	\$ 196	\$ 155	\$ 30	\$ 627	\$ -	\$ (179)	\$ 7,792	\$ 1,771	\$ 14,709
RD108	220,886	\$ 597	\$ 270	\$ 3,845	\$ 10,106	\$ 7,503	\$ 774	\$ 14,645	\$ -	\$ (217)	\$ 5,342	\$ 743	\$ 43,608
Santa Clara	1,878,363	\$ 597	\$ 811	\$ 6,451	\$ 58,062	\$ 44,619	\$ 6,693	\$ 125,607	\$ -	\$ (548)	\$ 21,787	\$ 25,807	\$ 289,886
Sonoma	3,857,652	\$ 597	\$ 1,801	\$ 8,727	\$ 51,638	\$ 131,035	\$ 13,756	\$ 254,509	\$ 985	\$ (1,003)	\$ 48,018	\$ 25,681	\$ 535,745
West Stan	3,055,360	\$ 597	\$ 90	\$ 5,883	\$ 66,359	\$ 50,274	\$ 10,799	\$ 199,210	\$ -	\$ (1,881)	\$ 5,371	\$ 1,510	\$ 338,213
Westlands	33,487,562	\$ 597	\$ 46,836	\$ 27,232	\$ 1,033,104	\$ 1,137,494	\$ 118,582	\$ 2,241,252	\$ (43,266)	\$ (18,135)	\$ 103,813	\$ -	\$ 4,647,511
Westside	387,159	\$ 597	\$ 90	\$ 3,627	\$ 11,187	\$ 13,151	\$ 1,326	\$ 26,198	\$ -	\$ (725)	\$ 4,867	\$ -	\$ 60,318
Zone 7	815,089	\$ 597	\$ 450	\$ 4,172	\$ 22,155	\$ 14,552	\$ 2,918	\$ 54,283	\$ -	\$ (81)	\$ 4,883	\$ 8,755	\$ 112,684
TOTAL	66,319,033	\$ 8,363	\$ 58,275	\$ 109,285	\$ 1,767,485	\$ 2,166,700	\$ 234,739	\$ 4,446,702	\$ (42,281)	\$ (37,511)	\$ 367,706	\$ 129,753	\$ 9,209,215
Percent of total cost		0.09%	0.63%	1.19%	19.19%	23.53%	2.55%	48.29%	-0.46%	-0.41%	3.99%	1.41%	100.00%

Summary of Costs as a Rate per Metered Energy (Cents per kWh)

Participant	Metered Energy (kWh)	Cents per kWh							
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate	
Arvin-Edison	16,654,130	\$ 0.17	\$ 2.65	\$ 3.51	\$ 0.37	\$ 7.03	\$ 0.94	\$ 14.67	
Banta-Carbona	2,754,942	\$ 0.24	\$ -	\$ 3.40	\$ 0.35	\$ 6.52	\$ 0.18	\$ 10.70	
Cawelo	957,198	\$ 0.67	\$ 3.00	\$ 3.47	\$ 0.36	\$ 7.12	\$ 1.70	\$ 16.31	
Glenn-Colusa	217,570	\$ 2.99	\$ 1.89	\$ 3.40	\$ 0.32	\$ 6.75	\$ 8.49	\$ 23.84	
James	645,284	\$ 0.70	\$ 2.33	\$ 3.46	\$ 0.36	\$ 6.74	\$ 1.20	\$ 14.80	
Lower Tule	717,100	\$ 0.74	\$ 3.44	\$ 3.63	\$ 0.38	\$ 7.49	\$ 1.74	\$ 17.42	
Princeton	9,231	\$ 46.77	\$ 2.13	\$ 1.68	\$ 0.32	\$ 6.79	\$ 101.66	\$ 159.35	
RD108	214,388	\$ 2.20	\$ 4.71	\$ 3.50	\$ 0.36	\$ 6.83	\$ 2.74	\$ 20.34	
Santa Clara	1,842,421	\$ 0.43	\$ 3.15	\$ 2.42	\$ 0.36	\$ 6.82	\$ 2.55	\$ 15.73	
Sonoma	3,800,822	\$ 0.29	\$ 1.36	\$ 3.45	\$ 0.36	\$ 6.70	\$ 1.94	\$ 14.10	
West Stan	3,000,249	\$ 0.22	\$ 2.21	\$ 1.68	\$ 0.36	\$ 6.64	\$ 0.17	\$ 11.27	
Westlands	31,387,914	\$ 0.24	\$ 3.29	\$ 3.62	\$ 0.38	\$ 7.14	\$ 0.14	\$ 14.81	
Westside	380,070	\$ 1.14	\$ 2.94	\$ 3.46	\$ 0.35	\$ 6.89	\$ 1.09	\$ 15.87	
Zone 7	800,222	\$ 0.65	\$ 2.77	\$ 1.82	\$ 0.36	\$ 6.78	\$ 1.69	\$ 14.08	
PWRPA	63,381,539	\$ 0.28	\$ 2.79	\$ 3.42	\$ 0.37	\$ 7.02	\$ 0.66	\$ 14.53	

Cost of Service



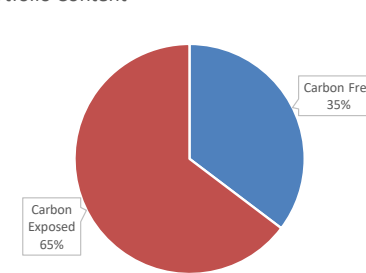
Summary of Energy Portfolio

Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	17,233,387	2,367,888	5,049,303	-	-	7,417,190	9,816,197	43%
Banta-Carbona	2,754,942	293,249	617,738	-	-	910,987	1,843,955	33%
Cawelo	977,713	140,255	1,443,958	-	-	1,584,213	(606,500)	162%
Glenn-Colusa	218,028	215,944	420,845	-	-	636,790	(418,762)	292%
James	657,233	56,335	131,655	-	-	187,990	469,243	29%
Lower Tule	766,261	70,619	-	-	-	70,619	695,642	9%
Princeton	9,400	9,400	142,752	-	-	152,151	(142,752)	1619%
RD108	220,886	47,088	170,646	-	-	217,735	3,151	99%
Santa Clara	1,878,363	121,023	818,656	-	-	939,680	938,683	50%
Sonoma	3,857,652	222,094	1,534,544	-	-	1,756,638	2,101,014	46%
West Stan	3,055,360	410,857	598,060	-	-	1,008,917	2,046,443	33%
Westlands	33,487,562	4,637,753	3,358,779	-	-	7,996,532	25,491,030	24%
Westside	387,159	156,678	89,709	-	-	246,387	140,772	64%
Zone 7	815,089	18,817	259,519	-	-	278,336	536,753	34%
PWRPA	66,319,033	8,768,000	14,636,165	-	-	23,404,165	42,914,868	35%

Percent of DLF Adjusted Energy:

13% 22% 0% 0% 35%

Portfolio Content



May 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	16,654,130	17,233,387	3.5%	37,032	\$ 1,170,828	\$ 67.94
Banta-Carbona	2,754,942	2,754,942	0.0%	4,757	\$ 179,533	\$ 65.17
Cawelo	957,198	977,713	2.1%	2,341	\$ 68,132	\$ 69.69
Glenn-Colusa	217,570	218,028	0.2%	630	\$ 14,677	\$ 67.32
James	645,284	657,233	1.9%	1,227	\$ 43,509	\$ 66.20
Lower Tule	717,100	766,261	6.9%	2,014	\$ 53,691	\$ 70.07
Princeton	9,231	9,400	1.8%	17	\$ 627	\$ 66.69
RD108	214,388	220,886	3.0%	790	\$ 14,645	\$ 66.30
Santa Clara	1,842,421	1,878,363	2.0%	4,255	\$ 125,607	\$ 66.87
Sonoma	3,800,822	3,857,652	1.5%	8,449	\$ 254,509	\$ 65.98
West Stan	3,000,249	3,055,360	1.8%	5,410	\$ 199,210	\$ 65.20
Westlands	31,387,914	33,487,562	6.7%	64,908	\$ 2,241,252	\$ 66.93
Westside	380,070	387,159	1.9%	912	\$ 26,198	\$ 67.67
Zone 7	800,222	815,089	1.9%	1,464	\$ 54,283	\$ 66.60
PWRPA	63,381,539	66,319,033	4.6%	134,205	\$ 4,446,702	\$ 67.05

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 985	\$ 985	\$ -	\$ -
West Stan	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Westlands	682,000	-	\$ (44,769)	\$ 1,503	\$ (43,266)	\$ 2.20	\$ (65.64)
Westside	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
PWRPA	682,000	\$ -	\$ (44,769)	\$ 2,487	\$ (42,281)	\$ 3.65	\$ (65.64)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,253,763	\$ (116,187)	1,090,267	\$ (117,172)	\$ (11,151)	23,858	\$ 2,435	\$ (2,358)	\$ 231,959	\$ 1,565	2,367,888	\$ (10,909)	\$ 99.65	\$ (104.26)
Banta-Carbona	154,630	\$ (14,330)	134,466	\$ (14,451)	\$ (1,381)	4,152	\$ 419	\$ (398)	\$ 28,608	\$ 193	293,249	\$ (1,340)	\$ 99.64	\$ (104.21)
Cawelo	74,258	\$ (6,882)	64,575	\$ (6,940)	\$ (661)	1,422	\$ 145	\$ (139)	\$ 13,739	\$ 93	140,255	\$ (645)	\$ 99.65	\$ (104.25)
Glenn-Colusa	139,711	\$ (12,947)	121,492	\$ (13,057)	\$ (1,017)	(45,259)	\$ (4,570)	\$ 4,300	\$ 25,848	\$ 174	215,944	\$ (1,269)	\$ 99.34	\$ (105.22)
James	29,583	\$ (2,742)	25,725	\$ (2,765)	\$ (265)	1,026	\$ 104	\$ (99)	\$ 5,473	\$ 37	56,335	\$ (257)	\$ 99.66	\$ (104.21)
Lower Tule	38,199	\$ (3,540)	33,217	\$ (3,570)	\$ (333)	(797)	\$ (78)	\$ 84	\$ 7,067	\$ 48	70,619	\$ (322)	\$ 99.64	\$ (104.20)
Princeton	31,342	\$ (2,904)	27,255	\$ (2,929)	\$ (44)	(49,197)	\$ (5,028)	\$ 4,889	\$ 5,799	\$ 39	9,400	\$ (179)	\$ 86.18	\$ (105.17)
RD108	25,038	\$ (2,320)	21,773	\$ (2,340)	\$ (222)	278	\$ 28	\$ (27)	\$ 4,632	\$ 31	47,088	\$ (217)	\$ 99.64	\$ (104.25)
Santa Clara	63,142	\$ (5,851)	54,908	\$ (5,901)	\$ (570)	2,974	\$ 302	\$ (289)	\$ 11,682	\$ 79	121,023	\$ (548)	\$ 99.67	\$ (104.20)
Sonoma	115,469	\$ (10,701)	100,412	\$ (10,791)	\$ (1,046)	6,213	\$ 631	\$ (603)	\$ 21,363	\$ 144	222,094	\$ (1,003)	\$ 99.68	\$ (104.20)
West Stan	217,320	\$ (20,139)	188,981	\$ (20,310)	\$ (1,935)	4,556	\$ 460	\$ (435)	\$ 40,207	\$ 271	410,857	\$ (1,881)	\$ 99.64	\$ (104.22)
Westlands	2,089,611	\$ (193,646)	1,817,116	\$ (195,287)	\$ (18,629)	49,025	\$ 4,975	\$ (4,756)	\$ 386,600	\$ 2,608	3,955,753	\$ (18,135)	\$ 99.65	\$ (104.23)
Westside	83,587	\$ (7,746)	72,687	\$ (7,812)	\$ (738)	405	\$ 41	\$ (40)	\$ 15,464	\$ 104	156,678	\$ (725)	\$ 99.63	\$ (104.26)
Zone 7	9,346	\$ (866)	8,127	\$ (873)	\$ (89)	1,344	\$ 136	\$ (130)	\$ 1,729	\$ 12	18,817	\$ (81)	\$ 99.76	\$ (104.07)
PWRPA	4,325,000	\$ (400,801)	3,761,000	\$ (404,199)	\$ (38,080)	0	\$ 0	\$ (0)	\$ 800,171	\$ 5,398	8,086,000	\$ (37,511)	\$ 99.63	\$ (104.26)

May 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,321,473	\$ 83,253	\$ (42,518)	\$ 521	\$ 41,256	\$ 63.39	\$ (32.17)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	206,426	\$ 13,005	\$ (6,642)	\$ 81	\$ 6,445	\$ 63.39	\$ (32.17)
Glenn-Colusa	109,210	\$ 6,880	\$ (3,514)	\$ 43	\$ 3,410	\$ 63.39	\$ (32.17)
James	27,776	\$ 1,750	\$ (894)	\$ 11	\$ 867	\$ 63.39	\$ (32.17)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	38,873	\$ 2,449	\$ (1,251)	\$ 15	\$ 1,214	\$ 63.39	\$ (32.17)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	138,157	\$ 8,704	\$ (4,445)	\$ 54	\$ 4,313	\$ 63.39	\$ (32.17)
Sonoma	360,988	\$ 22,742	\$ (11,615)	\$ 142	\$ 11,270	\$ 63.39	\$ (32.17)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	1,191,518	\$ 75,066	\$ (38,337)	\$ 470	\$ 37,199	\$ 63.39	\$ (32.17)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	51,762	\$ 3,261	\$ (1,665)	\$ 20	\$ 1,616	\$ 63.39	\$ (32.17)
PWRPA	3,446,183	\$ 217,110	\$ (110,880)	\$ 1,359	\$ 107,589	\$ 63.39	\$ (32.17)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,105,431	\$ 69,350	\$ (26,166)	\$ 877	\$ 44,061	\$ 63.53	\$ (23.67)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	94,742	\$ 5,944	\$ (2,243)	\$ 75	\$ 3,776	\$ 63.53	\$ (23.67)
James	31,581	\$ 1,981	\$ (748)	\$ 25	\$ 1,259	\$ 63.53	\$ (23.67)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	31,581	\$ 1,981	\$ (748)	\$ 25	\$ 1,259	\$ 63.53	\$ (23.67)
RD108	78,969	\$ 4,954	\$ (1,869)	\$ 63	\$ 3,148	\$ 63.53	\$ (23.67)
Santa Clara	236,873	\$ 14,860	\$ (5,607)	\$ 188	\$ 9,441	\$ 63.53	\$ (23.67)
Sonoma	884,366	\$ 55,481	\$ (20,933)	\$ 702	\$ 35,249	\$ 63.53	\$ (23.67)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	947,527	\$ 59,444	\$ (22,429)	\$ 752	\$ 37,767	\$ 63.53	\$ (23.67)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	63,162	\$ 3,962	\$ (1,495)	\$ 50	\$ 2,518	\$ 63.53	\$ (23.67)
PWRPA	3,474,232	\$ 217,958	\$ (82,237)	\$ 2,756	\$ 138,477	\$ 63.53	\$ (23.67)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	2,602,720	\$ 73,491	\$ (61,400)	\$ 1,402	19,678	\$ 6,322	\$ (10,258)	\$ 405	2,622,398	\$ 9,961	\$ 31.12	\$ (27.33)
Banta-Carbona	578,382	\$ 16,331	\$ (13,645)	\$ 312	39,356	\$ 12,645	\$ (20,516)	\$ 810	617,738	\$ (4,063)	\$ 48.72	\$ (55.30)
Cawelo	1,200,143	\$ 33,887	\$ (28,312)	\$ 646	37,388	\$ 12,013	\$ (19,490)	\$ 769	1,237,531	\$ (486)	\$ 38.23	\$ (38.63)
Glenn-Colusa	216,893	\$ 6,124	\$ (5,117)	\$ 117	-	\$ -	\$ -	\$ -	216,893	\$ 1,124	\$ 28.77	\$ (23.59)
James	72,298	\$ 2,041	\$ (1,706)	\$ 39	-	\$ -	\$ -	\$ -	72,298	\$ 375	\$ 28.77	\$ (23.59)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	72,298	\$ 2,041	\$ (1,706)	\$ 39	-	\$ -	\$ -	\$ -	72,298	\$ 375	\$ 28.77	\$ (23.59)
RD108	86,757	\$ 2,450	\$ (2,047)	\$ 47	4,920	\$ 1,581	\$ (2,564)	\$ 101	91,677	\$ (433)	\$ 45.58	\$ (50.30)
Santa Clara	433,787	\$ 12,248	\$ (10,233)	\$ 234	9,839	\$ 3,161	\$ (5,129)	\$ 202	443,626	\$ 483	\$ 35.72	\$ (34.63)
Sonoma	289,191	\$ 8,166	\$ (6,822)	\$ 156	-	\$ -	\$ -	\$ -	289,191	\$ 1,499	\$ 28.77	\$ (23.59)
West Stan	578,382	\$ 16,331	\$ (13,645)	\$ 312	19,678	\$ 6,322	\$ (10,258)	\$ 405	598,060	\$ (532)	\$ 39.08	\$ (39.97)
Westlands	1,156,765	\$ 32,662	\$ (27,289)	\$ 623	62,970	\$ 20,232	\$ (32,825)	\$ 1,296	1,219,734	\$ (5,301)	\$ 44.94	\$ (49.28)
Westside	86,757	\$ 2,450	\$ (2,047)	\$ 47	2,952	\$ 948	\$ (1,539)	\$ 61	89,709	\$ (80)	\$ 39.08	\$ (39.97)
Zone 7	144,596	\$ 4,083	\$ (3,411)	\$ 78	-	\$ -	\$ -	\$ -	144,596	\$ 750	\$ 28.77	\$ (23.59)
PWRPA	7,518,970	\$ 212,306	\$ (177,379)	\$ 4,050	196,780	\$ 63,225	\$ (102,578)	\$ 4,050	7,715,750	\$ 3,673	\$ 36.76	\$ (36.28)

May 2022

Specific Projects: Lodi Energy Center								
Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ 15,701	\$ 11,719	\$ -	\$ 490	\$ 27,910	\$ -	\$ -
Banta-Carbona	-	\$ 5,905	\$ 4,407	\$ -	\$ 184	\$ 10,496	\$ -	\$ -
Cawelo	-	\$ 4,970	\$ 3,709	\$ -	\$ 155	\$ 8,834	\$ -	\$ -
Glenn-Colusa	-	\$ 3,332	\$ 2,487	\$ -	\$ 104	\$ 5,923	\$ -	\$ -
James	-	\$ 2,635	\$ 1,967	\$ -	\$ 82	\$ 4,684	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ 2,782	\$ 2,076	\$ -	\$ 87	\$ 4,945	\$ -	\$ -
RD108	-	\$ 1,478	\$ 1,103	\$ -	\$ 46	\$ 2,627	\$ -	\$ -
Santa Clara	-	\$ 4,247	\$ 3,170	\$ -	\$ 132	\$ 7,549	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ 3,321	\$ 2,479	\$ -	\$ 104	\$ 5,904	\$ -	\$ -
Westlands	-	\$ 19,211	\$ 14,338	\$ -	\$ 599	\$ 34,149	\$ -	\$ -
Westside	-	\$ 2,783	\$ 2,077	\$ -	\$ 87	\$ 4,947	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ 66,366	\$ 49,533	\$ -	\$ 2,069	\$ 117,968	\$ -	\$ -

Supplemental: Fixed Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc					
Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 4,345	\$ 1,733	\$ 4,861	\$ 9,212	\$ 40,740
Banta-Carbona	\$ 720	\$ 287	\$ 777	\$ 1,473	\$ 6,513
Cawelo	\$ 245	\$ 98	\$ 276	\$ 523	\$ 2,311
Glenn-Colusa	\$ 1	\$ 0	\$ 61	\$ 117	\$ 515
James	\$ 176	\$ 70	\$ 185	\$ 351	\$ 1,554
Lower Tule	\$ 203	\$ 81	\$ 216	\$ 410	\$ 1,811
Princeton	\$ (0)	\$ (0)	\$ 3	\$ 5	\$ 22
RD108	\$ 51	\$ 20	\$ 62	\$ 118	\$ 522
Santa Clara	\$ 514	\$ 205	\$ 530	\$ 1,004	\$ 4,440
Sonoma	\$ 1,063	\$ 424	\$ 1,088	\$ 2,062	\$ 9,119
West Stan	\$ 773	\$ 308	\$ 862	\$ 1,633	\$ 7,223
Westlands	\$ 8,632	\$ 3,442	\$ 9,445	\$ 17,900	\$ 79,164
Westside	\$ 67	\$ 27	\$ 109	\$ 207	\$ 915
Zone 7	\$ 233	\$ 93	\$ 230	\$ 436	\$ 1,927
PWRPA	\$ 17,020	\$ 6,787	\$ 18,705	\$ 35,449	\$ 156,777

Supplemental: Other				
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ 44,274		\$ 44,274
Banta-Carbona	\$ -	\$ -		\$ -
Cawelo	\$ -	\$ 2,098		\$ 2,098
Glenn-Colusa	\$ -	\$ 5,511		\$ 5,511
James	\$ -	\$ 833		\$ 833
Lower Tule	\$ -	\$ 12,770		\$ 12,770
Princeton	\$ -	\$ 1,771		\$ 1,771
RD108	\$ -	\$ 743		\$ 743
Santa Clara	\$ 11,003	\$ 14,805		\$ 25,807
Sonoma	\$ -	\$ 25,681		\$ 25,681
West Stan	\$ -	\$ 1,510		\$ 1,510
Westlands	\$ -	\$ -		\$ -
Westside	\$ -	\$ -		\$ -
Zone 7	\$ -	\$ 8,755		\$ 8,755
PWRPA	\$ 11,003	\$ 118,750	\$ -	\$ 129,753

Power Water Resources Pooling Authority

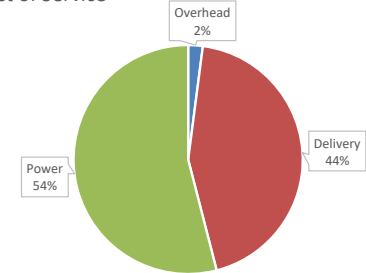
June 2022

Operations Reconciliation Summary: June 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Power					Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt	Load Cost	District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	18,613,971	\$ 373	\$ 5,648	\$ 26,682	\$ 454,318	\$ 634,466	\$ 65,375	\$ 1,455,816	\$ -	\$ (33,222)	\$ 6,335	\$ 38,961	\$ 2,654,753
Banta-Carbona	1,884,119	\$ 373	\$ 87	\$ 7,294	\$ -	\$ 64,221	\$ 6,592	\$ 149,774	\$ -	\$ (4,095)	\$ (1,374)	\$ -	\$ 222,872
Cawelo	1,347,134	\$ 373	\$ 434	\$ 6,896	\$ 30,047	\$ 45,918	\$ 4,746	\$ 108,399	\$ -	\$ (1,969)	\$ (12,250)	\$ 1,846	\$ 184,439
Glenn-Colusa	313,123	\$ 373	\$ 1,130	\$ 6,187	\$ -	\$ 5,600	\$ 10,663	\$ 996	\$ -	\$ (3,677)	\$ 4,313	\$ 4,850	\$ 55,007
James	772,456	\$ 373	\$ 174	\$ 4,789	\$ 14,265	\$ 26,330	\$ 2,734	\$ 59,739	\$ -	\$ (786)	\$ 4,133	\$ 733	\$ 112,482
Lower Tule	748,613	\$ 373	\$ 87	\$ 5,874	\$ 28,732	\$ 25,517	\$ 2,643	\$ 60,539	\$ -	\$ (1,021)	\$ -	\$ 11,237	\$ 133,980
Princeton	9,819	\$ 373	\$ 87	\$ 4,656	\$ 221	\$ 163	\$ 30	\$ 773	\$ -	\$ (464)	\$ 4,528	\$ 1,558	\$ 11,925
RD108	240,110	\$ 373	\$ 261	\$ 4,937	\$ 9,513	\$ 8,184	\$ 835	\$ 18,793	\$ -	\$ (663)	\$ 1,753	\$ 654	\$ 44,640
Santa Clara	2,030,685	\$ 373	\$ 782	\$ 8,223	\$ 58,455	\$ 48,230	\$ 7,200	\$ 160,592	\$ -	\$ (1,680)	\$ 3,433	\$ 23,669	\$ 309,277
Sonoma	4,207,242	\$ 373	\$ 1,738	\$ 11,122	\$ 55,102	\$ 143,406	\$ 14,931	\$ 326,141	\$ 985	\$ (3,075)	\$ 8,103	\$ 22,599	\$ 581,424
West Stan	1,608,922	\$ 373	\$ 87	\$ 6,963	\$ 44,428	\$ 26,663	\$ 5,550	\$ 120,439	\$ -	\$ (5,745)	\$ (5,396)	\$ 1,329	\$ 194,691
Westlands	35,077,956	\$ 373	\$ 45,184	\$ 37,488	\$ 1,088,677	\$ 1,195,648	\$ 123,450	\$ 2,732,712	\$ (55,683)	\$ (55,377)	\$ 34,973	\$ -	\$ 5,147,444
Westside	472,090	\$ 373	\$ 87	\$ 4,640	\$ 12,732	\$ 16,091	\$ 1,610	\$ 36,587	\$ -	\$ (2,210)	\$ 3,378	\$ -	\$ 73,289
Zone 7	838,620	\$ 373	\$ 434	\$ 5,327	\$ 23,384	\$ 15,621	\$ 2,989	\$ 63,804	\$ -	\$ (252)	\$ (1,434)	\$ 7,704	\$ 117,951
TOTAL	68,164,860	\$ 5,218	\$ 56,220	\$ 141,077	\$ 1,825,471	\$ 2,261,120	\$ 239,680	\$ 5,318,684	\$ (54,698)	\$ (114,237)	\$ 50,495	\$ 115,141	\$ 9,844,171
Percent of total cost		0.05%	0.57%	1.43%	18.54%	22.97%	2.43%	54.03%	-0.56%	-1.16%	0.51%	1.17%	100.00%

Summary of Costs as a Rate per Metered Energy (Cents per kWh)

Participant	Metered Energy (kWh)	Cents per kWh							
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate	
Arvin-Edison	17,938,851	\$ 0.18	\$ 2.53	\$ 3.54	\$ 0.36	\$ 8.12	\$ 0.07	\$ 14.80	
Banta-Carbona	1,884,119	\$ 0.41	\$ -	\$ 3.41	\$ 0.35	\$ 7.95	\$ (0.29)	\$ 11.83	
Cawelo	1,316,531	\$ 0.59	\$ 2.28	\$ 3.49	\$ 0.36	\$ 8.23	\$ (0.94)	\$ 14.01	
Glenn-Colusa	311,414	\$ 2.47	\$ 1.80	\$ 3.42	\$ 0.32	\$ 7.89	\$ 1.76	\$ 17.66	
James	756,900	\$ 0.70	\$ 1.88	\$ 3.48	\$ 0.36	\$ 7.89	\$ 0.54	\$ 14.86	
Lower Tule	698,249	\$ 0.91	\$ 4.11	\$ 3.65	\$ 0.38	\$ 8.67	\$ 1.46	\$ 19.19	
Princeton	9,622	\$ 53.16	\$ 2.29	\$ 1.69	\$ 0.31	\$ 8.04	\$ 58.43	\$ 123.93	
RD108	232,509	\$ 2.40	\$ 4.09	\$ 3.52	\$ 0.36	\$ 8.08	\$ 0.75	\$ 19.20	
Santa Clara	1,987,513	\$ 0.47	\$ 2.94	\$ 2.43	\$ 0.36	\$ 8.08	\$ 1.28	\$ 15.56	
Sonoma	4,134,300	\$ 0.32	\$ 1.33	\$ 3.47	\$ 0.36	\$ 7.89	\$ 0.69	\$ 14.06	
West Stan	1,576,908	\$ 0.47	\$ 2.82	\$ 1.69	\$ 0.35	\$ 7.64	\$ (0.62)	\$ 12.35	
Westlands	32,747,278	\$ 0.25	\$ 3.32	\$ 3.65	\$ 0.38	\$ 8.34	\$ (0.23)	\$ 15.72	
Westside	462,607	\$ 1.10	\$ 2.75	\$ 3.48	\$ 0.35	\$ 7.91	\$ 0.25	\$ 15.84	
Zone 7	821,756	\$ 0.75	\$ 2.85	\$ 1.90	\$ 0.36	\$ 7.76	\$ 0.73	\$ 14.35	
PWRPA	64,878,556	\$ 0.31	\$ 2.81	\$ 3.49	\$ 0.37	\$ 8.20	\$ (0.01)	\$ 15.17	

Cost of Service



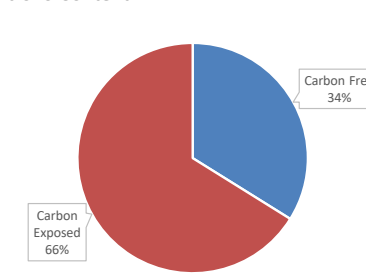
Summary of Energy Portfolio

Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	18,613,971	2,373,254	4,893,918	94,908	-	7,362,079	11,251,892	39%
Banta-Carbona	1,884,119	292,397	540,124	35,693	-	868,214	1,015,905	44%
Cawelo	1,347,134	140,879	1,323,253	30,040	-	1,494,172	(147,038)	109%
Glenn-Colusa	313,123	251,918	409,585	20,142	-	681,645	(368,522)	211%
James	772,456	56,407	127,967	15,926	-	200,300	572,156	24%
Lower Tule	748,613	68,169	-	-	-	68,169	680,444	9%
Princeton	9,819	9,819	138,980	16,816	-	165,614	(155,795)	1515%
RD108	240,110	47,260	163,854	8,934	-	220,049	20,061	88%
Santa Clara	2,030,685	120,804	789,783	25,672	-	936,258	1,094,427	45%
Sonoma	4,207,242	221,421	1,555,529	-	-	1,776,950	2,430,292	42%
West Stan	1,608,922	409,989	539,069	20,075	-	969,133	639,789	59%
Westlands	35,077,956	4,830,755	3,256,488	116,122	-	8,203,365	26,874,590	23%
Westside	472,090	157,448	80,860	16,822	-	255,131	216,960	50%
Zone 7	838,620	18,480	252,171	-	-	270,651	567,969	32%
PWRPA	68,164,860	8,999,000	14,071,581	401,150	-	23,471,731	44,693,129	34%

Percent of DLF Adjusted Energy:

13% 21% 1% 0% 34%

Portfolio Content



June 2022

Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	17,938,851	18,613,971	3.8%	37,653	\$ 1,455,816	\$ 78.21
Banta-Carbona	1,884,119	1,884,119	0.0%	3,455	\$ 149,774	\$ 79.49
Cawelo	1,316,531	1,347,134	2.3%	2,591	\$ 108,399	\$ 80.47
Glenn-Colusa	311,414	313,123	0.5%	825	\$ 24,573	\$ 78.48
James	756,900	772,456	2.1%	1,163	\$ 59,739	\$ 77.34
Lower Tule	698,249	748,613	7.2%	2,269	\$ 60,539	\$ 80.87
Princeton	9,622	9,819	2.0%	18	\$ 773	\$ 78.77
RD108	232,509	240,110	3.3%	741	\$ 18,793	\$ 78.27
Santa Clara	1,987,513	2,030,685	2.2%	4,412	\$ 160,592	\$ 79.08
Sonoma	4,134,300	4,207,242	1.8%	9,226	\$ 326,141	\$ 77.52
West Stan	1,576,908	1,608,922	2.0%	3,622	\$ 120,439	\$ 74.86
Westlands	32,747,278	35,077,956	7.1%	65,220	\$ 2,732,712	\$ 77.90
Westside	462,607	472,090	2.1%	1,038	\$ 36,587	\$ 77.50
Zone 7	821,756	838,620	2.1%	1,533	\$ 63,804	\$ 76.08
PWRPA	64,878,556	68,164,860	5.1%	133,764	\$ 5,318,684	\$ 78.03

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 985	\$ 985	\$ -	\$ -
West Stan	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Westlands	870,000	\$ -	\$ (57,186)	\$ 1,503	\$ (55,683)	\$ 1.73	\$ (65.73)
Westside	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
PWRPA	870,000	\$ -	\$ (57,186)	\$ 2,487	\$ (54,698)	\$ 2.86	\$ (65.73)

[illegible]

June 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,311,506	\$ 82,625	\$ (68,315)	\$ 694	\$ 15,004	\$ 63.53	\$ (52.09)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	204,869	\$ 12,907	\$ (10,671)	\$ 108	\$ 2,344	\$ 63.53	\$ (52.09)
Glenn-Colusa	108,386	\$ 6,828	\$ (5,646)	\$ 57	\$ 1,240	\$ 63.53	\$ (52.09)
James	27,567	\$ 1,737	\$ (1,436)	\$ 15	\$ 315	\$ 63.53	\$ (52.09)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	38,580	\$ 2,431	\$ (2,010)	\$ 20	\$ 441	\$ 63.53	\$ (52.09)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	137,115	\$ 8,638	\$ (7,142)	\$ 73	\$ 1,569	\$ 63.53	\$ (52.09)
Sonoma	358,265	\$ 22,571	\$ (18,662)	\$ 190	\$ 4,099	\$ 63.53	\$ (52.09)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	1,182,530	\$ 74,499	\$ (61,597)	\$ 626	\$ 13,528	\$ 63.53	\$ (52.09)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	51,371	\$ 3,236	\$ (2,676)	\$ 27	\$ 588	\$ 63.53	\$ (52.09)
PWRPA	3,420,189	\$ 215,472	\$ (178,155)	\$ 1,809	\$ 39,127	\$ 63.53	\$ (52.09)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,160,295	\$ 68,855	\$ (57,949)	\$ 830	\$ 11,736	\$ 60.06	\$ (49.94)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	99,444	\$ 5,901	\$ (4,967)	\$ 71	\$ 1,006	\$ 60.06	\$ (49.94)
James	33,148	\$ 1,967	\$ (1,656)	\$ 24	\$ 335	\$ 60.06	\$ (49.94)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	33,148	\$ 1,967	\$ (1,656)	\$ 24	\$ 335	\$ 60.06	\$ (49.94)
RD108	82,889	\$ 4,919	\$ (4,140)	\$ 59	\$ 838	\$ 60.06	\$ (49.94)
Santa Clara	248,629	\$ 14,754	\$ (12,417)	\$ 178	\$ 2,515	\$ 60.06	\$ (49.94)
Sonoma	928,258	\$ 55,085	\$ (46,360)	\$ 664	\$ 9,389	\$ 60.06	\$ (49.94)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	994,554	\$ 59,020	\$ (49,671)	\$ 711	\$ 10,060	\$ 60.06	\$ (49.94)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	66,296	\$ 3,934	\$ (3,311)	\$ 47	\$ 671	\$ 60.06	\$ (49.94)
PWRPA	3,646,662	\$ 216,403	\$ (182,126)	\$ 2,608	\$ 36,885	\$ 60.06	\$ (49.94)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	2,421,062	\$ 66,624	\$ (116,704)	\$ 1,615	1,055	\$ 5,643	\$ (6,822)	\$ 467	2,422,117	\$ (49,177)	\$ 30.70	\$ (51.00)
Banta-Carbona	538,014	\$ 14,805	\$ (25,934)	\$ 359	2,110	\$ 11,287	\$ (13,644)	\$ 933	540,124	\$ (12,194)	\$ 50.70	\$ (73.28)
Cawelo	1,116,379	\$ 30,721	\$ (53,814)	\$ 745	2,005	\$ 10,722	\$ (12,962)	\$ 886	1,118,383	\$ (23,701)	\$ 38.52	\$ (59.71)
Glenn-Colusa	201,755	\$ 5,552	\$ (9,725)	\$ 135	-	\$ -	\$ -	\$ -	201,755	\$ (4,039)	\$ 28.19	\$ (48.20)
James	67,252	\$ 1,851	\$ (3,242)	\$ 45	-	\$ -	\$ -	\$ -	67,252	\$ (1,346)	\$ 28.19	\$ (48.20)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	67,252	\$ 1,851	\$ (3,242)	\$ 45	-	\$ -	\$ -	\$ -	67,252	\$ (1,346)	\$ 28.19	\$ (48.20)
RD108	80,702	\$ 2,221	\$ (3,890)	\$ 54	264	\$ 1,411	\$ (1,706)	\$ 117	80,966	\$ (1,794)	\$ 46.96	\$ (69.11)
Santa Clara	403,510	\$ 11,104	\$ (19,451)	\$ 269	528	\$ 2,822	\$ (3,411)	\$ 233	404,038	\$ (8,434)	\$ 35.71	\$ (56.58)
Sonoma	269,007	\$ 7,403	\$ (12,967)	\$ 179	-	\$ -	\$ -	\$ -	269,007	\$ (5,385)	\$ 28.19	\$ (48.20)
West Stan	538,014	\$ 14,805	\$ (25,934)	\$ 359	1,055	\$ 5,643	\$ (6,822)	\$ 467	539,069	\$ (11,482)	\$ 39.46	\$ (60.76)
Westlands	1,076,028	\$ 29,611	\$ (51,869)	\$ 718	3,376	\$ 18,059	\$ (21,831)	\$ 1,493	1,079,404	\$ (23,819)	\$ 46.21	\$ (68.28)
Westside	80,702	\$ 2,221	\$ (3,890)	\$ 54	158	\$ 847	\$ (1,023)	\$ 70	80,860	\$ (1,722)	\$ 39.46	\$ (60.76)
Zone 7	134,503	\$ 3,701	\$ (6,484)	\$ 90	-	\$ -	\$ -	\$ -	134,503	\$ (2,693)	\$ 28.19	\$ (48.20)
PWRPA	6,994,180	\$ 192,470	\$ (337,146)	\$ 4,665	10,550	\$ 56,434	\$ (68,221)	\$ 4,665	7,004,730	\$ (147,132)	\$ 36.87	\$ (57.87)

June 2022

Specific Projects: Lodi Energy Center								
Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	94,908	\$ 15,701	\$ 25,230	\$ (12,794)	\$ 636	\$ 28,773	\$ 437.98	\$ (134.81)
Banta-Carbona	35,693	\$ 5,905	\$ 9,489	\$ (4,812)	\$ 239	\$ 10,821	\$ 437.98	\$ (134.81)
Cawelo	30,040	\$ 4,970	\$ 7,986	\$ (4,050)	\$ 201	\$ 9,107	\$ 437.98	\$ (134.81)
Glenn-Colusa	20,142	\$ 3,332	\$ 5,354	\$ (2,715)	\$ 135	\$ 6,106	\$ 437.98	\$ (134.81)
James	15,926	\$ 2,635	\$ 4,234	\$ (2,147)	\$ 107	\$ 4,828	\$ 437.98	\$ (134.81)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	16,816	\$ 2,782	\$ 4,470	\$ (2,267)	\$ 113	\$ 5,098	\$ 437.98	\$ (134.81)
RD108	8,934	\$ 1,478	\$ 2,375	\$ (1,204)	\$ 60	\$ 2,709	\$ 437.98	\$ (134.81)
Santa Clara	25,672	\$ 4,247	\$ 6,825	\$ (3,461)	\$ 172	\$ 7,783	\$ 437.98	\$ (134.81)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	20,075	\$ 3,321	\$ 5,337	\$ (2,706)	\$ 134	\$ 6,086	\$ 437.98	\$ (134.81)
Westlands	116,122	\$ 19,211	\$ 30,870	\$ (15,654)	\$ 778	\$ 35,204	\$ 437.98	\$ (134.81)
Westside	16,822	\$ 2,783	\$ 4,472	\$ (2,268)	\$ 113	\$ 5,100	\$ 437.98	\$ (134.81)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	401,150	\$ 66,366	\$ 106,642	\$ (54,079)	\$ 2,686	\$ 121,615	\$ 437.98	\$ (134.81)

Supplemental: Fixed Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc					
Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 4,149	\$ 3,821	\$ 5,108	\$ 9,703	\$ 42,594
Banta-Carbona	\$ 407	\$ 375	\$ 517	\$ 982	\$ 4,311
Cawelo	\$ 308	\$ 284	\$ 370	\$ 702	\$ 3,083
Glenn-Colusa	\$ 16	\$ 14	\$ 86	\$ 163	\$ 717
James	\$ 183	\$ 168	\$ 212	\$ 403	\$ 1,768
Lower Tule	\$ 174	\$ 160	\$ 205	\$ 390	\$ 1,713
Princeton	\$ (0)	\$ (0)	\$ 3	\$ 5	\$ 22
RD108	\$ 49	\$ 45	\$ 66	\$ 125	\$ 549
Santa Clara	\$ 488	\$ 449	\$ 557	\$ 1,059	\$ 4,647
Sonoma	\$ 1,018	\$ 938	\$ 1,154	\$ 2,193	\$ 9,627
West Stan	\$ 306	\$ 282	\$ 441	\$ 839	\$ 3,682
Westlands	\$ 7,949	\$ 7,322	\$ 9,626	\$ 18,286	\$ 80,268
Westside	\$ 80	\$ 74	\$ 130	\$ 246	\$ 1,080
Zone 7	\$ 210	\$ 193	\$ 230	\$ 437	\$ 1,919
PWRPA	\$ 15,336	\$ 14,126	\$ 18,705	\$ 35,534	\$ 155,979

Supplemental: Other				
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ 38,961		\$ 38,961
Banta-Carbona	\$ -	\$ -		\$ -
Cawelo	\$ -	\$ 1,846		\$ 1,846
Glenn-Colusa	\$ -	\$ 4,850		\$ 4,850
James	\$ -	\$ 733		\$ 733
Lower Tule	\$ -	\$ 11,237		\$ 11,237
Princeton	\$ -	\$ 1,558		\$ 1,558
RD108	\$ -	\$ 654		\$ 654
Santa Clara	\$ 10,641	\$ 13,028		\$ 23,669
Sonoma	\$ -	\$ 22,599		\$ 22,599
West Stan	\$ -	\$ 1,329		\$ 1,329
Westlands	\$ -	\$ -		\$ -
Westside	\$ -	\$ -		\$ -
Zone 7	\$ -	\$ 7,704		\$ 7,704
PWRPA	\$ 10,641	\$ 104,500	\$ -	\$ 115,141

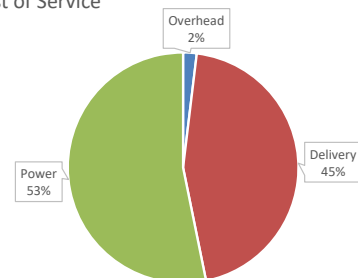
Power Water Resources Pooling Authority

July 2022

Operations Reconciliation Summary: July 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Load Cost	Power				Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt		District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	16,444,858	\$ 556	\$ 5,549	\$ 19,839	\$ 383,707	\$ 560,587	\$ 21,976	\$ 1,254,162	\$ -	\$ (4,410)	\$ (50,093)	\$ -	\$ 2,191,872
Banta-Carbona	1,932,571	\$ 556	\$ 85	\$ 5,310	\$ -	\$ 65,879	\$ 2,576	\$ 146,451	\$ -	\$ (543)	\$ (4,596)	\$ -	\$ 215,719
Cawelo	1,531,069	\$ 556	\$ 427	\$ 5,027	\$ 47,802	\$ 52,185	\$ 2,082	\$ 118,759	\$ -	\$ (256)	\$ (26,708)	\$ -	\$ 199,874
Glenn-Colusa	317,148	\$ 556	\$ 1,110	\$ 4,423	\$ 5,017	\$ 10,801	\$ 337	\$ 24,275	\$ -	\$ (1,066)	\$ (430)	\$ -	\$ 45,024
James	621,690	\$ 556	\$ 171	\$ 3,413	\$ 15,482	\$ 21,193	\$ 846	\$ 46,829	\$ -	\$ (99)	\$ 2,763	\$ -	\$ 91,153
Lower Tule	702,445	\$ 556	\$ 85	\$ 4,201	\$ 31,103	\$ 23,946	\$ 952	\$ 53,563	\$ -	\$ (134)	\$ -	\$ -	\$ 114,271
Princeton	9,658	\$ 556	\$ 85	\$ 3,296	\$ 209	\$ 160	\$ 10	\$ 740	\$ -	\$ (210)	\$ 3,047	\$ -	\$ 7,893
RD108	258,958	\$ 556	\$ 256	\$ 3,520	\$ 9,361	\$ 8,828	\$ 342	\$ 19,737	\$ -	\$ (89)	\$ 566	\$ -	\$ 43,076
Santa Clara	2,306,708	\$ 556	\$ 768	\$ 6,044	\$ 75,454	\$ 53,431	\$ 3,178	\$ 176,220	\$ -	\$ (200)	\$ (4,637)	\$ 10,043	\$ 320,856
Sonoma	3,045,341	\$ 556	\$ 1,707	\$ 7,940	\$ 61,146	\$ 103,812	\$ 4,168	\$ 227,525	\$ 985	\$ (380)	\$ (7,075)	\$ -	\$ 400,385
West Stan	1,192,507	\$ 556	\$ 85	\$ 4,949	\$ 28,387	\$ 19,764	\$ 1,487	\$ 89,820	\$ -	\$ (776)	\$ (11,011)	\$ -	\$ 133,261
Westlands	34,036,031	\$ 556	\$ 44,391	\$ 29,701	\$ 1,033,500	\$ 1,160,250	\$ 45,911	\$ 2,563,204	\$ (73,375)	\$ (7,162)	\$ 6,509	\$ -	\$ 4,803,484
Westside	409,485	\$ 556	\$ 85	\$ 3,304	\$ 9,458	\$ 13,959	\$ 503	\$ 30,782	\$ -	\$ (300)	\$ 2,709	\$ -	\$ 61,057
Zone 7	963,592	\$ 556	\$ 427	\$ 3,867	\$ 30,278	\$ 17,783	\$ 1,342	\$ 74,471	\$ -	\$ (24)	\$ (4,533)	\$ -	\$ 124,167
TOTAL	63,772,061	\$ 7,784	\$ 55,233	\$ 104,835	\$ 1,730,904	\$ 2,112,576	\$ 85,710	\$ 4,826,537	\$ (72,390)	\$ (15,649)	\$ (93,489)	\$ 10,043	\$ 8,752,092
Percent of total cost		0.09%	0.63%	1.20%	19.78%	24.14%	0.98%	55.15%	-0.83%	-0.18%	-1.07%	0.11%	100.00%

Summary of Costs as a Rate per Metered Energy (Cents per kWh)									
Participant	Metered Energy (kWh)	Cents per kWh							
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate	
Arvin-Edison	15,800,760	\$ 0.16	\$ 2.43	\$ 3.55	\$ 0.14	\$ 7.94	\$ (0.34)	\$ 13.87	
Banta-Carbona	1,932,571	\$ 0.31	\$ -	\$ 3.41	\$ 0.13	\$ 7.58	\$ (0.27)	\$ 11.16	
Cawelo	1,491,521	\$ 0.40	\$ 3.20	\$ 3.50	\$ 0.14	\$ 7.96	\$ (1.81)	\$ 13.40	
Glenn-Colusa	315,942	\$ 1.93	\$ 1.59	\$ 3.42	\$ 0.11	\$ 7.68	\$ (0.47)	\$ 14.25	
James	608,883	\$ 0.68	\$ 2.54	\$ 3.48	\$ 0.14	\$ 7.69	\$ 0.44	\$ 14.97	
Lower Tule	654,486	\$ 0.74	\$ 4.75	\$ 3.66	\$ 0.15	\$ 8.18	\$ (0.02)	\$ 17.46	
Princeton	9,459	\$ 41.63	\$ 2.20	\$ 1.69	\$ 0.11	\$ 7.82	\$ 29.99	\$ 83.45	
RD108	250,203	\$ 1.73	\$ 3.74	\$ 3.53	\$ 0.14	\$ 7.89	\$ 0.19	\$ 17.22	
Santa Clara	2,254,692	\$ 0.33	\$ 3.35	\$ 2.37	\$ 0.14	\$ 7.82	\$ 0.23	\$ 14.23	
Sonoma	2,998,270	\$ 0.34	\$ 2.04	\$ 3.46	\$ 0.14	\$ 7.59	\$ (0.22)	\$ 13.35	
West Stan	1,167,849	\$ 0.48	\$ 2.43	\$ 1.69	\$ 0.13	\$ 7.69	\$ (1.01)	\$ 11.41	
Westlands	31,763,403	\$ 0.24	\$ 3.25	\$ 3.65	\$ 0.14	\$ 8.07	\$ (0.23)	\$ 15.12	
Westside	401,007	\$ 0.98	\$ 2.36	\$ 3.48	\$ 0.13	\$ 7.68	\$ 0.60	\$ 15.23	
Zone 7	943,533	\$ 0.51	\$ 3.21	\$ 1.88	\$ 0.14	\$ 7.89	\$ (0.48)	\$ 13.16	
PWRPA	60,592,577	\$ 0.28	\$ 2.86	\$ 3.49	\$ 0.14	\$ 7.97	\$ (0.28)	\$ 14.44	

Cost of Service

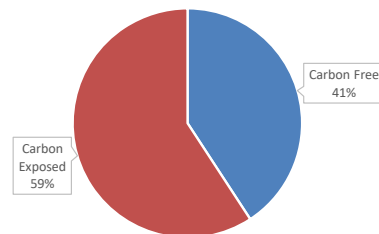


Summary of Energy Portfolio								
Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	16,444,858	3,002,105	5,115,692	319,521	-	8,437,317	8,007,541	49%
Banta-Carbona	1,932,571	370,170	609,015	120,165	-	1,099,350	833,221	51%
Cawelo	1,531,069	178,801	1,452,399	101,133	-	1,732,333	(201,264)	107%
Glenn-Colusa	317,148	300,826	427,446	67,810	-	796,082	(478,934)	230%
James	621,690	71,331	133,906	53,619	-	258,856	362,835	33%
Lower Tule	702,445	91,767	-	-	-	91,767	610,677	13%
Princeton	9,658	9,658	144,937	56,613	-	211,208	(201,550)	1601%
RD108	258,958	59,829	171,006	30,079	-	260,914	(1,956)	89%
Santa Clara	2,306,708	153,976	826,792	86,427	-	1,067,195	1,239,513	43%
Sonoma	3,045,341	279,447	1,552,176	-	-	1,831,623	1,213,717	60%
West Stan	1,192,507	517,580	601,672	67,586	-	1,186,838	5,668	94%
Westlands	34,036,031	6,008,648	3,356,824	390,943	-	9,756,415	24,279,616	28%
Westside	409,485	198,974	90,251	56,634	-	345,859	63,627	71%
Zone 7	963,592	23,889	264,043	-	-	287,931	675,660	30%
PWRPA	63,772,061	11,267,000	14,746,160	1,350,530	-	27,363,690	36,408,372	41%

Percent of DLF Adjusted Energy:

18% 23% 2% 0% 43%

Portfolio Content



July 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	15,800,760	16,444,858	4.1%	32,473	\$ 1,254,162	\$ 76.26
Banta-Carbona	1,932,571	1,932,571	0.0%	3,175	\$ 146,451	\$ 75.78
Cawelo	1,491,521	1,531,069	2.7%	3,813	\$ 118,759	\$ 77.57
Glenn-Colusa	315,942	317,148	0.4%	729	\$ 24,275	\$ 76.54
James	608,883	621,690	2.1%	1,262	\$ 46,829	\$ 75.33
Lower Tule	654,486	702,445	7.3%	2,462	\$ 53,563	\$ 76.25
Princeton	9,459	9,658	2.1%	17	\$ 740	\$ 76.61
RD108	250,203	258,958	3.5%	743	\$ 19,737	\$ 76.22
Santa Clara	2,254,692	2,306,708	2.3%	5,431	\$ 176,220	\$ 76.39
Sonoma	2,998,270	3,045,341	1.6%	8,331	\$ 227,525	\$ 74.71
West Stan	1,167,849	1,192,507	2.1%	2,292	\$ 89,820	\$ 75.32
Westlands	31,763,403	34,036,031	7.2%	61,210	\$ 2,563,204	\$ 75.31
Westside	401,007	409,485	2.1%	771	\$ 30,782	\$ 75.17
Zone 7	943,533	963,592	2.1%	2,025	\$ 74,471	\$ 77.29
PWRPA	60,592,577	63,772,061	5.2%	124,735	\$ 4,826,537	\$ 75.68

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 985	\$ 985	\$ -	\$ -
West Stan	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Westlands	992,000	-	\$ (74,878)	\$ 1,503	\$ (73,375)	\$ 1.51	\$ (75.48)
Westside	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
PWRPA	992,000	\$ -	\$ (74,878)	\$ 2,487	\$ (72,390)	\$ 2.51	\$ (75.48)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,311,451	\$ (96,908)	1,667,143	\$ (183,291)	\$ (20,356)	23,511	\$ 2,385	\$ (2,099)	\$ 294,754	\$ 1,105	3,002,105	\$ (4,410)	\$ 99.34	\$ (100.81)
Banta-Carbona	161,745	\$ (11,952)	205,614	\$ (22,606)	\$ (2,510)	2,811	\$ 285	\$ (249)	\$ 36,353	\$ 136	370,170	\$ (543)	\$ 99.34	\$ (100.81)
Cawelo	77,675	\$ (5,740)	98,742	\$ (10,856)	\$ (1,212)	2,384	\$ 241	\$ (212)	\$ 17,458	\$ 65	178,801	\$ (256)	\$ 99.35	\$ (100.79)
Glenn-Colusa	146,139	\$ (10,799)	185,775	\$ (20,425)	\$ (2,040)	(31,089)	\$ (3,093)	\$ 2,322	\$ 32,845	\$ 123	300,826	\$ (1,066)	\$ 99.31	\$ (102.86)
James	30,944	\$ (2,287)	39,337	\$ (4,325)	\$ (484)	1,049	\$ 106	\$ (91)	\$ 6,955	\$ 26	71,331	\$ (99)	\$ 99.35	\$ (100.74)
Lower Tule	39,956	\$ (2,953)	50,793	\$ (5,584)	\$ (622)	1,018	\$ 103	\$ (92)	\$ 8,980	\$ 34	91,767	\$ (134)	\$ 99.35	\$ (100.81)
Princeton	32,784	\$ (2,423)	41,676	\$ (4,582)	\$ (65)	(64,802)	\$ (6,606)	\$ 6,071	\$ 7,368	\$ 28	9,658	\$ (210)	\$ 81.75	\$ (103.48)
RD108	26,190	\$ (1,935)	33,293	\$ (3,660)	\$ (406)	346	\$ 35	\$ (31)	\$ 5,886	\$ 22	59,829	\$ (89)	\$ 99.34	\$ (100.82)
Santa Clara	66,047	\$ (4,880)	83,960	\$ (9,231)	\$ (1,044)	3,969	\$ 402	\$ (346)	\$ 14,844	\$ 56	153,976	\$ (200)	\$ 99.38	\$ (100.68)
Sonoma	120,782	\$ (8,925)	153,541	\$ (16,881)	\$ (1,895)	5,124	\$ 519	\$ (446)	\$ 27,146	\$ 102	279,447	\$ (380)	\$ 99.36	\$ (100.72)
West Stan	227,320	\$ (16,797)	288,973	\$ (31,771)	\$ (3,510)	1,287	\$ 130	\$ (111)	\$ 51,091	\$ 192	517,580	\$ (776)	\$ 99.33	\$ (100.83)
Westlands	2,185,758	\$ (161,513)	2,778,579	\$ (305,486)	\$ (34,016)	52,311	\$ 5,283	\$ (4,530)	\$ 491,259	\$ 1,842	5,016,648	\$ (7,162)	\$ 99.35	\$ (100.77)
Westside	87,433	\$ (6,461)	111,146	\$ (12,220)	\$ (1,349)	395	\$ 40	\$ (34)	\$ 19,651	\$ 74	198,974	\$ (300)	\$ 99.33	\$ (100.84)
Zone 7	9,776	\$ (722)	12,428	\$ (1,366)	\$ (162)	1,685	\$ 171	\$ (150)	\$ 2,197	\$ 8	23,889	\$ (24)	\$ 99.48	\$ (100.50)
PWRPA	4,524,000	\$ (334,295)	5,751,000	\$ (632,284)	\$ (69,671)	0	\$ (0)	\$ (0)	\$ 1,016,789	\$ 3,812	10,275,000	\$ (15,649)	\$ 99.33	\$ (100.85)

July 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,313,714	\$ 82,764	\$ (83,076)	\$ 732	\$ 421	\$ 63.56	\$ (63.24)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	205,214	\$ 12,929	\$ (12,977)	\$ 114	\$ 66	\$ 63.56	\$ (63.24)
Glenn-Colusa	108,568	\$ 6,840	\$ (6,866)	\$ 61	\$ 35	\$ 63.56	\$ (63.24)
James	27,613	\$ 1,740	\$ (1,746)	\$ 15	\$ 9	\$ 63.56	\$ (63.24)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	38,645	\$ 2,435	\$ (2,444)	\$ 22	\$ 12	\$ 63.56	\$ (63.24)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	137,346	\$ 8,653	\$ (8,685)	\$ 77	\$ 44	\$ 63.56	\$ (63.24)
Sonoma	358,868	\$ 22,609	\$ (22,694)	\$ 200	\$ 115	\$ 63.56	\$ (63.24)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	1,184,522	\$ 74,625	\$ (74,906)	\$ 660	\$ 379	\$ 63.56	\$ (63.24)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	51,458	\$ 3,242	\$ (3,254)	\$ 29	\$ 16	\$ 63.56	\$ (63.24)
PWRPA	3,425,949	\$ 215,835	\$ (216,648)	\$ 1,910	\$ 1,097	\$ 63.56	\$ (63.24)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,120,153	\$ 68,088	\$ (66,073)	\$ 767	\$ 2,783	\$ 61.47	\$ (58.99)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	96,004	\$ 5,836	\$ (5,663)	\$ 66	\$ 238	\$ 61.47	\$ (58.99)
James	32,001	\$ 1,945	\$ (1,888)	\$ 22	\$ 79	\$ 61.47	\$ (58.99)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	32,001	\$ 1,945	\$ (1,888)	\$ 22	\$ 79	\$ 61.47	\$ (58.99)
RD108	80,021	\$ 4,864	\$ (4,720)	\$ 55	\$ 199	\$ 61.47	\$ (58.99)
Santa Clara	240,028	\$ 14,590	\$ (14,158)	\$ 164	\$ 596	\$ 61.47	\$ (58.99)
Sonoma	896,144	\$ 54,472	\$ (52,860)	\$ 614	\$ 2,226	\$ 61.47	\$ (58.99)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	960,146	\$ 58,362	\$ (56,635)	\$ 658	\$ 2,385	\$ 61.47	\$ (58.99)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	64,003	\$ 3,890	\$ (3,775)	\$ 44	\$ 159	\$ 61.47	\$ (58.99)
PWRPA	3,520,502	\$ 213,993	\$ (207,659)	\$ 2,412	\$ 8,746	\$ 61.47	\$ (58.99)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	2,674,482	\$ 72,384	\$ (159,181)	\$ 2,053	7,343	\$ 6,108	\$ (5,217)	\$ 593	2,681,825	\$ (83,261)	\$ 30.25	\$ (61.30)
Banta-Carbona	594,329	\$ 16,085	\$ (35,374)	\$ 456	14,686	\$ 12,215	\$ (10,435)	\$ 1,186	609,015	\$ (15,865)	\$ 49.17	\$ (75.22)
Cawelo	1,233,233	\$ 33,377	\$ (73,400)	\$ 947	13,952	\$ 11,605	\$ (9,913)	\$ 1,127	1,247,185	\$ (36,258)	\$ 37.73	\$ (66.80)
Glenn-Colusa	222,873	\$ 6,032	\$ (13,265)	\$ 171	-	\$ -	\$ -	\$ -	222,873	\$ (7,062)	\$ 27.83	\$ (59.52)
James	74,291	\$ 2,011	\$ (4,422)	\$ 57	-	\$ -	\$ -	\$ -	74,291	\$ (2,354)	\$ 27.83	\$ (59.52)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	74,291	\$ 2,011	\$ (4,422)	\$ 57	-	\$ -	\$ -	\$ -	74,291	\$ (2,354)	\$ 27.83	\$ (59.52)
RD108	89,149	\$ 2,413	\$ (5,306)	\$ 68	1,836	\$ 1,527	\$ (1,304)	\$ 148	90,985	\$ (2,454)	\$ 45.68	\$ (72.65)
Santa Clara	445,747	\$ 12,064	\$ (26,530)	\$ 342	3,671	\$ 3,054	\$ (2,609)	\$ 297	449,418	\$ (13,382)	\$ 35.06	\$ (64.84)
Sonoma	297,165	\$ 8,043	\$ (17,687)	\$ 228	-	\$ -	\$ -	\$ -	297,165	\$ (9,416)	\$ 27.83	\$ (59.52)
West Stan	594,329	\$ 16,085	\$ (35,374)	\$ 456	7,343	\$ 6,108	\$ (5,217)	\$ 593	601,672	\$ (17,349)	\$ 38.63	\$ (67.46)
Westlands	1,188,658	\$ 32,171	\$ (70,747)	\$ 912	23,497	\$ 19,544	\$ (16,695)	\$ 1,898	1,212,156	\$ (32,917)	\$ 44.98	\$ (72.14)
Westside	89,149	\$ 2,413	\$ (5,306)	\$ 68	1,101	\$ 916	\$ (783)	\$ 89	90,251	\$ (2,602)	\$ 38.63	\$ (67.46)
Zone 7	148,582	\$ 4,021	\$ (8,843)	\$ 114	-	\$ -	\$ -	\$ -	148,582	\$ (4,708)	\$ 27.83	\$ (59.52)
PWRPA	7,726,280	\$ 209,110	\$ (459,856)	\$ 5,930	73,430	\$ 61,076	\$ (52,173)	\$ 5,930	7,799,710	\$ (229,982)	\$ 36.16	\$ (65.65)

July 2022

Specific Projects: Lodi Energy Center								
Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	319,521	\$ 15,696	\$ 43,964	\$ (30,149)	\$ 452	\$ 29,964	\$ 188.13	\$ (94.36)
Banta-Carbona	120,165	\$ 5,903	\$ 16,534	\$ (11,338)	\$ 170	\$ 11,269	\$ 188.13	\$ (94.36)
Cawelo	101,133	\$ 4,968	\$ 13,915	\$ (9,543)	\$ 143	\$ 9,484	\$ 188.13	\$ (94.36)
Glenn-Colusa	67,810	\$ 3,331	\$ 9,330	\$ (6,398)	\$ 96	\$ 6,359	\$ 188.13	\$ (94.36)
James	53,619	\$ 2,634	\$ 7,378	\$ (5,059)	\$ 76	\$ 5,028	\$ 188.13	\$ (94.36)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	56,613	\$ 2,781	\$ 7,790	\$ (5,342)	\$ 80	\$ 5,309	\$ 188.13	\$ (94.36)
RD108	30,079	\$ 1,478	\$ 4,139	\$ (2,838)	\$ 43	\$ 2,821	\$ 188.13	\$ (94.36)
Santa Clara	86,427	\$ 4,246	\$ 11,892	\$ (8,155)	\$ 122	\$ 8,105	\$ 188.13	\$ (94.36)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	67,586	\$ 3,320	\$ 9,299	\$ (6,377)	\$ 96	\$ 6,338	\$ 188.13	\$ (94.36)
Westlands	390,943	\$ 19,205	\$ 53,792	\$ (36,888)	\$ 553	\$ 36,662	\$ 188.13	\$ (94.36)
Westside	56,634	\$ 2,782	\$ 7,793	\$ (5,344)	\$ 80	\$ 5,311	\$ 188.13	\$ (94.36)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	1,350,530	\$ 66,344	\$ 185,826	\$ (127,431)	\$ 1,911	\$ 126,650	\$ 188.13	\$ (94.36)

Supplemental: Fixed Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc					
Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 3,059	\$ 1,739	\$ 5,457	\$ 10,418	\$ 1,304
Banta-Carbona	\$ 356	\$ 202	\$ 641	\$ 1,224	\$ 153
Cawelo	\$ 308	\$ 175	\$ 508	\$ 970	\$ 121
Glenn-Colusa	\$ 4	\$ 2	\$ 105	\$ 201	\$ 25
James	\$ 125	\$ 71	\$ 206	\$ 394	\$ 49
Lower Tule	\$ 139	\$ 79	\$ 233	\$ 445	\$ 56
Princeton	\$ (0)	\$ (0)	\$ 3	\$ 6	\$ 1
RD108	\$ 45	\$ 26	\$ 86	\$ 164	\$ 21
Santa Clara	\$ 490	\$ 278	\$ 765	\$ 1,461	\$ 183
Sonoma	\$ 629	\$ 358	\$ 1,011	\$ 1,929	\$ 241
West Stan	\$ 154	\$ 87	\$ 396	\$ 755	\$ 95
Westlands	\$ 6,603	\$ 3,754	\$ 11,294	\$ 21,561	\$ 2,699
Westside	\$ 48	\$ 27	\$ 136	\$ 259	\$ 32
Zone 7	\$ 214	\$ 122	\$ 320	\$ 610	\$ 76
PWRPA	\$ 12,173	\$ 6,920	\$ 21,161	\$ 40,399	\$ 5,056

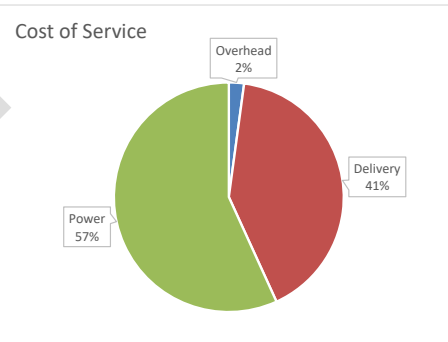
Supplemental: Other				
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ -		\$ -
Banta-Carbona	\$ -	\$ -		\$ -
Cawelo	\$ -	\$ -		\$ -
Glenn-Colusa	\$ -	\$ -		\$ -
James	\$ -	\$ -		\$ -
Lower Tule	\$ -	\$ -		\$ -
Princeton	\$ -	\$ -		\$ -
RD108	\$ -	\$ -		\$ -
Santa Clara	\$ 10,043	\$ -		\$ 10,043
Sonoma	\$ -	\$ -		\$ -
West Stan	\$ -	\$ -		\$ -
Westlands	\$ -	\$ -		\$ -
Westside	\$ -	\$ -		\$ -
Zone 7	\$ -	\$ -		\$ -
PWRPA	\$ 10,043	\$ -	\$ -	\$ 10,043

Power Water Resources Pooling Authority

August 2022

Operations Reconciliation Summary: August 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Load Cost	Power				Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt		District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	13,225,112	\$ 538	\$ 5,728	\$ 20,146	\$ 299,968	\$ 450,580	\$ 28,259	\$ 1,360,385	\$ -	\$ (84,037)	\$ (168,667)	\$ -	\$ 1,912,901
Banta-Carbona	1,473,166	\$ 538	\$ 88	\$ 5,118	\$ -	\$ 50,191	\$ 3,134	\$ 149,800	\$ -	\$ (10,361)	\$ (26,321)	\$ -	\$ 172,188
Cawelo	1,529,004	\$ 538	\$ 441	\$ 5,026	\$ 32,003	\$ 52,093	\$ 3,330	\$ 158,667	\$ -	\$ (4,993)	\$ (65,162)	\$ -	\$ 181,943
Glenn-Colusa	294,966	\$ 538	\$ 1,146	\$ 4,570	\$ 4,262	\$ 10,036	\$ 531	\$ 29,684	\$ -	\$ (9,332)	\$ (11,648)	\$ -	\$ 29,786
James	540,227	\$ 538	\$ 176	\$ 3,358	\$ 12,305	\$ 18,406	\$ 1,174	\$ 54,643	\$ -	\$ (1,988)	\$ (1,924)	\$ -	\$ 86,688
Lower Tule	864,685	\$ 538	\$ 88	\$ 4,166	\$ 31,081	\$ 29,460	\$ 1,887	\$ 90,916	\$ -	\$ (2,551)	\$ -	\$ -	\$ 155,585
Princeton	9,066	\$ 538	\$ 88	\$ 3,232	\$ 209	\$ 150	\$ 15	\$ 938	\$ -	\$ (1,138)	\$ (2,041)	\$ -	\$ 1,991
RD108	245,435	\$ 538	\$ 264	\$ 3,491	\$ 9,307	\$ 8,362	\$ 523	\$ 25,917	\$ -	\$ (1,678)	\$ (4,263)	\$ -	\$ 42,461
Santa Clara	2,390,197	\$ 538	\$ 793	\$ 6,131	\$ 64,604	\$ 56,130	\$ 5,253	\$ 246,982	\$ -	\$ (4,268)	\$ (25,307)	\$ 3,792	\$ 354,649
Sonoma	2,969,170	\$ 538	\$ 1,763	\$ 8,173	\$ 59,402	\$ 101,160	\$ 6,493	\$ 301,426	\$ 987	\$ (7,776)	\$ (36,266)	\$ -	\$ 435,898
West Stan	1,396,252	\$ 538	\$ 88	\$ 4,914	\$ 31,837	\$ 23,117	\$ 2,907	\$ 142,062	\$ -	\$ (14,547)	\$ (27,915)	\$ -	\$ 163,001
Westlands	27,959,146	\$ 538	\$ 45,738	\$ 38,410	\$ 960,309	\$ 952,569	\$ 60,243	\$ 2,877,108	\$ (65,491)	\$ (140,173)	\$ (86,319)	\$ -	\$ 4,642,933
Westside	323,091	\$ 538	\$ 88	\$ 3,227	\$ 7,987	\$ 11,008	\$ 643	\$ 32,807	\$ -	\$ (5,591)	\$ (1,582)	\$ -	\$ 49,124
Zone 7	1,102,600	\$ 538	\$ 441	\$ 3,919	\$ 30,856	\$ 20,138	\$ 2,441	\$ 110,171	\$ -	\$ (648)	\$ (9,759)	\$ -	\$ 158,097
TOTAL	54,322,117	\$ 7,530	\$ 56,931	\$ 113,882	\$ 1,544,130	\$ 1,783,400	\$ 116,835	\$ 5,581,505	\$ (64,503)	\$ (289,082)	\$ (467,174)	\$ 3,792	\$ 8,387,245
Percent of total cost		0.09%	0.68%	1.36%	18.41%	21.26%	1.39%	66.55%	-0.77%	-3.45%	-5.57%	0.05%	100.00%

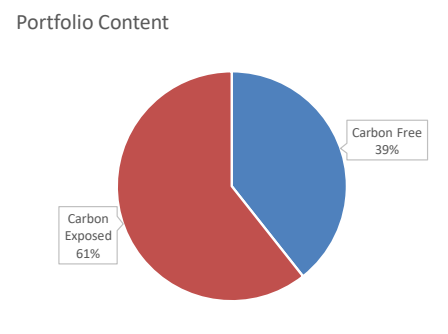
Summary of Costs as a Rate per Metered Energy (Cents per kWh)										
Participant	Metered Energy (kWh)	Cents per kWh								
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate		
Arvin-Edison	12,663,177	\$ 0.21	\$ 2.37	\$ 3.56	\$ 0.22	\$ 10.74	\$ (2.00)	\$ 15.11		
Banta-Carbona	1,473,166	\$ 0.39	\$ -	\$ 3.41	\$ 0.21	\$ 10.17	\$ (2.49)	\$ 11.69		
Cawelo	1,488,105	\$ 0.40	\$ 2.15	\$ 3.50	\$ 0.22	\$ 10.66	\$ (4.71)	\$ 12.23		
Glenn-Colusa	293,997	\$ 2.13	\$ 1.45	\$ 3.41	\$ 0.18	\$ 10.10	\$ (7.14)	\$ 10.13		
James	528,598	\$ 0.77	\$ 2.33	\$ 3.48	\$ 0.22	\$ 10.34	\$ (0.74)	\$ 16.40		
Lower Tule	804,163	\$ 0.60	\$ 3.86	\$ 3.66	\$ 0.23	\$ 11.31	\$ (0.32)	\$ 19.35		
Princeton	8,872	\$ 43.49	\$ 2.35	\$ 1.69	\$ 0.17	\$ 10.57	\$ (35.83)	\$ 22.44		
RD108	237,270	\$ 1.81	\$ 3.92	\$ 3.52	\$ 0.22	\$ 10.92	\$ (2.50)	\$ 17.90		
Santa Clara	2,336,534	\$ 0.32	\$ 2.76	\$ 2.40	\$ 0.22	\$ 10.57	\$ (1.10)	\$ 15.18		
Sonoma	2,920,074	\$ 0.36	\$ 2.03	\$ 3.46	\$ 0.22	\$ 10.32	\$ (1.47)	\$ 14.93		
West Stan	1,366,344	\$ 0.41	\$ 2.33	\$ 1.69	\$ 0.21	\$ 10.40	\$ (3.11)	\$ 11.93		
Westlands	26,084,259	\$ 0.32	\$ 3.68	\$ 3.65	\$ 0.23	\$ 11.03	\$ (1.12)	\$ 17.80		
Westside	316,106	\$ 1.22	\$ 2.53	\$ 3.48	\$ 0.20	\$ 10.38	\$ (2.27)	\$ 15.54		
Zone 7	1,078,852	\$ 0.45	\$ 2.86	\$ 1.87	\$ 0.23	\$ 10.21	\$ (0.96)	\$ 14.65		
PWRPA	51,599,515	\$ 0.35	\$ 2.99	\$ 3.46	\$ 0.23	\$ 10.82	\$ (1.58)	\$ 16.25		



Summary of Energy Portfolio								
Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	13,225,112	2,093,077	4,704,587	843,120	-	7,640,785	5,584,327	51%
Banta-Carbona	1,473,166	258,045	544,007	317,079	-	1,119,131	354,035	54%
Cawelo	1,529,004	124,725	1,317,027	266,860	-	1,708,612	(179,608)	94%
Glenn-Colusa	294,966	231,379	393,603	178,931	-	803,913	(508,948)	212%
James	540,227	49,629	123,241	141,484	-	314,354	225,873	32%
Lower Tule	864,685	62,890	-	-	-	62,890	801,795	7%
Princeton	9,066	9,066	133,480	149,385	-	291,931	(282,865)	1572%
RD108	245,435	41,785	156,222	79,370	-	277,376	(31,942)	81%
Santa Clara	2,390,197	107,116	758,460	228,056	-	1,093,632	1,296,565	36%
Sonoma	2,969,170	194,559	1,440,312	-	-	1,634,871	1,334,298	55%
West Stan	1,396,252	361,988	543,005	178,339	-	1,083,332	312,920	65%
Westlands	27,959,146	4,176,133	3,082,566	1,031,584	-	8,290,283	19,668,863	26%
Westside	323,091	139,015	81,451	149,442	-	369,908	(46,817)	68%
Zone 7	1,102,600	16,592	242,984	-	-	259,576	843,023	24%
PWRPA	54,322,117	7,866,000	13,520,945	3,563,650	-	24,950,595	29,371,522	39%

Percent of DLF Adjusted Energy:

14% 25% 7% 0% 46%



August 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	12,663,177	13,225,112	4.4%	39,281	\$ 1,360,385	\$ 102.86
Banta-Carbona	1,473,166	1,473,166	0.0%	2,666	\$ 149,800	\$ 101.69
Cawelo	1,488,105	1,529,004	2.7%	2,527	\$ 158,667	\$ 103.77
Glenn-Colusa	293,997	294,966	0.3%	614	\$ 29,684	\$ 100.63
James	528,598	540,227	2.2%	1,003	\$ 54,643	\$ 101.15
Lower Tule	804,163	864,685	7.5%	2,460	\$ 90,916	\$ 105.14
Princeton	8,872	9,066	2.2%	17	\$ 938	\$ 103.42
RD108	237,270	245,435	3.4%	728	\$ 25,917	\$ 105.60
Santa Clara	2,336,534	2,390,197	2.3%	4,821	\$ 246,982	\$ 103.33
Sonoma	2,920,074	2,969,170	1.7%	7,759	\$ 301,426	\$ 101.52
West Stan	1,366,344	1,396,252	2.2%	2,595	\$ 142,062	\$ 101.74
Westlands	26,084,259	27,959,146	7.2%	60,232	\$ 2,877,108	\$ 102.90
Westside	316,106	323,091	2.2%	651	\$ 32,807	\$ 101.54
Zone 7	1,078,852	1,102,600	2.2%	2,057	\$ 110,171	\$ 99.92
PWRPA	51,599,515	54,322,117	5.3%	127,411	\$ 5,581,505	\$ 102.75

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 987	\$ 987	\$ -	\$ -
West Stan	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Westlands	682,000	\$ -	\$ (66,996)	\$ 1,505	\$ (65,491)	\$ 2.21	\$ (98.23)
Westside	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
PWRPA	682,000	\$ -	\$ (66,996)	\$ 2,492	\$ (64,503)	\$ 3.65	\$ (98.23)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,278,694	\$ (178,375)	803,858	\$ (97,819)	\$ (15,281)	10,526	\$ 1,218	\$ (1,377)	\$ 206,084	\$ 1,512	2,093,077	\$ (84,037)	\$ 99.76	\$ (139.91)
Banta-Carbona	157,705	\$ (22,000)	99,142	\$ (12,064)	\$ (1,884)	1,197	\$ 137	\$ (154)	\$ 25,417	\$ 187	258,045	\$ (10,361)	\$ 99.75	\$ (139.90)
Cawelo	75,735	\$ (10,565)	47,611	\$ (5,794)	\$ (911)	1,379	\$ 158	\$ (178)	\$ 12,206	\$ 90	124,725	\$ (4,993)	\$ 99.85	\$ (139.88)
Glenn-Colusa	142,489	\$ (19,877)	89,577	\$ (10,900)	\$ (1,689)	(687)	\$ (70)	\$ 71	\$ 22,965	\$ 169	231,379	\$ (9,332)	\$ 99.68	\$ (140.01)
James	30,172	\$ (4,209)	18,968	\$ (2,308)	\$ (362)	490	\$ 56	\$ (63)	\$ 4,863	\$ 36	49,629	\$ (1,988)	\$ 99.83	\$ (139.88)
Lower Tule	38,958	\$ (5,435)	24,491	\$ (2,980)	\$ (459)	(559)	\$ (52)	\$ 49	\$ 6,279	\$ 46	62,890	\$ (2,551)	\$ 99.75	\$ (140.32)
Princeton	31,965	\$ (4,459)	20,095	\$ (2,445)	\$ (66)	(42,994)	\$ (4,971)	\$ 5,614	\$ 5,152	\$ 38	9,066	\$ (1,138)	\$ 24.12	\$ (149.68)
RD108	25,536	\$ (3,562)	16,053	\$ (1,953)	\$ (305)	196	\$ 23	\$ (25)	\$ 4,116	\$ 30	41,785	\$ (1,678)	\$ 99.76	\$ (139.91)
Santa Clara	64,397	\$ (8,983)	40,484	\$ (4,926)	\$ (782)	2,236	\$ 256	\$ (288)	\$ 10,379	\$ 76	107,116	\$ (4,268)	\$ 100.00	\$ (139.84)
Sonoma	117,765	\$ (16,428)	74,034	\$ (9,009)	\$ (1,420)	2,760	\$ 316	\$ (354)	\$ 18,980	\$ 139	194,559	\$ (7,776)	\$ 99.90	\$ (139.86)
West Stan	221,642	\$ (30,918)	139,336	\$ (16,955)	\$ (2,643)	1,010	\$ 116	\$ (130)	\$ 35,721	\$ 262	361,988	\$ (14,547)	\$ 99.73	\$ (139.91)
Westlands	2,131,162	\$ (297,292)	1,339,767	\$ (163,032)	\$ (25,510)	23,204	\$ 2,669	\$ (3,004)	\$ 343,475	\$ 2,520	3,494,133	\$ (140,173)	\$ 99.79	\$ (139.90)
Westside	85,249	\$ (11,892)	53,592	\$ (6,521)	\$ (1,015)	175	\$ 20	\$ (23)	\$ 13,739	\$ 101	139,015	\$ (5,591)	\$ 99.70	\$ (139.92)
Zone 7	9,532	\$ (1,330)	5,992	\$ (729)	\$ (121)	1,068	\$ 123	\$ (138)	\$ 1,536	\$ 11	16,592	\$ (648)	\$ 100.66	\$ (139.69)
PWRPA	4,411,000	\$ (615,324)	2,773,000	\$ (337,437)	\$ (52,448)	-	\$ 0	\$ -	\$ 710,911	\$ 5,217	7,184,000	\$ (289,082)	\$ 99.68	\$ (139.92)

August 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,219,306	\$ 76,816	\$ (111,197)	\$ 556	\$ (33,824)	\$ 63.46	\$ (91.20)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	190,467	\$ 11,999	\$ (17,370)	\$ 87	\$ (5,284)	\$ 63.46	\$ (91.20)
Glenn-Colusa	100,766	\$ 6,348	\$ (9,190)	\$ 46	\$ (2,795)	\$ 63.46	\$ (91.20)
James	25,629	\$ 1,615	\$ (2,337)	\$ 12	\$ (711)	\$ 63.46	\$ (91.20)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	35,868	\$ 2,260	\$ (3,271)	\$ 16	\$ (995)	\$ 63.46	\$ (91.20)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	127,476	\$ 8,031	\$ (11,625)	\$ 58	\$ (3,536)	\$ 63.46	\$ (91.20)
Sonoma	333,078	\$ 20,984	\$ (30,376)	\$ 152	\$ (9,240)	\$ 63.46	\$ (91.20)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	1,099,397	\$ 69,262	\$ (100,261)	\$ 501	\$ (30,498)	\$ 63.46	\$ (91.20)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	47,760	\$ 3,009	\$ (4,356)	\$ 22	\$ (1,325)	\$ 63.46	\$ (91.20)
PWRPA	3,179,747	\$ 200,324	\$ (289,982)	\$ 1,450	\$ (88,208)	\$ 63.46	\$ (91.20)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,045,266	\$ 61,409	\$ (76,963)	\$ 740	\$ (14,814)	\$ 59.46	\$ (73.63)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	89,586	\$ 5,263	\$ (6,596)	\$ 63	\$ (1,270)	\$ 59.46	\$ (73.63)
James	29,862	\$ 1,754	\$ (2,199)	\$ 21	\$ (423)	\$ 59.46	\$ (73.63)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	29,862	\$ 1,754	\$ (2,199)	\$ 21	\$ (423)	\$ 59.46	\$ (73.63)
RD108	74,671	\$ 4,387	\$ (5,498)	\$ 53	\$ (1,058)	\$ 59.46	\$ (73.63)
Santa Clara	223,981	\$ 13,159	\$ (16,492)	\$ 159	\$ (3,174)	\$ 59.46	\$ (73.63)
Sonoma	836,232	\$ 49,129	\$ (61,572)	\$ 592	\$ (11,851)	\$ 59.46	\$ (73.63)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	895,956	\$ 52,637	\$ (65,969)	\$ 634	\$ (12,698)	\$ 59.46	\$ (73.63)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	59,724	\$ 3,509	\$ (4,397)	\$ 42	\$ (846)	\$ 59.46	\$ (73.63)
PWRPA	3,285,139	\$ 193,002	\$ (241,885)	\$ 2,326	\$ (46,557)	\$ 59.46	\$ (73.63)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	2,439,014	\$ 65,483	\$ (204,144)	\$ 2,083	1,002	\$ 5,694	\$ (7,647)	\$ 602	2,440,016	\$ (137,929)	\$ 30.27	\$ (86.80)
Banta-Carbona	542,003	\$ 14,552	\$ (45,365)	\$ 463	2,004	\$ 11,389	\$ (15,294)	\$ 1,204	544,007	\$ (33,052)	\$ 50.75	\$ (111.51)
Cawelo	1,124,657	\$ 30,195	\$ (94,133)	\$ 961	1,903	\$ 10,819	\$ (14,530)	\$ 1,144	1,126,560	\$ (65,544)	\$ 38.27	\$ (96.46)
Glenn-Colusa	203,251	\$ 5,457	\$ (17,012)	\$ 174	-	\$ -	\$ -	\$ -	203,251	\$ (11,381)	\$ 27.70	\$ (83.70)
James	67,750	\$ 1,819	\$ (5,671)	\$ 58	-	\$ -	\$ -	\$ -	67,750	\$ (3,794)	\$ 27.70	\$ (83.70)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	67,750	\$ 1,819	\$ (5,671)	\$ 58	-	\$ -	\$ -	\$ -	67,750	\$ (3,794)	\$ 27.70	\$ (83.70)
RD108	81,300	\$ 2,183	\$ (6,805)	\$ 69	250	\$ 1,424	\$ (1,912)	\$ 150	81,551	\$ (4,890)	\$ 46.92	\$ (106.89)
Santa Clara	406,502	\$ 10,914	\$ (34,024)	\$ 347	501	\$ 2,847	\$ (3,824)	\$ 301	407,003	\$ (23,438)	\$ 35.40	\$ (92.99)
Sonoma	271,002	\$ 7,276	\$ (22,683)	\$ 231	-	\$ -	\$ -	\$ -	271,002	\$ (15,175)	\$ 27.70	\$ (83.70)
West Stan	542,003	\$ 14,552	\$ (45,365)	\$ 463	1,002	\$ 5,694	\$ (7,647)	\$ 602	543,005	\$ (31,701)	\$ 39.25	\$ (97.63)
Westlands	1,084,006	\$ 29,104	\$ (90,731)	\$ 926	3,206	\$ 18,222	\$ (24,471)	\$ 1,926	1,087,212	\$ (65,024)	\$ 46.15	\$ (105.96)
Westside	81,300	\$ 2,183	\$ (6,805)	\$ 69	150	\$ 854	\$ (1,147)	\$ 90	81,451	\$ (4,755)	\$ 39.25	\$ (97.63)
Zone 7	135,501	\$ 3,638	\$ (11,341)	\$ 116	-	\$ -	\$ -	\$ -	135,501	\$ (7,588)	\$ 27.70	\$ (83.70)
PWRPA	7,046,042	\$ 189,173	\$ (589,749)	\$ 6,019	10,018	\$ 56,944	\$ (76,472)	\$ 6,019	7,056,059	\$ (408,067)	\$ 36.59	\$ (94.42)

August 2022

Specific Projects: Lodi Energy Center

Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	843,120	\$ 15,696	\$ 93,145	\$ (91,782)	\$ 841	\$ 17,900	\$ 130.09	\$ (108.86)
Banta-Carbona	317,079	\$ 5,903	\$ 35,030	\$ (34,517)	\$ 316	\$ 6,732	\$ 130.09	\$ (108.86)
Cawelo	266,860	\$ 4,968	\$ 29,482	\$ (29,051)	\$ 266	\$ 5,666	\$ 130.09	\$ (108.86)
Glenn-Colusa	178,931	\$ 3,331	\$ 19,768	\$ (19,478)	\$ 178	\$ 3,799	\$ 130.09	\$ (108.86)
James	141,484	\$ 2,634	\$ 15,631	\$ (15,402)	\$ 141	\$ 3,004	\$ 130.09	\$ (108.86)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	149,385	\$ 2,781	\$ 16,504	\$ (16,262)	\$ 149	\$ 3,172	\$ 130.09	\$ (108.86)
RD108	79,370	\$ 1,478	\$ 8,769	\$ (8,640)	\$ 79	\$ 1,685	\$ 130.09	\$ (108.86)
Santa Clara	228,056	\$ 4,246	\$ 25,195	\$ (24,826)	\$ 227	\$ 4,842	\$ 130.09	\$ (108.86)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	178,339	\$ 3,320	\$ 19,702	\$ (19,414)	\$ 178	\$ 3,786	\$ 130.09	\$ (108.86)
Westlands	1,031,584	\$ 19,205	\$ 113,966	\$ (112,299)	\$ 1,029	\$ 21,901	\$ 130.09	\$ (108.86)
Westside	149,442	\$ 2,782	\$ 16,510	\$ (16,268)	\$ 149	\$ 3,173	\$ 130.09	\$ (108.86)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	3,563,650	\$ 66,344	\$ 393,701	\$ (387,940)	\$ 3,553	\$ 75,658	\$ 130.09	\$ (108.86)

Supplemental: Fixed Contracts

Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts

Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc

Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 4,451	\$ 1,549	\$ 5,152	\$ 6,971	\$ 10,137
Banta-Carbona	\$ 486	\$ 169	\$ 574	\$ 776	\$ 1,129
Cawelo	\$ 561	\$ 195	\$ 596	\$ 806	\$ 1,172
Glenn-Colusa	\$ 25	\$ 9	\$ 115	\$ 155	\$ 226
James	\$ 196	\$ 68	\$ 210	\$ 285	\$ 414
Lower Tule	\$ 321	\$ 112	\$ 337	\$ 456	\$ 663
Princeton	\$ (0)	\$ (0)	\$ 4	\$ 5	\$ 7
RD108	\$ 81	\$ 28	\$ 96	\$ 129	\$ 188
Santa Clara	\$ 913	\$ 318	\$ 931	\$ 1,260	\$ 1,832
Sonoma	\$ 1,109	\$ 386	\$ 1,157	\$ 1,565	\$ 2,276
West Stan	\$ 414	\$ 144	\$ 544	\$ 736	\$ 1,070
Westlands	\$ 9,782	\$ 3,403	\$ 10,892	\$ 14,736	\$ 21,430
Westside	\$ 74	\$ 26	\$ 126	\$ 170	\$ 248
Zone 7	\$ 434	\$ 151	\$ 430	\$ 581	\$ 845
PWRPA	\$ 18,848	\$ 6,557	\$ 21,161	\$ 28,632	\$ 41,637

Supplemental: Other

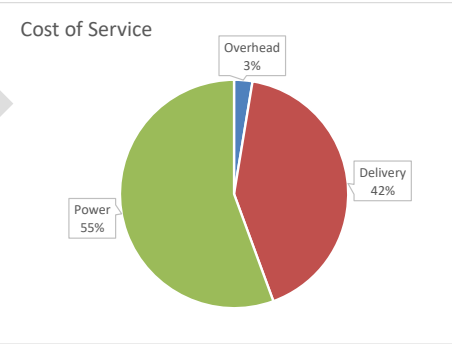
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	\$ -	\$ -	\$ -	\$ -
Cawelo	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	\$ -	\$ -	\$ -	\$ -
James	\$ -	\$ -	\$ -	\$ -
Lower Tule	\$ -	\$ -	\$ -	\$ -
Princeton	\$ -	\$ -	\$ -	\$ -
RD108	\$ -	\$ -	\$ -	\$ -
Santa Clara	\$ 3,792	\$ -	\$ -	\$ 3,792
Sonoma	\$ -	\$ -	\$ -	\$ -
West Stan	\$ -	\$ -	\$ -	\$ -
Westlands	\$ -	\$ -	\$ -	\$ -
Westside	\$ -	\$ -	\$ -	\$ -
Zone 7	\$ -	\$ -	\$ -	\$ -
PWRPA	\$ 3,792	\$ -	\$ -	\$ 3,792

Power Water Resources Pooling Authority

September 2022

Operations Reconciliation Summary: September 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Power					Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt	Load Cost	District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	11,052,318	\$ 369	\$ 5,727	\$ 22,707	\$ 321,975	\$ 376,335	\$ 36,435	\$ 1,358,632	\$ -	\$ (186,931)	\$ (190,316)	\$ -	\$ 1,744,933
Banta-Carbona	1,623,493	\$ 369	\$ 88	\$ 5,796	\$ -	\$ 55,281	\$ 5,393	\$ 175,145	\$ -	\$ (23,050)	\$ (36,682)	\$ -	\$ 182,339
Cawelo	1,353,298	\$ 369	\$ 441	\$ 5,587	\$ 32,089	\$ 46,210	\$ 4,572	\$ 164,328	\$ -	\$ (11,090)	\$ (71,073)	\$ -	\$ 171,432
Glenn-Colusa	325,851	\$ 369	\$ 1,145	\$ 5,048	\$ 6,766	\$ 11,085	\$ 930	\$ 36,638	\$ -	\$ (20,791)	\$ (15,486)	\$ -	\$ 25,705
James	423,443	\$ 369	\$ 176	\$ 3,678	\$ 9,296	\$ 14,418	\$ 1,422	\$ 53,272	\$ -	\$ (4,413)	\$ (4,928)	\$ -	\$ 73,290
Lower Tule	710,594	\$ 369	\$ 88	\$ 4,578	\$ 24,581	\$ 24,196	\$ 2,402	\$ 90,061	\$ -	\$ (5,712)	\$ -	\$ -	\$ 140,563
Princeton	8,215	\$ 369	\$ 88	\$ 3,525	\$ 208	\$ 136	\$ 12	\$ 1,003	\$ -	\$ (3,101)	\$ (5,147)	\$ -	\$ (2,907)
RD108	128,119	\$ 369	\$ 264	\$ 3,793	\$ 8,497	\$ 4,362	\$ 408	\$ 13,783	\$ -	\$ (3,731)	\$ (7,542)	\$ -	\$ 20,203
Santa Clara	2,102,463	\$ 369	\$ 793	\$ 6,851	\$ 61,577	\$ 49,492	\$ 7,176	\$ 248,619	\$ -	\$ (9,468)	\$ (32,915)	\$ 2,913	\$ 335,408
Sonoma	2,674,337	\$ 369	\$ 1,762	\$ 9,158	\$ 44,887	\$ 91,062	\$ 9,079	\$ 311,274	\$ 989	\$ (17,280)	\$ (47,019)	\$ -	\$ 404,280
West Stan	1,495,860	\$ 369	\$ 88	\$ 5,546	\$ 33,087	\$ 24,738	\$ 4,865	\$ 168,422	\$ -	\$ (32,373)	\$ (32,553)	\$ -	\$ 172,187
Westlands	20,678,699	\$ 369	\$ 45,727	\$ 43,191	\$ 918,977	\$ 692,319	\$ 68,527	\$ 2,579,332	\$ (55,715)	\$ (311,598)	\$ (121,170)	\$ -	\$ 3,859,959
Westside	266,989	\$ 369	\$ 88	\$ 3,532	\$ 7,383	\$ 9,091	\$ 806	\$ 31,282	\$ -	\$ (12,443)	\$ (4,794)	\$ -	\$ 35,312
Zone 7	959,475	\$ 369	\$ 441	\$ 4,347	\$ 32,605	\$ 18,112	\$ 3,302	\$ 112,829	\$ -	\$ (1,416)	\$ (9,983)	\$ -	\$ 160,606
TOTAL	43,803,154	\$ 5,159	\$ 56,917	\$ 127,337	\$ 1,501,927	\$ 1,416,838	\$ 145,329	\$ 5,344,619	\$ (54,726)	\$ (643,398)	\$ (579,607)	\$ 2,913	\$ 7,323,310
Percent of total cost		0.07%	0.78%	1.74%	20.51%	19.35%	1.98%	72.98%	-0.75%	-8.79%	-7.91%	0.04%	100.00%

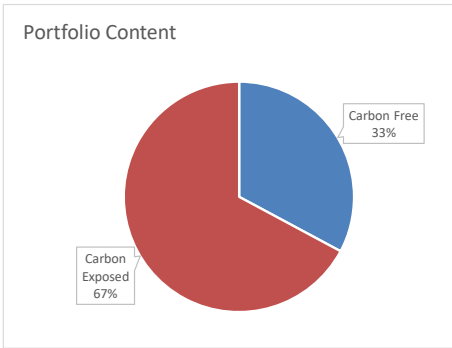
Summary of Costs as a Rate per Metered Energy (Cents per kWh)										
Participant	Metered Energy (kWh)	Cents per kWh								
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate		
Arvin-Edison	10,579,915	\$ 0.27	\$ 3.04	\$ 3.56	\$ 0.34	\$ 12.84	\$ (3.57)	\$ 16.49		
Banta-Carbona	1,623,493	\$ 0.39	-	\$ 3.41	\$ 0.33	\$ 10.79	\$ (3.68)	\$ 11.23		
Cawelo	1,322,347	\$ 0.48	\$ 2.43	\$ 3.49	\$ 0.35	\$ 12.43	\$ (6.21)	\$ 12.96		
Glenn-Colusa	321,525	\$ 2.04	\$ 2.10	\$ 3.45	\$ 0.29	\$ 11.39	\$ (11.28)	\$ 7.99		
James	414,660	\$ 1.02	\$ 2.24	\$ 3.48	\$ 0.34	\$ 12.85	\$ (2.25)	\$ 17.67		
Lower Tule	661,484	\$ 0.76	\$ 3.72	\$ 3.66	\$ 0.36	\$ 13.61	\$ (0.86)	\$ 21.25		
Princeton	8,042	\$ 49.51	\$ 2.59	\$ 1.69	\$ 0.15	\$ 12.47	\$ (102.56)	\$ (36.15)		
RD108	123,598	\$ 3.58	\$ 6.87	\$ 3.53	\$ 0.33	\$ 11.15	\$ (9.12)	\$ 16.35		
Santa Clara	2,056,136	\$ 0.39	\$ 2.99	\$ 2.41	\$ 0.35	\$ 12.09	\$ (1.92)	\$ 16.31		
Sonoma	2,635,511	\$ 0.43	\$ 1.70	\$ 3.46	\$ 0.34	\$ 11.81	\$ (2.40)	\$ 15.34		
West Stan	1,464,597	\$ 0.41	\$ 2.26	\$ 1.69	\$ 0.33	\$ 11.50	\$ (4.43)	\$ 11.76		
Westlands	19,310,799	\$ 0.46	\$ 4.76	\$ 3.59	\$ 0.35	\$ 13.36	\$ (2.53)	\$ 19.99		
Westside	261,316	\$ 1.53	\$ 2.83	\$ 3.48	\$ 0.31	\$ 11.97	\$ (6.60)	\$ 13.51		
Zone 7	939,942	\$ 0.55	\$ 3.47	\$ 1.93	\$ 0.35	\$ 12.00	\$ (1.21)	\$ 17.09		
PWRPA	41,723,366	\$ 0.45	\$ 3.60	\$ 3.40	\$ 0.35	\$ 12.81	\$ (3.06)	\$ 17.55		



Summary of Energy Portfolio								
Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	11,052,318	885,772	3,805,209	631,463	-	5,322,444	5,729,874	42%
Banta-Carbona	1,623,493	109,358	439,091	237,480	-	785,929	837,564	34%
Cawelo	1,353,298	52,707	1,063,356	199,868	-	1,315,930	37,367	82%
Glenn-Colusa	325,851	98,404	318,288	134,012	-	550,704	(224,854)	128%
James	423,443	20,961	99,589	105,966	-	226,516	196,928	28%
Lower Tule	710,594	27,103	-	-	-	27,103	683,491	4%
Princeton	8,215	8,175	107,959	111,883	-	228,017	(219,802)	1414%
RD108	128,119	17,665	126,139	59,445	-	203,249	(75,131)	112%
Santa Clara	2,102,463	45,151	613,022	170,805	-	828,978	1,273,486	31%
Sonoma	2,674,337	82,184	1,166,181	-	-	1,248,365	1,425,972	47%
West Stan	1,495,860	153,406	437,550	133,569	-	724,525	771,335	40%
Westlands	20,678,699	1,867,324	2,499,872	772,615	-	5,139,810	15,538,889	21%
Westside	266,989	58,903	65,633	111,926	-	236,461	30,527	47%
Zone 7	959,475	6,887	196,318	-	-	203,205	756,270	21%
PWRPA	43,803,154	3,434,000	10,938,206	2,669,030	-	17,041,236	26,761,918	33%

Percent of DLF Adjusted Energy:

8% 25% 6% 0% 39%



September 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	10,579,915	11,052,318	4.5%	27,456	\$ 1,358,632	\$ 122.93
Banta-Carbona	1,623,493	1,623,493	0.0%	3,475	\$ 175,145	\$ 107.88
Cawelo	1,322,347	1,353,298	2.3%	2,534	\$ 164,328	\$ 121.43
Glenn-Colusa	321,525	325,851	1.3%	997	\$ 36,638	\$ 112.44
James	414,660	423,443	2.1%	757	\$ 53,272	\$ 125.81
Lower Tule	661,484	710,594	7.4%	1,931	\$ 90,061	\$ 126.74
Princeton	8,042	8,215	2.1%	17	\$ 1,003	\$ 122.09
RD108	123,598	128,119	3.7%	660	\$ 13,783	\$ 107.58
Santa Clara	2,056,136	2,102,463	2.3%	4,680	\$ 248,619	\$ 118.25
Sonoma	2,635,511	2,674,337	1.5%	7,866	\$ 311,274	\$ 116.39
West Stan	1,464,597	1,495,860	2.1%	2,698	\$ 168,422	\$ 112.59
Westlands	19,310,799	20,678,699	7.1%	56,225	\$ 2,579,332	\$ 124.73
Westside	261,316	266,989	2.2%	602	\$ 31,282	\$ 117.17
Zone 7	939,942	959,475	2.1%	2,173	\$ 112,829	\$ 117.59
PWRPA	41,723,366	43,803,154	5.0%	112,071	\$ 5,344,619	\$ 122.01

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -		\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -		\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -		\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -		\$ -	\$ -	\$ -
James	-	\$ -	\$ -		\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -		\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -		\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -		\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -		\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 989	\$ 989	\$ -	\$ -
West Stan	-	\$ -	\$ -		\$ -	\$ -	\$ -
Westlands	390,000	\$ -	\$ (57,224)	\$ 1,510	\$ (55,715)	\$ 3.87	\$ (146.73)
Westside	-	\$ -	\$ -		\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -		\$ -	\$ -	\$ -
PWRPA	390,000	\$ -	\$ (57,224)	\$ 2,498	\$ (54,726)	\$ 6.41	\$ (146.73)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	864,444	\$ (270,862)	17,973	\$ (3,958)	\$ (506)	3,354	\$ 751	\$ (1,168)	\$ 87,322	\$ 1,490	885,772	\$ (186,931)	\$ 101.11	\$ (312.15)
Banta-Carbona	106,615	\$ (33,406)	2,217	\$ (488)	\$ (63)	527	\$ 99	\$ (145)	\$ 10,770	\$ 184	109,358	\$ (23,050)	\$ 101.07	\$ (311.84)
Cawelo	51,200	\$ (16,043)	1,065	\$ (234)	\$ (30)	443	\$ 88	\$ (131)	\$ 5,172	\$ 88	52,707	\$ (11,090)	\$ 101.46	\$ (311.88)
Glenn-Colusa	96,328	\$ (30,183)	2,003	\$ (441)	\$ (56)	73	\$ 15	\$ (22)	\$ 9,731	\$ 166	98,404	\$ (20,791)	\$ 100.72	\$ (312.00)
James	20,397	\$ (6,391)	424	\$ (93)	\$ (12)	140	\$ 26	\$ (37)	\$ 2,060	\$ 35	20,961	\$ (4,413)	\$ 101.19	\$ (311.70)
Lower Tule	26,337	\$ (8,252)	548	\$ (121)	\$ (15)	218	\$ 51	\$ (80)	\$ 2,660	\$ 45	27,103	\$ (5,712)	\$ 101.72	\$ (312.46)
Princeton	21,610	\$ (6,771)	449	\$ (99)	\$ (5)	(13,884)	\$ (2,939)	\$ 4,492	\$ 2,183	\$ 37	8,175	\$ (3,101)	\$ (87.90)	\$ (291.42)
RD108	17,263	\$ (5,409)	359	\$ (79)	\$ (10)	43	\$ 11	\$ (17)	\$ 1,744	\$ 30	17,665	\$ (3,731)	\$ 101.00	\$ (312.20)
Santa Clara	43,535	\$ (13,641)	905	\$ (199)	\$ (26)	711	\$ 145	\$ (219)	\$ 4,398	\$ 75	45,151	\$ (9,468)	\$ 102.27	\$ (311.96)
Sonoma	79,614	\$ (24,946)	1,655	\$ (364)	\$ (47)	915	\$ 193	\$ (295)	\$ 8,042	\$ 137	82,184	\$ (17,280)	\$ 101.88	\$ (312.14)
West Stan	149,838	\$ (46,950)	3,115	\$ (686)	\$ (88)	452	\$ 89	\$ (133)	\$ 15,136	\$ 258	153,406	\$ (32,373)	\$ 100.93	\$ (311.96)
Westlands	1,440,745	\$ (451,438)	29,955	\$ (6,596)	\$ (845)	6,624	\$ 1,399	\$ (2,138)	\$ 145,537	\$ 2,483	1,477,324	\$ (311,598)	\$ 101.14	\$ (312.06)
Westside	57,631	\$ (18,058)	1,198	\$ (264)	\$ (34)	74	\$ 16	\$ (25)	\$ 5,822	\$ 99	58,903	\$ (12,443)	\$ 100.79	\$ (312.04)
Zone 7	6,444	\$ (2,019)	134	\$ (30)	\$ (4)	309	\$ 56	\$ (81)	\$ 651	\$ 11	6,887	\$ (1,416)	\$ 104.28	\$ (309.85)
PWRPA	2,982,000	\$ (934,371)	62,000	\$ (13,653)	\$ (1,740)	-	\$ (0)	\$ (0)	\$ 301,227	\$ 5,139	3,044,000	\$ (643,398)	\$ 100.65	\$ (312.01)

September 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	996,796	\$ 62,798	\$ (90,159)	\$ 527	\$ (26,833)	\$ 63.53	\$ (90.45)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	155,709	\$ 9,810	\$ (14,084)	\$ 82	\$ (4,192)	\$ 63.53	\$ (90.45)
Glenn-Colusa	82,377	\$ 5,190	\$ (7,451)	\$ 44	\$ (2,218)	\$ 63.53	\$ (90.45)
James	20,952	\$ 1,320	\$ (1,895)	\$ 11	\$ (564)	\$ 63.53	\$ (90.45)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	29,322	\$ 1,847	\$ (2,652)	\$ 16	\$ (789)	\$ 63.53	\$ (90.45)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	104,213	\$ 6,565	\$ (9,426)	\$ 55	\$ (2,805)	\$ 63.53	\$ (90.45)
Sonoma	272,295	\$ 17,155	\$ (24,629)	\$ 144	\$ (7,330)	\$ 63.53	\$ (90.45)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	898,770	\$ 56,622	\$ (81,292)	\$ 476	\$ (24,194)	\$ 63.53	\$ (90.45)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	39,044	\$ 2,460	\$ (3,531)	\$ 21	\$ (1,051)	\$ 63.53	\$ (90.45)
PWRPA	2,599,479	\$ 163,767	\$ (235,119)	\$ 1,375	\$ (69,977)	\$ 63.53	\$ (90.45)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	844,831	\$ 49,652	\$ (82,298)	\$ 819	\$ (31,827)	\$ 59.74	\$ (97.41)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	72,407	\$ 4,255	\$ (7,053)	\$ 70	\$ (2,728)	\$ 59.74	\$ (97.41)
James	24,136	\$ 1,418	\$ (2,351)	\$ 23	\$ (909)	\$ 59.74	\$ (97.41)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	24,136	\$ 1,418	\$ (2,351)	\$ 23	\$ (909)	\$ 59.74	\$ (97.41)
RD108	60,353	\$ 3,547	\$ (5,879)	\$ 59	\$ (2,274)	\$ 59.74	\$ (97.41)
Santa Clara	181,031	\$ 10,639	\$ (17,635)	\$ 176	\$ (6,820)	\$ 59.74	\$ (97.41)
Sonoma	675,881	\$ 39,723	\$ (65,840)	\$ 655	\$ (25,463)	\$ 59.74	\$ (97.41)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	724,152	\$ 42,560	\$ (70,543)	\$ 702	\$ (27,281)	\$ 59.74	\$ (97.41)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	48,272	\$ 2,837	\$ (4,702)	\$ 47	\$ (1,819)	\$ 59.74	\$ (97.41)
PWRPA	2,655,199	\$ 156,050	\$ (258,654)	\$ 2,574	\$ (100,030)	\$ 59.74	\$ (97.41)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,962,041	\$ 52,745	\$ (183,983)	\$ 3,204	1,541	\$ 5,487	\$ (10,642)	\$ 926	1,963,582	\$ (132,263)	\$ 31.76	\$ (99.12)
Banta-Carbona	436,009	\$ 11,721	\$ (40,885)	\$ 712	3,082	\$ 10,975	\$ (21,285)	\$ 1,851	439,091	\$ (36,911)	\$ 57.53	\$ (141.59)
Cawelo	904,719	\$ 24,321	\$ (84,837)	\$ 1,477	2,928	\$ 10,426	\$ (20,221)	\$ 1,759	907,647	\$ (67,074)	\$ 41.85	\$ (115.75)
Glenn-Colusa	163,503	\$ 4,395	\$ (15,332)	\$ 267	-	\$ -	\$ -	\$ -	163,503	\$ (10,669)	\$ 28.52	\$ (93.77)
James	54,501	\$ 1,465	\$ (5,111)	\$ 89	-	\$ -	\$ -	\$ -	54,501	\$ (3,556)	\$ 28.52	\$ (93.77)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	54,501	\$ 1,465	\$ (5,111)	\$ 89	-	\$ -	\$ -	\$ -	54,501	\$ (3,556)	\$ 28.52	\$ (93.77)
RD108	65,401	\$ 1,758	\$ (6,133)	\$ 107	385	\$ 1,372	\$ (2,661)	\$ 231	65,787	\$ (5,325)	\$ 52.72	\$ (133.67)
Santa Clara	327,007	\$ 8,791	\$ (30,664)	\$ 534	771	\$ 2,744	\$ (5,321)	\$ 463	327,777	\$ (23,454)	\$ 38.23	\$ (109.79)
Sonoma	218,005	\$ 5,861	\$ (20,443)	\$ 356	-	\$ -	\$ -	\$ -	218,005	\$ (14,226)	\$ 28.52	\$ (93.77)
West Stan	436,009	\$ 11,721	\$ (40,885)	\$ 712	1,541	\$ 5,487	\$ (10,642)	\$ 926	437,550	\$ (32,681)	\$ 43.07	\$ (117.76)
Westlands	872,018	\$ 23,442	\$ (81,770)	\$ 1,424	4,931	\$ 17,560	\$ (34,056)	\$ 2,962	876,950	\$ (70,438)	\$ 51.76	\$ (132.08)
Westside	65,401	\$ 1,758	\$ (6,133)	\$ 107	231	\$ 823	\$ (1,596)	\$ 139	65,633	\$ (4,902)	\$ 43.07	\$ (117.76)
Zone 7	109,002	\$ 2,930	\$ (10,221)	\$ 178	-	\$ -	\$ -	\$ -	109,002	\$ (7,113)	\$ 28.52	\$ (93.77)
PWRPA	5,668,118	\$ 152,375	\$ (531,506)	\$ 9,255	15,411	\$ 54,874	\$ (106,424)	\$ 9,255	5,683,529	\$ (412,170)	\$ 39.72	\$ (112.24)

September 2022

Specific Projects: Lodi Energy Center								
Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	631,463	\$ 15,696	\$ 87,629	\$ (103,099)	\$ 381	\$ 608	\$ 164.23	\$ (163.27)
Banta-Carbona	237,480	\$ 5,903	\$ 32,956	\$ (38,773)	\$ 143	\$ 229	\$ 164.23	\$ (163.27)
Cawelo	199,868	\$ 4,968	\$ 27,736	\$ (32,632)	\$ 121	\$ 192	\$ 164.23	\$ (163.27)
Glenn-Colusa	134,012	\$ 3,331	\$ 18,597	\$ (21,880)	\$ 81	\$ 129	\$ 164.23	\$ (163.27)
James	105,966	\$ 2,634	\$ 14,705	\$ (17,301)	\$ 64	\$ 102	\$ 164.23	\$ (163.27)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	111,883	\$ 2,781	\$ 15,526	\$ (18,267)	\$ 67	\$ 108	\$ 164.23	\$ (163.27)
RD108	59,445	\$ 1,478	\$ 8,249	\$ (9,706)	\$ 36	\$ 57	\$ 164.23	\$ (163.27)
Santa Clara	170,805	\$ 4,246	\$ 23,703	\$ (27,887)	\$ 103	\$ 164	\$ 164.23	\$ (163.27)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	133,569	\$ 3,320	\$ 18,536	\$ (21,808)	\$ 81	\$ 129	\$ 164.23	\$ (163.27)
Westlands	772,615	\$ 19,205	\$ 107,217	\$ (126,145)	\$ 466	\$ 744	\$ 164.23	\$ (163.27)
Westside	111,926	\$ 2,782	\$ 15,532	\$ (18,274)	\$ 68	\$ 108	\$ 164.23	\$ (163.27)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	2,669,030	\$ 66,344	\$ 370,387	\$ (435,772)	\$ 1,610	\$ 2,569	\$ 164.23	\$ (163.27)

Supplemental: Fixed Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc					
Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 18,831	\$ 1,395	\$ 5,339	\$ 5,910	\$ 4,960
Banta-Carbona	\$ 2,805	\$ 208	\$ 784	\$ 868	\$ 729
Cawelo	\$ 2,409	\$ 178	\$ 654	\$ 724	\$ 607
Glenn-Colusa	\$ 421	\$ 31	\$ 157	\$ 174	\$ 146
James	\$ 745	\$ 55	\$ 205	\$ 226	\$ 190
Lower Tule	\$ 1,266	\$ 94	\$ 343	\$ 380	\$ 319
Princeton	\$ 0	\$ 0	\$ 4	\$ 4	\$ 4
RD108	\$ 205	\$ 15	\$ 62	\$ 69	\$ 57
Santa Clara	\$ 3,811	\$ 282	\$ 1,016	\$ 1,124	\$ 943
Sonoma	\$ 4,801	\$ 356	\$ 1,292	\$ 1,430	\$ 1,200
West Stan	\$ 2,487	\$ 184	\$ 723	\$ 800	\$ 671
Westlands	\$ 35,566	\$ 2,635	\$ 9,990	\$ 11,058	\$ 9,279
Westside	\$ 385	\$ 29	\$ 129	\$ 143	\$ 120
Zone 7	\$ 1,764	\$ 131	\$ 464	\$ 513	\$ 431
PWRPA	\$ 75,496	\$ 5,593	\$ 21,161	\$ 23,423	\$ 19,656

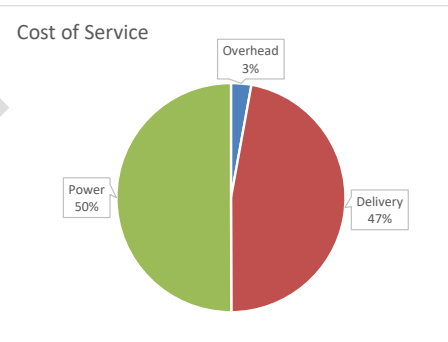
Supplemental: Other				
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	\$ -	\$ -	\$ -	\$ -
Cawelo	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	\$ -	\$ -	\$ -	\$ -
James	\$ -	\$ -	\$ -	\$ -
Lower Tule	\$ -	\$ -	\$ -	\$ -
Princeton	\$ -	\$ -	\$ -	\$ -
RD108	\$ -	\$ -	\$ -	\$ -
Santa Clara	\$ 2,913	\$ -	\$ -	\$ 2,913
Sonoma	\$ -	\$ -	\$ -	\$ -
West Stan	\$ -	\$ -	\$ -	\$ -
Westlands	\$ -	\$ -	\$ -	\$ -
Westside	\$ -	\$ -	\$ -	\$ -
Zone 7	\$ -	\$ -	\$ -	\$ -
PWRPA	\$ 2,913	\$ -	\$ -	\$ 2,913

Power Water Resources Pooling Authority

October 2022

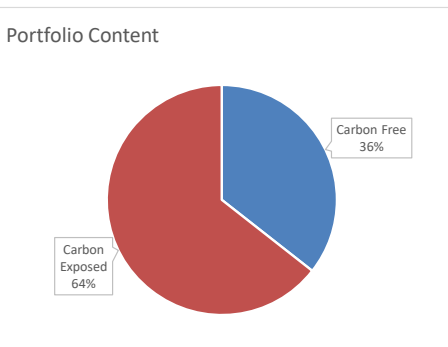
Operations Reconciliation Summary: October 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Power					Total Costs
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt	Load Cost	District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	12,900,119	\$ 279	\$ 5,442	\$ 22,218	\$ 441,175	\$ 440,042	\$ 20,398	\$ 922,845	\$ -	\$ 15,591	\$ 31,727	\$ -	\$ 1,899,716
Banta-Carbona	858,037	\$ 279	\$ 84	\$ 5,497	\$ -	\$ 29,269	\$ 1,320	\$ 60,390	\$ -	\$ 1,919	\$ 9,127	\$ -	\$ 107,885
Cawelo	937,092	\$ 279	\$ 419	\$ 5,320	\$ 38,555	\$ 31,966	\$ 1,490	\$ 65,191	\$ -	\$ 926	\$ 2,439	\$ -	\$ 146,585
Glenn-Colusa	346,172	\$ 279	\$ 1,088	\$ 4,713	\$ 4,612	\$ 11,807	\$ 493	\$ 24,166	\$ -	\$ 1,730	\$ 6,123	\$ -	\$ 55,013
James	470,276	\$ 279	\$ 167	\$ 3,647	\$ 8,082	\$ 16,042	\$ 752	\$ 32,857	\$ -	\$ 370	\$ 4,700	\$ -	\$ 66,898
Lower Tule	691,450	\$ 279	\$ 84	\$ 4,555	\$ 24,632	\$ 23,586	\$ 1,108	\$ 49,604	\$ -	\$ 477	\$ -	\$ -	\$ 104,326
Princeton	7,533	\$ 279	\$ 84	\$ 3,481	\$ 172	\$ 125	\$ 8	\$ 529	\$ -	\$ 108	\$ 5,100	\$ -	\$ 9,887
RD108	91,400	\$ 279	\$ 251	\$ 3,688	\$ 6,403	\$ 3,118	\$ 136	\$ 6,495	\$ -	\$ 310	\$ 3,388	\$ -	\$ 24,069
Santa Clara	1,917,572	\$ 279	\$ 753	\$ 6,608	\$ 70,366	\$ 45,331	\$ 3,095	\$ 135,047	\$ -	\$ 798	\$ 8,829	\$ 12,114	\$ 283,221
Sonoma	2,579,844	\$ 279	\$ 1,674	\$ 8,685	\$ 48,658	\$ 88,002	\$ 4,148	\$ 179,963	\$ 1,061	\$ 1,451	\$ 13,004	\$ -	\$ 346,926
West Stan	1,679,856	\$ 279	\$ 84	\$ 5,639	\$ 46,569	\$ 27,883	\$ 2,629	\$ 117,422	\$ -	\$ 2,704	\$ 1,877	\$ -	\$ 205,085
Westlands	15,215,867	\$ 279	\$ 43,700	\$ 28,380	\$ 720,992	\$ 519,036	\$ 23,749	\$ 1,075,988	\$ (16,357)	\$ 25,957	\$ 56,804	\$ -	\$ 2,478,527
Westside	217,154	\$ 279	\$ 84	\$ 3,480	\$ 7,506	\$ 7,407	\$ 312	\$ 15,207	\$ -	\$ 1,035	\$ 4,423	\$ -	\$ 39,734
Zone 7	874,961	\$ 279	\$ 419	\$ 4,207	\$ 30,047	\$ 16,384	\$ 1,422	\$ 60,496	\$ -	\$ 123	\$ (197)	\$ -	\$ 113,179
TOTAL	38,787,331	\$ 3,911	\$ 54,332	\$ 110,118	\$ 1,447,768	\$ 1,259,999	\$ 61,059	\$ 2,746,201	\$ (15,296)	\$ 53,499	\$ 147,344	\$ 12,114	\$ 5,881,051
Percent of total cost		0.07%	0.92%	1.87%	24.62%	21.42%	1.04%	46.70%	-0.26%	0.91%	2.51%	0.21%	100.00%

Summary of Costs as a Rate per Metered Energy (Cents per kWh)									
Participant	Metered Energy (kWh)	Cents per kWh							
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate	
Arvin-Edison	12,447,914	\$ 0.22	\$ 3.54	\$ 3.54	\$ 0.16	\$ 7.41	\$ 0.38	\$ 15.26	
Banta-Carbona	858,037	\$ 0.68	\$ -	\$ 3.41	\$ 0.15	\$ 7.04	\$ 1.29	\$ 12.57	
Cawelo	917,250	\$ 0.66	\$ 4.20	\$ 3.48	\$ 0.16	\$ 7.11	\$ 0.37	\$ 15.98	
Glenn-Colusa	344,548	\$ 1.76	\$ 1.34	\$ 3.43	\$ 0.14	\$ 7.01	\$ 2.28	\$ 15.97	
James	461,697	\$ 0.89	\$ 1.75	\$ 3.47	\$ 0.16	\$ 7.12	\$ 1.10	\$ 14.49	
Lower Tule	647,330	\$ 0.76	\$ 3.81	\$ 3.64	\$ 0.17	\$ 7.66	\$ 0.07	\$ 16.12	
Princeton	7,392	\$ 52.01	\$ 2.32	\$ 1.69	\$ 0.11	\$ 7.16	\$ 70.46	\$ 133.76	
RD108	88,687	\$ 4.76	\$ 7.22	\$ 3.52	\$ 0.15	\$ 7.32	\$ 4.17	\$ 27.14	
Santa Clara	1,880,319	\$ 0.41	\$ 3.74	\$ 2.41	\$ 0.16	\$ 7.18	\$ 1.16	\$ 15.06	
Sonoma	2,550,242	\$ 0.42	\$ 1.91	\$ 3.45	\$ 0.16	\$ 7.06	\$ 0.61	\$ 13.60	
West Stan	1,649,299	\$ 0.36	\$ 2.82	\$ 1.69	\$ 0.16	\$ 7.12	\$ 0.28	\$ 12.43	
Westlands	14,247,346	\$ 0.51	\$ 5.06	\$ 3.64	\$ 0.17	\$ 7.55	\$ 0.47	\$ 17.40	
Westside	213,170	\$ 1.80	\$ 3.52	\$ 3.47	\$ 0.15	\$ 7.13	\$ 2.56	\$ 18.64	
Zone 7	859,055	\$ 0.57	\$ 3.50	\$ 1.91	\$ 0.17	\$ 7.04	\$ (0.01)	\$ 13.17	
PWRPA	37,172,286	\$ 0.45	\$ 3.89	\$ 3.39	\$ 0.16	\$ 7.39	\$ 0.53	\$ 15.82	



Summary of Energy Portfolio								
Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	12,900,119	1,196,576	3,291,993	636,985	-	5,125,554	7,774,565	35%
Banta-Carbona	858,037	147,149	364,222	239,556	-	750,927	107,110	60%
Cawelo	937,092	71,008	896,331	201,615	-	1,168,955	(231,863)	103%
Glenn-Colusa	346,172	132,682	275,392	135,184	-	543,258	(197,086)	118%
James	470,276	28,366	85,831	106,892	-	221,089	249,187	24%
Lower Tule	691,450	36,650	-	-	-	36,650	654,800	5%
Princeton	7,533	7,533	93,505	112,861	-	213,900	(206,367)	1341%
RD108	91,400	23,796	107,939	59,964	-	191,699	(100,300)	144%
Santa Clara	1,917,572	61,153	527,781	172,298	-	761,232	1,156,340	31%
Sonoma	2,579,844	111,207	1,028,302	-	-	1,139,509	1,440,335	44%
West Stan	1,679,856	207,236	363,248	134,737	-	705,221	974,635	34%
Westlands	15,215,867	2,238,834	2,191,891	779,371	-	5,210,096	10,005,771	29%
Westside	217,154	79,380	54,487	112,905	-	246,772	(29,619)	62%
Zone 7	874,961	9,430	169,040	-	-	178,470	696,491	20%
PWRPA	38,787,331	4,351,000	9,449,962	2,692,370	-	16,493,332	22,293,999	36%

Percent of DLF Adjusted Energy: 11% 24% 7% 0% 43%



October 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	12,447,914	12,900,119	3.6%	34,840	\$ 922,845	\$ 71.54
Banta-Carbona	858,037	858,037	0.0%	1,859	\$ 60,390	\$ 70.38
Cawelo	917,250	937,092	2.2%	3,060	\$ 65,191	\$ 69.57
Glenn-Colusa	344,548	346,172	0.5%	863	\$ 24,166	\$ 69.81
James	461,697	470,276	1.9%	660	\$ 32,857	\$ 69.87
Lower Tule	647,330	691,450	6.8%	1,935	\$ 49,604	\$ 71.74
Princeton	7,392	7,533	1.9%	14	\$ 529	\$ 70.28
RD108	88,687	91,400	3.1%	502	\$ 6,495	\$ 71.07
Santa Clara	1,880,319	1,917,572	2.0%	4,949	\$ 135,047	\$ 70.43
Sonoma	2,550,242	2,579,844	1.2%	7,748	\$ 179,963	\$ 69.76
West Stan	1,649,299	1,679,856	1.9%	3,797	\$ 117,422	\$ 69.90
Westlands	14,247,346	15,215,867	6.8%	41,986	\$ 1,075,988	\$ 70.71
Westside	213,170	217,154	1.9%	612	\$ 15,207	\$ 70.03
Zone 7	859,055	874,961	1.9%	2,013	\$ 60,496	\$ 69.14
PWRPA	37,172,286	38,787,331	4.3%	104,837	\$ 2,746,201	\$ 70.80

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -		\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -		\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -		\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -		\$ -	\$ -	\$ -
James	-	\$ -	\$ -		\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -		\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -		\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -		\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -		\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 1,061	\$ 1,061	\$ -	\$ -
West Stan	-	\$ -	\$ -		\$ -	\$ -	\$ -
Westlands	248,000	\$ -	(17,867)	\$ 1,510	\$ (16,357)	\$ 6.09	\$ (72.04)
Westside	-	\$ -	\$ -		\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -		\$ -	\$ -	\$ -
PWRPA	248,000	\$ -	(17,867)	\$ 2,571	\$ (15,296)	\$ 10.37	\$ (72.04)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,179,262	\$ (103,109)	10,146	\$ (841)	\$ (104)	7,168	\$ 717	\$ (634)	\$ 117,701	\$ 1,862	1,196,576	\$ 15,591	\$ 100.52	\$ (87.49)
Banta-Carbona	145,442	\$ (12,717)	1,251	\$ (104)	\$ (13)	455	\$ 45	\$ (39)	\$ 14,516	\$ 230	147,149	\$ 1,919	\$ 100.52	\$ (87.48)
Cawelo	69,846	\$ (6,107)	601	\$ (50)	\$ (6)	562	\$ 56	\$ (48)	\$ 6,971	\$ 110	71,008	\$ 926	\$ 100.51	\$ (87.47)
Glenn-Colusa	131,409	\$ (11,490)	1,131	\$ (94)	\$ (12)	142	\$ 14	\$ (12)	\$ 13,116	\$ 207	132,682	\$ 1,730	\$ 100.52	\$ (87.48)
James	27,825	\$ (2,433)	239	\$ (20)	\$ (2)	301	\$ 30	\$ (26)	\$ 2,777	\$ 44	28,366	\$ 370	\$ 100.51	\$ (87.46)
Lower Tule	35,929	\$ (3,141)	309	\$ (26)	\$ (3)	412	\$ 41	\$ (36)	\$ 3,586	\$ 57	36,650	\$ 477	\$ 100.52	\$ (87.49)
Princeton	29,480	\$ (2,578)	254	\$ (21)	\$ (1)	(22,200)	\$ (2,215)	\$ 1,933	\$ 2,942	\$ 47	7,533	\$ 108	\$ 102.74	\$ (88.43)
RD108	23,550	\$ (2,059)	203	\$ (17)	\$ (2)	43	\$ 4	\$ (4)	\$ 2,351	\$ 37	23,796	\$ 310	\$ 100.52	\$ (87.48)
Santa Clara	59,390	\$ (5,193)	511	\$ (42)	\$ (5)	1,253	\$ 125	\$ (108)	\$ 5,928	\$ 94	61,153	\$ 798	\$ 100.51	\$ (87.45)
Sonoma	108,608	\$ (9,496)	934	\$ (77)	\$ (10)	1,665	\$ 166	\$ (143)	\$ 10,840	\$ 171	111,207	\$ 1,451	\$ 100.51	\$ (87.46)
West Stan	204,407	\$ (17,872)	1,759	\$ (146)	\$ (18)	1,070	\$ 107	\$ (91)	\$ 20,402	\$ 323	207,236	\$ 2,704	\$ 100.52	\$ (87.47)
Westlands	1,965,442	\$ (171,849)	16,910	\$ (1,402)	\$ (173)	8,481	\$ 845	\$ (736)	\$ 196,169	\$ 3,103	1,990,834	\$ 25,957	\$ 100.52	\$ (87.48)
Westside	78,620	\$ (6,874)	676	\$ (56)	\$ (7)	84	\$ 8	\$ (7)	\$ 7,847	\$ 124	79,380	\$ 1,035	\$ 100.52	\$ (87.48)
Zone 7	8,791	\$ (769)	76	\$ (6)	\$ (1)	563	\$ 56	\$ (49)	\$ 877	\$ 14	9,430	\$ 123	\$ 100.48	\$ (87.44)
PWRPA	4,068,000	\$ (355,686)	35,000	\$ (2,901)	\$ (358)	0	\$ 0	\$ -	\$ 406,023	\$ 6,422	4,103,000	\$ 53,499	\$ 100.52	\$ (87.48)

October 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	913,919	\$ 57,577	\$ (42,180)	\$ 466	\$ 15,863	\$ 63.51	\$ (46.15)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	142,763	\$ 8,994	\$ (6,589)	\$ 73	\$ 2,478	\$ 63.51	\$ (46.15)
Glenn-Colusa	75,528	\$ 4,758	\$ (3,486)	\$ 39	\$ 1,311	\$ 63.51	\$ (46.15)
James	19,210	\$ 1,210	\$ (887)	\$ 10	\$ 333	\$ 63.51	\$ (46.15)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	26,884	\$ 1,694	\$ (1,241)	\$ 14	\$ 467	\$ 63.51	\$ (46.15)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	95,548	\$ 6,020	\$ (4,410)	\$ 49	\$ 1,658	\$ 63.51	\$ (46.15)
Sonoma	249,656	\$ 15,728	\$ (11,522)	\$ 127	\$ 4,333	\$ 63.51	\$ (46.15)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	824,043	\$ 51,915	\$ (38,032)	\$ 420	\$ 14,303	\$ 63.51	\$ (46.15)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	35,798	\$ 2,255	\$ (1,652)	\$ 18	\$ 621	\$ 63.51	\$ (46.15)
PWRPA	2,383,349	\$ 150,151	\$ (109,999)	\$ 1,216	\$ 41,367	\$ 63.51	\$ (46.15)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	746,869	\$ 44,146	\$ (29,651)	\$ 537	\$ 15,032	\$ 59.83	\$ (39.70)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	64,011	\$ 3,784	\$ (2,541)	\$ 46	\$ 1,288	\$ 59.83	\$ (39.70)
James	21,337	\$ 1,261	\$ (847)	\$ 15	\$ 429	\$ 59.83	\$ (39.70)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	21,337	\$ 1,261	\$ (847)	\$ 15	\$ 429	\$ 59.83	\$ (39.70)
RD108	53,354	\$ 3,154	\$ (2,118)	\$ 38	\$ 1,074	\$ 59.83	\$ (39.70)
Santa Clara	160,040	\$ 9,460	\$ (6,354)	\$ 115	\$ 3,221	\$ 59.83	\$ (39.70)
Sonoma	597,509	\$ 35,318	\$ (23,722)	\$ 430	\$ 12,026	\$ 59.83	\$ (39.70)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	640,184	\$ 37,840	\$ (25,416)	\$ 460	\$ 12,885	\$ 59.83	\$ (39.70)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	42,674	\$ 2,522	\$ (1,694)	\$ 31	\$ 859	\$ 59.83	\$ (39.70)
PWRPA	2,347,316	\$ 138,747	\$ (93,191)	\$ 1,688	\$ 47,244	\$ 59.83	\$ (39.70)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,630,230	\$ 43,797	\$ (75,820)	\$ 1,826	974	\$ 6,123	\$ (4,084)	\$ 528	1,631,204	\$ (27,630)	\$ 32.05	\$ (48.98)
Banta-Carbona	362,273	\$ 9,733	\$ (16,849)	\$ 406	1,949	\$ 12,246	\$ (8,168)	\$ 1,055	364,222	\$ (1,577)	\$ 64.35	\$ (68.68)
Cawelo	751,717	\$ 20,195	\$ (34,961)	\$ 842	1,851	\$ 11,633	\$ (7,759)	\$ 1,003	753,568	\$ (9,047)	\$ 44.69	\$ (56.69)
Glenn-Colusa	135,853	\$ 3,650	\$ (6,318)	\$ 152	-	\$ -	\$ -	\$ -	135,853	\$ (2,516)	\$ 27.99	\$ (46.51)
James	45,284	\$ 1,217	\$ (2,106)	\$ 51	-	\$ -	\$ -	\$ -	45,284	\$ (839)	\$ 27.99	\$ (46.51)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	45,284	\$ 1,217	\$ (2,106)	\$ 51	-	\$ -	\$ -	\$ -	45,284	\$ (839)	\$ 27.99	\$ (46.51)
RD108	54,341	\$ 1,460	\$ (2,527)	\$ 61	244	\$ 1,531	\$ (1,021)	\$ 132	54,585	\$ (365)	\$ 58.32	\$ (65.01)
Santa Clara	271,705	\$ 7,299	\$ (12,637)	\$ 304	487	\$ 3,061	\$ (2,042)	\$ 264	272,192	\$ (3,749)	\$ 40.15	\$ (53.93)
Sonoma	181,137	\$ 4,866	\$ (8,424)	\$ 203	-	\$ -	\$ -	\$ -	181,137	\$ (3,355)	\$ 27.99	\$ (46.51)
West Stan	362,273	\$ 9,733	\$ (16,849)	\$ 406	974	\$ 6,123	\$ (4,084)	\$ 528	363,248	\$ (4,144)	\$ 46.22	\$ (57.63)
Westlands	724,547	\$ 19,465	\$ (33,698)	\$ 812	3,118	\$ 19,593	\$ (13,068)	\$ 1,688	727,664	\$ (5,208)	\$ 57.11	\$ (64.27)
Westside	54,341	\$ 1,460	\$ (2,527)	\$ 61	146	\$ 918	\$ (613)	\$ 79	54,487	\$ (622)	\$ 46.22	\$ (57.63)
Zone 7	90,568	\$ 2,433	\$ (4,212)	\$ 101	-	\$ -	\$ -	\$ -	90,568	\$ (1,678)	\$ 27.99	\$ (46.51)
PWRPA	4,709,554	\$ 126,524	\$ (219,036)	\$ 5,276	9,743	\$ 61,228	\$ (40,838)	\$ 5,276	4,719,297	\$ (61,569)	\$ 42.02	\$ (55.07)

October 2022

Specific Projects: Lodi Energy Center								
Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	636,985	\$ 15,696	\$ 63,305	\$ (50,945)	\$ 406	\$ 28,462	\$ 124.66	\$ (79.98)
Banta-Carbona	239,556	\$ 5,903	\$ 23,808	\$ (19,159)	\$ 153	\$ 10,704	\$ 124.66	\$ (79.98)
Cawelo	201,615	\$ 4,968	\$ 20,037	\$ (16,125)	\$ 128	\$ 9,009	\$ 124.66	\$ (79.98)
Glenn-Colusa	135,184	\$ 3,331	\$ 13,435	\$ (10,812)	\$ 86	\$ 6,040	\$ 124.66	\$ (79.98)
James	106,892	\$ 2,634	\$ 10,623	\$ (8,549)	\$ 68	\$ 4,776	\$ 124.66	\$ (79.98)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	112,861	\$ 2,781	\$ 11,216	\$ (9,027)	\$ 72	\$ 5,043	\$ 124.66	\$ (79.98)
RD108	59,964	\$ 1,478	\$ 5,959	\$ (4,796)	\$ 38	\$ 2,679	\$ 124.66	\$ (79.98)
Santa Clara	172,298	\$ 4,246	\$ 17,123	\$ (13,780)	\$ 110	\$ 7,699	\$ 124.66	\$ (79.98)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	134,737	\$ 3,320	\$ 13,390	\$ (10,776)	\$ 86	\$ 6,020	\$ 124.66	\$ (79.98)
Westlands	779,371	\$ 19,205	\$ 77,456	\$ (62,333)	\$ 497	\$ 34,824	\$ 124.66	\$ (79.98)
Westside	112,905	\$ 2,782	\$ 11,221	\$ (9,030)	\$ 72	\$ 5,045	\$ 124.66	\$ (79.98)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	2,692,370	\$ 66,344	\$ 267,574	\$ (215,332)	\$ 1,716	\$ 120,302	\$ 124.66	\$ (79.98)

Supplemental: Fixed Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc					
Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 1,368	\$ 4,906	\$ 4,297	\$ 7,187	\$ 2,639
Banta-Carbona	\$ 83	\$ 298	\$ 286	\$ 478	\$ 176
Cawelo	\$ 101	\$ 363	\$ 312	\$ 522	\$ 192
Glenn-Colusa	\$ 25	\$ 90	\$ 115	\$ 193	\$ 71
James	\$ 52	\$ 185	\$ 157	\$ 262	\$ 96
Lower Tule	\$ 77	\$ 275	\$ 230	\$ 385	\$ 141
Princeton	\$ 0	\$ 0	\$ 3	\$ 4	\$ 2
RD108	\$ 8	\$ 28	\$ 30	\$ 51	\$ 19
Santa Clara	\$ 217	\$ 778	\$ 639	\$ 1,068	\$ 392
Sonoma	\$ 289	\$ 1,035	\$ 859	\$ 1,437	\$ 528
West Stan	\$ 172	\$ 617	\$ 560	\$ 936	\$ 344
Westlands	\$ 1,546	\$ 5,544	\$ 5,068	\$ 8,477	\$ 3,113
Westside	\$ 16	\$ 58	\$ 72	\$ 121	\$ 44
Zone 7	\$ 101	\$ 363	\$ 291	\$ 487	\$ 179
PWRPA	\$ 4,055	\$ 14,541	\$ 12,919	\$ 21,610	\$ 7,934

Supplemental: Other				
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	\$ -	\$ -	\$ -	\$ -
Cawelo	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	\$ -	\$ -	\$ -	\$ -
James	\$ -	\$ -	\$ -	\$ -
Lower Tule	\$ -	\$ -	\$ -	\$ -
Princeton	\$ -	\$ -	\$ -	\$ -
RD108	\$ -	\$ -	\$ -	\$ -
Santa Clara	\$ 12,114	\$ -	\$ -	\$ 12,114
Sonoma	\$ -	\$ -	\$ -	\$ -
West Stan	\$ -	\$ -	\$ -	\$ -
Westlands	\$ -	\$ -	\$ -	\$ -
Westside	\$ -	\$ -	\$ -	\$ -
Zone 7	\$ -	\$ -	\$ -	\$ -
PWRPA	\$ 12,114	\$ -	\$ -	\$ 12,114

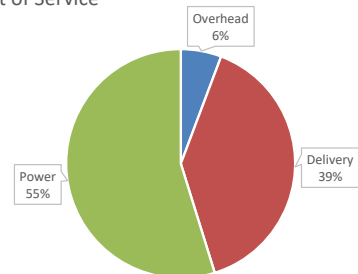
Power Water Resources Pooling Authority

November 2022

Operations Reconciliation Summary: November 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			Power				Total Costs	
		JPA Mgmt	Metering	ASA Utility Mgmt & Operations	Distribution	Transmission	Grid Mgmt	Load Cost	District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental	
Arvin-Edison	4,363,499	\$ 141	\$ 5,481	\$ 22,129	\$ 286,857	\$ 148,878	\$ (113,746)	\$ 381,558	\$ -	\$ (3,422)	\$ (10,783)	\$ 56,452	\$ 773,545
Banta-Carbona	283,149	\$ 141	\$ 84	\$ 5,333	\$ -	\$ 9,661	\$ (7,393)	\$ 24,546	\$ -	\$ (355)	\$ 7,644	\$ -	\$ 39,661
Cawelo	341,110	\$ 141	\$ 422	\$ 5,245	\$ 19,588	\$ 11,638	\$ (8,881)	\$ 27,671	\$ -	\$ (99)	\$ (3,523)	\$ -	\$ 52,201
Glenn-Colusa	157,807	\$ 141	\$ 1,096	\$ 4,786	\$ 3,646	\$ 5,383	\$ (4,135)	\$ 14,057	\$ -	\$ (375)	\$ 1,042	\$ 9,124	\$ 34,764
James	252,110	\$ 141	\$ 169	\$ 3,668	\$ 8,134	\$ 8,602	\$ (6,560)	\$ 21,246	\$ -	\$ (43)	\$ 2,092	\$ -	\$ 37,449
Lower Tule	542,376	\$ 141	\$ 84	\$ 4,778	\$ 24,345	\$ 18,505	\$ (14,111)	\$ 49,582	\$ -	\$ (125)	\$ -	\$ 9,694	\$ 92,894
Princeton	5,640	\$ 141	\$ 84	\$ 3,403	\$ 110	\$ 94	\$ (149)	\$ 511	\$ -	\$ (65)	\$ 2,332	\$ 1,140	\$ 7,601
RD108	123,075	\$ 141	\$ 253	\$ 3,728	\$ 6,417	\$ 4,199	\$ (3,206)	\$ 10,998	\$ -	\$ (71)	\$ 1,757	\$ 570	\$ 24,786
Santa Clara	1,443,085	\$ 141	\$ 759	\$ 7,398	\$ 59,199	\$ 33,028	\$ (37,538)	\$ 129,808	\$ -	\$ (227)	\$ 1,535	\$ 13,244	\$ 207,348
Sonoma	2,282,497	\$ 141	\$ 1,687	\$ 10,239	\$ 39,057	\$ 77,876	\$ (59,377)	\$ 206,246	\$ 1,039	\$ (410)	\$ (838)	\$ 19,388	\$ 295,047
West Stan	83,791	\$ 141	\$ 84	\$ 4,911	\$ 8,870	\$ 1,392	\$ (2,215)	\$ 7,376	\$ -	\$ (417)	\$ (750)	\$ 5,132	\$ 24,523
Westlands	6,263,727	\$ 141	\$ 43,767	\$ 34,953	\$ 612,137	\$ 213,712	\$ (163,346)	\$ 558,682	\$ (10,234)	\$ (5,762)	\$ 29,019	\$ 36,494	\$ 1,349,563
Westside	41,829	\$ 141	\$ 84	\$ 3,358	\$ 3,018	\$ 1,427	\$ (1,100)	\$ 3,400	\$ -	\$ (95)	\$ 2,581	\$ -	\$ 12,813
Zone 7	731,646	\$ 141	\$ 422	\$ 4,629	\$ 21,901	\$ 13,907	\$ (19,027)	\$ 66,947	\$ -	\$ (61)	\$ (2,050)	\$ 5,132	\$ 91,949
TOTAL	16,915,341	\$ 1,970	\$ 54,477	\$ 118,558	\$ 1,093,290	\$ 548,302	\$ (440,786)	\$ 1,502,628	\$ (9,196)	\$ (11,527)	\$ 30,058	\$ 156,370	\$ 3,044,146
Percent of total cost		0.06%	1.79%	3.89%	35.91%	18.01%	-14.48%	49.36%	-0.30%	-0.38%	0.99%	5.14%	100.00%

Summary of Costs as a Rate per Metered Energy (Cents per kWh)										
Participant	Metered Energy (kWh)	Cents per kWh								Composite Rate
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources			
Arvin-Edison	4,196,752	\$ 0.66	\$ 6.84	\$ 3.55	\$ (2.71)	\$ 9.09	\$ 1.01	\$ 18.43		
Banta-Carbona	283,149	\$ 1.96	\$ -	\$ 3.41	\$ (2.61)	\$ 8.67	\$ 2.57	\$ 14.01		
Cawelo	334,962	\$ 1.73	\$ 5.85	\$ 3.47	\$ (2.65)	\$ 8.26	\$ (1.08)	\$ 15.58		
Glenn-Colusa	156,483	\$ 3.85	\$ 2.33	\$ 3.44	\$ (2.64)	\$ 8.98	\$ 6.26	\$ 22.22		
James	247,613	\$ 1.61	\$ 3.29	\$ 3.47	\$ (2.65)	\$ 8.58	\$ 0.83	\$ 15.12		
Lower Tule	508,094	\$ 0.98	\$ 4.79	\$ 3.64	\$ (2.78)	\$ 9.76	\$ 1.88	\$ 18.28		
Princeton	5,547	\$ 65.41	\$ 1.99	\$ 1.69	\$ (2.69)	\$ 9.21	\$ 61.44	\$ 137.05		
RD108	119,181	\$ 3.46	\$ 5.38	\$ 3.52	\$ (2.69)	\$ 9.23	\$ 1.89	\$ 20.80		
Santa Clara	1,412,776	\$ 0.59	\$ 4.19	\$ 2.34	\$ (2.66)	\$ 9.19	\$ 1.03	\$ 14.68		
Sonoma	2,257,004	\$ 0.53	\$ 1.73	\$ 3.45	\$ (2.63)	\$ 9.14	\$ 0.85	\$ 13.07		
West Stan	82,295	\$ 6.24	\$ 10.78	\$ 1.69	\$ (2.69)	\$ 8.96	\$ 4.82	\$ 29.80		
Westlands	5,870,837	\$ 1.34	\$ 10.43	\$ 3.64	\$ (2.78)	\$ 9.52	\$ 0.84	\$ 22.99		
Westside	41,087	\$ 8.72	\$ 7.35	\$ 3.47	\$ (2.68)	\$ 8.27	\$ 6.05	\$ 31.19		
Zone 7	718,565	\$ 0.72	\$ 3.05	\$ 1.94	\$ (2.65)	\$ 9.32	\$ 0.42	\$ 12.80		
PWRPA	16,234,343	\$ 1.08	\$ 6.73	\$ 3.38	\$ (2.72)	\$ 9.26	\$ 1.02	\$ 18.75		

Cost of Service

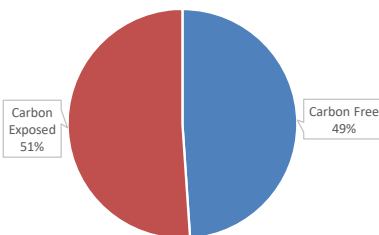


Summary of Energy Portfolio								
Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	4,363,499	479,254	2,272,248	1,032,569	-	3,784,071	579,428	63%
Banta-Carbona	283,149	50,159	254,581	388,327	-	693,067	(409,917)	108%
Cawelo	341,110	20,084	625,278	326,824	-	972,186	(631,076)	189%
Glenn-Colusa	157,807	52,135	189,806	219,137	-	461,078	(303,271)	153%
James	252,110	8,395	58,938	173,275	-	240,608	11,502	27%
Lower Tule	542,376	15,921	-	-	-	15,921	526,455	3%
Princeton	5,640	4,514	64,508	182,951	-	251,974	(246,334)	1224%
RD108	123,075	9,796	72,811	97,204	-	179,812	(56,736)	67%
Santa Clara	1,443,085	29,771	361,654	279,300	-	670,725	772,360	27%
Sonoma	2,282,497	53,644	694,968	-	-	748,611	1,533,886	33%
West Stan	83,791	59,469	251,646	218,412	-	529,527	(445,736)	371%
Westlands	6,263,727	944,698	1,522,164	1,263,380	-	3,730,243	2,533,484	39%
Westside	41,829	20,013	37,747	183,021	-	240,781	(198,952)	138%
Zone 7	731,646	7,146	115,973	-	-	123,119	608,527	17%
PWRPA	16,915,341	1,755,000	6,522,322	4,364,400	-	12,641,722	4,273,619	49%

Percent of DLF Adjusted Energy:

10% 39% 26% 0% 75%

Portfolio Content



November 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	4,196,752	4,363,499	4.0%	25,086	\$ 381,558	\$ 87.44
Banta-Carbona	283,149	283,149	0.0%	1,924	\$ 24,546	\$ 86.69
Cawelo	334,962	341,110	1.8%	2,351	\$ 27,671	\$ 81.12
Glenn-Colusa	156,483	157,807	0.8%	562	\$ 14,057	\$ 89.08
James	247,613	252,110	1.8%	1,254	\$ 21,246	\$ 84.27
Lower Tule	508,094	542,376	6.7%	2,195	\$ 49,582	\$ 91.42
Princeton	5,547	5,640	1.7%	15	\$ 511	\$ 90.56
RD108	119,181	123,075	3.3%	505	\$ 10,998	\$ 89.36
Santa Clara	1,412,776	1,443,085	2.1%	4,757	\$ 129,808	\$ 89.95
Sonoma	2,257,004	2,282,497	1.1%	6,806	\$ 206,246	\$ 90.36
West Stan	82,295	83,791	1.8%	723	\$ 7,376	\$ 88.03
Westlands	5,870,837	6,263,727	6.7%	44,202	\$ 558,682	\$ 89.19
Westside	41,087	41,829	1.8%	306	\$ 3,400	\$ 81.28
Zone 7	718,565	731,646	1.8%	1,562	\$ 66,947	\$ 91.50
PWRPA	16,234,343	16,915,341	4.2%	92,246	\$ 1,502,628	\$ 88.83

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 1,039	\$ 1,039	\$ -	\$ -
West Stan	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Westlands	150,000	-	\$ (11,744)	\$ 1,510	\$ (10,234)	\$ 10.06	\$ (78.29)
Westside	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
PWRPA	150,000	\$ -	\$ (11,744)	\$ 2,548	\$ (9,196)	\$ 16.99	\$ (78.29)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	465,269	\$ (51,572)	-	\$ -	\$ -	13,985	\$ 1,487	\$ (1,568)	\$ 46,042	\$ 2,189	479,254	\$ (3,422)	\$ 103.74	\$ (110.88)
Banta-Carbona	57,383	\$ (6,361)	-	\$ -	\$ -	(7,225)	\$ (775)	\$ 832	\$ 5,678	\$ 270	50,159	\$ (355)	\$ 103.15	\$ (110.22)
Cawelo	27,557	\$ (3,055)	-	\$ -	\$ -	(7,473)	\$ (839)	\$ 938	\$ 2,727	\$ 130	20,084	\$ (99)	\$ 100.45	\$ (105.40)
Glenn-Colusa	51,847	\$ (5,747)	-	\$ -	\$ -	289	\$ 31	\$ (34)	\$ 5,131	\$ 244	52,135	\$ (375)	\$ 103.69	\$ (110.88)
James	10,978	\$ (1,217)	-	\$ -	\$ -	(2,584)	\$ (292)	\$ 328	\$ 1,086	\$ 52	8,395	\$ (43)	\$ 100.81	\$ (105.88)
Lower Tule	14,175	\$ (1,571)	-	\$ -	\$ -	1,746	\$ 197	\$ (220)	\$ 1,403	\$ 67	15,921	\$ (125)	\$ 104.69	\$ (112.52)
Princeton	11,631	\$ (1,289)	-	\$ -	\$ -	(7,117)	\$ (756)	\$ 774	\$ 1,151	\$ 55	4,514	\$ (65)	\$ 99.69	\$ (114.10)
RD108	9,292	\$ (1,030)	-	\$ -	\$ -	505	\$ 55	\$ (60)	\$ 919	\$ 44	9,796	\$ (71)	\$ 103.94	\$ (111.21)
Santa Clara	23,432	\$ (2,597)	-	\$ -	\$ -	6,340	\$ 692	\$ (750)	\$ 2,319	\$ 110	29,771	\$ (227)	\$ 104.84	\$ (112.44)
Sonoma	42,850	\$ (4,750)	-	\$ -	\$ -	10,793	\$ 1,180	\$ (1,282)	\$ 4,240	\$ 202	53,644	\$ (410)	\$ 104.80	\$ (112.44)
West Stan	80,647	\$ (8,939)	-	\$ -	\$ -	(21,178)	\$ (2,289)	\$ 2,451	\$ 7,981	\$ 379	59,469	\$ (417)	\$ 102.08	\$ (109.10)
Westlands	775,451	\$ (85,954)	-	\$ -	\$ -	19,247	\$ 2,125	\$ (2,318)	\$ 76,737	\$ 3,648	794,698	\$ (5,762)	\$ 103.83	\$ (111.08)
Westside	31,019	\$ (3,438)	-	\$ -	\$ -	(11,006)	\$ (1,220)	\$ 1,348	\$ 3,070	\$ 146	20,013	\$ (95)	\$ 99.70	\$ (104.47)
Zone 7	3,468	\$ (384)	-	\$ -	\$ -	3,678	\$ 403	\$ (438)	\$ 343	\$ 16	7,146	\$ (61)	\$ 106.67	\$ (115.16)
PWRPA	1,605,000	\$ (177,905)	-	\$ -	\$ -	-	\$ (0)	\$ 0	\$ 158,827	\$ 7,551	1,605,000	\$ (11,527)	\$ 103.66	\$ (110.84)

November 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	663,381	\$ 41,837	\$ (34,471)	\$ 547	\$ 7,913	\$ 63.89	\$ (51.96)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	103,626	\$ 6,535	\$ (5,385)	\$ 85	\$ 1,236	\$ 63.89	\$ (51.96)
Glenn-Colusa	54,823	\$ 3,458	\$ (2,849)	\$ 45	\$ 654	\$ 63.89	\$ (51.96)
James	13,944	\$ 879	\$ (725)	\$ 11	\$ 166	\$ 63.89	\$ (51.96)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	19,514	\$ 1,231	\$ (1,014)	\$ 16	\$ 233	\$ 63.89	\$ (51.96)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	69,355	\$ 4,374	\$ (3,604)	\$ 57	\$ 827	\$ 63.89	\$ (51.96)
Sonoma	181,216	\$ 11,429	\$ (9,416)	\$ 149	\$ 2,162	\$ 63.89	\$ (51.96)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	598,143	\$ 37,723	\$ (31,081)	\$ 493	\$ 7,135	\$ 63.89	\$ (51.96)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	25,984	\$ 1,639	\$ (1,350)	\$ 21	\$ 310	\$ 63.89	\$ (51.96)
PWRPA	1,729,988	\$ 109,104	\$ (89,895)	\$ 1,426	\$ 20,635	\$ 63.89	\$ (51.96)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	486,733	\$ 29,969	\$ (27,877)	\$ 417	\$ 2,509	\$ 62.43	\$ (57.27)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	41,716	\$ 2,569	\$ (2,389)	\$ 36	\$ 215	\$ 62.43	\$ (57.27)
James	13,905	\$ 856	\$ (796)	\$ 12	\$ 72	\$ 62.43	\$ (57.27)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	13,905	\$ 856	\$ (796)	\$ 12	\$ 72	\$ 62.43	\$ (57.27)
RD108	34,771	\$ 2,141	\$ (1,991)	\$ 30	\$ 179	\$ 62.43	\$ (57.27)
Santa Clara	104,298	\$ 6,422	\$ (5,974)	\$ 89	\$ 538	\$ 62.43	\$ (57.27)
Sonoma	389,396	\$ 23,976	\$ (22,302)	\$ 333	\$ 2,007	\$ 62.43	\$ (57.27)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	417,207	\$ 25,688	\$ (23,895)	\$ 357	\$ 2,151	\$ 62.43	\$ (57.27)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	27,811	\$ 1,712	\$ (1,593)	\$ 24	\$ 143	\$ 62.43	\$ (57.27)
PWRPA	1,529,742	\$ 94,190	\$ (87,614)	\$ 1,309	\$ 7,885	\$ 62.43	\$ (57.27)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,119,198	\$ 30,278	\$ (76,823)	\$ 1,481	2,935	\$ 6,700	\$ (1,780)	\$ 428	1,122,133	\$ (39,715)	\$ 34.66	\$ (70.05)
Banta-Carbona	248,711	\$ 6,728	\$ (17,072)	\$ 329	5,871	\$ 13,400	\$ (3,559)	\$ 856	254,581	\$ 683	\$ 83.72	\$ (81.04)
Cawelo	516,075	\$ 13,962	\$ (35,424)	\$ 683	5,577	\$ 12,730	\$ (3,381)	\$ 813	521,652	\$ (10,617)	\$ 54.04	\$ (74.39)
Glenn-Colusa	93,267	\$ 2,523	\$ (6,402)	\$ 123	-	\$ -	\$ -	\$ -	93,267	\$ (3,755)	\$ 28.38	\$ (68.64)
James	31,089	\$ 841	\$ (2,134)	\$ 41	-	\$ -	\$ -	\$ -	31,089	\$ (1,252)	\$ 28.38	\$ (68.64)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	31,089	\$ 841	\$ (2,134)	\$ 41	-	\$ -	\$ -	\$ -	31,089	\$ (1,252)	\$ 28.38	\$ (68.64)
RD108	37,307	\$ 1,009	\$ (2,561)	\$ 49	734	\$ 1,675	\$ (445)	\$ 107	38,040	\$ (165)	\$ 74.67	\$ (79.01)
Santa Clara	186,533	\$ 5,046	\$ (12,804)	\$ 247	1,468	\$ 3,350	\$ (890)	\$ 214	188,001	\$ (4,836)	\$ 47.11	\$ (72.84)
Sonoma	124,355	\$ 3,364	\$ (8,536)	\$ 165	-	\$ -	\$ -	\$ -	124,355	\$ (5,007)	\$ 28.38	\$ (68.64)
West Stan	248,711	\$ 6,728	\$ (17,072)	\$ 329	2,935	\$ 6,700	\$ (1,780)	\$ 428	251,646	\$ (4,666)	\$ 56.37	\$ (74.91)
Westlands	497,421	\$ 13,457	\$ (34,143)	\$ 658	9,393	\$ 21,440	\$ (5,695)	\$ 1,370	506,814	\$ (2,914)	\$ 72.86	\$ (78.61)
Westside	37,307	\$ 1,009	\$ (2,561)	\$ 49	440	\$ 1,005	\$ (267)	\$ 64	37,747	\$ (700)	\$ 56.37	\$ (74.91)
Zone 7	62,178	\$ 1,682	\$ (4,268)	\$ 82	-	\$ -	\$ -	\$ -	62,178	\$ (2,504)	\$ 28.38	\$ (68.64)
PWRPA	3,233,239	\$ 87,470	\$ (221,932)	\$ 4,280	29,353	\$ 67,000	\$ (17,797)	\$ 4,280	3,262,592	\$ (76,700)	\$ 49.97	\$ (73.48)

November 2022

Specific Projects: Lodi Energy Center								
Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,032,569	\$ 15,696	\$ 106,207	\$ (103,860)	\$ 467	\$ 18,510	\$ 118.51	\$ (100.58)
Banta-Carbona	388,327	\$ 5,903	\$ 39,942	\$ (39,060)	\$ 176	\$ 6,961	\$ 118.51	\$ (100.58)
Cawelo	326,824	\$ 4,968	\$ 33,616	\$ (32,873)	\$ 148	\$ 5,859	\$ 118.51	\$ (100.58)
Glenn-Colusa	219,137	\$ 3,331	\$ 22,540	\$ (22,042)	\$ 99	\$ 3,928	\$ 118.51	\$ (100.58)
James	173,275	\$ 2,634	\$ 17,823	\$ (17,429)	\$ 78	\$ 3,106	\$ 118.51	\$ (100.58)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	182,951	\$ 2,781	\$ 18,818	\$ (18,402)	\$ 83	\$ 3,280	\$ 118.51	\$ (100.58)
RD108	97,204	\$ 1,478	\$ 9,998	\$ (9,777)	\$ 44	\$ 1,742	\$ 118.51	\$ (100.58)
Santa Clara	279,300	\$ 4,246	\$ 28,728	\$ (28,093)	\$ 126	\$ 5,007	\$ 118.51	\$ (100.58)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	218,412	\$ 3,320	\$ 22,465	\$ (21,969)	\$ 99	\$ 3,915	\$ 118.51	\$ (100.58)
Westlands	1,263,380	\$ 19,205	\$ 129,947	\$ (127,076)	\$ 572	\$ 22,647	\$ 118.51	\$ (100.58)
Westside	183,021	\$ 2,782	\$ 18,825	\$ (18,409)	\$ 83	\$ 3,281	\$ 118.51	\$ (100.58)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	4,364,400	\$ 66,344	\$ 448,908	\$ (438,990)	\$ 1,975	\$ 78,237	\$ 118.51	\$ (100.58)

Supplemental: Fixed Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts						
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc					
Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 380	\$ 2,027	\$ 3,333	\$ 2,800	\$ (122,285)
Banta-Carbona	\$ 23	\$ 122	\$ 216	\$ 182	\$ (7,935)
Cawelo	\$ 31	\$ 168	\$ 261	\$ 219	\$ (9,559)
Glenn-Colusa	\$ 10	\$ 55	\$ 121	\$ 101	\$ (4,422)
James	\$ 24	\$ 127	\$ 193	\$ 162	\$ (7,065)
Lower Tule	\$ 51	\$ 275	\$ 414	\$ 348	\$ (15,200)
Princeton	\$ 0	\$ 1	\$ 4	\$ 4	\$ (158)
RD108	\$ 11	\$ 59	\$ 94	\$ 79	\$ (3,449)
Santa Clara	\$ 138	\$ 738	\$ 1,102	\$ 926	\$ (40,442)
Sonoma	\$ 218	\$ 1,163	\$ 1,743	\$ 1,464	\$ (63,966)
West Stan	\$ 2	\$ 13	\$ 64	\$ 54	\$ (2,348)
Westlands	\$ 535	\$ 2,854	\$ 4,784	\$ 4,019	\$ (175,537)
Westside	\$ 2	\$ 11	\$ 32	\$ 27	\$ (1,172)
Zone 7	\$ 71	\$ 378	\$ 559	\$ 469	\$ (20,504)
PWRPA	\$ 1,496	\$ 7,989	\$ 12,919	\$ 10,853	\$ (474,043)

Supplemental: Other				
Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ 56,452		\$ 56,452
Banta-Carbona	\$ -	\$ -		\$ -
Cawelo	\$ -	\$ -		\$ -
Glenn-Colusa	\$ -	\$ 9,124		\$ 9,124
James	\$ -	\$ -		\$ -
Lower Tule	\$ -	\$ 9,694		\$ 9,694
Princeton	\$ -	\$ 1,140		\$ 1,140
RD108	\$ -	\$ 570		\$ 570
Santa Clara	\$ 4,120	\$ 9,124		\$ 13,244
Sonoma	\$ -	\$ 19,388		\$ 19,388
West Stan	\$ -	\$ 5,132		\$ 5,132
Westlands	\$ -	\$ 36,494		\$ 36,494
Westside	\$ -	\$ -		\$ -
Zone 7	\$ -	\$ 5,132		\$ 5,132
PWRPA	\$ 4,120	\$ 152,250	\$ -	\$ 156,370

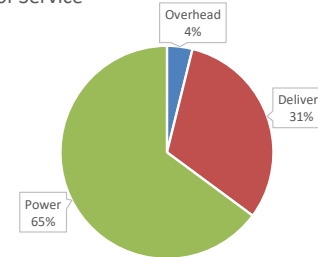
Power Water Resources Pooling Authority

December 2022

Operations Reconciliation Summary: December 2022													
Participant	DLF Adjusted Energy (kWh)	Overhead			ASA Utility Mgmt & Operations	Delivery			Load Cost	Power			Total Costs
		JPA Mgmt	Metering			Distribution	Transmission	Grid Mgmt		District-Specific Projects	Base Resource (w/ DP & Pooling)	Special Project Generation	Supplemental
Arvin-Edison	792,382	\$ 770	\$ 5,352	\$ 14,866	\$ 134,683	\$ 27,042	\$ 13,365	\$ 189,265	\$ -	\$ (64,681)	\$ (189,789)	\$ 38,933	\$ 169,806
Banta-Carbona	1,192,748	\$ 770	\$ 82	\$ 6,526	\$ -	\$ 40,706	\$ 20,475	\$ 356,340	\$ -	\$ (10,694)	\$ (13,133)	\$ -	\$ 401,073
Cawelo	16,924	\$ 770	\$ 412	\$ 4,702	\$ 4,278	\$ 578	\$ 283	\$ 5,101	\$ -	\$ (3,240)	\$ (46,310)	\$ -	\$ (33,427)
Glenn-Colusa	341,667	\$ 770	\$ 1,070	\$ 4,394	\$ 7,870	\$ 11,628	\$ 5,838	\$ 100,039	\$ -	\$ (8,899)	\$ (16,824)	\$ 6,292	\$ 112,177
James	5,957	\$ 770	\$ 165	\$ 3,350	\$ 98	\$ 203	\$ 99	\$ 1,617	\$ -	\$ (1,289)	\$ (5,615)	\$ -	\$ (601)
Lower Tule	250,620	\$ 770	\$ 82	\$ 4,504	\$ 18,699	\$ 8,553	\$ 4,301	\$ 67,876	\$ -	\$ (2,457)	\$ -	\$ 6,685	\$ 109,014
Princeton	10,212	\$ 770	\$ 82	\$ 3,427	\$ 2,676	\$ 170	\$ 172	\$ 2,862	\$ -	\$ (1,350)	\$ (6,217)	\$ 787	\$ 3,379
RD108	116,273	\$ 770	\$ 247	\$ 3,640	\$ 8,741	\$ 3,968	\$ 1,992	\$ 32,123	\$ -	\$ (1,723)	\$ (4,453)	\$ 393	\$ 45,698
Santa Clara	1,253,897	\$ 770	\$ 741	\$ 6,917	\$ 40,480	\$ 27,832	\$ 21,538	\$ 343,776	\$ -	\$ (6,487)	\$ (27,757)	\$ 8,693	\$ 416,502
Sonoma	2,423,918	\$ 770	\$ 1,647	\$ 9,662	\$ 38,433	\$ 82,723	\$ 41,634	\$ 655,248	\$ 989	\$ (12,634)	\$ (51,874)	\$ 13,371	\$ 779,968
West Stan	393,261	\$ 770	\$ 82	\$ 5,346	\$ 19,039	\$ 6,534	\$ 6,711	\$ 106,802	\$ -	\$ (12,882)	\$ (17,176)	\$ 3,539	\$ 118,766
Westlands	3,749,083	\$ 770	\$ 42,737	\$ 3,862	\$ 312,246	\$ 127,948	\$ 63,888	\$ 1,026,532	\$ (11,557)	\$ (133,289)	\$ (117,064)	\$ 25,169	\$ 1,341,241
Westside	13,989	\$ 770	\$ 82	\$ 3,343	\$ 454	\$ 477	\$ 232	\$ 3,760	\$ -	\$ (3,453)	\$ (3,238)	\$ -	\$ 2,427
Zone 7	701,385	\$ 770	\$ 412	\$ 4,460	\$ 22,994	\$ 13,527	\$ 12,053	\$ 182,352	\$ -	\$ (2,281)	\$ (9,514)	\$ 3,539	\$ 228,311
TOTAL	11,262,313	\$ 10,778	\$ 53,195	\$ 78,999	\$ 610,691	\$ 351,890	\$ 192,583	\$ 3,073,692	\$ (10,569)	\$ (265,360)	\$ (508,965)	\$ 107,401	\$ 3,694,335
Percent of total cost		0.29%	1.44%	2.14%	16.53%	9.53%	5.21%	83.20%	-0.29%	-7.18%	-13.78%	2.91%	100.00%

Summary of Costs as a Rate per Metered Energy (Cents per kWh)										
Participant	Metered Energy (kWh)	Cents per kWh								Composite Rate
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources			
Arvin-Edison	759,921	\$ 2.76	\$ 17.72	\$ 3.56	\$ 1.76	\$ 24.91	\$ (28.36)	\$ 22.35		
Banta-Carbona	1,192,748	\$ 0.62	\$ -	\$ 3.41	\$ 1.72	\$ 29.88	\$ (2.00)	\$ 33.63		
Cawelo	16,542	\$ 35.57	\$ 25.86	\$ 3.49	\$ 1.71	\$ 30.84	\$ (299.55)	\$ (202.08)		
Glenn-Colusa	333,177	\$ 1.87	\$ 2.36	\$ 3.49	\$ 1.75	\$ 30.03	\$ (5.83)	\$ 33.67		
James	5,847	\$ 73.29	\$ 1.68	\$ 3.48	\$ 1.70	\$ 27.66	\$ (118.09)	\$ (10.29)		
Lower Tule	234,564	\$ 2.28	\$ 7.97	\$ 3.65	\$ 1.83	\$ 28.94	\$ 1.80	\$ 46.48		
Princeton	10,015	\$ 42.72	\$ 26.72	\$ 1.69	\$ 1.72	\$ 28.58	\$ (67.70)	\$ 33.74		
RD108	111,240	\$ 4.19	\$ 7.86	\$ 3.57	\$ 1.79	\$ 28.88	\$ (5.20)	\$ 41.08		
Santa Clara	1,228,704	\$ 0.69	\$ 3.29	\$ 2.27	\$ 1.75	\$ 27.98	\$ (2.08)	\$ 33.90		
Sonoma	2,395,840	\$ 0.50	\$ 1.60	\$ 3.45	\$ 1.74	\$ 27.35	\$ (2.09)	\$ 32.56		
West Stan	385,758	\$ 1.61	\$ 4.94	\$ 1.69	\$ 1.74	\$ 27.69	\$ (6.87)	\$ 30.79		
Westlands	3,518,789	\$ 1.35	\$ 8.87	\$ 3.64	\$ 1.82	\$ 29.17	\$ (6.73)	\$ 38.12		
Westside	13,729	\$ 30.56	\$ 3.31	\$ 3.48	\$ 1.69	\$ 27.39	\$ (48.74)	\$ 17.68		
Zone 7	688,314	\$ 0.82	\$ 3.34	\$ 1.97	\$ 1.75	\$ 26.49	\$ (1.20)	\$ 33.17		
PWRPA	10,895,187	\$ 1.31	\$ 5.61	\$ 3.23	\$ 1.77	\$ 28.21	\$ (6.22)	\$ 33.91		

Cost of Service

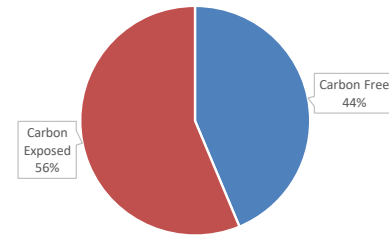


Summary of Energy Portfolio								
Participant	DLF Adjusted Energy (kWh)	Hydro	Solar	Lodi	Secured Supplemental	Total Resources	Net Short/(Long)	Carbon Free Load
Arvin-Edison	792,382	309,370	1,223,412	1,207,063	-	2,739,845	(1,947,464)	193%
Banta-Carbona	1,192,748	56,741	108,525	453,950	-	619,216	573,532	14%
Cawelo	16,924	9,036	300,359	382,054	-	691,448	(674,525)	1828%
Glenn-Colusa	341,667	48,022	102,221	256,168	-	406,412	(64,744)	44%
James	5,957	3,813	30,932	202,557	-	237,302	(231,346)	583%
Lower Tule	250,620	13,802	-	-	-	13,802	236,817	6%
Princeton	10,212	3,923	34,973	213,868	-	252,764	(242,553)	381%
RD108	116,273	9,630	34,412	113,630	-	157,673	(41,400)	38%
Santa Clara	1,253,897	44,274	186,096	326,499	-	556,869	697,027	18%
Sonoma	2,423,918	87,703	388,790	-	-	476,493	1,947,425	20%
West Stan	393,261	64,573	108,525	255,321	-	428,419	(35,159)	44%
Westlands	3,749,083	779,635	868,518	1,476,879	-	3,125,032	624,051	44%
Westside	13,989	9,485	16,279	213,950	-	239,714	(225,725)	184%
Zone 7	701,385	18,992	60,484	-	-	79,476	621,909	11%
PWRPA	11,262,313	1,459,000	3,463,525	5,101,940	-	10,024,465	1,237,848	44%

Percent of DLF Adjusted Energy:

13% 31% 45% 0% 89%

Portfolio Content



December 2022

Load: Day-ahead Schedule and Realtime Imbalance						
Participant	Metered (kWh)	DLF Adjusted Energy (kWh)	DLF Factor	Peak (kW)	ISO Load Cost (\$)	Rate (\$/MWh)
Arvin-Edison	759,921	792,382	4.3%	9,036	\$ 189,265	\$ 238.86
Banta-Carbona	1,192,748	1,192,748	0.0%	2,595	\$ 356,340	\$ 298.76
Cawelo	16,542	16,924	2.3%	264	\$ 5,101	\$ 301.42
Glenn-Colusa	333,177	341,667	2.5%	1,103	\$ 100,039	\$ 292.80
James	5,847	5,957	1.9%	9	\$ 1,617	\$ 271.51
Lower Tule	234,564	250,620	6.8%	1,450	\$ 67,876	\$ 270.83
Princeton	10,015	10,212	2.0%	218	\$ 2,862	\$ 280.28
RD108	111,240	116,273	4.5%	691	\$ 32,123	\$ 276.27
Santa Clara	1,228,704	1,253,897	2.1%	3,065	\$ 343,776	\$ 274.17
Sonoma	2,395,840	2,423,918	1.2%	6,411	\$ 655,248	\$ 270.33
West Stan	385,758	393,261	1.9%	1,551	\$ 106,802	\$ 271.58
Westlands	3,518,789	3,749,083	6.5%	19,246	\$ 1,026,532	\$ 273.81
Westside	13,729	13,989	1.9%	37	\$ 3,760	\$ 268.77
Zone 7	688,314	701,385	1.9%	1,502	\$ 182,352	\$ 259.99
PWRPA	10,895,187	11,262,313	3.4%	47,177	\$ 3,073,692	\$ 272.92

District-Specific Projects: WSH (100% SCWA) and BOR (100% WWD)							
Participant	Energy (kWh)	Vendor Cost (\$)	ISO Credit (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ 989	\$ 989	\$ -	\$ -
West Stan	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Westlands	62,000	\$ -	\$ (13,067)	\$ 1,510	\$ (11,557)	\$ 24.35	\$ (210.76)
Westside	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
PWRPA	62,000	\$ -	\$ (13,067)	\$ 2,498	\$ (10,569)	\$ 40.30	\$ (210.76)

Base Resource - Import, Displacement and Pooling														
Participant	ISO Import		Displacement			Pooling			WAPA Cost (\$)	Overhead (\$)	Resource Net			
	Energy (kWh)	ISO Settlement (\$)	Energy (kWh)	ISO Settlement (\$)	CVP Settlement (\$)	Energy (kWh)	Contract Cost/ (Credit)	ISO Settlement			Energy (kWh)	Cost / (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	404,973	\$ (117,904)	-	\$ -	\$ -	(95,603)	\$ (21,687)	\$ 33,930	\$ 40,075	\$ 904	309,370	\$ (64,681)	\$ 62.36	\$ (271.43)
Banta-Carbona	49,947	\$ (14,541)	-	\$ -	\$ -	6,794	\$ 1,873	\$ (3,079)	\$ 4,943	\$ 111	56,741	\$ (10,694)	\$ 122.08	\$ (310.55)
Cawelo	23,986	\$ (6,983)	-	\$ -	\$ -	(14,950)	\$ (2,795)	\$ 4,111	\$ 2,374	\$ 54	9,036	\$ (3,240)	\$ (40.70)	\$ (317.92)
Glenn-Colusa	45,127	\$ (13,138)	-	\$ -	\$ -	2,895	\$ 613	\$ (940)	\$ 4,466	\$ 101	48,022	\$ (8,899)	\$ 107.86	\$ (293.17)
James	9,556	\$ (2,782)	-	\$ -	\$ -	(5,742)	\$ (1,094)	\$ 1,621	\$ 946	\$ 21	3,813	\$ (1,289)	\$ (33.45)	\$ (304.53)
Lower Tule	12,338	\$ (3,592)	-	\$ -	\$ -	1,464	\$ 259	\$ (372)	\$ 1,221	\$ 28	13,802	\$ (2,457)	\$ 109.21	\$ (287.24)
Princeton	10,124	\$ (2,947)	-	\$ -	\$ -	(6,200)	\$ (1,187)	\$ 1,760	\$ 1,002	\$ 23	3,923	\$ (1,350)	\$ (41.33)	\$ (302.70)
RD108	8,087	\$ (2,355)	-	\$ -	\$ -	1,543	\$ 339	\$ (526)	\$ 800	\$ 18	9,630	\$ (1,723)	\$ 120.22	\$ (299.14)
Santa Clara	20,395	\$ (5,938)	-	\$ -	\$ -	23,879	\$ 4,973	\$ (7,586)	\$ 2,018	\$ 46	44,274	\$ (6,487)	\$ 158.94	\$ (305.47)
Sonoma	37,297	\$ (10,859)	-	\$ -	\$ -	50,406	\$ 10,531	\$ (16,080)	\$ 3,691	\$ 83	87,703	\$ (12,634)	\$ 163.11	\$ (307.16)
West Stan	70,196	\$ (20,437)	-	\$ -	\$ -	(5,623)	\$ (1,006)	\$ 1,458	\$ 6,946	\$ 157	64,573	\$ (12,882)	\$ 94.42	\$ (293.91)
Westlands	674,957	\$ (196,507)	-	\$ -	\$ -	42,679	\$ 9,300	\$ (14,381)	\$ 66,792	\$ 1,507	717,635	\$ (133,289)	\$ 108.13	\$ (293.86)
Westside	26,999	\$ (7,860)	-	\$ -	\$ -	(17,514)	\$ (3,405)	\$ 5,080	\$ 2,672	\$ 60	9,485	\$ (3,453)	\$ (70.99)	\$ (293.10)
Zone 7	3,019	\$ (879)	-	\$ -	\$ -	15,973	\$ 3,287	\$ (4,994)	\$ 299	\$ 7	18,992	\$ (2,281)	\$ 189.13	\$ (309.25)
PWRPA	1,397,000	\$ (406,722)	-	\$ -	\$ -	-	\$ (0)	\$ -	\$ 138,244	\$ 3,118	1,397,000	\$ (265,360)	\$ 101.19	\$ (291.14)

December 2022

Specific Projects: Astoria							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	481,213	\$ 30,318	\$ (97,353)	\$ 537	\$ (66,498)	\$ 64.12	\$ (202.31)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	75,170	\$ 4,736	\$ (15,207)	\$ 84	\$ (10,388)	\$ 64.12	\$ (202.31)
Glenn-Colusa	39,769	\$ 2,506	\$ (8,045)	\$ 44	\$ (5,496)	\$ 64.12	\$ (202.31)
James	10,115	\$ 637	\$ (2,046)	\$ 11	\$ (1,398)	\$ 64.12	\$ (202.31)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	14,156	\$ 892	\$ (2,864)	\$ 16	\$ (1,956)	\$ 64.12	\$ (202.31)
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	50,310	\$ 3,170	\$ (10,178)	\$ 56	\$ (6,952)	\$ 64.12	\$ (202.31)
Sonoma	131,453	\$ 8,282	\$ (26,594)	\$ 147	\$ (18,165)	\$ 64.12	\$ (202.31)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	433,890	\$ 27,336	\$ (87,779)	\$ 484	\$ (59,959)	\$ 64.12	\$ (202.31)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	18,849	\$ 1,188	\$ (3,813)	\$ 21	\$ (2,605)	\$ 64.12	\$ (202.31)
PWRPA	1,254,924	\$ 79,064	\$ (253,880)	\$ 1,400	\$ (173,417)	\$ 64.12	\$ (202.31)

Specific Projects: Whitney Point							
Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	253,837	\$ 14,966	\$ (44,423)	\$ 451	\$ (29,006)	\$ 60.74	\$ (175.01)
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	21,755	\$ 1,283	\$ (3,807)	\$ 39	\$ (2,486)	\$ 60.74	\$ (175.01)
James	7,252	\$ 428	\$ (1,269)	\$ 13	\$ (829)	\$ 60.74	\$ (175.01)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	7,252	\$ 428	\$ (1,269)	\$ 13	\$ (829)	\$ 60.74	\$ (175.01)
RD108	18,133	\$ 1,069	\$ (3,173)	\$ 32	\$ (2,072)	\$ 60.74	\$ (175.01)
Santa Clara	54,392	\$ 3,207	\$ (9,519)	\$ 97	\$ (6,215)	\$ 60.74	\$ (175.01)
Sonoma	203,074	\$ 11,973	\$ (35,539)	\$ 361	\$ (23,205)	\$ 60.74	\$ (175.01)
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	217,578	\$ 12,828	\$ (38,077)	\$ 387	\$ (24,862)	\$ 60.74	\$ (175.01)
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	14,504	\$ 855	\$ (2,538)	\$ 26	\$ (1,657)	\$ 60.74	\$ (175.01)
PWRPA	797,777	\$ 47,037	\$ (139,616)	\$ 1,417	\$ (91,161)	\$ 60.74	\$ (175.01)

Specific Projects: Slate												
Participant	Solar Energy (kWh)	Solar Cost (\$)	Solar ISO Settlement (\$)	Solar Overhead (\$)	Battery Energy (kWh)	Battery Cost (\$)	Battery ISO Settlement (\$)	Battery Overhead (\$)	Net Energy (kWh)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	488,362	\$ 13,093	\$ (111,450)	\$ 3,827	-	\$ 6,700	\$ (3,013)	\$ 1,106	488,362	\$ (89,737)	\$ 50.63	\$ (234.38)
Banta-Carbona	108,525	\$ 2,910	\$ (24,767)	\$ 851	-	\$ 13,400	\$ (6,027)	\$ 2,211	108,525	\$ (11,422)	\$ 178.50	\$ (283.75)
Cawelo	225,189	\$ 6,037	\$ (51,391)	\$ 1,765	-	\$ 12,730	\$ (5,726)	\$ 2,101	225,189	\$ (34,483)	\$ 100.51	\$ (253.64)
Glenn-Colusa	40,697	\$ 1,091	\$ (9,287)	\$ 319	-	\$ -	\$ -	\$ -	40,697	\$ (7,877)	\$ 34.65	\$ (228.21)
James	13,566	\$ 364	\$ (3,096)	\$ 106	-	\$ -	\$ -	\$ -	13,566	\$ (2,626)	\$ 34.65	\$ (228.21)
Lower Tule	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -
Princeton	13,566	\$ 364	\$ (3,096)	\$ 106	-	\$ -	\$ -	\$ -	13,566	\$ (2,626)	\$ 34.65	\$ (228.21)
RD108	16,279	\$ 436	\$ (3,715)	\$ 128	-	\$ 1,675	\$ (753)	\$ 276	16,279	\$ (1,953)	\$ 154.52	\$ (274.49)
Santa Clara	81,394	\$ 2,182	\$ (18,575)	\$ 638	-	\$ 3,350	\$ (1,507)	\$ 553	81,394	\$ (13,359)	\$ 82.60	\$ (246.72)
Sonoma	54,262	\$ 1,455	\$ (12,383)	\$ 425	-	\$ -	\$ -	\$ -	54,262	\$ (10,503)	\$ 34.65	\$ (228.21)
West Stan	108,525	\$ 2,910	\$ (24,767)	\$ 851	-	\$ 6,700	\$ (3,013)	\$ 1,106	108,525	\$ (16,214)	\$ 106.57	\$ (255.98)
Westlands	217,050	\$ 5,819	\$ (49,533)	\$ 1,701	-	\$ 21,440	\$ (9,643)	\$ 3,538	217,050	\$ (26,678)	\$ 149.73	\$ (272.64)
Westside	16,279	\$ 436	\$ (3,715)	\$ 128	-	\$ 1,005	\$ (452)	\$ 166	16,279	\$ (2,432)	\$ 106.57	\$ (255.98)
Zone 7	27,131	\$ 727	\$ (6,192)	\$ 213	-	\$ -	\$ -	\$ -	27,131	\$ (5,252)	\$ 34.65	\$ (228.21)
PWRPA	1,410,825	\$ 37,824	\$ (321,966)	\$ 11,057	-	\$ 67,000	\$ (30,134)	\$ 11,057	1,410,825	\$ (225,162)	\$ 89.97	\$ (249.57)

December 2022

Specific Projects: Lodi Energy Center

Participant	Energy (kWh)	Debt Cost (\$)	Energy & GHG Cost (\$)	ISO Settlement (\$)	Overhead (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	1,207,063	\$ 15,696	\$ 319,289	\$ (339,982)	\$ 448	\$ (4,548)	\$ 277.89	\$ (281.66)
Banta-Carbona	453,950	\$ 5,903	\$ 120,078	\$ (127,860)	\$ 169	\$ (1,711)	\$ 277.89	\$ (281.66)
Cawelo	382,054	\$ 4,968	\$ 101,060	\$ (107,609)	\$ 142	\$ (1,440)	\$ 277.89	\$ (281.66)
Glenn-Colusa	256,168	\$ 3,331	\$ 67,761	\$ (72,152)	\$ 95	\$ (965)	\$ 277.89	\$ (281.66)
James	202,557	\$ 2,634	\$ 53,580	\$ (57,052)	\$ 75	\$ (763)	\$ 277.89	\$ (281.66)
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	213,868	\$ 2,781	\$ 56,572	\$ (60,238)	\$ 79	\$ (806)	\$ 277.89	\$ (281.66)
RD108	113,630	\$ 1,478	\$ 30,057	\$ (32,005)	\$ 42	\$ (428)	\$ 277.89	\$ (281.66)
Santa Clara	326,499	\$ 4,246	\$ 86,364	\$ (91,962)	\$ 121	\$ (1,230)	\$ 277.89	\$ (281.66)
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	255,321	\$ 3,320	\$ 67,537	\$ (71,914)	\$ 95	\$ (962)	\$ 277.89	\$ (281.66)
Westlands	1,476,879	\$ 19,205	\$ 390,660	\$ (415,978)	\$ 548	\$ (5,565)	\$ 277.89	\$ (281.66)
Westside	213,950	\$ 2,782	\$ 56,593	\$ (60,261)	\$ 79	\$ (806)	\$ 277.89	\$ (281.66)
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	5,101,940	\$ 66,344	\$ 1,349,550	\$ (1,437,013)	\$ 1,895	\$ (19,225)	\$ 277.89	\$ (281.66)

Supplemental: Fixed Contracts

Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

Supplemental: Variable Contracts

Participant	Energy (kWh)	Cost (\$)	ISO Settlement (\$)	Net Cost/ (Credit)	Expense Rate (\$/MWh)	Revenue Rate (\$/MWh)
Arvin-Edison	-	\$ -	\$ -	\$ -	\$ -	\$ -
Banta-Carbona	-	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	-	\$ -	\$ -	\$ -	\$ -	\$ -
Glenn-Colusa	-	\$ -	\$ -	\$ -	\$ -	\$ -
James	-	\$ -	\$ -	\$ -	\$ -	\$ -
Lower Tule	-	\$ -	\$ -	\$ -	\$ -	\$ -
Princeton	-	\$ -	\$ -	\$ -	\$ -	\$ -
RD108	-	\$ -	\$ -	\$ -	\$ -	\$ -
Santa Clara	-	\$ -	\$ -	\$ -	\$ -	\$ -
Sonoma	-	\$ -	\$ -	\$ -	\$ -	\$ -
West Stan	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westlands	-	\$ -	\$ -	\$ -	\$ -	\$ -
Westside	-	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	-	\$ -	\$ -	\$ -	\$ -	\$ -
PWRPA	-	\$ -	\$ -	\$ -	\$ -	\$ -

CAISO Grid Management & Misc

Participant	Special Charges		Misc Charges		
	Operating Reserves	IFM Uplift Obligation'	Other	GMC	Residual
Arvin-Edison	\$ 94	\$ 328	\$ 909	\$ 535	\$ 11,501
Banta-Carbona	\$ 220	\$ 770	\$ 1,368	\$ 805	\$ 17,312
Cawelo	\$ 2	\$ 5	\$ 19	\$ 11	\$ 246
Glenn-Colusa	\$ 57	\$ 199	\$ 392	\$ 231	\$ 4,959
James	\$ 0	\$ 1	\$ 7	\$ 4	\$ 86
Lower Tule	\$ 46	\$ 161	\$ 287	\$ 169	\$ 3,638
Princeton	\$ 1	\$ 4	\$ 12	\$ 7	\$ 148
RD108	\$ 21	\$ 72	\$ 133	\$ 78	\$ 1,688
Santa Clara	\$ 234	\$ 820	\$ 1,438	\$ 846	\$ 18,199
Sonoma	\$ 453	\$ 1,584	\$ 2,780	\$ 1,635	\$ 35,181
West Stan	\$ 64	\$ 223	\$ 451	\$ 265	\$ 5,708
Westlands	\$ 588	\$ 2,056	\$ 4,301	\$ 2,530	\$ 54,415
Westside	\$ 1	\$ 3	\$ 16	\$ 9	\$ 203
Zone 7	\$ 132	\$ 463	\$ 805	\$ 473	\$ 10,180
PWRPA	\$ 1,912	\$ 6,690	\$ 12,919	\$ 7,599	\$ 163,463

Supplemental: Other

Participant	RECs	Capacity	Carbon	Total Cost
Arvin-Edison	\$ -	\$ 38,933		\$ 38,933
Banta-Carbona	\$ -	\$ -		\$ -
Cawelo	\$ -	\$ -		\$ -
Glenn-Colusa	\$ -	\$ 6,292		\$ 6,292
James	\$ -	\$ -		\$ -
Lower Tule	\$ -	\$ 6,685		\$ 6,685
Princeton	\$ -	\$ 787		\$ 787
RD108	\$ -	\$ 393		\$ 393
Santa Clara	\$ 2,401	\$ 6,292		\$ 8,693
Sonoma	\$ -	\$ 13,371		\$ 13,371
West Stan	\$ -	\$ 3,539		\$ 3,539
Westlands	\$ -	\$ 25,169		\$ 25,169
Westside	\$ -	\$ -		\$ -
Zone 7	\$ -	\$ 3,539		\$ 3,539
PWRPA	\$ 2,401	\$ 105,000	\$ -	\$ 107,401

DRAFT

APPENDIX B

2022 VENDOR CHARGES SUMMARIES

(THIS APPENDIX HAS THE VENDOR CHARGES SUMMARIZED IN TWO DIFFERENT WAYS;
ONE BY COST CATEGORY AND THE OTHER BY VENDOR.)

Vendor Charges by Vendor 2022		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
RBI														
	Fixed Fee	\$42,833.00	\$48,583.00	\$48,583.00	\$48,583.00	\$48,583.00	\$48,583.00	\$48,583.00	\$48,583.00	\$48,583.00	\$48,583.00	\$48,583.00	\$48,583.00	\$577,246.00
	T&M	\$2,063.50	\$104.50	\$348.50	\$104.50	\$104.50	\$104.50	\$2,819.00	\$2,876.45	\$16,043.25	\$4,120.75	\$1,994.50	\$4,154.50	\$34,838.45
	Expenses												\$819.45	\$819.45
	MCG Software	\$14,111.00	\$14,262.41	\$14,262.41	\$14,262.41	\$14,262.41	\$14,262.41	\$14,262.41	\$14,382.92	\$14,534.33	\$14,534.33	\$14,534.33	\$14,534.33	\$172,205.70
	Amazon Server	\$906.07	\$991.12	\$926.32	\$926.32	\$969.42	\$991.04	\$765.56	\$404.17	\$122.18	\$66.63	\$66.63	\$66.63	\$7,202.09
	OATI/Email/Webex			\$200.00	\$200.00	\$336.00	\$425.00							\$961.00
	Direct Consulting (from Fixed Fee)	\$605.40	-	\$365.14	\$218.66	\$177.42	\$103.38	\$376.48	\$47.85	\$29.57	-	-	\$19.35	\$1,943.25
	Vendor Total	\$59,913.57	\$63,941.03	\$64,320.23	\$63,876.23	\$64,255.33	\$64,365.95	\$66,429.97	\$66,246.54	\$79,282.76	\$67,304.71	\$65,178.46	\$68,157.91	\$793,272.69
Recurrent - Astoria														
	2022 Contract Energy Cost	\$103,954.78	\$134,016.00	\$169,038.73	\$193,290.70	\$217,109.63	\$215,471.96	\$215,834.82	\$200,324.14	\$163,767.02	\$150,151.00	\$109,104.05	\$79,063.57	\$1,951,126.40
	Vendor Total	\$103,954.78	\$134,016.00	\$169,038.73	\$193,290.70	\$217,109.63	\$215,471.96	\$215,834.82	\$200,324.14	\$163,767.02	\$150,151.00	\$109,104.05	\$79,063.57	\$1,951,126.40
Shell														
	Capacity	-	-	-	\$71,500.00	-	-	-	-	-	-	-	-	\$71,500.00
	Vendor Total	-	-	-	\$71,500.00	-	-	-	-	-	-	-	-	\$71,500.00
Trimark														
	Cell Comm	\$11,052.80	\$11,070.40	\$11,176.00	\$11,193.60	\$11,193.60	\$11,193.60	\$11,193.60	\$11,193.60	\$11,176.00	\$11,228.80	\$11,228.80	\$11,176.00	\$134,076.80
	T&M	\$6,411.25	\$6,353.75	\$7,647.50	\$6,296.25	\$6,440.00	\$6,497.50	\$5,606.25	\$6,440.00	\$5,376.25	\$4,830.00	\$4,916.25	\$3,680.00	\$70,495.00
	Metering Charges	\$33,345.90	\$33,398.83	\$33,716.41	\$33,769.34	\$33,769.34	\$33,769.34	\$33,769.34	\$33,769.34	\$33,716.41	\$33,981.06	\$33,981.06	\$33,822.27	\$404,808.64
	Direct Consulting - RD 108	-	-	-	-	-	-	-	-	-	-	\$1,865.26	-	\$1,865.26
	Vendor Total	\$50,809.95	\$50,822.98	\$52,539.91	\$51,259.19	\$51,402.94	\$51,460.44	\$50,569.19	\$51,402.94	\$50,268.66	\$50,039.86	\$51,991.37	\$48,678.27	\$611,245.70
WAPA														
Base Resource														
	Base Resource Energy	\$188,184.45	\$188,184.45	\$188,184.45	\$563,833.59	\$563,833.59	\$563,833.59	\$563,833.59	\$563,833.59	\$563,833.59	\$185,383.94	\$185,383.94	\$185,383.94	\$4,503,706.71
	BR Exchange	(\$81.49)	\$110.74	(\$15.91)	\$255.96	\$102.59	\$84.15	\$190.84	(\$80.45)	\$41.82	\$73.23	(\$83.79)	\$1,678.03	\$2,275.72
	First Pref True-up	(\$377.09)	(\$377.09)	(\$377.09)	(\$377.09)	(\$377.09)	(\$377.09)	(\$377.09)	(\$687.23)	(\$377.09)	(\$5,958.12)	(\$5,958.12)	(\$5,958.12)	(\$21,578.31)
	Restoration	\$104,913.00	\$104,913.00	\$104,913.00	\$104,913.00	\$104,913.00	\$104,913.00	\$108,087.16	\$104,913.00	\$55,598.34	\$55,598.34	\$55,598.34	\$55,598.34	\$1,064,871.52
	WREGIS	\$177.87	\$126.07	\$68.85	\$28.55	\$1.76	-	\$151.10	\$78.41	\$84.14	\$107.83		\$288.63	\$1,113.21
	Category Total	\$292,816.74	\$292,957.17	\$292,773.30	\$668,654.01	\$668,473.85	\$668,453.65	\$671,885.60	\$668,057.32	\$619,180.80	\$235,205.22	\$234,940.37	\$236,990.82	\$5,550,3

Vendor Charges by Category 2022		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
Overhead JPA														
Overhead														
AEWSD		\$1,025.76	\$1,310.06	\$2,656.64	\$2,192.24	\$1,209.83	\$1,471.81	\$1,552.31	\$1,726.36	\$851.28	\$1,103.73	\$1,096.78	\$979.93	\$17,176.73
Auditors		\$4,103.06	\$5,240.22	\$10,626.56	\$8,768.97	\$4,839.33	\$5,887.23	\$6,209.24	\$6,905.44	\$3,405.11	\$4,414.94	\$4,387.11	\$3,919.70	\$5,000.00
Other		\$494.50	\$539.00	\$44.50	\$44.50	\$307.50	\$227.63	\$44.50	\$44.50	\$44.50	\$648.34	\$44.50	\$2,350.14	\$4,834.11
Cameron-Daniel		\$4,100.00	\$3,800.00	\$4,186.65	\$5,141.15	\$4,755.30	\$2,010.40	\$4,655.06	\$3,380.50	\$3,500.00	\$128.50	\$229.46	\$4,374.50	\$40,261.52
RBI		\$913.71	\$941.40	\$785.97	\$855.59	\$1,230.53	\$443.05	\$1,532.07	\$2,378.66	\$763.61	\$2,030.63	\$599.63	\$3,073.00	\$15,547.84
Category Total		\$6,533.98	\$6,590.45	\$9,678.76	\$9,303.48	\$8,363.16	\$5,217.89	\$7,783.94	\$7,530.02	\$5,159.39	\$3,911.20	\$1,970.37	\$10,777.57	\$82,820.20
Overhead ASA														
Utility Management & Operations - Fixed														
ACES		\$11,483.26	\$11,483.26	\$11,483.26	\$11,483.26	\$11,483.26	\$11,483.26	\$11,483.26	\$11,483.26	\$11,483.26	\$11,483.26	\$11,483.26	\$11,483.26	\$137,799.10
AEWSD - Treasurer		\$4,103.06	\$5,240.22	\$10,626.56	\$8,768.97	\$4,839.33	\$5,887.23	\$6,209.24	\$6,905.44	\$3,405.11	\$4,414.94	\$4,387.11	\$3,919.70	\$68,706.91
Auditors		-	-	\$8,020.00	-	\$3,440.00	\$4,260.00	-	-	-	-	-	-	\$20,000.00
Cameron-Daniel		\$19,870.00	\$19,010.00	\$15,050.00	\$21,400.00	\$28,505.00	\$29,750.00	\$23,690.00	\$23,675.00	\$26,250.00	\$28,925.00	\$28,925.00	\$30,200.00	\$295,250.00
McCarty		\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$36,000.00
MCG Software		\$7,714.93	\$7,839.32	\$8,218.52	\$7,774.52	\$8,153.62	\$8,264.24	\$7,613.76	\$7,953.50	\$7,135.26	\$7,079.71	\$7,079.71	\$7,079.71	\$91,906.79
RBI		\$25,937.87	\$22,724.54	\$23,900.88	\$25,175.68	\$28,585.99	\$29,341.75	\$29,079.00	\$25,936.16	\$29,481.38	\$30,479.76	\$28,114.17	\$29,532.81	\$328,290.00
Other		\$288.80	\$764.92	\$428.90	\$361.86	\$1,575.00	\$22,703.34	\$69.79	\$126.22	\$5,415.38	\$349.32	\$426.96	\$9.44	\$32,519.93
Vendor Total		\$72,397.91	\$70,062.26	\$80,728.12	\$82,244.29	\$89,582.20	\$114,689.82	\$81,145.05	\$79,079.58	\$86,170.39	\$85,731.99	\$83,416.21	\$85,224.93	\$1,010,472.73
Special Projects														
WDT3		\$24,798.73	\$31,598.78	\$21,988.33	\$13,333.19	\$3,811.73	\$11,204.09	\$8,411.04	\$19,470.79	\$8,892.19	\$4,145.52	\$14,056.82	\$4,469.01	\$166,180.21
Samba/Ops Upgrade		-	-	\$409.18	-	-	-	-	-	-	-	-	-	\$409.18
Demand Response Program-Expense		-	-	-	-	-	-	\$600.00	\$2,160.00	\$15,938.75	\$4,016.25	\$1,890.00	(\$24,500.00)	\$105.00
Vendor Total		\$24,798.73	\$31,598.78	\$22,397.51	\$13,333.19	\$3,811.73	\$11,204.09	\$9,011.04	\$21,630.79	\$24,830.94	\$8,161.77	\$15,946.82	(\$20,030.99)	\$166,694.39
Utility Operations - Variable														
ACES		\$7,098.74	\$7,098.74	\$7,098.74	\$7,098.74	\$7,098.74	\$7,098.74	\$7,098.74	\$7,098.74	\$7,098.74	\$7,098.74	\$7,098.74	\$7,098.74	\$85,184.90
MCG software		\$2,977.73	\$3,023.15	\$3,023.15	\$3,023.15	\$3,023.15	\$3,023.15	\$3,023.15	\$3,067.06	\$3,067.06	\$3,067.06	\$3,067.06	\$3,067.06	\$36,408.05
RBI		\$3,252.82	\$5,852.35	\$5,270.17	\$6,236.28	\$5,768.48	\$5,060.98	\$4,556.99	\$3,049.89	\$6,169.96	\$6,058.43	\$9,029.38	\$3,639.49	\$63,945.23
Vendor Total		\$13,329.30	\$15,974.24	\$15,392.06	\$16,358.18	\$15,890.38	\$15,182.87	\$14,678.89	\$13,171.79	\$16,335.77	\$16,224.23	\$19,195.18	\$13,805.29	\$185,538.17
Category Total		\$110,525.94	\$117,635.29	\$118,517.69	\$111,935.65	\$109,284.30	\$141,076.78	\$104,834.97	\$113,882.16	\$127,337.09	\$110,117.99	\$118,558.21	\$78,999.23	\$1,362,705.29
Metering														
MGMT														
CD		\$1,100.00	\$500.00	\$250.00	\$250.00	\$2,130.00	\$500.00	\$960.00	\$1,020.00	\$1,250.00	\$1,250.00	\$1,250.00	\$1,000.00	\$11,460.00
MCG		\$1,915.80	\$1,961.22	\$1,961.22	\$1,961.22	\$1,961.22	\$1,961.22	\$1,961.22	\$1,973.27	\$1,973.27	\$1,973.27	\$1,973.27	\$1,973.27	\$23,549.51
RBI		\$1,670.57	\$1,665.99	\$3,639.37	\$2,475.19	\$2,780.51	\$2,297.94	\$1,742.62	\$2,534.36	\$3,425.09	\$1,068.75	\$1,127.31	\$1,542.96	\$25,970.65
Vendor Total		\$4,686.37	\$4,127.21	\$5,850.59	\$4,686.41	\$6,871.73	\$4,759.16	\$4,663.84	\$5,527.63	\$6,648.36	\$4,292.02	\$4,350.59	\$4,516.24	\$60,980.16
Trimark														
Cell Phone		\$11,052.80	\$11,070.40	\$11,176.00	\$11,193.60	\$11,193.60	\$11,193.60	\$11,193.60	\$11,193.60	\$11,176.00	\$11,228.80	\$11,228.80	\$11,176.00	\$134,076.80
MDMA - Time & Materials		\$6,411.25	\$6,353.75	\$7,647.50	\$6,296.25	\$6,440.00	\$6,497.50	\$5,606.25	\$6,440.00	\$5,376.25	\$4,830.00	\$4,916.25	\$3,680.00	\$70,495.00
Metering		\$33,345.90	\$33,398.83	\$33,716.41	\$33,769.34	\$33,769.34	\$33,769.34	\$33,769.34	\$33,769.34	\$33,716.41	\$33,981.06	\$33,981.06	\$33,822.27	\$404,808.64
Vendor Total		\$50,809.95	\$50,822.98	\$52,539.91	\$51,259.19	\$51,402.94	\$51,460.44	\$50,569.19	\$51,402.94	\$50,268.66	\$50,039.86	\$50,126.11	\$48,678.27	\$609,380.44
Category Total		\$55,496.32	\$54,950.19	\$58,390.50	\$55,945.60	\$58,274.67	\$56,219.60	\$55,233.03	\$56,930.57	\$56,917.02	\$54,331.88	\$54,476.70	\$53,194.51	\$670,360.60
Distribution														
WAPA Exhibit C WDT Invoice														
WDT Pass-through		\$1,546,712.01	\$1,546,712.01	\$1,546,712.01	\$1,546,712.01	\$1,723,672.77	\$1,710,824.76	\$1,609,912.04	\$1,470,467.03	\$1,377,883.13	\$1,327,669.77	\$982,585.56	\$553,562.52	\$16,943,425.62
Ownership Charges		\$68,594.09	\$68,594.09	\$68,594.09	\$68,594.09	-	\$68,594.09	\$68,594.09	\$20,325.78	\$69,825.78	\$69,825.78	\$69,825.78	\$20,325.78	\$661,693.44
Vendor Total		\$1,615,306.10	\$1,615,306.10	\$1,615,306.10	\$1,615,306.10	\$1,723,672.77	\$1,779,418.85	\$1,678,506.13	\$1,490,792.81	\$1,447,708.91	\$1,397,495.55	\$1,052,411.34	\$573,888.30	\$17,605,119.06
PG&E WDT Invoice														
Pass-through costs		\$64,362.49	\$64,362.49	\$64,362.49	\$64,362.49	\$42,006.89	\$44,247.12	\$50,591.98	\$51,531.43	\$52,413.06	\$48,467.40	\$39,072.95	\$34,997.20	\$620,777.99
Ownership Charges		\$1,595.18	\$1,805.51	\$1,805.51	\$1,805.51	\$1,805.51	\$1,805.51	\$1,805.51	\$1,805.51	\$1,805.51	\$1,805.51	\$1,805.51	\$1,805.51	\$21,455.79
Vendor Total		\$65,957.67	\$66,168.00	\$66,168.00	\$66,168.00	\$43,812.40	\$46,052.63	\$52,397.49	\$53,336.94	\$54,218.57	\$50,272.91	\$40,878.46	\$36,802.71	\$642,233.78
Category Total		\$1,681,263.77	\$1,681,474.10	\$1,681,474.10	\$1,681,474.10	\$1,767,485.17	\$1,825,471.48	\$1,730,903.62	\$1,544,129.75	\$1,501,927.				

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APPENDIX C

ASA EXHIBIT E VERSION 10

Power & Water Resources Pooling Authority
Resolution 23-06-05

AGGREGATION SERVICES AGREEMENT – EXHIBIT E VERSION 10

WHEREAS, Aggregation Services Agreement (“ASA”) Exhibit E describes the rate methodology and cost allocation principles associated with PWRPA’s provision of electric services to the Project Participants, and describes a process by which each Project Participant’s actual cost of service is annually reconciled with revenue collected from such Project Participant through pro forma rates (including any inter-period rate adjustment); and

WHEREAS, a comprehensive amendment to the ASA Exhibit E was approved by Resolution 20-10-19, which among other things, included “a consistent cost and benefit allocation methodology across all power resources, both physical and financial” whereby each “Participant shall pay all costs and receive all benefits for each Specific Project according to the Project participation shares in each Project;” and

WHEREAS, in the summer of 2022, PWRPA participated in the Demand Side Grid Support Program implemented by the California Energy Commission whereby certain of PWRPA’s customers provided demand response services to the State of California; and

WHEREAS, PWRPA received compensation from the State participating and also incurred operational costs for scheduling and administrative tasks.

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

1. Approves the amendment to ASA Exhibit E, Section VI Cost Allocation Algorithms, Subsection I Load Costs, as shown here in italics:
 1. Cost Allocation: Participant hourly Energy.
 2. Costs include all day-ahead and real-time energy, congestion, and loss charges.
 3. *Demand Response programs will use a combination of Participant hourly energy and Participant load forecast for Cost Allocation.*
2. Authorizes this Resolution to have an Effective Date of January 1, 2023, thereby, being applicable to the demand response cost allocations in the 2022 Annual Reconciliation.
3. Directs the General Counsel to prepare a conformed blackline full copy of Exhibit E signified as Version 10 and attach it to the official version of this Resolution.

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Power & Water Resources Pooling Authority
Resolution 23-06-05

PASSED AND ADOPTED by the PWRPA this 7th day of June 2023, 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, The West Side ID, West Stanislaus ID, Westlands WD, Zone 7 WA (100.0% voting shares)
NOES	None
ABSENT	None



David Weisenberger
Chairman



Attest by: Bruce McLaughlin
Secretary

**Attachment A
to
Resolution 23-06-05**

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Exhibit E
To the
Aggregation Services Agreement
(Version E.10)

- Rate Methodology and Cost Allocation Principles -

This Exhibit E is effective as of: January 1, 2023 (Resolution 23-06-05).

The following sets forth the general principles for allocating estimated costs based upon estimated Project Participant power use, in order to derive pro forma power rates to allocate the estimated costs, and for reconciling revenues collected through rates from Project Participants with the actual, after-the-fact costs of service. The objective of these principles is to ensure that sufficient revenue is collected from each Project Participant to recover actual costs incurred by PWRPA on behalf of the Project Participants and to establish and maintain a reserve fund with sufficient margin to address any potential under-collections.

I. Documents Included

- A. This Exhibit E consists of this document and the documents appended hereto as Appendix 1, entitled “Policy for Allocation of Power Resources” (“Power Allocation Policy”), Appendix 2 entitled Resource Adequacy Cost of Compliance Rule and Appendix 3 entitled RPS Cost of Compliance Rule. In the event of any conflict between this document and any of the Appendices, the terms and provisions of the Appendices shall control, it being the intent of the Project Participants that the Appendices shall be used to interpret, implement and administer the principles set forth in this document.
- B. Any reference to a policy, agreement, statute or regulation means that document as amended, subject to any restrictions on amendment contained in that document.

II. Cost of Service Estimate

- C. Annually, PWRPA shall estimate the cost to serve each Project Participant using the cost allocation algorithms set forth in Section VI, below, Participant-specific estimates, and in conformance with the following principles.
- D. Costs shall be allocated to each Project Participant sufficient to recover its respective proportion of costs of service for acquiring, scheduling, transmitting, distributing, and reconciling its own load and resources portfolios.
- E. The cost of estimated resources to serve PWRPA’s load under this Agreement shall be allocated to Project Participants on a pro rata basis for load or contract share basis for Specific Projects.
- F. Costs for Supplemental Power procured under this Agreement shall be in direct proportion to the respective Project Participant’s estimated residual need for power to supplement its Base Resource Contract (“BRC”) Allocation and Specific Projects.

- G. Costs for Capacity are allocated on a pro rata basis and discussed in more detail in Appendix 2 Resource Adequacy Cost of Compliance Rule.
- H. Costs for Renewable Portfolio Standard (“RPS”) compliance are across multiple years. While most of the required Renewable Energy Certificates (“RECs”) come from PWRPA’s portfolio of resources, PWRPA may need to make short-term REC purchases to fill any gaps. Those purchases will be allocated on an RPS net short basis. RPS procedures are more fully outlined in Appendix 3 RPS Cost of Compliance Rule.
- I. Each Project Participant shall bear account for and pay for it its own, individual, third-party transmission and distribution costs incurred in the implementation of this Agreement.

III. Pro Forma Power Rates

- A. PWRPA shall establish pro forma power rates for each Project Participant based on the fiscal year cost of service estimates for each Project Participant.
- B. The pro forma rates may include an energy component designed to over-collect revenue to reasonably mitigate for uncertainties in marginal pricing, loads and resource volumes.
- C. The Project Participants shall be billed monthly based on the established pro forma rates.

IV. Inter-Period Rate Adjustments

- A. The Board of Directors shall review pro forma power rates biannually to determine whether the pro forma power rates should be adjusted to address shortfalls or over-collections that may occur.
- B. The pro forma power rates may be adjusted by the Board of Directors as may be reasonably required to address shortfalls or over-collections. PWRPA shall provide as much advance notice to Project Participants of adjusted pro forma power rates as reasonably practicable, but in no event less than 15 business days. Without limiting the generality of the foregoing, the Board of Directors may adjust pro forma power rates for specific Project Participants to address changes in power portfolio volumes, costs or revenues.
- C. Adjusted rates shall be based on the principles set forth in Sections II and III, above.

V. Annual Reconciliation

- A. As soon as practicable after the fiscal year, PWRPA shall reconcile, on an accrual basis as of that date, each Project Participant’s collected revenue from invoiced power rates with the Project Participant’s actual cost of service.
- B. Actual cost allocation shall conform to the cost allocation algorithms described in Section VI, below.
- C. Upon approval of the Annual Reconciliation statement by the Board of Directors, over- or under-collection of revenue from Project Participants shall be returned or credited to Project Participants after first satisfying any

requirement to contribute to the reserve fund. Project Participants shall have a 90-day review period to propose amendments to the Board, after which the Annual Reconciliation statement shall become final.

VI. Cost Allocation Algorithms

The following algorithms are the mechanisms that implement the foregoing cost allocation principles and shall be adjusted as directed by the Board of Directors to more accurately reflect those principles. These algorithms shall be used to: (1) allocate estimated costs for purposes of establishing the pro forma power rates; and (2) define actual costs attributable to Project Participants for purposes of the Annual Reconciliation process. A precise list of invoices and algorithms for each category will be detailed in each year's Annual Reconciliation report.

As used in this document and the Appendices, the word "energy" whether capitalized or not, means the electrical energy produced, flowing or supplied by generation, transmission or distribution facilities and procured by the Project Participant, being measured in units of kilowatt-hours or standard multiples thereof.

A. Joint Power Authority General Overheads

1. Cost Allocation: Pro Rata of Parties and Stakeholders found in Joint Powers Agreement Exhibit C, Table 2, Section 3.8.2.3.
2. Costs include, but are not limited to, planning, meetings, supplies, and office equipment.

B. Metering and Meter Data Management

1. Cost Allocation: Pro Rata of Active Meters.
2. Costs include, but are not limited to, meter reading, meter communication, meter validation, grid operator meter data management, and annual audits related to meters and meter data.

C. Utility Management are costs incurred for managerial functions required to implement this Aggregation Services Agreement ("ASA"). The basic functions are required regardless of load, however, increased loads may cause commensurate increases in financial risk and the level of managerial services required in this cost category.

1. Cost Allocation: Project Participant Voting Share found in Joint Powers Agreement Exhibit C, Table 1.
2. Costs include staff and contractor costs for treasurer services, annual cost reconciliation, annual audits, power budget and pro forma rate development, operations planning, contractor coordination, meeting implementation, meeting materials development, legal services involving public utility and electricity law, legislative/regulatory policy development and compliance, and legal services involving the PG&E Wholesale Distribution Tariff.

D. Utility Operations (Fixed) are costs incurred for operations functions required to implement the ASA. The basic functions are required regardless of load, however, increased loads may cause commensurate increases in financial risk and the level of managerial services required.

1. Cost Allocation: Project Participant Voting Share found in Joint Powers Agreement Exhibit C, Table 1.
2. Costs include staff and contractor costs for certain scheduling coordinator services, load/resource scheduling, regulatory reporting, risk management policy compliance, trading controls, power invoices, quarterly rate analysis, operations reporting, pre-reconciliation reporting, power settlements, and information technology services.

E. Utility Operations (Variable) are costs incurred for operations functions required to implement the ASA that are variable in nature. Increased loads may cause commensurate increases in financial risk and the level of operations services required.

1. Cost Allocation: Energy.
2. Costs include staff and contractor costs for daily load-resource optimization (load profiles, resource shaping, congestion revenue rights schedules) and short-term portfolio planning (net short analysis, monthly portfolio management, forward contract purchases).

F. Distribution

1. Cost Allocation: Peak Demand for interval meters and Energy for energy meters.
2. Costs include distribution and cost of ownership invoices from the wholesale distribution service provider.

G. Transmission

1. Cost Allocation: Distribution Loss Factor Energy.
2. Costs include pro rata share of transmission owner revenue requirement.

H. Balancing Authority Operator Charges

1. Cost Allocation:
 - a. Grid Management & Miscellaneous charges: Energy.
 - b. Ancillary Services: Energy less qualifying generation.
2. Costs include all charges from the grid operator and other reliability governing bodies that are not explicitly handled in the load and resource allocation rules.

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I. Load Costs

1. Cost Allocation: Participant hourly Energy.
2. Costs include all day-ahead and real-time energy, congestion, and loss charges.
3. Demand Response programs will use a combination of Participant hourly energy and Participant load forecast for Cost Allocation.

J. Base Resource (“BR”)

1. Cost Allocation:
 - a. Energy: Annual Contract Share basis.
 - b. Displacement: Net Use of BR energy.
 - c. Pooling: Split the Savings / Revenue (further defined in Appendix 1).
 - d. Overhead: Annual Contract Share.
2. Costs include invoices for Energy, Restoration Fund, WREGIS fees, prior year true-ups, and grid operator revenue or expenses.

K. Specific Projects (as further described in Appendix 1)

1. Cost Allocation: Project Share.
2. Costs include, but are not limited to, Energy, grid operator revenue or expenses, plant operator costs, grid management costs, staff overhead for scheduling, settlement, and reporting costs.

L. Supplemental Power – Energy

1. Cost Allocation: Net Short energy as determined at time of contract solicitation.
2. Costs include contract energy charges and grid operator revenue or expenses.

M. Supplemental Power – Other

1. Cost Allocation: contract share at time of solicitation.
2. Costs may include, but are not limited to, procurement for Resource Adequacy, Renewable Energy Credits, Greenhouse Gas allowances, and other attributes not covered in the Base Resource, Specific Project, or Supplemental Power categories.

Appendix 1 to Exhibit E

Policy for Allocation of Power Resources

Purpose: This policy describes the mechanisms employed by PWRPA under the Aggregation Services Agreement to allocate the costs and benefits of power resources between and among Project Participants.

Background: Project Participants are moving away from generic Supplemental Power and are procuring more tailored portfolios. Specifically, Project Participants are entering into an increasing number of contracts classified in the Specific Project-Renewable tier. The original process of aggregating all Specific Projects unnecessarily complicated the energy and cost allocation and inhibited capabilities to accurately assess Specific Project performance metrics. Version 9 eliminates resource pooling except for BR from the Central Valley Project. BR pooling is now calculated on a daily basis rather than hourly thereby enabling Project Participants to retain more of their BR contract share and maximize the economic opportunities from the markets.

Policy Statement: This Policy Statement shall, together with the specific parameters defined in Table 1, constitute PWRPA's policy for allocating the costs and benefits of physical and financial power sources to Project Participants. As it relates to Renewable Portfolio Standard Compliance ("RPS") and Resource Adequacy ("RA"), this Policy Statement is subject to Appendix 2 (RA Cost of Compliance Rule) and Appendix 3 (RPS Cost of Compliance Rule) to Exhibit E. The Appendices shall be used to further interpret, implement and administer the principles set forth in this Policy Statement as related to allocating all power resources. Relevant technical documentation shall be included as part of, and included in, PWRPA's annual reconciliation process.

- 1) Each Participant should communicate its load estimate on a day-ahead basis. PWRPA will estimate the load based on historical usage in absence of a confirmed Participant forecast (ASA Section 7.2).
- 2) PWRPA will aggregate all Participant load into zonal forecasts as designed by the CAISO. PWRPA or its agent will schedule as accurately as possible into the day-ahead market for each hour (ASA Section 7.3).
- 3) Each Participant's hourly net load will be allocated all load costs associated with energy, congestion, and losses from the CAISO's day-ahead and real-time markets. For avoidance of doubt, this includes all Congestion Revenue Right hedging activity.
- 4) PWRPA shall employ a consistent cost and benefit allocation methodology across all power resources, both physical and financial. Each Participant shall pay all costs and receive all benefits for each Specific Project according to the Project participation shares in each Project.
- 5) All operational decisions in regard to shaping resources (if applicable) and scheduling (physically or financially) shall be defined in the Project contract or at the discretion of the General Manager, subject to BROCC oversight.
- 6) PWRPA categorizes all resources into tiers for the purpose of grouping similarly treated resources together. These tiers are set forth in merit order consistent with the loading order adopted by the State of California. Table 1 identifies tiers and general allocation rules consistent with this Policy Statement. Projects will be classified into one tier only.
- 7) Resources classified in the Specific Project-Offsetting tier are treated similarly to the Energy Efficiency tier. The Participant's full allocation of energy from a Specific

Project-Offsetting is counted as an offset against the Participant's load before calculating the BR pooling allocation as described below.

- 8) Base Resource is the only resource that is pooled in PWRPA primarily because it is a must-take resource. Pooling applies when there is excess BR energy after serving a Participant's load. Participants that have excess BR energy contribute their excess to the Pool and Participants that are short receive energy from the pool. Pooling is used to keep BR within PWRPA when it is a benefit over the market alternative.
- 9) When BR energy is pooled, there are two split-the-savings transfers; one for the cost of the energy and the other for the revenue (or expense) from the CAISO. Because all Project Participants receive their allocation share of energy costs and revenues, it is important to transfer both the costs and credits for the pooled energy to the pooled energy recipient.
- 10) Supplemental Power physical or financial forward purchases and sales shall be classified in the Supplemental Power tier. Forward contracts are allocated to Participants based on the net position at the time the forward contract is procured. These net positions are guided by the Risk Management Policy and/or at the discretion of each Participant. For avoidance of doubt, each fixed forward contract can have a separate allocation matrix for Participant participation. Similar to Specific Projects, costs and revenues for Supplemental Power are allocated by Participant allocation with no pooling.
- 11) Day-ahead purchases and sales are done at the discretion of the Scheduling Agent and guided by written scheduling protocols. Day-ahead contracts are allocated based on monthly net long or short positions with no pooling.
- 12) Pursuant to ASA Section 2.3, the Board of Directors may modify the methodologies, procedures and specific parameters of this Policy Statement from time to time as necessary to address the unique attributes of Projects.

Specific Project-Offsetting:

- 1) Pursuant to Board Resolution 09-07-11, in determining the "residual load" or net short position of the Sonoma County Water Agency ("SCWA") for purposes of sharing surplus BR under ASA Section 4.4.2, the full allocation of energy from the Warm Springs Hydroelectric Project (a Specific Project-Offsetting) will first be counted as an offset to SCWA's load. As such, SCWA's residual load will be calculated as SCWA's total load minus: (a) the full allocation of energy from the Warm Springs Hydroelectric Project; and (b) SCWA's BR contract share.
- 2) Pursuant to Board Resolution 16-02-04, in determining the "residual load" or net short position of the Westlands Water District ("WWD") for purposes of sharing surplus BR under ASA Section 4.4.2, the full allocation of energy from the Westlands BOR (a Specific Project-Offsetting) will first be counted as an offset to WWD load. As such, WWD's residual load will be calculated as WWD's total load minus: (a) the full allocation of energy from the Westlands BOR; and (b) WWD's BR contract share.

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Table 1

Tiers	Loading Order	Allocation Percentage	Pooling Access Rule	Pooling Price Formula	Split Savings %	Pooling Price Limit	Comments
Energy Efficiency	-3	100% Participant	None	None	None	None	Internal to Participant
Demand Response	-2	100% Participant	None	None	None	None	Internal to Participant
Onsite Generation supplied by Participant	-1	100% Participant	None	None	None	None	Load Offset
Retail Sale Load	0	100% Participant	None	None	None	None	Internal to Participant
Specific Project-Offsetting	1	Project Share	None	None	None	None	Warm Springs and WWD BOR
Base Resource (ASA Section 4.4)	2	BRC Allocation %	Sequential Net Short (SNS)	Split-the-Benefit	50%	Minimum of BR Rate	Allocation and Pooling on a Daily basis (not hourly)
Specific Project-Renewable (ASA Section 4.5b and 4.6)	3	Project Share	None	None	None	None	
Specific Project- Other (Section 4.5b and 4.6)	4	Project Share	None	None	None	None	
Supplemental Power – Forward Purchase	5	Supplemental Power Allocation %	None	None	None	None	Allocation % to be based on a Net Short established at time of transaction
Supplemental Power - Forward Sale	6	Supplemental Power Allocation %	None	None	None	None	Allocation % to be established at time of transaction
Supplemental Power – Day-Ahead (Purchase or Sale)	7	Remaining Net Short or Net Long	SNS or SNL	None	None	None	

Definitions for Table 1:

1) Allocation Percentage –

- a. Base Resource tier and all Specific Project tiers – the Allocation percentage shall be the pro-rata share of each Participant’s contract rights to the resource, as deliverable to PWRPA load, to the total contract rights to the resource, e.g., the Participants’ proportional rights to PWRPA’s aggregate right to BR.
- b. Supplemental Power-Forward tiers – the Allocation percentage is contract-specific and based on the net position for each Participant at the time the forward contract is procured. The Risk Management Policy guides the timing and volume of procurement.

- c. Supplemental Power Day-Ahead tier – the Allocation percentage for Supplemental Power Day-Ahead shall be based on the monthly net long or net short position.

2) Base Resource Pooling Details

- a. Pooling Price Formula – shall mean some form of a “split-the-benefit” formula (savings or revenue). The split-the-benefit methodology applies when there is some savings or revenue between the pooled BR energy’s price and a market price alternative. The split-the-benefit formula requires a: (a) Unit Price; (b) Splitting Percentage; and (c) Market Price. The two Participants (donor and recipient) will split the benefit according to the splitting percentage. A price limit is optional.
- b. Pooling Price Formula application: When pooling BR resources, there are two pooling rates to derive and use; the rate to pool the BR energy cost, and also the rate to transfer the CAISO revenue.
 - i. Pooling of BR energy cost
 - 1. BR Unit Price: An annual rate derived by taking annual invoices divided by annual invoiced energy (imports and displaced energy). The annual rate will be estimated for purposes of pre-reconciliation reports.
 - 2. BR Market Price: The locational marginal price (“LMP”) most directly associated with the pooled energy’s reasonable market alternative is TH_NP15. Since BR pooling is done daily, a daily weighted market price is derived from the hourly BR energy scheduled and the hourly LMP at TH_NP15. In the event a market LMP cannot be calculated, this methodology will revert to using a proxy price such as the Intercontinental Exchange (“ICE”) daily price index or successor.
 - 3. Optional BR Price Limit: Floor set at BR Unit Price
 - ii. Pooling of CAISO revenue
 - 1. CAISO Unit Price: The LMP where energy was imported (or Displaced). BR pooling is done daily, therefore a daily weighted credit is derived from the actual hourly transactions and the hourly CAISO revenue rates applicable to imported and displaced BR.
 - 2. CAISO Market Price: Same as for pooling of the BR energy cost which is a daily weighted market price derived from the hourly BR energy scheduled and the hourly LMP at TH_NP15.
 - 3. Optional CAISO Price Limit: Floor set at CAISO Unit Price.
- c. Splitting percentage for all split-the-benefit calculations shall be 50%, absent Board action to the contrary.
- d. Price Limits may be used to set a minimum or cap to the split-the-benefit rate derivation.

Appendix 2 to Exhibit E

Resource Adequacy Cost of Compliance Rule (“RA Rule”)

Effective 2013 Operating Year pursuant to Resolution 13-08-10.

Purpose: As provided in Section II.E. of Exhibit E, this RA Rule revises and implements mechanisms to be employed by PWRPA under the ASA to forecast and allocate costs associated with RA compliance.

Applicability: The PWRPA RA compliance obligations for Operating Year 2013, and thereafter, or until amended.

Summary: This RA Rule consists of four components: 1) Compliance Information; 2) Counting Conventions for RA; 3) Allocation of RA Costs; and 4) Additional Charges. Unless otherwise specified, all capitalized terms used in this RA Rule have the meanings given to such terms in the Aggregation Services Agreement.

- 1) **Compliance Information:** The GM will provide information to Project Participants. The purpose of this information is to inform Project Participants of PWRPA's current and planned RA compliance activities and positions.

The GM, at a minimum, shall report quarterly to the Board the current and projected RA compliance position of PWRPA based on the best available forecast information of loads and resource performance available at the time of the report.

- 2) **Counting Conventions:** The GM shall be responsible for the acquisition of sufficient RA products to assure PWRPA meets its compliance obligations, as described in the ISO tariff. In general, PWRPA's RA compliance obligation is to secure sufficient RA products to cover at least 115% of its peak load. RA products include, but are not limited to, system, local or fast ramp qualified demand response; unit contingent and firm capacity with or without associated energy sourced in California within the CAISO controlled grid, or sourced outside the CAISO controlled grid when accompanied with sufficient firm transmission and associated CAISO import capability allocations. The GM shall also rely on the RA counting conventions adopted by the Board, acting as PWRPA's Local Regulatory Authority ("LRA"), that include other forms of capacity that are accepted for submittal to the CAISO's RA process. In general, annual RA plans are submitted in October of each year, and monthly RA plans are submitted for approval each month.

Finally, the CAISO monitors RA plan performance as defined and described in the CAISO tariff. Actual RA resource performance in the CAISO markets is compared to RA planned performance. Absent a performance waiver, any RA deficiency on an hourly basis is subject to an CAISO RA performance penalty (as described in CAISO tariff).

- 3) **Allocation of RA Costs:** For purposes of this RA Rule, each Project Participant shall be assigned responsibility for a share of PWRPA's RA compliance capacity by applying the criteria applicable to PWRPA to each Project Participant individually, where the sum of the individual Project Participant's responsibility shall equal PWRPA's responsibility in total.

On a planned and operational basis, total RA performance for PWRPA is equal to the sum of each Project Participant's share of PWRPA resources counted towards RA compliance. To the extent a specific resource satisfies a CAISO RA requirement for PWRPA, each Project Participant's share of that resource shall likewise satisfy the requirement for the Project Participant.

Any RA shortfall or deficiency that might accrue to PWRPA and require correction or adjustment, shall be allocated, for purposes of this RA Rule and as the case may be: (a) to each Project Participant on a pro-rata basis in relation to the Project Participant's share of the PWRPA RA resource(s) performance that caused the shortfall or deficiency; or (b) to the Project Participant's share of uncovered load (namely, electric load of the Project Participants for which no RA products have been secured to cover).

- 4) Additional Charges:** PWRPA will endeavor to plan its RA portfolio to cost-effectively minimize the total cost of RA compliance on a planned basis. However, as noted in Section 2, above, the CAISO monitors RA plans and RA performance in real-time where market participants like PWRPA have little means to correct any imbalance that might occur from its RA Plans, which were submitted months in advance of the real time market. Any RA shortfall or deficiency that might accrue to PWRPA may, in certain circumstances, result in an CAISO charge, RA assessment or penalty ("Economic Sanction") applied to PWRPA after the fact without opportunity for cure by PWRPA. Each occurrence of an Economic Sanction depends on the circumstances at hand, and may be the result of resource performance, load volatility, or actions (inactions) by others out of PWRPA's control.

Any Economic Sanction that accrues to PWRPA will be allocated to each Project Participant on a pro-rata basis in relation to the Project Participant's share of the PWRPA RA resource(s) the performance of which caused the shortfall or deficiency or to the Project Participant's share of uncovered load, both of which as described in Section 3, above.

Appendix 3 to Exhibit E

RPS Cost of Compliance Rule ("RPS Rule")

Effective January 1, 2014 pursuant to Resolution 14-04-04.

Purpose: As provided in Section II.F. of Exhibit E, this RPS Rule revises and implements mechanisms to be employed by PWRPA under the ASA to forecast and allocate costs associated with RPS compliance.

Applicability: The PWRPA RPS compliance obligations for Compliance Period 2 (Jan 1, 2014 - Dec 31, 2016) & Period 3 (Jan 1, 2017 - Dec 31, 2020), and thereafter, or until amended.

Summary: The PWRPA Renewable Energy Resources Procurement Plan ("Procurement Plan") describes how PWRPA will achieve its RPS procurement requirements in each compliance period. This RPS Rule provides cost allocation rules, as contemplated in the RMP. This RPS Rule consists of six components: 1) Compliance Information; 2) Acquisition of Compliance Instruments; 3) Allocation of Compliance Costs; 4) RPS Funding; 5) Supplemental Power Cost Allocation Methodology Interaction; and 6) Additional Charges.

Unless otherwise specified, all capitalized terms used in this RPS Rule have the meanings given to such terms in the Aggregation Services Agreement.

- 1) **Compliance Information:** The GM will provide information to Project Participants. The purpose of this information is to inform Project Participants of PWRPA's current and planned RPS compliance activities and positions.

The GM, at a minimum, shall report quarterly to the Board the current and projected RPS compliance position of PWRPA based on the best available forecast information of loads and resource performance available at the time of the report.

- 2) **Acquisition of RPS Compliance Instruments:** The PWRPA Board of Directors shall be responsible for procuring sufficient compliance instruments to assure PWRPA meets its obligations for all compliance periods and thereafter unless amended. For the purpose of this RPS Rule, a Compliance Instrument shall mean an "electricity product" as defined in Section 6 of the Procurement Plan..

In order to facilitate planning and acquisition activities, the GM will develop, and the Board will periodically adopt, hedge guidelines applicable to PWRPA's acquisition of Compliance Instruments. These hedge guidelines will prescribe percentage hedge positions relative to the remaining quarters in a compliance period that will guide PWRPA's RPS acquisition activities. To the extent practical, PWRPA will endeavor to create opportunities pursuant to rate agreements by which Project Participants may be directly assigned costs and rights to specific renewable energy resources sufficient to reliably meet PWRPA's RPS compliance obligations. In the event such opportunities do not materialize, or rate agreements are not executed by Project Participants, the GM shall procure in a cost effective manner sufficient RPS Compliance Instruments and allocate the costs of such compliance activities pursuant to this RPS Rule.

- 3) Allocation of RPS Costs:** For purposes of this RPS Rule, each Project Participant shall be assigned responsibility for a share of PWRPA's RPS compliance obligation costs, by applying the compliance obligation metric applicable to PWRPA to each Project Participant the sum of the individual Project Participant's obligation costs shall equal PWRPA's obligation costs in total. As described in Section 2, Project Participants are expected to be given the opportunity to voluntarily underwrite, subscribe or otherwise execute a rate agreement(s) governing a share of a specific renewable energy project or instrument that satisfies all or a portion of the Individual Participant's RPS compliance obligation. To the extent that the projected sum of all Compliance Instruments from such rate agreements for any Project Participant exceeds that Project Participant's assigned share of PWRPA RPS compliance obligations for any compliance period, the Project Participant may elect to bank those excess Compliance Instruments in a manner consistent with Section 10 of the Procurement Plan. Absent this election, the excess Compliance Instruments shall pro-rata reduce all other Project Participants' assigned responsibility for that period.

For purposes of this RPS Rule, PWRPA's RPS compliance obligation was calculated using a 7-year rolling average of retail sales multiplied by the applicable RPS percentages for each year.

4) RPS Funding -RPS Rate and the P3-RPS Compliance Account:

- a. Periodically, but not less than quarterly, the GM shall evaluate PWRPA's RPS position and net short positions relative to the applicable RPS compliance period requirements for PWRPA in total and for each Project Participant, as allocated pursuant to this RPS Rule. The evaluation shall identify three categories: (a) Subscribed Positions (i.e., expected deliveries from agreements under which PWRPA and Project Participants have contracted to procure Compliance Instruments); (b) Allocated Positions (i.e., the RPS obligations of PWRPA and Project Participants allocated as per Section 3); and (c) Net Short Positions (i.e., the difference between (b) and (a)). At least one evaluation shall be coincident with PWRPA's annual budget and rate cycle, which typically occurs at the start of a calendar year.
- b. The GM shall develop, and the Board shall adopt, rates for each Project Participant sufficient to cover the costs of meeting the "Net Short" RPS positions as determined in in Section 4.a., above, plus a reasonable margin for contingencies ("RPS Rates"). (Rates for Subscribed Positions will be as set forth in the applicable rate agreements associated with each subscribed position.) The RPS Rates shall consist of (i) a fixed charge (that may equal zero); and (ii) a per kilowatt-hour charge to be applied to each Project Participant's energy load.
- c. Thereafter, the revenues collected from the RPS Rates shall be deposited in a sub account of the PWRPA Public Purpose Program ("P3") account known as the P3-RPS Compliance Account ("P3- RCA") by Project Participant. The funds deposited in the P3-RCA shall be tracked by Project Participant and reported monthly to the Board.
- d. The costs of any RPS Compliance Instrument not otherwise procured as the result of a rate agreement and directly assigned to a Participant shall be paid out of the P3-RCA. Expenditures from the P3-RCA shall be tracked by Project Participant, and shall

reflect each Project Participant's allocated cost responsibility for such Compliance Instruments.

- e. For the purposes of this section and within any compliance period, the GM may transfer the amount of banked "excess Compliance Instruments" from one or more Participant's Subscribed Positions that have been declared surplus by said Participants ("Surplus Compliance Position") to other Participant's with Net Short Positions, pursuant to notice and transfer rules adopted by the Board. The Board shall establish the transfer price for Surplus Compliance Positions, at least annually, to be equal to the market value of equivalent Compliance Instruments that the GM would otherwise procure the GM to meet the RPS obligations reflected in the Net Short Positions. In the event such a transfer is implemented, those Participants transferring a Surplus Compliance Position shall receive a credit of the applicable transfer price in their P3-RCA from the corresponding transferees whose P3-RCA account is debited. The term "market value of equivalent Compliance Instruments" refers to a transfer of electricity products of the same Portfolio Content Category for a specific compliance period, and are separate and distinct from the term "pool transfer price for energy" which shall continue to apply to hourly pool transfers.
 - f. If a Project Participant(s) enters into a rate agreement relating to a new Compliance Instrument (i.e., a Compliance Instrument not already included in the Project Participant(s)' Subscribed Positions) during any compliance period, then at the request of a Project Participant, all or a portion of the costs of that newly subscribed Compliance Instrument shall be paid out of the P3-RCA in proportion to the Participant(s)'s allocated cost responsibility for such Compliance Instrument, up to the total amount in the P3-RCA attributed to that Participant(s). The GM shall soon thereafter undertake a new evaluation of RPS positions and, if necessary, adjust the RPS Rates as required going forward.
- 5) Additional Charges:** Each Project Participant shall indemnify and hold PWRPA harmless for all damages and costs incurred due to any penalty, fine or other sanction imposed on PWRPA for not meeting its RPS compliance obligation ("Economic Sanctions") as a result of that Project Participant's failure to satisfy its allocated share of PWRPA's RPS compliance obligations. To the extent allowed by law, Economic Sanctions attributed to a non-compliant Project Participant shall be paid out of remaining funds in its respective P3-RCA. Any remaining balance shall be added to the Project Participant's next monthly billing statement of which the full amount shall be subject to Article 9 of the Aggregation Services Agreement.

Version History			
Version 1			
Version 2			
Version 3			
Version 4			
Version 5			
Version 6			
Version 7			
Version 8			
Version 9			
Version 10	6/07/23	R23-06-05	Added Exhibit E, Section VI Cost Allocation Algorithms, Subsection I Load Costs

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APPENDIX D

SUMMARY OF ALLOCATION SHARES

ALLOCATION SHARES SUMMARY

Name	Voting Share	BR - CVP	BR - PWRPA	Lodi Energy Center	Warm Springs	Astoria	Whitney Point	Slate Solar (PV)	Slate Solar (BESS)	Slate Solar (Hybrid)	Per Capita
Arvin-Edison	18.6684	2.1101	28.9887	23.6589	-	38.3467	31.8180	34.6154	10.0000	27.7778	0.0714
Banta Carbona	5.9784	0.2603	3.5753	8.8976	-	-	-	7.6923	20.0000	11.1111	0.0714
Cawelo	5.6753	0.1250	1.7170	7.4884	-	5.9898	-	15.9615	19.0000	16.8056	0.0714
Glenn-Colusa	5.1377	0.2351	3.2303	5.0210	-	3.1691	2.7270	2.8846	-	2.0833	0.0714
James	3.9954	0.0498	0.6840	3.9702	-	0.8058	0.9090	0.9615	-	0.6944	0.0714
Lower Tule	4.9610	0.0643	0.8832	-	-	-	-	-	-	-	0.0714
Princeton	4.0424	0.0528	0.7247	4.1919	-	1.1275	0.9090	0.9615	-	0.6944	0.0714
RD 108	4.2128	0.0421	0.5789	2.2272	-	-	2.2730	1.1538	2.5000	1.5278	0.0714
Santa Clara	6.6396	0.1063	1.4599	6.3995	-	4.0087	6.8180	5.7692	5.0000	5.5556	0.0714
Sonoma	8.5780	0.1943	2.6698	-	100.0000	10.4747	25.4550	3.8462	-	2.7778	0.0714
West Stan	5.7436	0.3658	5.0247	5.0044	-	-	-	7.6923	10.0000	8.3333	0.0714
Westlands	18.0225	3.5169	48.3147	28.9474	-	34.5755	27.2730	15.3846	32.0000	20.0000	0.0714
BB/West Side ID	3.9387	0.1407	1.9326	4.1935	-	-	-	1.1538	1.5000	1.2500	0.0714
Zone7	4.4065	0.0157	0.2161	-	-	1.5021	1.8180	1.9231	-	1.3889	0.0714
TOTAL	100.000	7.279	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	1.000
A	B	C	D	E						F	G

Index:

- A Participants
- B Voting Share
- C Base Resource contract shares
- D Percentage of Base Resource within PWRPA
- E Special Project Shares
- F Hybrid share for Slate approved by the Board when overhead costs should be shared by solar and battery owners
- G Per Capita for splitting of JPA overhead costs is 1/14th

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APPENDIX E

**DETAIL OF ADJUSTMENTS INCLUDED IN TREASURER FINAL
2022 STATEMENT**

PARTICIPANT ADJUSTMENTS

Name	CAISO Prior Period	NCPA - LEC Prior Period	APX - Astoria Prior Period	PG&E Cost of Ownership True-Up	Slate Prior Period	Total
Arvin-Edison	\$ 4,743.36	\$ 3,595.44	\$ (28.94)	\$ 14,580.00	\$ 2,359.14	\$ 25,249.00
Banta Carbona	\$ 702.36	\$ 1,352.17	\$ -	\$ -	\$ 524.25	\$ 2,578.78
Cawelo	\$ 249.21	\$ 1,138.01	\$ (4.52)	\$ 1,011.06	\$ 1,087.82	\$ 3,481.59
Glenn-Colusa	\$ 386.94	\$ 763.04	\$ (2.39)	\$ 360.00	\$ 196.59	\$ 1,704.18
James	\$ 166.63	\$ 603.35	\$ (0.61)	\$ -	\$ 65.53	\$ 834.91
Lower Tule	\$ 291.51	\$ -	\$ -	\$ 900.00	\$ -	\$ 1,191.51
Princeton	\$ 77.13	\$ 637.04	\$ (0.85)	\$ -	\$ 65.53	\$ 778.85
RD 108	\$ 108.26	\$ 338.47	\$ -	\$ -	\$ 78.64	\$ 525.37
Santa Clara	\$ 770.27	\$ 972.53	\$ (3.03)	\$ -	\$ 393.19	\$ 2,132.97
Sonoma	\$ 1,294.86	\$ -	\$ (7.90)	\$ 2,340.00	\$ 262.13	\$ 3,889.08
West Stan	\$ 694.99	\$ 760.52	\$ -	\$ -	\$ 524.25	\$ 1,979.76
Westlands	\$ 7,238.36	\$ 4,399.14	\$ (26.09)	\$ 68,977.13	\$ 1,048.50	\$ 81,637.04
BB/West Side ID	\$ 93.52	\$ 637.29	\$ -	\$ -	\$ 78.64	\$ 809.44
Zone7	\$ 315.23	\$ -	\$ (1.13)	\$ -	\$ 131.06	\$ 445.16
TOTAL	\$ 17,132.62	\$ 15,197.00	\$ (75.46)	\$ 88,168.19	\$ 6,815.28	\$ 127,237.63
A	B	C	D	E	F	G

Index:

- A Participants
- B CAISO Prior Period adjustments allocated pro rata on meter demand
- C NCPA prior period adjustment, allocated on LEC contract share
- D Astoria prior period adjustments for CAISO settlements, allocated on Astoria contract share
- E PG&E prior period Cost of Ownership True-Up
- F Slate prior period adjustments, allocated on Slate contract share
- G Net total of Adjustments included on the Treasurer Statement

APPENDIX F

SUPPLEMENTAL POWER - OTHER CHARGES DETAIL

Supplemental Category costs include the cost of Renewable Requirements, Resource Adequacy (RA) Capacity contracts, and Carbon allowance tranfers.

1. Summary of Annual Resource Adequacy Net Short and Procurement for Local and Flexible needs
2. Monthly Cost allocation of RA contracts purchased from Table 1
3. Carbon Transfer is a cost-transference mechanism between participants to meet the 100% carbon-free requirements of certain Participatns. Transfer cost is approved by the Board, \$5.70/MWh for 2022.
4. Renewable Requirements: the only Renewable Energy Credits in 2022 was \$86,921 for Santa Clara Valley's projects.

Table 1. Annual RA Net Short and Procurement							
Participant	Local RA			System RA			Total Cost
	Net Short, MW	Share of Net Short	Cost	Net Short, MW	Share of Net Short	Cost	
Arvin-Edison	99.66	37.1%	\$ 121,896	102.82	37.3%	\$ 102,027	\$ 223,923
Banta-Carbona	-	0.0%	\$ -	-	0.0%	\$ -	\$ -
Cawelo	0.57	0.0%	\$ -	4.87	1.8%	\$ 4,834	\$ 4,834
Glenn-Colusa	16.07	6.0%	\$ 19,700	12.80	4.6%	\$ 12,700	\$ 32,401
James	0.37	0.0%	\$ -	1.93	0.7%	\$ 1,919	\$ 1,919
Lower Tule	17.74	6.4%	\$ 20,932	29.65	10.8%	\$ 29,427	\$ 50,358
Princeton	2.58	0.7%	\$ 2,463	4.11	1.5%	\$ 4,081	\$ 6,543
RD108	1.84	0.4%	\$ 1,231	1.73	0.6%	\$ 1,712	\$ 2,943
Santa Clara	16.76	6.0%	\$ 19,700	34.38	12.5%	\$ 34,116	\$ 53,817
Sonoma	34.63	12.7%	\$ 41,863	59.64	21.6%	\$ 59,180	\$ 101,044
West Stan	9.56	3.4%	\$ 11,081	3.51	1.3%	\$ 3,480	\$ 14,562
Westlands	64.64	24.0%	\$ 78,801	-	0.0%	\$ -	\$ 78,801
BB/Westside	0.40	0.0%	\$ -	-	0.0%	\$ -	\$ -
Zone 7	9.70	3.4%	\$ 11,081	20.33	7.4%	\$ 20,175	\$ 31,256
Totals	274.53	100.0%	\$ 328,750	275.77	100.0%	\$ 273,650	\$ 602,400

Table 2. Monthly Allocation of Table 1 RA Procurement													
Participant	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Arvin-Edison	\$ -	\$ -	\$ -	\$ 45,302	\$ 44,274	\$ 38,961	\$ -	\$ -	\$ -	\$ -	\$ 56,452	\$ 38,933	\$ 223,923
Banta-Carbona	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cawelo	\$ -	\$ -	\$ -	\$ 890	\$ 2,098	\$ 1,846	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,834
Glenn-Colusa	\$ -	\$ -	\$ -	\$ 6,624	\$ 5,511	\$ 4,850	\$ -	\$ -	\$ -	\$ -	\$ 9,124	\$ 6,292	\$ 32,401
James	\$ -	\$ -	\$ -	\$ 353	\$ 833	\$ 733	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,919
Lower Tule	\$ -	\$ -	\$ -	\$ 9,972	\$ 12,770	\$ 11,237	\$ -	\$ -	\$ -	\$ -	\$ 9,694	\$ 6,685	\$ 50,358
Princeton	\$ -	\$ -	\$ -	\$ 1,287	\$ 1,771	\$ 1,558	\$ -	\$ -	\$ -	\$ -	\$ 1,140	\$ 787	\$ 6,543
RD108	\$ -	\$ -	\$ -	\$ 583	\$ 743	\$ 654	\$ -	\$ -	\$ -	\$ -	\$ 570	\$ 393	\$ 2,943
Santa Clara	\$ -	\$ -	\$ -	\$ 10,568	\$ 14,805	\$ 13,028	\$ -	\$ -	\$ -	\$ -	\$ 9,124	\$ 6,292	\$ 53,817
Sonoma	\$ -	\$ -	\$ -	\$ 20,005	\$ 25,681	\$ 22,599	\$ -	\$ -	\$ -	\$ -	\$ 19,388	\$ 13,371	\$ 101,044
West Stan	\$ -	\$ -	\$ -	\$ 3,051	\$ 1,510	\$ 1,329	\$ -	\$ -	\$ -	\$ -	\$ 5,132	\$ 3,539	\$ 14,562
Westlands	\$ -	\$ -	\$ -	\$ 17,139	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,494	\$ 25,169	\$ 78,801
BB/Westside	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Zone 7	\$ -	\$ -	\$ -	\$ 6,126	\$ 8,755	\$ 7,704	\$ -	\$ -	\$ -	\$ -	\$ 5,132	\$ 3,539	\$ 31,256
Totals	\$ -	\$ -	\$ -	\$ 121,900	\$ 118,750	\$ 104,500	\$ -	\$ -	\$ -	\$ -	\$ 152,250	\$ 105,000	\$ 602,400

Table 3. Carbon Transfer				
Participant	Carbon Free Need (MWh)	CVP Carbon-Free Hydro (MWh)	Seller Credit (\$)	Buyer Cost (\$)
Arvin	-	10,424	\$ (59,460)	\$ -
Banta Carbona	-	1,305	\$ (7,443)	\$ -
Cawelo	-	607	\$ (3,460)	\$ -
Glenn-Colusa	-	1,071	\$ (6,108)	\$ -
James	-	244	\$ (1,394)	\$ -
Lower Tule	-	320	\$ (1,822)	\$ -
Princeton	-	34	\$ (196)	\$ -
RD 108	-	211	\$ (1,203)	\$ -
Santa Clara	12,387	-	\$ -	\$ 70,657
Sonoma	19,269	-	\$ -	\$ 109,910
West Stan	-	1,842	\$ (10,505)	\$ -
Westlands	-	21,099	\$ (120,348)	\$ -
BB/Westside	-	649	\$ (3,702)	\$ -
Zone 7	6,149	-	\$ -	\$ 35,075
Totals	37,806	37,806	\$ (215,641)	\$ 215,641

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APPENDIX G

RESOURCE SUMMARY

2022 Annual Resource Summary, kWh

Participant	Warm Springs & WWD BOR	Base Resource	Astoria	Whitney Point	Slate PV+BESS	Lodi Energy Center	Supplemental	CAISO Imbalance	Total Load
Arvin-Edison	-	16,205,107	11,873,001	9,559,411	21,518,971	5,303,994	-	53,311,355	117,771,840
Banta-Carbona	-	2,025,947	-	-	4,909,422	1,994,717	-	11,288,528	20,218,615
Cawelo	-	944,407	1,854,673	-	10,025,774	1,678,794	-	(4,527,662)	9,975,987
Glenn-Colusa	-	1,676,524	981,212	819,301	1,787,274	1,125,638	-	(3,488,713)	2,901,236
James	-	380,148	249,560	273,100	595,758	890,063	-	2,632,212	5,020,842
Lower Tule	-	496,447	-	-	-	-	-	6,279,015	6,775,462
Princeton	-	83,010	349,261	273,100	595,758	939,765	-	(2,146,414)	94,481
RD108	-	327,552	-	682,901	732,829	499,307	-	(463,468)	1,779,121
Santa Clara	-	915,942	1,241,299	2,048,402	3,610,388	1,434,678	-	12,063,856	21,314,566
Sonoma	-	1,688,248	3,243,355	7,647,709	2,383,033	-	-	19,716,544	34,678,888
West Stan	-	2,858,574	-	-	4,837,744	1,121,916	-	11,473,042	20,291,277
Westlands	5,001,000	27,310,915	10,705,394	8,193,909	9,761,502	6,489,602	-	155,225,945	222,688,266
BB/Westside	-	1,014,940	-	-	725,662	940,124	-	(46,485)	2,634,241
Zone 7	-	158,238	465,061	546,201	1,191,516	-	-	6,272,621	8,633,638
PWRPA	5,001,000	56,086,000	30,962,816	30,044,034	62,675,632	22,418,600	-	267,590,377	474,778,459

Participant	Warm Springs & WWD BOR	Base Resource	Astoria	Whitney Point	Slate PV+BESS	Lodi Energy Center	Supplemental	CAISO Imbalance	Total Load
Arvin-Edison	0.0%	13.8%	10.1%	8.1%	18.3%	4.5%	0.0%	45.3%	100.0%
Banta-Carbona	0.0%	10.0%	0.0%	0.0%	24.3%	9.9%	0.0%	55.8%	100.0%
Cawelo	0.0%	9.5%	18.6%	0.0%	100.5%	16.8%	0.0%	-45.4%	100.0%
Glenn-Colusa	0.0%	57.8%	33.8%	28.2%	61.6%	38.8%	0.0%	-120.2%	100.0%
James	0.0%	7.6%	5.0%	5.4%	11.9%	17.7%	0.0%	52.4%	100.0%
Lower Tule	0.0%	7.3%	0.0%	0.0%	0.0%	0.0%	0.0%	92.7%	100.0%
Princeton	0.0%	87.9%	369.7%	289.1%	630.6%	994.7%	0.0%	-2271.8%	100.0%
RD108	0.0%	18.4%	0.0%	38.4%	41.2%	28.1%	0.0%	-26.1%	100.0%
Santa Clara	0.0%	4.3%	5.8%	9.6%	16.9%	6.7%	0.0%	56.6%	100.0%
Sonoma	0.0%	4.9%	9.4%	22.1%	6.9%	0.0%	0.0%	56.9%	100.0%
West Stan	0.0%	14.1%	0.0%	0.0%	23.8%	5.5%	0.0%	56.5%	100.0%
Westlands	2.2%	12.3%	4.8%	3.7%	4.4%	2.9%	0.0%	69.7%	100.0%
BB/Westside	0.0%	38.5%	0.0%	0.0%	27.5%	35.7%	0.0%	-1.8%	100.0%
Zone 7	0.0%	1.8%	5.4%	6.3%	13.8%	0.0%	0.0%	72.7%	100.0%
PWRPA	1.1%	11.8%	6.5%	6.3%	13.2%	4.7%	0.0%	56.4%	100.0%

2022 Annual Resource Detail, kWh

Participant	Warm Springs & WWD BOR	Allocation	Base Resource Pool	Net	Lodi Energy Center	Astoria	Whitney Point	Slate PV+BESS	Net Resources
Arvin-Edison	-	16,258,627	(53,520)	16,205,107	5,303,994	11,873,001	9,559,411	21,518,971	64,460,485
Banta-Carbona	-	2,005,226	20,721	2,025,947	1,994,717	-	-	4,909,422	8,930,086
Cawelo	-	962,971	(18,564)	944,407	1,678,794	1,854,673	-	10,025,774	14,503,648
Glenn-Colusa	-	1,811,754	(135,230)	1,676,524	1,125,638	981,212	819,301	1,787,274	6,389,948
James	-	383,632	(3,483)	380,148	890,063	249,560	273,100	595,758	2,388,630
Lower Tule	-	495,354	1,093	496,447	-	-	-	-	496,447
Princeton	-	406,439	(323,428)	83,010	939,765	349,261	273,100	595,758	2,240,895
RD108	-	324,689	2,863	327,552	499,307	-	682,901	732,829	2,242,589
Santa Clara	-	818,810	97,131	915,942	1,434,678	1,241,299	2,048,402	3,610,388	9,250,709
Sonoma	-	1,497,390	190,858	1,688,248	-	3,243,355	7,647,709	2,383,033	14,962,344
West Stan	-	2,818,181	40,394	2,858,574	1,121,916	-	-	4,837,744	8,818,235
Westlands	5,001,000	27,097,789	213,126	27,310,915	6,489,602	10,705,394	8,193,909	9,761,502	67,462,321
BB/Westside	-	1,083,939	(68,999)	1,014,940	940,124	-	-	725,662	2,680,726
Zone 7	-	121,200	37,039	158,238	-	465,061	546,201	1,191,516	2,361,017
PWRPA	5,001,000	56,086,000	-	56,086,000	22,418,600	30,962,816	30,044,034	62,675,632	207,188,082

Participant	Fixed Forward Contract	Day Ahead Contract	Net Resource	DLF Load / Total Resources	CAISO Imbalance
Arvin-Edison	-	-	64,460,485	117,771,840	53,311,355
Banta-Carbona	-	-	8,930,086	20,218,615	11,288,528
Cawelo	-	-	14,503,648	9,975,987	(4,527,662)
Glenn-Colusa	-	-	6,389,948	2,901,236	(3,488,713)
James	-	-	2,388,630	5,020,842	2,632,212
Lower Tule	-	-	496,447	6,775,462	6,279,015
Princeton	-	-	2,240,895	94,481	(2,146,414)
RD108	-	-	2,242,589	1,779,121	(463,468)
Santa Clara	-	-	9,250,709	21,314,566	12,063,856
Sonoma	-	-	14,962,344	34,678,888	19,716,544
West Stan	-	-	8,818,235	20,291,277	11,473,042
Westlands	-	-	67,462,321	222,688,266	155,225,945
BB/Westside	-	-	2,680,726	2,634,241	(46,485)
Zone 7	-	-	2,361,017	8,633,638	6,272,621
PWRPA	-	-	207,188,082	474,778,459	267,590,377

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APPENDIX H

RESOURCE ENERGY & COST VALUATION

This appendix is an analysis of the generation resources which PWRPA is party to; energy, cost, and value information

The first series of columns per table presents the energy from the 2022 Budget, a calculated maximum theoretical generation, actual generation with capacity factors, and Resource Adequacy value.

The second series of columns shows the revenue from the ISO and various avoided costs. A total valuation is calculated from these values.

The thrird group of tables represents costs (and some revenues) for the contract administration of the resources.

The final column is a calculation of net value - which is the costs offset by the total value from the listed attributes.

Generation Resources - Energy and Cost Valuation - 2022 PWRPA																	Added Value Rate Basis: RPS = \$/REC, RA = \$/kW-month, Carbon = \$/MWh									
WAPA Base Resource						Attributes: \$ 10 \$ 5 \$ 5.70						Contract Administration (\$)				Net										
Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	ISO Energy Revenue (\$/MWh)	RPS (PCC0) Avoided Cost (\$/MWh)	RA Avoided Cost (\$/kw-mo)	Ancillary Service Value (\$/MWh)	Carbon Transfer (\$/MWh)	Total Value (\$)	Contract Cost (\$)	Overhead Cost (\$)	Displacement Credit (\$)	Total Costs	Net Cost / (Revenue) (\$)	Net Valuation (\$ / MWh)									
January	0		339		8.0	\$ (27,739)	\$ (4,620)	\$ (40,000)		\$ (1,303)	\$ (73,663)	\$ 33,547	\$ 3,228	\$ -	\$ 36,774	\$ (36,888)	\$ (108.81)									
February	-		2,447		9.0	\$ (164,029)	\$ (2,280)	\$ (45,000)		\$ (9,408)	\$ (220,718)	\$ 242,149	\$ 3,840	\$ -	\$ 245,989	\$ 25,271	\$ 10.33									
March	52		4,214		13.0	\$ (307,384)	\$ (1,970)	\$ (65,000)		\$ (16,202)	\$ (390,556)	\$ 417,007	\$ 3,966	\$ -	\$ 420,973	\$ 30,418	\$ 7.22									
April	14,899		5,263		25.0	\$ (502,394)	\$ (2,590)	\$ (125,000)		\$ (20,235)	\$ (650,219)	\$ 520,814	\$ 3,085	\$ (18,525)	\$ 505,373	\$ (144,846)	\$ (27.52)									
May	25,565		8,086		38.0	\$ (804,999)	\$ (3,750)	\$ (190,000)		\$ (31,089)	\$ (1,029,838)	\$ 800,171	\$ 5,398	\$ (38,080)	\$ 767,488	\$ (262,350)	\$ (32.45)									
June	25,254		8,129		51.0	\$ (871,870)	\$ (4,850)	\$ (255,000)		\$ (31,255)	\$ (1,162,975)	\$ 804,426	\$ 4,101	\$ (50,893)	\$ 757,633	\$ (405,341)	\$ (49.86)									
July	24,007		10,275		54.0	\$ (966,579)	\$ (8,360)	\$ (270,000)		\$ (39,506)	\$ (1,284,444)	\$ 1,016,789	\$ 3,812	\$ (69,671)	\$ 950,929	\$ (333,515)	\$ (32.46)									
August	18,312		7,184		45.0	\$ (952,761)	\$ (6,530)	\$ (225,000)		\$ (27,621)	\$ (1,211,912)	\$ 710,911	\$ 5,217	\$ (52,448)	\$ 663,679	\$ (548,233)	\$ (76.31)									
September	10,636		3,044		29.0	\$ (948,023)	\$ (3,990)	\$ (145,000)		\$ (11,704)	\$ (1,108,717)	\$ 301,227	\$ 5,139	\$ (1,740)	\$ 304,626	\$ (804,091)	\$ (264.16)									
October	7,276		4,103		20.0	\$ (358,587)	\$ (2,850)	\$ (100,000)		\$ (15,775)	\$ (477,213)	\$ 406,023	\$ 6,422	\$ (358)	\$ 412,087	\$ (65,126)	\$ (15.87)									
November	5,194		1,605		11.0	\$ (177,905)	\$ (2,380)	\$ (55,000)		\$ (6,171)	\$ (241,456)	\$ 158,827	\$ 7,551	\$ -	\$ 166,378	\$ (75,078)	\$ (46.78)									
December	7,047		1,397		7.0	\$ (406,722)	\$ (2,900)	\$ (35,000)		\$ (5,371)	\$ (449,993)	\$ 138,244	\$ 3,118	\$ -	\$ 141,362	\$ (308,631)	\$ (220.92)									
Annual	138,242		56,086		310.0	\$ (6,488,993)	\$ (47,070)	\$ (1,550,000)	\$ -	\$ (215,641)	\$ (8,301,704)	\$ 5,550,133	\$ 54,876	\$ (231,716)	\$ 5,373,293	\$ (2,928,412)	\$ (52.21)									
Rate/Value (\$/MWh):			56086			\$ (115.70)	\$ (0.84)	\$ (27.64)	\$ -	\$ (3.84)	\$ (148.02)	\$ 98.96	\$ 0.98	\$ (4.13)	\$ 95.80											
WWD BOR Payback						Attributes: \$ 10 \$ 5 \$ 5.70						Contract Administration (\$)				Net										
Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	ISO Energy Revenue (\$)	RPS Avoided Cost (\$/MWh)	RA Avoided Cost (\$/kw-mo)	Ancillary Service Value (\$)	Carbon Value (\$)	Total Value (\$)	Contract Cost (\$)	Overhead Cost (\$)	Other Cost (\$)	Total Costs	Net Cost / (Revenue) (\$)	Net Valuation (\$ / MWh)									
January	62		93		-	\$ (3,052)					\$ (3,052)	\$ -	\$ 1,500		\$ 1,500	\$ (1,553)	\$ (16.69)									
February	168		224		-	\$ (10,075)					\$ (10,075)	\$ -	\$ 1,503		\$ 1,503	\$ (8,572)	\$ (38.27)									
March	186		218		-	\$ (7,537)					\$ (7,537)	\$ -	\$ 1,503		\$ 1,503	\$ (6,035)	\$ (27.68)									
April	300		390		-	\$ (26,102)					\$ (26,102)	\$ -	\$ 1,503		\$ 1,503	\$ (24,599)	\$ (63.08)									
May	558		682		-	\$ (44,769)					\$ (44,769)	\$ -	\$ 1,503		\$ 1,503	\$ (43,266)	\$ (63.44)									
June	660		870		-	\$ (57,186)					\$ (57,186)	\$ -	\$ 1,503		\$ 1,503	\$ (55,683)	\$ (64.00)									
July	744		992		-	\$ (74,878)					\$ (74,878)	\$ -	\$ 1,503		\$ 1,503	\$ (73,375)	\$ (73.97)									
August	558		682		-	\$ (66,996)					\$ (66,996)	\$ -	\$ 1,505		\$ 1,505	\$ (65,491)	\$ (96.03)									
September	300		390		-	\$ (57,224)					\$ (57,224)	\$ -	\$ 1,510		\$ 1,510	\$ (55,715)	\$ (142.86)									
October	186		248		-	\$ (17,867)					\$ (17,867)	\$ -	\$ 1,510		\$ 1,510	\$ (16,357)	\$ (65.96)									
November	120		150		-	\$ (11,744)					\$ (11,744)	\$ -	\$ 1,510		\$ 1,510	\$ (10,234)	\$ (68.23)									
December	62		62		-	\$ (13,067)					\$ (13,067)	\$ -	\$ 1,510		\$ 1,510	\$ (11,557)	\$ (186.41)									
Annual	3,904		5,001		-	\$ (390,497)	\$ -	\$ -	\$ -	\$ -	\$ (390,497)	\$ -	\$ 18,060	\$ -	\$ 18,060	\$ (372,437)	\$ (74.47)									
Rate/Value (\$/MWh):						\$ (78.08)	\$ -	\$ -	\$ -	\$ -	\$ (78.08)	\$ -	\$ 3.61	\$ -	\$ 3.61											
Warm Springs Hydro						Attributes: \$ 19.00 \$ 8.00 \$ -						Contract Administration (\$)				Net										
Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	ISO Energy Revenue (\$)	RPS Avoided Cost (\$/MWh)	RA Avoided Cost (\$/kw-mo)	Ancillary Service Value (\$)	Carbon Value (\$)	Total Value (\$)	Contract Cost (\$)	Overhead Cost (\$)	Other Cost (\$)	Total Costs	Net Cost / (Revenue) (\$)	Net Valuation (\$ / MWh)									
January	-	1,339	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 1,008		\$ 1,008	\$ 1,008	\$ -									
February	-	1,253	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 985		\$ 985	\$ 985	\$ -									
March	-	1,337	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 985		\$ 985	\$ 985	\$ -									
April	-	1,296	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 985		\$ 985	\$ 985	\$ -									
May	-	1,339	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 985		\$ 985	\$ 985	\$ -									
June	-	1,296	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 985		\$ 985	\$ 985	\$ -									
July	-	1,339	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 985		\$ 985	\$ 985	\$ -									
August	-	1,339	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 987		\$ 987	\$ 987	\$ -									
September	-	1,296	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 989		\$ 989	\$ 989	\$ -									
October	-	1,339	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 1,061		\$ 1,061	\$ 1,061	\$ -									
November	-	1,298	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 1,039		\$ 1,039	\$ 1,039	\$ -									
December	-	1,339	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 989		\$ 989	\$ 989	\$ -									
Annual	-	15,811	-	0%	-	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 11,981	\$ -	\$ 11,981	\$ 11,981	\$ -									
Rate/Value (\$/MWh):						\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ 11.981	\$ -	\$ 11.981											
Astoria Solar (PWRPA subscription 10.00 MW)						Attributes: \$ 19.00 \$ 5.00						Contract Administration (\$)				Net										
Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	ISO Energy Revenue (\$)	RPS Avoided Cost (\$/MWh)	RA Avoided Cost (\$/kw-mo)	Ancillary Service Value (\$)	Carbon Value (\$)	Total Value (\$)	Contract Cost (\$)	Overhead Cost (\$)	Other Cost (\$)	Total Costs	Net Cost / (Revenue) (\$)	Net Valuation (\$ / MWh)									
January	1,661	7,440	1,650	22%	0.4	\$ (48,707)	\$ (31,351)	\$ (2,000)			\$ (82,058)	\$ 103,955	\$ 1,124		\$ 105,079	\$ 23,021	\$ 13.95									
February	1,742	6,960	2,125	31%	0.3	\$ (34,124)	\$ (40,373)	\$ (1,500)			\$ (75,997)	\$ 134,016	\$ 1,226		\$ 135,242	\$ 59,245	\$ 27.88									
March	2,623	7,430	2,681	36%	1.8	\$ (45,938)	\$ (50,944)	\$ (9,000)			\$ (105,882)	\$ 169,039	\$ 1,099		\$ 170,138	\$ 64,256	\$ 23.97									
April	2,817	7,200	3,067	43%	1.5	\$ (90,048)	\$ (58,269)	\$ (7,500)			\$ (155,817)	\$ 193,291	\$ 2,344		\$ 195,635	\$ 39,818	\$ 12.98									
May	3,239	7,440	3,446	46%	1.6	\$ (110,880)	\$ (65,477)	\$ (8,000)			\$ (184,357)	\$ 217,110	\$ 1,359		\$ 218,469	\$ 34,112	\$ 9.90									
June	3,412	7,200	3,420	48%	3.1	\$ (178,155)	\$ (64,984)	\$ (15,500)			\$ (258,638)	\$ 215,472	\$ 1,809		\$ 217,281	\$ (41,357)	\$ (12.09)									
July	3,361	7,440	3,426	46%	3.9	\$ (216,648)	\$ (65,0																			

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APPENDIX I

DISPLACEMENT DETAIL

The Central Valley Project Displacement Program ran April through October 2022.

Table 1 shows the energy revenue from the CAISO for both the volume imported and displaced.

Displacement saved PWRPA \$286,285 in avoided charges in 2022, detailed in Table 2.

PWRPA received \$231,716 in settlements credits from displacement in 2022, detailed in Table 3.

Base Resource Import and Displacement Credits

Table 1. 2021 Monthly Base Resource Credits

Month	Imported BR (MWh)	Displaced BR (MWh)	Displaced BR (%)	Import Credit @ CaptJack	Displacement Credit @ TH NP15	Net Revenue
Jan	339	-	0%	\$ 27,739	\$ -	\$ 27,739.18
Feb	2,447	-	0%	\$ 164,029	\$ -	\$ 164,029.41
Mar	4,214	-	0%	\$ 307,384	\$ -	\$ 307,383.79
Apr	3,886	1,377	26%	\$ 356,764	\$ 145,629	\$ 502,393.75
May	4,325	3,761	47%	\$ 400,801	\$ 404,199	\$ 804,999.15
Jun	2,858	5,271	65%	\$ 247,524	\$ 624,346	\$ 871,869.97
Jul	4,524	5,751	56%	\$ 334,295	\$ 632,284	\$ 966,578.60
Aug	4,411	2,773	39%	\$ 615,324	\$ 337,437	\$ 952,761.20
Sep	2,982	62	2%	\$ 934,371	\$ 13,653	\$ 948,023.24
Oct	4,068	35	1%	\$ 355,686	\$ 2,901	\$ 358,587.50
Nov	1,605	-	0%	\$ 177,905	\$ -	\$ 177,904.92
Dec	1,397	-	0%	\$ 406,722	\$ -	\$ 406,722.18
Annual	37,056	19,030	34%	\$ 4,328,544	\$ 2,160,449	\$ 6,488,992.87

Table 2. 2021 Monthly Displacement Savings

Month	Shared Energy Savings	Fixed Avoided Cost Savings	Variable Avoided Charges	IST Charges	Admin Charges	Net Savings
January	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
February	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
March	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
April	\$ 182	\$ 11,577	\$ 5,059	\$ (588)	\$ (551)	\$ 15,679
May	\$ 15,609	\$ 31,722	\$ 16,188	\$ (1,100)	\$ (1,504)	\$ 60,915
June	\$ 28,555	\$ 44,458	\$ 30,623	\$ (709)	\$ (2,108)	\$ 100,818
July	\$ 5,374	\$ 48,506	\$ 12,493	\$ (1,056)	\$ (2,300)	\$ 63,016
August	\$ 13,562	\$ 23,554	\$ 8,654	\$ (542)	\$ (1,109)	\$ 44,119
September	\$ 333	\$ 527	\$ 637	\$ (51)	\$ (25)	\$ 1,422
October	\$ 15	\$ 298	\$ 33	\$ (16)	\$ (14)	\$ 316
November	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
December	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Annual	\$ 63,630	\$ 160,641	\$ 73,687	\$ (4,061)	\$ (7,612)	\$ 286,285

Table 3. 2021 Monthly Displacement Settlements

Month	Settlement According to Statements	Adjustments	Net Settlement Credits
January	\$ -	\$ -	\$ -
February	\$ -	\$ -	\$ -
March	\$ -	\$ -	\$ -
April	\$ 18,525	\$ -	\$ 18,525
May	\$ 38,080	\$ -	\$ 38,080
June	\$ 50,893	\$ -	\$ 50,893
July	\$ 69,671	\$ -	\$ 69,671
August	\$ 52,448	\$ -	\$ 52,448
September	\$ 1,740	\$ -	\$ 1,740
October	\$ 358	\$ -	\$ 358
November	\$ -	\$ -	\$ -
December	\$ -	\$ -	\$ -
Annual	\$ 231,716	\$ -	\$ 231,716

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APPENDIX J

DSGS LOAD CURTAILMENT

Power and Water Resources Pooling Authority
June 7, 2023 Regular Board Meeting
Item 6.D DSGS Summary for ASA Exhibit E Amendment

Actions Requested

Consider amending Aggregation Services Agreement (ASA) Exhibit E Ver. 10 to add language to the Load Cost section I to account for Demand Response activity.

Issue Description

PWRPA enters forecasted load into the day-ahead (DA) market as required by the WAPA contract. Imbalance energy (difference from actual energy and load forecast) is settled in the real-time (RT) market. ASA Exhibit E Section I for Load cost allocates all costs (DA and RT) pro rata on actual energy.

Demand Response activity is a specific act to serve a determined amount in DA and change (usually reduce) that amount in RT. Therefore, we should change our algorithms accordingly when there is participation in an official Demand Response program event. DA energy costs to be allocated on forecasted energy, and RT energy costs on imbalance energy.

This cost allocation will be used only during the event hours.

Discussion

PWRPA allocates all load costs (DA energy, RT energy, congestion, and losses) on an hourly basis based on hourly energy since its inception. In other words, we do not differentiate cost allocation based on performance of the load forecast. We did this because when PWRPA started up, all meters were energy meters (not interval) and we created software to shape total monthly energy into hourly (as required by the CAISO). Also, most Districts schedule in water volumes and we use the software to convert that number to power, which is not an exact science.

Staff revisited this in 2019 when PWRPA went through a major cost allocation review (aiming to handle Base Resource and overhead costs differently). Staff ultimately did not recommend a change in how we allocate load costs as there was not a compelling reason to make the change. While we do have interval meters now, we did not want to penalize any District on the performance of their load forecast and also because we schedule as PWRPA, and may choose to change the load forecast due to economics in the DA versus RT.

Because Demand Response is a specific act to change load in real-time, staff is recommending to use forecasted energy versus actual energy in these event hours only. Districts elect to be in the Demand Response program, elect what hours to participate, and elect their participation level. Therefore, they are taking an active role to set their load forecast in PWRPA's software system during these event times. PWRPA staff is making all efforts for all Districts to have reliable load forecasts for this reason during event times. This is in alignment with PWRPA's program application for the State Demand Response Program.

Author: Cori Bradley

Review: Bruce McLaughlin

Power and Water Resources Pooling Authority
June 7, 2023 Regular Board Meeting
Item 6.D DSGS Summary for ASA Exhibit E Amendment

Attachment A to this memo summarizes the difference in the load cost allocations from the normal way, versus the proposed change for Demand Response hours.

Recommendation

Amend the Aggregation Services Agreement as shown in the three resolving paragraphs below:

1. Approves the amendment to ASA Exhibit E, Section VI Cost Allocation Algorithms, Subsection I Load Costs, as shown here in italics:
 1. Cost Allocation: Participant hourly Energy.
 2. Costs include all day-ahead and real-time energy, congestion, and loss charges.
 3. *Demand Response programs will use a combination of Participant hourly energy and Participant load forecast for Cost Allocation.*
2. Authorizes this Resolution to have an Effective Date of January 1, 2023, thereby, being applicable to the demand response cost allocations in the 2022 Annual Reconciliation.
3. Directs the General Counsel to prepare a conformed blackline full copy of Exhibit E signified as Version 10 and attach it to the official version of this Resolution.

Author: Cori Bradley

Review: Bruce McLaughlin

Attachment A:

California Energy Commission's Demand Side Grid Support

SUMMARY

PWRPA participated in the 2022 Demand Side Grid Support (DSGS) Program administered by the California Energy Commission (CEC) which provided financial incentives to reduce customer load during extreme events. The program was open from August – October 31, but only had curtailment events from August 31, September 9, 2022. Participants were AEWS, SCV, WWD, and Z7 and combined they curtailed 296 MWhs and received a payment of \$665,767 (\$2,250 per MWh) from the California Energy Commission (CEC).

In addition to the CEC incentive payment, Districts receive the associated cost or savings based on the day-ahead (DA) and real-time (RT) prices in the CAISO. PWRPA schedules forecasted load on the DA market and the imbalance (difference in the DA forecast and the actual meter) is priced in RT.

Table 4: Net Savings:	AEWS	SCVWD	WWD	Z7	PWRPA
Participant Cost/(\$)	\$ 38,138	\$ 3,031	\$ (22,159)	\$ 20,155	\$ 39,164
DSGS Program Cred	\$ (347,995)	\$ (20,035)	\$ (217,901)	\$ (79,834)	\$ (665,766)
Net Savings	\$ (309,858)	\$ (17,004)	\$ (240,060)	\$ (59,679)	\$ (626,601)
Curtailed MWh	155.1	8.9	96.8	35.1	295.9

DETAIL

1. DSGS Program Credit:

The DSGS program credit is straightforward. They were providing a \$2,250 per MWh of curtailment. Curtailment events for load shedding were triggered by an CAISO alert of EEA Watch or higher alert (like EEA 1 – 3). Participation could be for any hours of the event and for any volume of curtailment. PWRPA's baseline for measuring the curtailment was the DA load forecast submitted into its EAS software system.

2. Load Cost

Per Aggregation Services Agreement Exhibit E, Section I, load costs per hour are allocated by bundling all the DA and RT load costs, and allocating that total to the districts based on their actual metered load. In other words, the forecasted load is not used. The intent of this is to avoid penalizing individual districts for the software forecast, and for any scheduling deviations due to Scheduling Agent activity.

However, for the duration of the DSGS program hours, it is important to make sure we are allocating the DA and RT load costs to the districts to account for the intended difference between DA forecast and RT actual load due to curtailments. PWRPA staff kept a close watch on the forecasts in those days for all districts to keep these calculations fair to PWRPA's districts.

This adjustment shifts costs for all districts during the program hours due to the split of DA and RT cost calculations, i.e., the cost for the hour in total for PWRPA must remain unchanged. The series of tables below show the calculated costs to the district before and after making those adjustments for the specific hours in which the DSGS program was active for any PWRPA participants. The highlighted entries indicate the participation in the given DSGS interval.

Table 2 shows the aggregated DA and RT costs allocated on metered load before changes were made to account for the DSGS program hours.

Date	Hours	AEWSD	BCID	CWD	GCID	JID	LTRID	PPCID	RD108	SCVWD	SCWA	WSID	WWD	TWID	Z7	PWRPA
8/31/2022	17-20	\$ 68,605	\$ 6,217	\$ 6,818	\$ 1,147	\$ 2,242	\$ 4,314	\$ 43	\$ 1,136	\$ 12,014	\$ 13,791	\$ 6,828	\$ 130,850	\$ 1,236	\$ 4,286	\$ 259,527
9/3/2022	18-20	\$ 59,009	\$ 7,011	\$ 7,229	\$ 1,633	\$ 2,163	\$ 3,100	\$ 42	\$ 895	\$ 9,643	\$ 14,701	\$ 5,230	\$ 110,408	\$ 1,673	\$ 2,611	\$ 225,347
9/4/2022	17-20	\$ 49,740	\$ 5,493	\$ 6,154	\$ 1,121	\$ 2,197	\$ 805	\$ 45	\$ 769	\$ 10,198	\$ 12,832	\$ 6,195	\$ 106,226	\$ 1,659	\$ 1,971	\$ 205,407
9/5/2022	17-22	\$ 86,047	\$ 7,515	\$ 9,234	\$ 2,152	\$ 3,003	\$ 4,646	\$ 51	\$ 1,353	\$ 13,061	\$ 14,258	\$ 9,363	\$ 154,717	\$ 2,832	\$ 3,433	\$ 311,665
9/6/2022	16-21	\$ 118,292	\$ 9,603	\$ 12,976	\$ 3,583	\$ 4,230	\$ 10,164	\$ 96	\$ 1,892	\$ 17,790	\$ 21,508	\$ 15,778	\$ 217,277	\$ 3,224	\$ 5,221	\$ 441,632
9/7/2022	16-21	\$ 124,974	\$ 19,519	\$ 12,943	\$ 3,936	\$ 1,965	\$ 9,663	\$ 104	\$ 2,028	\$ 26,540	\$ 27,505	\$ 17,879	\$ 253,325	\$ 3,572	\$ 5,854	\$ 509,808
9/8/2022	15-21	\$ 111,120	\$ 22,864	\$ 13,457	\$ 3,801	\$ 1,569	\$ 9,364	\$ 101	\$ 1,716	\$ 22,052	\$ 26,343	\$ 15,518	\$ 251,533	\$ 2,832	\$ 6,267	\$ 488,537
9/9/2022	16-20	\$ 58,348	\$ 11,773	\$ 6,872	\$ 2,238	\$ 2,010	\$ 4,610	\$ 49	\$ 1,060	\$ 12,875	\$ 12,653	\$ 7,002	\$ 123,338	\$ 1,150	\$ 3,798	\$ 247,776
Total		\$ 676,134	\$ 89,996	\$ 75,684	\$ 19,612	\$ 19,381	\$ 46,667	\$ 531	\$ 10,849	\$ 124,172	\$ 143,590	\$ 83,792	\$ 1,347,673	\$ 18,178	\$ 33,439	\$ 2,689,698

Table 3 shows the adjusted load cost due to the calculation changes **only** in the hours in which the DSGS program ran.

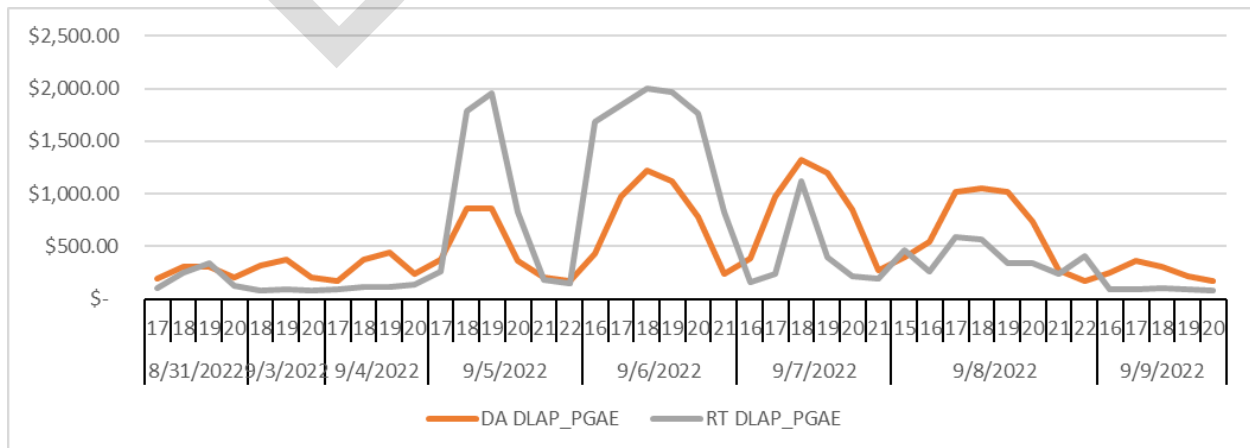
Date	Hours	AEWSD	BCID	CWD	GCID	JID	LTRID	PPCID	RD108	SCVWD	SCWA	WSID	WWD	TWID	Z7	PWRPA
8/31/2022	17-20	\$ 70,036	\$ 5,425	\$ 6,891	\$ 747	\$ 1,590	\$ 4,451	\$ 44	\$ 1,916	\$ 13,431	\$ 14,058	\$ 6,716	\$ 131,328	\$ 802	\$ 2,090	\$ 259,527
9/3/2022	18-20	\$ 52,877	\$ 6,252	\$ 6,309	\$ 1,207	\$ 2,210	\$ 4,550	\$ 40	\$ 156	\$ 10,763	\$ 13,567	\$ 6,215	\$ 113,667	\$ 803	\$ 6,732	\$ 225,347
9/4/2022	17-20	\$ 47,180	\$ 5,845	\$ 6,227	\$ 1,252	\$ 1,807	\$ 1,223	\$ 44	\$ 623	\$ 9,317	\$ 13,754	\$ 6,580	\$ 107,843	\$ 1,539	\$ 2,172	\$ 205,407
9/5/2022	17-22	\$ 86,822	\$ 8,015	\$ 8,299	\$ 1,700	\$ 2,866	\$ 3,370	\$ 53	\$ 777	\$ 15,283	\$ 15,547	\$ 9,388	\$ 151,554	\$ 2,122	\$ 5,869	\$ 311,665
9/6/2022	16-21	\$ 117,563	\$ 9,232	\$ 13,348	\$ 3,945	\$ 4,350	\$ 10,491	\$ 102	\$ 2,378	\$ 16,495	\$ 19,816	\$ 16,812	\$ 219,501	\$ 3,508	\$ 4,093	\$ 441,632
9/7/2022	16-21	\$ 157,694	\$ 3,080	\$ 15,988	\$ 1,457	\$ 8,777	\$ 6,675	\$ 69	\$ (969)	\$ 20,024	\$ 33,979	\$ 8,594	\$ 231,768	\$ 2,398	\$ 20,273	\$ 509,808
9/8/2022	15-21	\$ 111,595	\$ 22,636	\$ 14,358	\$ 3,827	\$ 1,609	\$ 9,972	\$ 101	\$ 1,937	\$ 22,860	\$ 24,709	\$ 14,958	\$ 251,575	\$ 2,917	\$ 5,482	\$ 488,537
9/9/2022	16-20	\$ 61,812	\$ 10,295	\$ 6,937	\$ 2,013	\$ 1,960	\$ 4,793	\$ 47	\$ 854	\$ 12,701	\$ 13,336	\$ 6,703	\$ 120,469	\$ 1,169	\$ 4,688	\$ 247,776
Total		\$ 705,580	\$ 70,781	\$ 78,358	\$ 16,147	\$ 25,169	\$ 45,525	\$ 501	\$ 7,672	\$ 120,875	\$ 148,765	\$ 75,965	\$ 1,327,705	\$ 15,258	\$ 51,399	\$ 2,689,698

Table 4 shows the difference between the tables above, with cost increases as positive numbers and decreases as negative numbers.

Date	Hours	AEWSD	BCID	CWD	GCID	JID	LTRID	PPCID	RD108	SCVWD	SCWA	WSID	WWD	TWID	Z7	PWRPA
8/31/2022	17-20	\$ 1,432	\$ (792)	\$ 73	\$ (399)	\$ (652)	\$ 137	\$ 1	\$ 780	\$ 1,417	\$ 267	\$ (111)	\$ 479	\$ (434)	\$ (2,196)	\$ -
9/3/2022	18-20	\$ (6,132)	\$ (759)	\$ (920)	\$ (426)	\$ 47	\$ 1,450	\$ (2)	\$ (739)	\$ 1,120	\$ (1,133)	\$ 985	\$ 3,259	\$ (870)	\$ 4,121	\$ -
9/4/2022	17-20	\$ (2,560)	\$ 352	\$ 73	\$ 130	\$ (389)	\$ 417	\$ (1)	\$ (146)	\$ (881)	\$ 922	\$ 385	\$ 1,616	\$ (120)	\$ 201	\$ -
9/5/2022	17-22	\$ 775	\$ 500	\$ (935)	\$ (453)	\$ (137)	\$ (1,276)	\$ 2	\$ (576)	\$ 2,223	\$ 1,289	\$ 25	\$ (3,163)	\$ (710)	\$ 2,436	\$ -
9/6/2022	16-21	\$ (729)	\$ (371)	\$ 372	\$ 362	\$ 120	\$ 327	\$ 6	\$ 486	\$ (1,295)	\$ (1,692)	\$ 1,034	\$ 2,224	\$ 284	\$ (1,128)	\$ -
9/7/2022	16-21	\$ 32,719	\$ (16,438)	\$ 3,045	\$ (2,479)	\$ 6,811	\$ (2,988)	\$ (35)	\$ (2,997)	\$ (6,516)	\$ 6,474	\$ (9,285)	\$ (21,557)	\$ (1,174)	\$ 14,420	\$ -
9/8/2022	15-21	\$ 475	\$ (228)	\$ 901	\$ 25	\$ 40	\$ 608	\$ 1	\$ 222	\$ 808	\$ (1,635)	\$ (560)	\$ 43	\$ 85	\$ (785)	\$ -
9/9/2022	16-20	\$ 3,464	\$ (1,479)	\$ 65	\$ (225)	\$ (50)	\$ 183	\$ (1)	\$ (207)	\$ (174)	\$ 683	\$ (300)	\$ (2,869)	\$ 18	\$ 891	\$ -
Total		\$ 29,446	\$ (19,215)	\$ 2,674	\$ (3,464)	\$ 5,788	\$ (1,142)	\$ (30)	\$ (3,178)	\$ (3,298)	\$ 5,175	\$ (7,827)	\$ (19,968)	\$ (2,921)	\$ 17,960	\$ -

The general concept of the program is that the grid is calling on curtailment for supply shortages. When the grid is in stress, prices should be higher in the RT versus the DA. Some hours yielded increased costs to DSGS participants, most notably on September 7 and 8. In this instance, DA Schedule for full/non-curtailed load was priced higher than the RT Imbalance, causing a deficit between DA and RT costs.

The graph below shows the LMPs during the specific DSGS program hours on the given days. In instance where the gray line (RT) is lower than the orange (DA), we expect to see an increase to load costs page on these adjusted calculations.



ATTACHMENT B
2022 ANNUAL RECONCILIATION STATEMENT

DRAFT

DRAFT
POWER AND WATER RESOURCES POOLING AUTHORITY
2022 ANNUAL RECONCILIATION STATEMENT
Power - P-3

2022 POWER RECONCILIATION

Participant	Beginning Reserves		2022 Expenses			2022 Payments			2022 over (under) Balance	Deposit/(Refunds) Funds on Deposit	Ending 2022	Ending 2022 Reserves			2022 Over / (Under) Funded
	2021 Ending Reserve	2021 Ending Funds on Deposit	Power	Participant Adjustments	Total Expenses	Amount Paid	Allocated Interest	Total Payments				Reserves	Funds on Deposit	Total	
Arvin	\$ 3,019,191.89	\$ -	\$ 18,190,928.35	\$ (110,920.00)	\$ 18,080,008.35	\$ 18,889,410.38	\$ 42,930.18	\$ 18,932,340.56	\$ 852,332.21	\$ -	\$ 3,871,524.10	\$ 2,801,470.00	\$ -	\$ 2,801,470.00	\$ 1,070,054.10
Banta Carbona	481,384.52	22,476.04	2,427,164.33	(46,000.00)	2,381,164.33	2,295,706.45	10,544.48	2,306,250.93	(74,913.40)	-	428,947.16	476,650.00	22,476.04	499,126.04	(70,178.88)
Cawelo	420,707.00	851,845.46	1,548,253.43	(69,575.00)	1,478,678.43	1,751,906.42	20,990.19	1,772,896.61	294,218.18	-	1,566,770.64	308,350.00	851,845.46	1,160,195.46	406,575.18
Glenn-Colusa	313,240.95	118,183.47	592,653.48	(8,625.00)	584,028.48	682,489.13	3,398.15	685,887.28	101,858.80	-	533,283.22	244,570.00	118,183.47	362,753.47	170,529.75
James	84,784.34	43,291.60	762,762.32	(2,875.00)	759,887.32	807,372.98	2,785.48	810,158.46	50,271.14	-	178,347.08	94,760.00	43,291.60	138,051.60	40,295.48
Lower Tule	277,897.38	-	1,286,343.02	-	1,286,343.02	1,239,274.98	4,359.59	1,243,634.57	(42,708.45)	-	235,188.93	221,520.00	-	221,520.00	13,668.93
Princeton	94,245.77	-	143,848.39	(2,875.00)	140,973.39	193,666.44	1,638.45	195,304.89	54,331.50	-	148,577.27	65,660.00	-	65,660.00	82,917.27
Santa Clara	613,606.35	593,803.04	3,468,497.16	61,608.36	3,530,105.52	3,354,212.93	15,107.92	3,369,320.85	(160,784.67)	(22,859.75)	1,023,764.97	546,560.00	570,943.29	1,117,503.29	(93,738.32)
Sonoma	1,000,741.90	753,745.63	5,280,978.57	(10,939.40)	5,270,039.17	5,104,749.49	27,854.94	5,132,604.43	(137,434.74)	-	1,617,052.79	908,260.00	753,745.63	1,662,005.63	(44,952.84)
West Stan	434,425.17	282,746.34	2,306,266.44	(34,500.00)	2,271,766.44	2,420,895.19	11,559.78	2,432,454.97	160,688.53	-	877,860.04	440,020.00	282,746.34	722,766.34	155,093.70
Westlands	2,891,044.16	573,595.81	38,619,951.63	(82,404.17)	38,537,547.46	38,852,361.07	77,601.50	38,929,962.57	392,415.11	-	3,857,055.08	3,551,710.00	573,595.81	4,125,305.81	(268,250.73)
Byron Bethany	73,457.23	57,887.44	447,576.95	(5,175.00)	442,401.95	517,255.82	1,458.25	518,714.07	76,312.12	-	207,656.79	67,450.00	57,887.44	125,337.44	82,319.35
RD 108	128,265.19	5,996.71	425,703.11	(4,430.17)	421,272.94	481,793.62	1,213.27	483,006.89	61,733.95	36,542.90	232,538.75	95,430.00	42,539.61	137,969.61	94,569.14
Zone 7	167,008.15	28,012.40	1,476,569.43	(5,312.26)	1,471,257.17	1,322,530.14	2,801.26	1,325,331.40	(145,925.77)	-	49,094.78	177,590.00	28,012.40	205,602.40	(156,507.62)
Total	\$ 10,000,000.00	\$ 3,331,583.94	\$ 76,977,496.61	\$ (322,022.64)	\$ 76,655,473.97	\$ 77,913,625.04	\$ 224,243.44	\$ 78,137,868.48	\$ 1,482,394.51	\$ 13,683.15	\$ 14,827,661.60	\$ 10,000,000.00	\$ 3,345,267.09	\$ 13,345,267.09	\$ 1,482,394.51

notes:

a = Participating Agencies

b = Per 2021 Reconciliation Statement Column "m"

c = Per 2021 Reconciliation Statement Column "n"

d = Per RBI 2022 RBI annual reconciliation

e = Prior year and Direct Consulting

f = (d+e)

g = Amount paid to PWRPA for 2022 including transfers of Cap & Trade Fund revenue for RPS

h = interest income for 2022

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

j = 2022 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 2023

n = Funds held on deposit (c+k)

o = 2022 reserve total (m+n)

p = 2022 available refund or payment required (l-o)

q = 2022 P-3 funding level (d x 2.85%)

r = Amount Paid for 2022 P-3 + interest earned

s = 2022 P-3 available refund or payment required (r-q)

2022 P-3 RECONCILIATION

Participant	2022			2022 Over / (Under) Funded
	Power Expense	P-3 Requirement	Amount Paid	
Arvin	\$18,190,928.35	\$ 518,441.46	\$ 544,160.61	\$ 25,719.15
Banta Carbona	2,427,164.33	69,174.18	65,646.95	(3,527.23)
Cawelo	1,548,253.43	44,125.22	50,268.64	6,143.42
Glenn-Colusa	592,653.48	16,890.62	17,121.27	230.65
James	762,762.32	21,738.73	23,108.87	1,370.14
Lower Tule	1,286,343.02	36,660.78	35,556.95	(1,103.83)
Princeton	143,848.39	4,099.68	5,576.50	1,476.82
Santa Clara	3,468,497.16	98,852.17	95,736.14	(3,116.03)
Sonoma	5,280,978.57	150,507.89	146,285.54	(4,222.35)
West Stan	2,306,266.44	65,728.59	69,328.33	3,599.74
Westlands	38,619,951.63	1,100,668.62	1,110,706.61	10,037.99
Byron Bethany	447,576.95	12,755.94	14,226.65	1,470.71
RD 108	425,703.11	12,132.54	12,877.80	745.26
Zone 7	1,476,569.43	42,082.23	37,786.99	(4,295.24)
Total	\$76,977,496.61	\$ 2,193,858.65	\$ 2,228,387.85	\$ 34,529.20

a

d

q

r

s

Power & Water Resources Pooling Authority

Regular Agenda • Item 5.C

1. Resolution 23-08-XX Rate Review and Adjustment.

Power and Water Resources Pooling Authority

August 2023 Board Meeting

Action Required

Consider rate change for some Districts to 2023 Pro Forma invoice rates. Rates are not included in this memo as a discussion on carbon pricing and renewable energy credit (REC) procurement strategy will impact the outcome.

Discussion

The Board adopted updated rates at the June meeting for some Districts. Table 1 below is the current pre-reconciliation results with the updated rates in place. These results also include estimates for carbon transfers and renewable energy credit (REC) purchases which total \$1.7 million. Staff will discuss with the Board those estimates, some errors in the June rate adjustment, and ultimately, which Districts would be interested in reducing any projected over-collection.

Table 1: Current Pre-Reconciliation Results

Table 1: Revenue and Expense: January - December 2023								
Participant	Revenue		Expenses			Balance	Summary	
	Power Invoice	Power & Ops Costs	P3	Direct Consulting	Prior Period	Over/(Under) Funded	Total Costs	Composite Rate (¢/ kWh)
Arvin-Edison	\$ 18,158,900	\$ 15,951,640	\$ 454,622	\$ -	\$ (7,450)	\$ 1,760,088	\$ 16,398,811	\$ 13.12
Banta-Carbona	\$ 2,157,198	\$ 1,901,606	\$ 54,196	\$ -	\$ 3,533	\$ 197,864	\$ 1,959,334	\$ 12.93
Cawelo	\$ 2,449,597	\$ 2,362,380	\$ 67,328	\$ -	\$ 10,234	\$ 9,655	\$ 2,439,942	\$ 14.56
Glenn-Colusa	\$ 1,619,511	\$ 1,359,373	\$ 38,742	\$ -	\$ 512	\$ 220,884	\$ 1,398,627	\$ 12.60
James	\$ 445,755	\$ 378,068	\$ 10,775	\$ -	\$ (638)	\$ 57,550	\$ 388,205	\$ 23.29
Lower Tule	\$ 1,710,659	\$ 1,413,977	\$ 40,298	\$ -	\$ (1,700)	\$ 258,083	\$ 1,452,576	\$ 15.15
Princeton	\$ 594,038	\$ 586,445	\$ 16,714	\$ -	\$ 379	\$ (9,500)	\$ 603,538	\$ 14.35
RD108	\$ 492,197	\$ 428,203	\$ 12,204	\$ 2,685	\$ 646	\$ 48,461	\$ 443,737	\$ 22.21
Santa Clara	\$ 3,684,733	\$ 3,693,715	\$ 105,271	\$ 1,273	\$ (938)	\$ (114,588)	\$ 3,799,321	\$ 18.11
Sonoma	\$ 4,931,541	\$ 4,783,740	\$ 136,337	\$ 54	\$ (6,273)	\$ 17,683	\$ 4,913,858	\$ 14.70
West Stan	\$ 1,775,883	\$ 1,488,261	\$ 42,415	\$ -	\$ 1,515	\$ 243,691	\$ 1,532,192	\$ 12.61
Westlands	\$ 11,573,020	\$ 10,424,872	\$ 297,109	\$ -	\$ (935,607)	\$ 1,786,647	\$ 9,786,374	\$ 26.87
Westside	\$ 427,988	\$ 401,824	\$ 11,452	\$ -	\$ 305	\$ 14,408	\$ 413,581	\$ 15.81
Zone 7	\$ 1,473,571	\$ 1,394,607	\$ 39,746	\$ -	\$ (951)	\$ 40,169	\$ 1,433,402	\$ 20.96
PWRPA	\$ 51,494,591	\$ 46,568,709	\$ 1,327,208	\$ 4,011	\$ (936,433)	\$ 4,531,095	\$ 46,963,496	\$ 15.76

1. Carbon Transfer

Each year PWRPA facilitates a carbon transfer where the carbon attribute of Base Resource is transferred to Districts that desire to have a carbon neutral energy content label. Input on Districts who want carbon neutral 2023 power as well as consensus of a transfer price will be discussed. Staff will provide some rate options for consideration.

2. Renewable Energy Credits (RECs)

2023 is the third year of a four-year Compliance Period (CP). In the budget, we anticipated that we would procure sixty percent of our needs. Since then, the prices have doubled (\$45/REC) and our hydro year has improved. Staff would like to discuss with Districts the option to do internal transfers for this compliance period in lieu of long Districts banking their excess for the next CP. The benefit being that PWRPA can avoid transacting for very

Power and Water Resources Pooling Authority

August 2023 Board Meeting

expensive RECs, long Districts can make some money for something they couldn't do outside of PWRPA, and short Districts get their net short at a better price than market. The prices in Table 2 below are for discussion. PCC1 (bundled energy) is the main negotiation item. PCC3's will need to be procured and \$7/REC is the going rate.

Table 2: Compliance Period 4: 2021-2024

Compliance Period 4	Net Short/(Long)		Procurement		Sale		Total
	PCC1/2	PCC3	\$ 30	\$ 7	\$ 30	\$ 7	
AEWSD	(11,440)	7,454	\$ -	\$ 52,178	\$ (343,201)	\$ -	\$ (291,023)
BCID	8,409	2,642	\$ 252,284	\$ 18,497	\$ -	\$ -	\$ 270,781
CWD/LTRID	(6,944)	(5,811)	\$ -	\$ -	\$ (208,312)	\$ (40,678)	\$ (248,990)
GCID	1,908	1,644	\$ 57,232	\$ 11,506	\$ -	\$ -	\$ 68,738
JID	158	459	\$ 4,725	\$ 3,213	\$ -	\$ -	\$ 7,938
PPCGID	271	533	\$ 8,132	\$ 3,729	\$ -	\$ -	\$ 11,860
RD 108	(551)	(1,107)	\$ -	\$ -	\$ (16,521)	\$ (7,752)	\$ (24,272)
SCVWD	4,729	3,436	\$ 141,878	\$ 24,052	\$ -	\$ -	\$ 165,929
SCWA	(31,336)	3,933	\$ -	\$ 27,529	\$ (940,091)	\$ -	\$ (912,562)
TWID	888	386	\$ 26,649	\$ 2,702	\$ -	\$ -	\$ 29,350
WSID	4,108	2,356	\$ 123,225	\$ 16,492	\$ -	\$ -	\$ 139,718
WWD	22,046	16,210	\$ 661,388	\$ 113,468	\$ -	\$ -	\$ 774,856
Z7	1,213	(1,681)	\$ 36,388	\$ -	\$ -	\$ (11,768)	\$ 24,620
PWRPA	(6,541)	30,452	\$ 1,311,900	\$ 273,365	\$ (1,508,125)	\$ (60,198)	\$ 16,942

To help inform the decision on CP4, staff has also constructed a table of estimates for the next CP, 2025-2028. Most of the CP4 long Districts are also long in CP5 without transferring their excess CP4 into CP5. Table 3 below assumes BCID, WSID, CWD, and WWD solar projects/REC agreements are online and no transfers from CP4.

Table 3: Compliance Period 5: 2025-2028

Compliance Period 5 Estimate	Net Short/(Long)		Procurement		Sale		Total
	PCC1/2	PCC3	\$ 20	\$ 3	\$ 20	\$ 3	
AEWSD	22,888	9,597	\$ 457,760	\$ 28,792	\$ -	\$ -	\$ 486,552
BCID	(16,176)	2,347	\$ -	\$ 7,040	\$ (323,524)	\$ -	\$ (316,484)
CWD/LTRID	(8,626)	(16,542)	\$ -	\$ -	\$ (172,514)	\$ (49,627)	\$ (222,141)
GCID	1,795	1,386	\$ 35,899	\$ 4,157	\$ -	\$ -	\$ 40,056
JID	519	429	\$ 10,371	\$ 1,287	\$ -	\$ -	\$ 11,658
PPCGID	105	413	\$ 2,101	\$ 1,240	\$ -	\$ -	\$ 3,341
RD 108	(1,228)	(872)	\$ -	\$ -	\$ (24,564)	\$ (2,617)	\$ (27,181)
SCVWD	3,623	2,944	\$ 72,458	\$ 8,833	\$ -	\$ -	\$ 81,292
SCWA	(2,542)	4,230	\$ -	\$ 12,689	\$ (50,834)	\$ -	\$ (38,146)
TWID	854	343	\$ 17,088	\$ 1,030	\$ -	\$ -	\$ 18,118
WSID	(17,852)	2,159	\$ -	\$ 6,477	\$ (357,033)	\$ -	\$ (350,556)
WWD	41,394	15,650	\$ 827,886	\$ 46,951	\$ -	\$ -	\$ 874,838
Z7	2,775	(833)	\$ 55,495	\$ -	\$ -	\$ (2,499)	\$ 52,996
PWRPA	27,530	21,251	\$ 1,479,059	\$ 118,496	\$ (928,468)	\$ (54,743)	\$ 614,343

Power & Water Resources Pooling Authority
Resolution 23-08-XX

RATE REVIEW AND REVISED PRO FORMA RATE SCHEDULE

WHEREAS, the Power and Water Resources Pooling Authority ("PWRPA") provides aggregated electric services to electric accounts designated by Project Participants that are signatories to the Aggregation Services Agreement ("ASA"); and

WHEREAS, ASA Section 8.1 requires PWRPA to recover costs through rates and charges applicable to Project Participants; and

WHEREAS, ASA Section 8.3 allows the Board, based on principles in Exhibit E to the ASA, to adjust rates as may be required to collect additional operating funds to address shortfalls or to return amounts of any over-collection that may occur due to various factors, including but not limited to seasonal adjustments; and

WHEREAS, Section III A of Exhibit E to the ASA permits Inter-Period adjustments of the pro forma power rates by the Board as may be reasonably required to address shortfalls or over-collections that may occur due to various factors affecting the reserve fund; and

WHEREAS, continuing to collect using the current Pro Forma rates will result in substantial over-collections.

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

1. *To be determined.*

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 2nd day of August 2023, by the following vote on roll call:

AYES	Arvin-Edison WSD, Banta Carbona ID, Byron Bethany ID, Cawelo Water District, Glenn-Colusa 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 (96.0% <i>Voting Shares</i>)
NOES	None
ABSENT	James ID (4.0% voting shares)

David Weisenberger
Chairman

Attest by: Bruce McLaughlin
Secretary

Power & Water Resources Pooling Authority

Regular Agenda • Item 6.B

1. Operations Manager's Report.

Power and Water Resources Pooling Authority

August 2023 Update

Operations Manager Report

Possible Action

n/a

Operations Staff Overview

1. August planned activity
 - a) Slate: data comms with MCG, invoice resolution, deemed energy protocol
 - b) LTRID Hydro implementation
 - c) DSGS participation?
 - d) 2024 Budget prep
 - e) WDT 2024 rate case
2. July recap
 - a) Slate coord: data flows, deemed energy discussions, PV/BESS internal cost allocation.
 - b) Various coordination w/ Solar developers on Districts request
 - c) 2022 Reconciliation

Operations Report:

1. Pre-Reconciliation
 - a) Actual data for January – partial July, July - December estimates.
 - b) BR estimates as of July 1 WAPA forecast makes the rate \$30/MWh (down from \$54 in the Dry budget).
 - c) July power prices average \$60 per MWh so far. We have lowered, but still have conservatively prices for August – September in the estimates.
 - d) June 1 changes in invoicing rates are included.

Table 1: 2023 Pre-Reconciliation

Table 2: Revenue and Expense: January - December 2023								
Participant	Revenue	Expenses				Balance	Summary	
	Power Invoice	Power & Ops Costs	P3	Direct Consulting	Prior Period	Over/(Under) Funded	Total Costs	Composite Rate (¢/ kWh)
Arvin-Edison	\$ 18,158,900	\$ 15,951,640	\$ 454,622	\$ -	\$ (7,450)	\$ 1,760,088	\$ 16,398,811	\$ 13.12
Banta-Carbona	\$ 2,157,198	\$ 1,901,606	\$ 54,196	\$ -	\$ 3,533	\$ 197,864	\$ 1,959,334	\$ 12.93
Cawelo	\$ 2,449,597	\$ 2,362,380	\$ 67,328	\$ -	\$ 10,234	\$ 9,655	\$ 2,439,942	\$ 14.56
Glenn-Colusa	\$ 1,619,511	\$ 1,359,373	\$ 38,742	\$ -	\$ 512	\$ 220,884	\$ 1,398,627	\$ 12.60
James	\$ 445,755	\$ 378,068	\$ 10,775	\$ -	\$ (638)	\$ 57,550	\$ 388,205	\$ 23.29
Lower Tule	\$ 1,710,659	\$ 1,413,977	\$ 40,298	\$ -	\$ (1,700)	\$ 258,083	\$ 1,452,576	\$ 15.15
Princeton	\$ 594,038	\$ 586,445	\$ 16,714	\$ -	\$ 379	\$ (9,500)	\$ 603,538	\$ 14.35
RD108	\$ 492,197	\$ 428,203	\$ 12,204	\$ 2,685	\$ 646	\$ 48,461	\$ 443,737	\$ 22.21
Santa Clara	\$ 3,684,733	\$ 3,693,715	\$ 105,271	\$ 1,273	\$ (938)	\$ (114,588)	\$ 3,799,321	\$ 18.11
Sonoma	\$ 4,931,541	\$ 4,783,740	\$ 136,337	\$ 54	\$ (6,273)	\$ 17,683	\$ 4,913,858	\$ 14.70
West Stan	\$ 1,775,883	\$ 1,414,326	\$ 40,308	\$ -	\$ 1,515	\$ 319,734	\$ 1,456,149	\$ 11.99
Westlands	\$ 11,573,020	\$ 10,922,603	\$ 311,294	\$ -	\$ (935,607)	\$ 1,274,730	\$ 10,298,290	\$ 28.27
Westside	\$ 427,988	\$ 385,834	\$ 10,996	\$ -	\$ 305	\$ 30,853	\$ 397,136	\$ 15.18
Zone 7	\$ 1,473,571	\$ 1,394,607	\$ 39,746	\$ -	\$ (951)	\$ 40,169	\$ 1,433,402	\$ 20.96
PWRPA	\$ 51,494,591	\$ 46,976,516	\$ 1,338,831	\$ 4,011	\$ (936,433)	\$ 4,111,666	\$ 47,382,925	\$ 15.91

Power and Water Resources Pooling Authority

August 2023 Update

Operations Manager Report

2. June operations
 - a) Energy is 46% under budget for the month, 37% for the year
 - b) Load averaged 42 MW (8 MW higher than last month)
 - c) Average schedule deviation of 4 MW for an estimated benefit of 2,500.
3. Pricing
 - a) Average monthly prices: June saw a large amount of low and negative pricing. The very low Revenue rate for the solar resources show that. Slate is higher and shows the value of the battery being able to charge during negative pricing.

Table 2: Average monthly cost and ISO revenue rates

	Cost	Revenue
BR	\$ 29.98	\$ (28.75)
Displacement	\$ 29.98	\$ (29.07)
WWD BOR	\$ -	\$ (25.74)
Whitney Point	\$ 58.75	\$ (11.00)
Astoria	\$ 63.00	\$ (14.60)
Slate	\$ 26.81	\$ (14.31)
*Lodi	\$ 262.58	\$ (53.36)
Market		

**Lodi ran minimal hours in June*

Generator Reports

1. Astoria Solar
 - a) Generation
 - o 3,152 MWh, 44% capacity
 - o Net credit \$3,500 or \$1 /MWh
 - b) Negative Pricing review (wet year)

	Month	Total MWh	Total MWh @ <-\$25 RT LMP	Total MWh @ <-\$15 RT LMP	Total MWh @ <-\$0 RT LMP	Neg %
Astoria	1	1,262	-	-	38	3%
	2	1,651	-	-	335	20%
	3	2,021	121	283	808	40%
	4	2,969	184	486	1,465	49%
	5	3,120	107	352	1,392	45%
	6	3,152	167	376	765	24%
	7	3,426	-	28	85	2%

2. Whitney Point Solar
 - a) Generation
 - o 3,273 MWh, 41% capacity factor
 - b) Net credit \$11,800, or \$3.6 /MWh
 - c) Negative Pricing review (wet year)

Power and Water Resources Pooling Authority

August 2023 Update

Operations Manager Report

	Month	Total MWh	Total MWh @ < -\$25 RT LMP	Total MWh @ < -\$15 RT LMP	Total MWh @ < -\$0 RT LMP	Neg %
Whitney	1	1,047	5	10	72	7%
	2	1,518	21	64	352	23%
	3	1,639	28	76	433	26%
	4	2,511	254	950	1,771	71%
	5	3,160	69	593	1,281	41%
	6	3,273	62	519	1,134	35%
	7	3,521	7	7	7	0%

3. Slate Solar + Battery

a) Generation

- 6,986 MWh, 37% capacity factor
- Net value \$342,600, or \$49 /MWh

b) Staff work

- ACES & MCG to setup data flows: working through data translations.
- Deemed Energy issues still outstanding
- Negative Pricing review (wet year)

	Month	Total MWh	Total MWh @ < -\$25 RT LMP	Total MWh @ < -\$15 RT LMP	Total MWh @ < -\$0 RT LMP	Neg %
Slate	1	1,976	54	82	189	10%
	2	3,225	2	10	419	13%
	3	3,570	34	263	1,111	31%
	4	5,818	63	906	3,201	55%
	5	6,704	25	721	2,640	39%
	6	6,985	67	829	1,984	28%
	7	7,800	-	-	46	1%

4. Lodi Energy Center

- June Operations:
 - Minimal run time; 262 MWh, or 5% capacity factor due to economics
 - 81% RA availability – charges will be assessed next month
- Testing of gearbox complete.

Power Planning & Regulatory

1. Power Net Short

- a) 2023 – Tracking a wet year, WAPA's current forecast is July 1, 2023.
- b) Staff will start focusing on 2024 net short position.

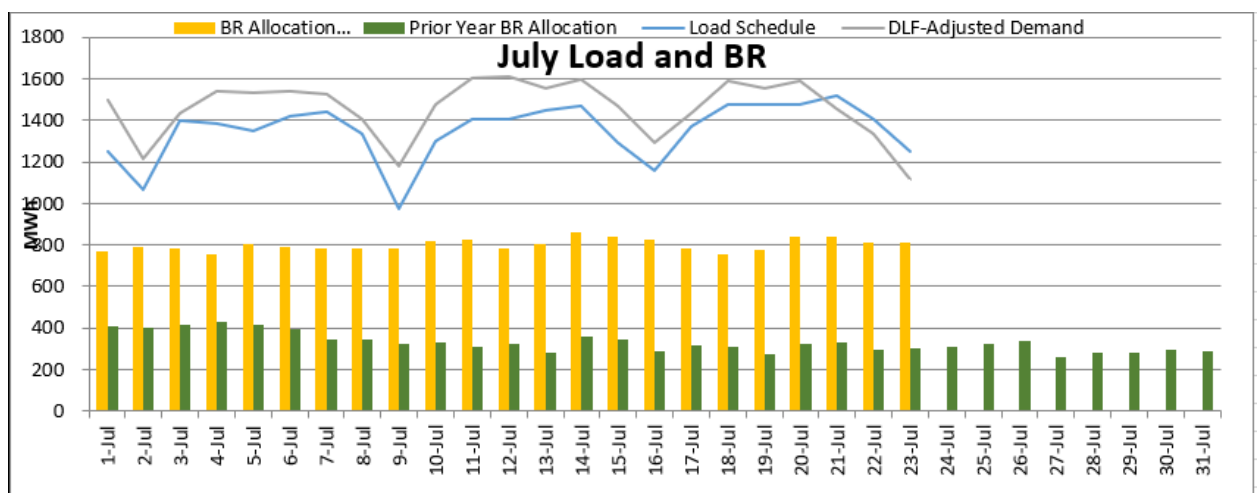
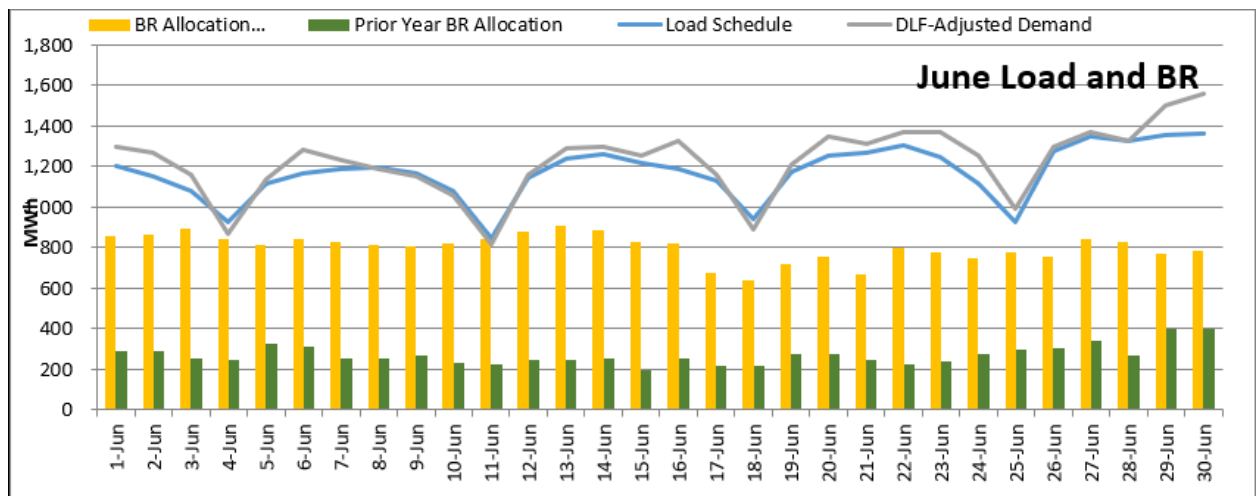
2. BR output:

- a. Covers 67% of load for June and 55% of July so far.

Power and Water Resources Pooling Authority

August 2023 Update

Operations Manager Report



3. Regulatory

a) Resource Adequacy:

- No shortfall capacity calls from the CAISO so far in 2023
- Staff will start work on 2024 next month, allocations have recently been received.
- Staff is following stakeholder initiatives that will impact PWRPA procurement strategies.

b) RPS: Compliance snapshot:

- PWRPA staff working with solar developers on various District project solicitations for BCID, WSID, and WWD.
- Detailed portfolio tables removed as this is on agenda for discussion.
- CEC is near completion of the CP3 validation. Staff working on final validation and acceptance.
- PWRPA staff working to add LTRID Hydro into PWRPA's portfolio.

Power & Water Resources Pooling Authority

Regular Agenda • Item 7.A

1. Resolution 23-08-12 BCID PPA and Rate Agreement.

Power & Water Resources Pooling Authority
Resolution 23-08-12

BCID SOLAR POWER PROJECT

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

WHEREAS, PWRPA is authorized to make and enter into contracts with entities in order to study, promote, develop, conduct, design, finance, acquire, construct, and operate water and energy-related projects and programs; and

WHEREAS, PWRPA and its Project Participants have signed the Aggregation Services Agreement ("ASA") under which the Pooling Authority provides aggregated electric services to electric accounts designated by the Project Participants; and

WHEREAS, Section 7.3 of the JPA and Section 4.6 of the ASA provide that PWRPA or some or all of the Project Participants may develop, install, own and operate certain electric generating facilities for the benefit of certain or all Project Participants; and

WHEREAS, Section 7.1 of the JPA and Section 4.6 of the ASA provide, among other things, that funding for, participation and withdrawal of participation in any Project undertaken by PWRPA, and the purchase and integration of electricity from these electric generating facilities, including any credit to be given to the host Project Participant or participating Project Participants, shall be governed by a separate Project Agreement; and

WHEREAS, Article 5 of the ASA provides that the Board of Directors ("Board") shall, among other things, review and approve contracts related to the provision of electric service under the ASA, review and approve a budget relating to the provision of electric services under the ASA, and allocate approved costs through rates and charges applicable to Project Participants; and

WHEREAS, pursuant to Resolution 13-11-13, PWRPA adopted a Renewable Energy Resources Procurement Plan in compliance with the California Energy Commission's Enforcement Procedures for the Renewables Portfolio Standard for Local Publicly Owned Electric Utilities; and

WHEREAS, pursuant to Public Utilities Code Section § 399.16(b)-(c), electricity products are classified as Portfolio Content Category 1 if they are: (a) associated with contracts or ownership agreements that are executed after June 1, 2010; (b) procured as bundled; and (c) are associated with an eligible renewable energy resource that has its first point of interconnection to a distribution system used to serve end users within a California Balancing Authority; and

WHEREAS, the proposed solar PV system at Banta Carbona Irrigation District ("BCID") shall be interconnected directly to the grid controlled by the California Independent System Operator ("CAISO") and designed to export energy to the CAISO; and

WHEREAS, the BCID Solar Project will be constructed, owned and operated by BCID, LLC, and PWRPA will execute a power purchase agreement ("PPA") for the BCID Solar Project; and

WHEREAS, prior to the start of construction activities, BCID shall execute a Solar Power License Agreement By and Between BCID Solar, LLC and BCID ("Site License"); and

WHEREAS, as required by the Aggregation Services Agreement ("ASA"), a Project Rate Agreement was prepared between PWRPA and BCID as the sole Participating Customer, which among other things, specifies the rates, terms and conditions for costs and energy associated with the Projects; and

WHEREAS, BCID shall provide documentation reasonably satisfactory to PWRPA showing that installation, operation, and maintenance of the BCID Project has been determined to be exempt from environmental review pursuant to the California Environmental Quality Act ("CEQA") in reliance on, but not limited to, California Public Resources Code section 21080.35 (statutory exemption for solar system installation) and section 15301 (categorical exemption for future maintenance and operation of an existing facility); and

WHEREAS, the Rate Agreement shall be effective on the first day when all of the following shall have occurred: (a) the Rate Agreement has been executed and delivered by BCID to PWRPA; (b) BCID Solar, LLC has executed the PPA; (c) PWRPA has executed (i) the PPA, and delivered it to BCID Solar, LLC and (ii) the Rate Agreement, and delivered it to BCID; and (d) BCID has executed the Site License; and

WHEREAS, BCID desires that the BCID Solar Project be designated as a PWRPA Project with BCID as the host Project Participant.

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

1. Finds that it is reasonable and consistent with the purpose and objective of the JPA and ASA to designate the BCID Solar Project as a Pooling Authority "Project" as that term is defined in JPA Section 1.12. (Attachment A)
2. Finds that it is reasonable and consistent with the purpose and objective of the JPA and ASA to designate BCID as the sole "Project Participant" as that term is defined in JPA Section 1.14 ("RPS Project Participant").
3. Approves the form of the Rate Agreement, subject to non-substantive changes made to it by General Counsel. (Attachment B).

4. Approves the form of the PPA, subject to non-substantive changes made to it by the General Counsel. (Attachment C).
5. Authorizes and directs the General Counsel to make any final, non-substantive changes that he believes are necessary to the Rate Agreement and PPA, and to distribute them to BCID and BCID Solar, LLC, respectively.
6. Authorizes and directs the Chairman, or designee, to execute the Rate Agreement Rate Agreement and the PPA.
7. Authorizes and directs authorized representatives of PWRPA to do and perform any and all acts required under the Rate Agreement and PPA in order to fulfill PWRPA's obligations described therein.
8. Authorizes this Resolution to take effect immediately upon its adoption.

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 2nd day of

August, 2023, by the following vote on roll call:

AYES	Arvin-Edison WSD, Banta Carbona ID, Byron Bethany ID, Cawelo Water District, Glenn-Colusa ID, Lower Tule River ID, Princeton/Provident ID, RD 108, Santa Clara Valley WD, Sonoma County Water Agency, West Stanislaus ID, Westlands Water District, (96.0% Voting Shares)
NOES	
ABSENT	Jame ID (4.0% Voting Shares)

David Weisenberger
Chairman

Attest by: Bruce McLaughlin
Secretary

**Power & Water Resources Pooling Authority
Resolution 23-08-12**

Attachment A for Resolution 23-08-12
Project Description

BCID Solar, LLC will permit, construct, commission, own, and operate a solar power resource on land owned by the Banta Carbona Irrigation District located in San Joaquin County, with general attributes as follows:

1. Size – 3,600 kW AC.
2. Commercial Operation Date (“COD”) – during late Q1 2025.
3. Interconnection – the project will interconnect directly to the PWRPA electric system and the CAISO-operated grid.
4. Output – Preliminary estimates indicate an average annual output of 9,250,000 kWh over the 35-year term.
5. PWRPA will enter into a Power Purchase Agreement (“PPA”) to buy all the electrical energy, capacity and renewable energy credits/environmental attributes from the Project for a 35-year period.

**Power & Water Resources Pooling Authority
Resolution 23-08-12**

Attachment B for Resolution 23-08-12

Form of Rate Agreement

**SEPARATELY METERED DISTRIBUTED GENERATION RATE
AGREEMENT
– BCID SOLAR PROJECT –**

This **Separately Metered Distributed Generation Rate Agreement – BCID Solar Project** (“SMDG Rate Agreement”), effective as of date described in Section 2.1, is made and entered into by and between the **Power and Water Resources Pooling Authority** (“PWRPA”) and the Banta Carbona Irrigation District (“BCID”). BCID is a Project Participant and by executing this SMDG Rate Agreement becomes a Participating Customer,” thereby affirmatively electing to pay rates reflecting costs, energy, and environmental attributes associated with PWRPA’s generation entitlement share in the SMDG Solar Project.

RECITALS

1. PWRPA operates as a publicly owned electric utility and provides retail electric service to BCID and other Project Participants pursuant to the Aggregation Services Agreement (“ASA”) and rates, terms and conditions adopted by PWRPA’s Board of Directors, which administers the ASA and serves as the Local Regulatory Authority (“LRA”) for PWRPA.
2. As generally described in Section 4.6 and Article 7 of the PWRPA Joint Powers Agreement (“JPA”), and Section 4.6 of the ASA, Project Participants may elect to pay rates reflecting energy and costs associated with specific electric resource projects developed by PWRPA.
3. Separately Metered Distributed Generation (“SMDG”) projects are eligible renewable electricity resources that are co-located with the retail load of a Participating Customer to be served in a manner that, as compared to centralized electricity generation resources, reduces environmental impacts related to siting, reduces greenhouse gas emissions, reduces distribution losses, reduces certain distribution and/or transmission charges, and adds to local electric reliability.
4. In accordance with PWRPA Renewable Energy Resources Procurement Plan (“PWRPA RPS Plan”) section 6.B, SMDG is classified as a Portfolio Content Category 1 resource since the electricity products are procured as bundled from an eligible renewable energy resource that has its first point of interconnection to a distribution system used to serve end users within a California balancing authority.
5. PWRPA is participating in the development of one SMDG Solar Project on a parcel of land located in San Joaquin County (“BCID SMDG”), nominally rated at 3,600 kilowatts –alternating current (“kWAC”). The land and pumping facilities are owned by BCID. The SMDG facilities will be owned and operated by BCID Solar, LLC (“Seller”).
6. PWRPA will execute a power purchase agreement (“SMDG PPA”) with the Seller relating to the sale and purchase of the full electrical output and associated environmental attributes from the BCID SMDG facilities (“SMDG Project”).

7. Appendix 1 to Exhibit E of the ASA (“PWRPA Allocation Policy”) describes, among other things, how costs and energy from specific resources will be allocated to those Project Participants that have elected to pay rates reflecting such costs and energy (“Participating Customers”). BCID is the sole Participating Customer for the SMDG Projects.
8. PWRPA and BCID desire to enter into this SMDG Rate Agreement in order to specify the rates, terms and conditions associated with energy generated by the SMDG Projects. PWRPA and the Seller have agreed to the form of the SMDG PPA, subject to non- substantial changes as approved by their respective counsel. PWRPA intends to execute the SMDG PPA following the Seller’s approval and execution of the SMDG PPA.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual promises, covenants, and conditions hereinafter set forth, PWRPA and the Participating Customer agree as follows:

ARTICLE 1 CONTRACT DOCUMENTS

- 1.1 Definitions:** Capitalized terms used in this SMDG Rate Agreement without other definition herein shall have the respective meanings given to such terms in the ASA or the SMDG PPA, as so designated herein.
- 1.2 ASA Incorporated:** This SMDG Rate Agreement consists of this document, as it may be amended from time to time pursuant to Section 1.4, and the ASA, as it may be amended from time to time pursuant to Section 2.5 of the ASA. The ASA is hereby incorporated into and made a part of this SMDG Rate Agreement.
- 1.3 SMDG PPA:** As described further in Section 3.3, the SMDG PPA shall not be incorporated into and made a part of this SMDG Rate Agreement. However, in light of the importance of the SMDG PPA in regard to the administration of this SMDG Rate Agreement, the SMDG PPA is attached hereto as Attachment 1 for reference purposes. PWRPA has provided BCID a copy of the final, effective SMDG PPA.
- 1.4 Amendments:** This SMDG Rate Agreement may be amended only by written instrument executed by PWRPA and BCID. PWRPA shall provide notice to BCID of the amendment of this SMDG Rate Agreement.
- 1.5 Conflicting Provisions:** As described further in Section 3.1, this SMDG Rate Agreement is intended to implement various provisions in the ASA, including specifically Section 4.5 of the ASA and the PWRPA Allocation Policy, relating to so-called “Specific Projects.” As such, notwithstanding Section 2.4 of the ASA, in the event of any conflict between this document and the ASA, this document shall control.

ARTICLE 2 EFFECTIVE DATE AND PARTICIPATION

- 2.1 Effective Date:** This SMDG Rate Agreement shall be effective on the first day when all of the following shall have occurred: (a) this SMDG Rate Agreement shall have been executed and delivered by the Participating Customer to PWRPA, (b) Seller shall have executed the SMDG PPA, (c) PWRPA shall have executed (i) the SMDG PPA, and delivered it to Seller and (ii) this SMDG Rate Agreement, and delivered it to BCID (“Effective Date”) and (d) BCID shall have executed the Solar Power License Agreement By and Between BCID Solar, LLC and the Banta Carbona Irrigation District (“Site License”). PWRPA shall provide written notice to BCID of the establishment of the Effective Date; provided, however, the failure to provide such notice shall not affect the establishment of the Effective Date.
- 2.2 SMDG Rate Percentages:**
- 2.2.1 General:** BCID is the sole Participating Customer in the SMDG Projects. As such, BCID shall receive all energy, Environmental Attributes Value and costs under this SMDG Rate Agreement.
- 2.2.2 Specified SMDG Rate Percentage:** BCID is the sole Participating Customer for the SMDG Projects, and hereby affirms that its participation level in the SMDG Projects is 100% (“SMDG Rate Percentage”)
- 2.2.3 PWRPA’s Generation Entitlement Share:** PWRPA’s Generation Entitlement Share is 100% of the SMDG Projects.

ARTICLE 3 SCOPE AND RELATIONSHIP

- 3.1 General:** PWRPA operates as a publicly owned electric utility and provides full requirements retail electric service to the Project Participants. The ASA and the various rates, policies and programs adopted by the Board define the process by which PWRPA obtains power resources and allocates costs through rates to the Project Participants. Under the JPA and ASA, PWRPA has the authority to offer and implement a flexible power procurement program in which, among other things, PWRPA acquires or generates energy from specific power resources upon confirmation from specified Project Participants of their agreement to pay electric rates based, in part, on the costs associated with such resources. This SMDG Rate Agreement is intended to implement provisions in the ASA relating to PWRPA’s flexible power procurement program, including specifically Section 4.5 of the ASA and the PWRPA Allocation Policy, relating to the costs and benefits of so-called “Specific Projects.”
- 3.2 Local Regulatory Authority:** As described in Section 5.1 of the ASA, the Board is the LRA for PWRPA and, among other things, establishes rates and adopts policies for retail electric service provided by PWRPA to the Project Participants consistent with the ASA and subject to the following:

- 3.2.1 Rates:** The Board shall establish rates to ensure recovery of the SMDG Costs (as defined in Article 4, below) from BCID pursuant to or not otherwise in conflict with the terms of this SMDG Rate Agreement.
- 3.2.2 Policy Changes:** The Board may adopt policies relating to or affecting PWRPA's Generation Entitlement Share of the SMDG as may be reasonably necessary in the exercise of the Board's role as LRA for PWRPA; provided, however, such policies shall not conflict with the terms of this SMDG Rate Agreement unless BCID consents to such change in writing.
- 3.3 SMDG Agreements:** Consistent with its administration of other power resources, only PWRPA, and not BCID, shall have privity of contract with respect to the SMDG PPA and other agreements relating to PWRPA's Generation Entitlement Share. PWRPA shall ensure the SMDG PPA specifies that BCID has a third party beneficiary interest in the SMDG PPA.
- 3.4 CEQA:** BCID shall be the lead agency for compliance with the California Environmental Quality Act. PWRPA shall be a responsible agency.

ARTICLE 4 RATE PROVISIONS

- 4.1 Participating Customer Liability for SMDG Costs:** By executing this SMDG Rate Agreement, BCID agrees to pay rates established by the Board that reflect, among other things, all costs reasonably associated with PWRPA's Generation Entitlement Share, as further described below.
- 4.1.1 General:** BCID shall pay through rates its share (as determined by its respective SMDG Rate Percentage) of PWRPA's costs associated with PWRPA's Generation Entitlement Share, which shall include (a) all costs paid by PWRPA under the SMDG PPA and (b) such other costs determined by the Board from time to time to be reasonably related to PWRPA's administration and operation of the SMDG PPA and this SMDG Rate Agreement ("SMDG Costs").
- 4.1.2 Obligation for the Term of the SMDG PPA:** BCID acknowledges and agrees as follows:
- (a.) the term of the SMDG PPA is expected to continue for 35 years from the Commercial Operation Date for the respective SMDG facility;
 - (b.) the Contract Price applicable to PWRPA is shown in Schedule 2-1 to the SMDG PPA; and
 - (c.) BCID's rate obligation under this SMDG Rate Agreement shall continue for the term of the SMDG PPA and such additional time, if any, as determined by the Board to be necessary for the recovery of all SMDG Costs.

4.1.3 Cost Allocation: Section VI of Exhibit E to the ASA describes various formulas used to implement cost allocation principles in the ASA. In light of BCID's SMDG Rate Percentage (100%), the SMDG Costs shall be allocated entirely to BCID.

4.1.4 Recovery of All Fees and Costs: Without limiting the generality of the various cost recovery provisions in the ASA and under California law, and notwithstanding Section 11.1 of the ASA (as implemented pursuant to Section 8.1 of the Joint Powers Agreement), PWRPA shall be entitled to recover from BCID, in addition to the cost responsibility charge described in Section 4.3, attorneys' fees, expenses and costs reasonably necessary to obtain such determination and to recover amounts due as a result of BCID's default.

4.1.5 Financial Remedial Actions: Should BCID be determined to be in Continuing Default, PWRPA shall have the right at any time or from time to time without after at least 30 calendar days notice to BCID, any such notice being hereby expressly waived, to pay the unpaid amount in the following manner and order of sequence ("Financial Remedial Actions"):

- (a.) Withdraw any and all funds available in BCID's P3-RCA account that was established by the PWRPA RPS Cost of Compliance Rule.
- (b.) Withdraw any and all funds available in BCID's Public Purpose Program Account, regardless of their categorization.
- (c.) Withdraw any and all funds available in the BCID's Allowance Value account established by the PWRPA Cap-and-Trade Cost of Compliance Rule.
- (d.) Withdraw any and all funds available in BCID's Environmental Attribute Value account.
- (e.) Increase the rate for all electricity sales to BCID using an RPS Compliance Adder of \$35/MWh.

4.2 Implementation of the PWRPA Allocation Policy: The PWRPA Allocation Policy shall be implemented with respect to this SMDG Rate Agreement as follows:

- (a) PWRPA's Generation Entitlement Share shall be allocated using the rules for the "Energy Efficiency" Tier.
- (b) In accordance with the RPS Cost of Compliance Rule adopted by Resolution 14-04-04, the Renewable Energy Certificates associated with the SMDG electricity generation project shall be allocated to BCID's assigned share of PWRPA's RPS compliance obligation.

4.3 Withdrawal or Termination

4.3.1 SMDG Cost Responsibility Charge: As generally described in Sections 10.2 and 10.3 of the ASA, a Project Participant that withdraws from the ASA or has its participation under the ASA terminated shall, among other things, continue to be responsible for its relative share of the net

unavoidable costs of PWRPA's generation resources. In addition to other terms and conditions in the ASA, BCID agrees that if it withdraws from the ASA or has its participation under the ASA terminated ("Departing SMDG Participant"), it shall continue to be responsible for the net unavoidable costs associated with its allocation of costs from PWRPA's Generation Entitlement Share ("SMDG Cost Responsibility Charge"). The Board, in its role as LRA, shall determine the amount of the SMDG Cost Responsibility Charge.

- 4.3.2 Cooperation; Withdrawal:** As described in Recital 3, above, PWRPA acknowledges that the SMDG Projects are co-located with BCID's retail load in order to effectuate several environmental and electrical benefits. If BCID elects to withdraw from the ASA, PWRPA shall cooperate in good faith with BCID, as requested by BCID, in order to ensure that the SMDG Projects remain co-located with BCID's retail load. Such cooperation may include, but shall not be limited to, assigning the SMDG PPA to BCID and rearranging the electric distribution system; provided, however, in all instances BCID shall reimburse PWRPA for its costs incurred in such cooperative efforts.

ARTICLE 5

TERM, TERMINATION AND ASSIGNMENT

- 5.1 Term:** The term of this SMDG Rate Agreement shall begin on the Effective Date and, unless earlier terminated, shall continue concurrent with the term of the SMDG PPA as it relates to PWRPA, and such additional time as determined by the Board to be necessary for the recovery of all SMDG Costs.

5.2 Termination

- 5.2.1 Board Action and Consent by the Participating Customers:** This SMDG Rate Agreement may be terminated by PWRPA at any time upon reasonable advance notice to BCID upon adoption of a resolution by the Board directing PWRPA to terminate this SMDG Rate Agreement; provided, however, (a) such resolution shall not be effective unless BCID consents to the termination in writing and (b) prior to such termination, and if requested by BCID, PWRPA shall cooperate with BCID as may be reasonably necessary to modify or assign the SMDG PPA or otherwise provide a means by which BCID may receive economic benefits from the operation of the SMDG comparable to the economic benefits BCID receives under this SMDG Rate Agreement. Without limiting the generality of the foregoing in clause (b), above, PWRPA acknowledges that the SMDG Projects are co-located with BCID's retail load in order to effectuate several environmental and electrical benefits, and therefore PWRPA agrees to cooperate in good faith with BCID, as requested by BCID and as generally described in Section 4.3.2, in order to ensure that the SMDG Projects remain co-located with BCID's retail load.

- 5.2.2 Default:** In addition to all other remedies provided in this SMDG Rate

Agreement and under law, PWRPA may terminate this SMDG Rate Agreement if BCID is in material default of this SMDG Rate Agreement and fails to timely cure such material default following 30-calendar days notice and reasonable opportunity to cure.

- 5.2.3 Withdrawal and Payment of SMDG Cost Responsibility Charge:** This SMDG Rate Agreement shall be terminated with respect to BCID if BCID withdraws from the ASA and fully pays the SMDG Cost Responsibility Charge and any costs associated with PWRPA's cooperative efforts, as described in Section 4.3.2.

ARTICLE 6 MISCELLANEOUS

- 6.1 Severability:** If one or more clauses, sentences, paragraphs or provisions of this SMDG Rate Agreement shall be held to be unlawful, invalid or unenforceable, the remainder of this SMDG Rate Agreement shall not be affected thereby and shall be treated as lawful and valid, and shall be enforced to the maximum extent possible.
- 6.2 Further Assurances:** BCID agrees to execute and deliver all further instruments and documents and take all further actions that may be reasonably necessary to effectuate the purposes and intent of this SMDG Rate Agreement.
- 6.3 Counterparts:** This SMDG Rate Agreement may be executed in any number of counterparts, including through facsimile signatures, and upon execution by PWRPA and BCID each executed counterpart shall have the same force and effect as an original document and as if PWRPA and the Participating Customer had signed the same document. Any signature page of this SMDG Rate Agreement may be detached from any counterpart of this SMDG Rate Agreement without impairing the legal effect of any signatures thereon, and may be attached to another counterpart of this SMDG Rate Agreement identical in form but having attached to it one or more signature pages.

**ARTICLE 7
SIGNATURE**

IN WITNESS WHEREOF, PWRPA and the Participating Customer have executed this SMDG Rate Agreement as of date written below.

POWER AND WATER RESOURCES POOLING AUTHORITY

By:

Title: _____

Date: _____

BANTA CARBONA IRRIGATION DISTRICT

By:

Name: _____

Title: _____

Customer: _____

Date: _____

**Power & Water Resources Pooling Authority
Resolution 23-08-12**

Attachment C to Resolution 23-08-12

Form of Power Purchase Agreement

Banta Carbona Irrigation District

Solar Photovoltaic Project

Documents Included:

1. Solar Power & Services Agreement by and between BCID Solar, LLC and Power and Water Resources Pooling Authority.
2. Agreement for Solar Energy Ground License, by and between Banta-Carbona Irrigation District (as Licensor) and BCID Solar, LLC (as Licensee).

SOLAR POWER & SERVICES AGREEMENT

This Solar Power & Services Agreement (this "Agreement") is made and entered into as of _____, 2023 (the "Effective Date"), between BCID Solar, LLC, a Delaware limited liability company ("Seller"), and Power and Water Resources Pooling Authority, a California public agency, ("Purchaser"); and, together with Seller, each, a "Party" and together, the "Parties").

WITNESSETH:

WHEREAS, Banta-Carbona Irrigation District, a California public water agency ("Licensor"), as the owner of the Premises (as hereafter defined), has executed the License Agreement (as hereafter defined) with Seller, such License Agreement giving Seller the rights to build, operate, and maintain the System (as hereafter defined); and

WHEREAS, Purchaser desires that Seller install and operate a solar photovoltaic system at the Premises for the purpose of providing Solar Services (as hereafter defined), and Seller is willing to do the same.

NOW THEREFORE, in consideration of the mutual promises set forth below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

The exhibits listed below are incorporated by reference and made part of this Agreement.

Exhibit 1: Special Terms and Conditions

Exhibit 2: General Terms and Conditions

Exhibit 3: Performance Guaranty

IN WITNESS WHEREOF and in confirmation of their consent to this Agreement and intending to be legally bound hereby, Seller and Purchaser have executed this Agreement as of the Effective Date.

PURCHASER

Power and Water Resources Pooling Authority

SELLER

BCID Solar, LLC

By: _____
Name: David Weisenberger
Title: Chairman of the Board

By: _____
Name: Evan Riley
Title: Authorized Person

EXHIBIT 1
Special Terms and Conditions

The following Schedules are incorporated by reference and made part of this Agreement:

Schedule 1-1	Description of the Site, System and Scope of Work
Schedule 1-2	Electricity Rates
Schedule 1-3	Early Termination Fee
Schedule 1-4	Estimated Annual Production
Schedule 1-5	Notice Information

[Remainder of page intentionally left blank]

Schedule 1-1: Description of the Site, System and Scope of Work

A. Site	
APN:	A parcel of real property located in San Joaquin County, California, with the APN set forth in the License Agreement.
B. Solar System Description	
Interconnection Type:	PG&E Rule 21
Solar System Size (kW dc):	5,000 kW dc
Solar System Size (kW ac):	3,600 kW ac
C. Scope of Work	
Overview:	Design and supply grid-interconnected, ground-mounted solar electric (PV) system

The Parties acknowledge and agree that, upon written notice to the Purchaser, Seller may update Part B of the table set forth on this Schedule 1-1 after the Effective Date to reflect the current System design.

Schedule 1-5 – Notice Information

Purchaser:

Power and Water Resources Pooling Authority

Attn: Bruce McLaughlin
General Manager
3514 W. Lehman Road
Tracy, CA 95304

Seller:

BCID Solar, LLC

Attn: Evan Riley
1808 Wedemeyer Street, Suite 221
San Francisco, CA 94129

Financing Party:

[To be provided by Seller when known]

EXHIBIT 2

General Terms and Conditions

1. DEFINITIONS.

1.1 Definitions. In addition to other terms specifically defined elsewhere in this Agreement, where capitalized, the following words and phrases shall be defined as follows:

“Adjustment Maximum” has the meaning set forth in Schedule 1-2 of Exhibit 1 (Special Terms and Conditions).

“Affiliate” means, with respect to any specified Person, any other Person directly or indirectly controlling, controlled by or under common control with such specified Person.

“Agreement” has the meaning set forth in the Preamble.

“Applicable Law” means, with respect to any Person, any constitutional provision, law, statute, rule, regulation, ordinance, treaty, order, decree, judgment, decision, certificate, holding, injunction, registration, license, franchise, permit, authorization, guideline, Governmental Approval, consent or requirement of any Governmental Authority having jurisdiction over such Person or its property, enforceable at law or in equity, including the interpretation and administration thereof by such Governmental Authority.

“Assignment” has the meaning set forth in Section 13.1.

“Bankruptcy Event” means with respect to a Party, that either:

- (a) such Party has (A) applied for or consented to the appointment of, or the taking of possession by, a receiver, custodian, trustee or liquidator of itself or of all or a substantial part of its property; (B) admitted in writing its inability, or be generally unable, to pay its debts as such debts become due; (C) made a general assignment for the benefit of its creditors; (D) commenced a voluntary case under any bankruptcy law; (E) filed a petition seeking to take advantage of any other law relating to bankruptcy, insolvency, reorganization, winding up, or composition or readjustment of debts; (F) failed to controvert in a timely and appropriate manner, or acquiesced in writing to, any petition filed against such Party in an involuntary case under any bankruptcy law; or (G) taken any corporate or other action for the purpose of effecting any of the foregoing; or
- (b) a proceeding or case has been commenced without the application or consent of such Party in any court of competent jurisdiction seeking (A) its liquidation, reorganization, dissolution or winding-up or the composition or readjustment of debts or, (B) the appointment of a trustee, receiver, custodian, liquidator or the like of such Party under any bankruptcy law, and such proceeding or case has continued undefended, or any order, judgment or decree approving or ordering any of the foregoing shall be entered and continue unstayed and in effect for a period of 60 days.

“Business Day” means any day other than Saturday, Sunday or any other day on which banking institutions in New York, NY are required or authorized by Applicable Law to be closed for business.

“CAISO” means the California Independent System Operator.

“Claims” has the meaning set forth in Section 16.2.

“Commercial Operation Date” has the meaning set forth in Section 3.3(b).

“Contract Year” means a 12-month period commencing on the Commercial Operation Date and each succeeding 12-month period; if the Commercial Operation Date does not occur on the first day of a month, the first Contract Year shall be deemed to include that portion of the month in which the Commercial Operation Date occurred plus the succeeding 12-month period

such that every subsequent Contract Year shall commence on the first day of a month and end on the last day of the month immediately preceding such anniversary.

“Covenants, Conditions and Restrictions” or “CCR” means those requirements or limitations related to the Premises as may be set forth in a lease, if applicable, or by any association or other organization, having the authority to impose restrictions.

“Disruption Period” has the meaning set forth in Section 4.3(b).

“Early Termination Date” means any date on which this Agreement terminates other than by reason of expiration of the then applicable Term.

“Early Termination Fee” means the fee payable by Purchaser to Seller under the circumstances described in Section 2.2(a), Section 4.3(a), or Section 11.2, and in the amount described on Schedule 1-3 of Exhibit 1 (Special Terms and Conditions).

“Effective Date” has the meaning set forth in the preamble to this Agreement.

“Electrical Energy” means the total quantity of electricity generated by the System that is recorded by Seller’s metering equipment pursuant to Section 4.2 and delivered as Pumping Energy or Export Energy. For the purpose of clarity, all Electrical Energy shall be classified as either Pumping Energy or Export Energy.

“Environmental Attributes” means the characteristics of electric power generation at the System that have intrinsic values, separate and apart from the Electrical Energy, including, without limitation, carbon trading credits, renewable energy credits or certificates, capacity attributes, emissions reduction credits, emissions allowances, green tags, tradable renewable credits, and Green-e® products.

“Environmental Documents” has the meaning set forth in Section 7.2(h).

“Environmental Law” means any and all federal, state, local, provincial and foreign, civil and criminal laws, statutes, ordinances, orders, common law, codes, rules, regulations, judgments, decrees, injunctions relating to the protection of health and the environment, worker health and safety, and/or governing the handling, use, generation, treatment, storage, transportation, disposal, manufacture, distribution, formulation, packaging, labeling, or release to the environment of or exposure to Hazardous Materials, including any such requirements implemented through Governmental Approvals.

“Estimated Annual Production” has the meaning set forth in Section 5.2.

“Estimated Remaining Payments” means as of any date, the estimated remaining Solar Services Payments to be made through the end of the then-applicable Term, as reasonably determined by Seller and set forth in Exhibit 1 (Special Terms and Conditions).

“Expiration Date” means the date on which this Agreement terminates by reason of expiration of the Term.

“Export Energy” means the quantity of Electrical Energy delivered to and measured by CAISO’s revenue-grade meter.

“Export Rate” means the price per kWh as set forth in Schedule 1-2 of Exhibit 1 (Special Terms and Conditions).

“Final I/C Cost” means the final interconnection costs for the System set forth in the final system impact study provided by CAISO to Seller.

“Financing Party” means, as applicable (i) any Person (or its agent) from whom Seller (or an Affiliate of Seller) leases the System, (ii) any Person (or its agent) who has made or will make a loan to or otherwise provides financing to Seller (or an Affiliate of Seller) with respect to the System, or (iii) any Person acquiring a direct or indirect interest in Seller or in Seller’s interest in this Agreement or the System as a tax credit investor.

“Force Majeure Event” has the meaning set forth in Section 10.1.

“General Conditions” means this Exhibit 2 (General Terms and Conditions) of this Agreement, including all Schedules hereto.

“Governmental Approval” means any approval, consent, franchise, permit, certificate, resolution, concession, license, or authorization issued by or on behalf of any applicable Governmental Authority, including any such approval, consent, order or binding agreements with or involving a governmental authority under Environmental Laws.

“Governmental Authority” means any federal, state, regional, county, town, city, or municipal government, whether domestic or foreign, or any department, agency, bureau, or other administrative, regulatory or judicial body of any such government.

“Hazardous Materials” means any hazardous or toxic material, substance or waste, including petroleum, petroleum hydrocarbons or petroleum products, petroleum by-products, radioactive materials, asbestos or asbestos-containing materials, gasoline, diesel fuel, pesticides, radon, urea formaldehyde, mold, lead or lead-containing materials, polychlorinated biphenyls; and any other chemicals, materials, substances or wastes in any amount or concentration which are regulated under or for which liability can be imposed under any Environmental Law.

“Indemnified Parties” has the meaning set forth in Section 16.1.

“Indemnifying Parties” has the meaning set forth in Section 16.1.

“Installation Work” means the construction and installation of the System and the start-up, testing and acceptance (but not the operation and maintenance) thereof, all performed by or for Seller at the Premises.

“Invoice Date” has the meaning set forth in Section 6.2.

“Liabilities” has the meaning set forth in Section 16.1.

“License Agreement” means that certain Agreement for Solar Energy Ground License by and between Seller and Licensor to be entered into after the Effective Date, as amended, restated, or otherwise modified from time to time.

“Licensor” has the meaning set forth in the recitals to this Agreement.

“Liens” has the meaning set forth in Section 7.1(e).

“Losses” means all losses, liabilities, claims, demands, suits, causes of action, judgments, awards, damages, cleanup and remedial obligations, interest, fines, fees, penalties, costs and expenses (including all attorneys’ fees and other costs and expenses incurred in defending any such claims or other matters or in asserting or enforcing any indemnity obligation).

“Party” or “Parties” has the meaning set forth in the preamble to this Agreement.

“Person” means an individual, partnership, corporation, limited liability company, business trust, joint stock company, trust, unincorporated association, joint venture, firm, or other entity, or a Governmental Authority.

“Pre-existing Environmental Conditions” means the presence or release of, or exposure to, any Hazardous Materials at, to, on, in, under or from the Premises that first existed, arose or occurred on or prior to Seller’s commencement of construction at the Premises.

“Premises” has the meaning set forth in the Site Control Agreement.

“Pumping Energy” means the quantity of Electrical Energy that is delivered to the Purchaser for resale for the water-related loads of customers.

“Pumping Rate” means the price per kWh as set forth in Schedule 1-2 of Exhibit 1 (Special Terms and Conditions), subject to any Interconnection Adjustment defined therein.

“Purchaser” has the meaning set forth in the preamble to this Agreement.

“Purchaser Default” has the meaning set forth in Section 11.2(a).

“Purchaser Indemnified Parties” has the meaning set forth in Section 16.1.

“Representative” has the meaning set forth in Section 15.1.

“Seller” has the meaning set forth in Exhibit 1 (Special Terms and Conditions).

“Seller Default” has the meaning set forth in Section 11.1(a).

“Seller Indemnified Parties” has the meaning set forth in Section 16.2.

“Security Interest” has the meaning set forth in Section 8.2.

“Site” has the meaning set forth in Schedule 1-1.

“Site Control Agreement” means the License Agreement.

“Solar Incentives” means any accelerated depreciation, installation or production-based incentives, investment tax credits and subsidies, and any other solar or renewable energy subsidies and incentives. This does not include any public grant funding that is applied for, and directly received by, either the Purchaser or the Licenser.

“Solar Insolation” means the amount of solar energy falling on a particular location, as specified by Seller, as measured in kWh per square meter.

“Solar Services” has the meaning set forth in Section 5.3.

“Solar Services Payment” has the meaning set forth in Section 6.1.

“Special Conditions” means Exhibit 1 of this Agreement, including all Schedules thereto.

“Stated Rate” means a rate per annum equal to the lesser of (a) the “prime rate” (as reported in The Wall Street Journal) plus two percent or (b) the maximum rate allowed by Applicable Law.

“System” means the integrated assembly of photovoltaic panels, mounting assemblies, inverters, converters, metering, lighting fixtures, transformers, ballasts, disconnects, combiners, switches, wiring devices and wiring.

“System Operations” means Seller’s operation, maintenance and repair of the System performed in accordance with the requirements herein.

“Term” has the meaning set forth in Section 2 of Exhibit 1 (Special Terms and Conditions).

“Termination Date” means the date on which this Agreement ceases to be effective, including on an Early Termination Date or the Expiration Date.

1.2 Interpretation. The captions or headings in these General Conditions are strictly for convenience and shall not be considered in interpreting this Agreement. Words in this Agreement that impart the singular connotation shall be interpreted as plural, and words that impart the plural connotation shall be interpreted as singular, as the identity of the parties or objects referred to may require. The words “include”, “includes”, and “including” mean include, includes, and including “without limitation” and “without limitation by specification.” The words “hereof”, “herein”, and “hereunder” and words of similar import refer to this Agreement as a whole and not to any particular provision of this Agreement. Except as the context otherwise indicates, all references to “Articles” and “Sections” refer to Articles and Sections of these General Conditions.

2. TERM AND TERMINATION.

2.1 Term. The Term of this Agreement shall commence on the Effective Date. The electricity supply period under this Agreement commences on the Commercial Operation Date and continues for the duration of the Term, unless terminated earlier pursuant to the provisions of this Agreement.

2.2 Early Termination.

(a) Purchaser may terminate this Agreement during the Term for any reason upon 60 days' prior written notice. In such event, Purchaser shall pay, as liquidated damages, the Early Termination Fee set forth on Schedule 1-3 of Exhibit 1 (Special Terms and Conditions), and Seller shall cause the System to be disconnected and removed from the Premises. Upon Purchaser's payment to Seller of the Early Termination Fee, this Agreement shall terminate automatically, and all rights, interests, duties, and obligations shall cease except as otherwise expressly set forth.

(b) Seller may terminate this Agreement during the Term (i) if the Interconnection Adjustment exceeds the Adjustment Maximum or (ii) if the License Agreement is terminated pursuant to its terms (in each case, with no liability of Purchaser to pay any Early Termination Fee). Upon Seller's written notice to Purchaser of its intent to terminate this Agreement, this Agreement shall terminate automatically, and all rights, interests, duties, and obligations shall cease except as otherwise expressly set forth in this Agreement.

2.3 Conditions of this Agreement Prior to Commercial Operation Date.

(a) In the event that any of the following events or circumstances occur prior to the Commercial Operation Date, Seller may (in its sole discretion) provide written notice to Purchaser that it is terminating this Agreement, in which case neither Party shall have any liability to the other except for any such liabilities that may have accrued prior to such termination:

(ii) Seller determines that the Site or Premises, as is, is insufficient to accommodate the System or unsuitable for construction or operation of the System.

(iii) Site conditions (including environmental conditions) or construction requirements exist that were not known as of the Effective Date and that could reasonably be expected to materially increase the cost of Installation Work or would adversely affect the Electrical Energy from the System as designed.

(iv) There is a material adverse change in the regulatory environment, incentive program or federal or state tax code (including the expiration of any incentive program or tax incentives in effect as of the Effective Date) that could reasonably be expected to adversely affect the System.

(v) Seller is unable to obtain financing for the System on terms and conditions satisfactory to it.

(vi) There has been a material adverse change in the rights of Seller to construct the System on the Premises.

(vii) Seller has not received evidence reasonably satisfactory to it that interconnection services will be available with respect to energy generated by the System or that interconnection costs or interconnection schedule are not obtained from CAISO on terms and conditions satisfactory to it.

(viii) Purchaser has determined that there are easements, CCRs or other land use restrictions, liens or encumbrances that would materially impair or prevent the installation, operation, maintenance or removal of the System.

(ix) There has been a material adverse change in Purchaser's creditworthiness.

(x) The License Agreement is terminated pursuant to its terms.

If any of the conditions set forth in Section 2.3(a) are partly or wholly unsatisfied, and Seller wishes to revise the information in Exhibit 1 (Special Terms and Conditions), then Seller may propose modifications to Exhibit 1 (Special Terms and Conditions) for acceptance by Purchaser. If Purchaser does not accept such modified Special Conditions, Seller may terminate

this Agreement as provided in Section 2.3(a). If Purchaser accepts such revised Special Conditions, such revised Special Conditions shall be deemed an amendment of this Agreement, and this Agreement shall remain in force and effect upon execution of the modification by both Parties.

If this Agreement is terminated prior to the Commercial Operation Date, pursuant to Section 2.3(a), but after the System, or any part of it (including System mounting pads or other support structures), has been built on the Premises, such termination shall be subject to the removal provisions of the Site Control Agreement.

3. CONSTRUCTION, INSTALLATION AND TESTING OF SYSTEM.

3.1 Installation Work. Seller will cause the System to be designed, engineered, installed and constructed substantially in accordance with Schedule 1-1 of Exhibit 1 (Special Terms and Conditions) and Applicable Law. At its request, Purchaser shall have the right to review all construction plans and designs, including engineering evaluations of the impact of the System. Seller shall perform the Installation Work at the Premises between the hours of 7:00 a.m. and 7:00 p.m. in a manner that minimizes inconvenience to and interference with the use of the Premises to the extent commercially practical.

3.2 Approvals; Permits. Seller shall obtain and maintain all necessary consents, approvals and permits required to for Seller to perform its obligations under this Agreement, including but not limited to those related to CAISO, any Governmental Approval, and any consents, waivers, approvals or releases required pursuant to any applicable contract or CCR; provided, that, Purchaser shall reasonably assist Seller in obtaining any such consents, approvals and permits at no cost to the Purchaser. Seller shall pay for all costs and expenses needed to obtain such approvals and permits.

3.3 System Acceptance Testing.

(a) Seller shall conduct testing of the System in accordance with such methods, acts, guidelines, standards and criteria reasonably accepted or followed by photovoltaic solar system integrators in the United States.

(b) If the results of such testing indicate that the System is capable of generating and delivering both Export Energy and Pumping Energy for a sum total of four continuous hours, using such instruments and meters as have been installed for such purposes, and the System has been approved for interconnected operation by CAISO, then Seller shall send a written notice to Purchaser to that effect, and the date of such notice shall be the "Commercial Operation Date."

4. SYSTEM OPERATIONS.

4.1 Seller as Owner and Operator. The System will be owned by Seller or Seller's Financing Party and will be operated and maintained and, as necessary, repaired by Seller at its sole cost and expense; provided, that any repair or maintenance costs incurred by Seller as a result of Purchaser's negligence or breach of its obligations hereunder, shall be reimbursed by Purchaser, except for any repairs or maintenance costs which arise out of or are caused by naturally-occurring flooding events. Notwithstanding the forgoing, Purchaser agrees that it will not intentionally cause any flooding of the Premises as a result of its ongoing operations.

4.2 Metering. Seller shall install and maintain a revenue grade kilowatt-hour (kWh) meter for the measurement of Electrical Energy provided by the System and may, at its election, install a revenue grade kilowatt-hour (kWh) meter for the measurement or calculation of Export Energy and Pumping Energy.

4.3 System Disruptions.

In the event that (x) Purchaser repairs the Premises for any reason not directly related to damage caused by the System, and such repair requires the partial or complete temporary disassembly or movement of the System, or (y) any act or omission of Purchaser or Purchaser's employees, Affiliates, agents or subcontractors (collectively, a "Purchaser Act") results in a disruption or outage in System production, then, in either case, Purchaser shall (i) pay Seller for all work required by Seller to disassemble or move the System and (ii) continue to make all payments for the Solar Services during such period of System disruption (the "Disruption Period"), and (iii) reimburse Seller for any other lost revenue during the Disruption Period, including any lost revenue associated with any reduced Solar Incentives during the Disruption Period. For the purpose of

calculating Solar Services Payments and lost revenue for such Disruption Period, Solar Services for each month of said months shall be deemed to have been produced at the average rate over the same month for which data exists (or, if the disruption occurs within the first 12 months of operation, the average over such period of operation). Upon Purchaser's written request, Seller will provide reasonable documentation supporting its lost revenue calculations.

5. DELIVERY OF SOLAR SERVICES.

5.1 Electric Power Purchase Requirement. Purchaser agrees to accept and purchase 100% of the Electrical Energy during each relevant month of the Term. While the Electrical Energy is calculated and billed on a per kWh basis as set forth in Schedule 1-2 of Exhibit 1 (Special Terms and Conditions), it represents a package of services and benefits, including any reduction in Purchaser's peak demand from CAISO.

5.2 Estimated Annual Production. The annual estimate of Electrical Energy with respect to the System for any given year as determined pursuant to this Section shall be the "Estimated Annual Production." The Estimated Annual Production for each year of the Term is set forth in Schedule 1-4 of Exhibit 1 (Special Terms and Conditions).

5.3 Environmental Attributes and Solar Incentives. Purchaser's purchase of Pumping Energy and Export Energy includes the associated Environmental Attributes (collectively, the "Solar Services"), which shall be owned by Purchaser for the duration of the Term. Purchaser's purchase of Solar Services does not include Solar Incentives, which shall be owned by Seller or Seller's Financing Party for the duration of the System's operating life. Purchaser disclaims any right to Solar Incentives based upon the installation of the System at the Premises, and shall, at the request, and sole expense, of Seller, execute any document or agreement reasonably necessary to fulfill the intent of this Section 5.3.

5.4 Title to System. Throughout the duration of this Agreement, Seller or Seller's Financing Party shall be the legal and beneficial owner of the System at all times, and the System shall remain the personal property of Seller or Seller's Financing Party and shall not attach to or be deemed a part of, or fixture to, the Premises. The System shall at all times retain the legal status of personal property as defined under Article 9 of the Uniform Commercial Code. Purchaser covenants that it will use reasonable commercial efforts to place all parties having an interest in or lien upon the real property comprising the Premises on notice of the ownership of the System and the legal status or classification of the System as personal property.

6. PRICE AND PAYMENT.

6.1 Consideration. Purchaser shall pay to Seller a monthly payment (the "Solar Services Payment") for the Electrical Energy generated by the System during each calendar month of the Term equal to the sum of (x) the product of (i) the Pumping Energy and (ii) the Pumping Rate plus (y) the product of (i) the Export Energy and (ii) the Export Rate. In the event that Purchaser is a municipality or other Governmental Authority, if sufficient funds to provide for payment(s) owed by Purchaser under this Agreement are not appropriated, Purchaser may terminate this Agreement upon notice in writing to Seller in accordance with the terms of Section 2.2(a), including, without limitation, the payment to Seller of the Early Termination Fee.

6.2 Invoice. Seller shall invoice Purchaser on or about the first day of each month (each, an "Invoice Date"), commencing on the first Invoice Date to occur after the Commercial Operation Date, for the Solar Services Payment in respect of the immediately preceding month. The invoice shall include a detailed summary of the calculations set forth in Section 6.1. The last invoice shall include production only through the Termination Date of this Agreement.

6.3 Time of Payment. Purchaser shall pay all undisputed amounts due hereunder within 20 days after the date of the applicable Invoice Date.

6.4 Method of Payment. All payments that are not paid when due shall bear interest accruing from the date becoming past due until paid in full at a rate equal to the Stated Rate. All payments made hereunder shall be non-refundable, be made free and clear of any tax, levy, assessment, duties or other charges and not subject to reduction, withholding, set-off, or adjustment of any kind.

6.5 Disputed Payments. If a *bona fide* dispute arises with respect to any invoice, Purchaser shall not be deemed in default under this Agreement and the Parties shall not suspend the performance of their respective obligations hereunder,

including payment of undisputed amounts owed hereunder. If an amount disputed by Purchaser is subsequently deemed to have been due pursuant to the applicable invoice, interest shall accrue at the Stated Rate on such amount from the date becoming past due under such invoice until the date paid.

7. GENERAL COVENANTS.

7.1 Seller's Covenants. Seller covenants and agrees to the following:

(a) Notice of Damage or Emergency. Seller shall (x) promptly notify Purchaser if it becomes aware of any damage to or loss of the use of the System or that could reasonably be expected to adversely affect the System, and (y) immediately notify Purchaser if it becomes aware of any event or circumstance relating to the System or the Premises that poses a significant risk to human health, the environment, the System or the Premises.

(b) System Condition. Seller shall take all actions reasonably necessary to ensure that the System is capable of providing Solar Services at a commercially reasonable continuous rate.

(c) Governmental Approvals. While providing the Installation Work, Solar Services, and System Operations, Seller shall obtain and maintain and secure all Governmental Approvals required to be obtained and maintained and secured by Seller and to enable Seller to perform such obligations.

(d) Health and Safety. Seller shall take all necessary and reasonable safety precautions with respect to providing the Installation Work, Solar Services, and System Operations that shall comply with all Applicable Laws pertaining to the health and safety of persons and real and personal property.

(e) Liens. Other than a Financing Party's security interest in or ownership of the System, Seller shall not directly or indirectly cause, create, incur, assume or suffer to exist any mortgage, pledge, lien (including mechanics', labor or materialman's lien), charge, security interest, encumbrance or claim of any nature ("Liens") on or with respect to the Premises or any interest therein, in each case to the extent such Lien arises from or is related to Seller's performance or non-performance of its obligations hereunder. If Seller breaches its obligations under this Section, it shall (i) immediately notify Purchaser in writing, (ii) promptly cause such Lien to be discharged and released of record without cost to Purchaser, and (iii) defend and indemnify Purchaser against all costs and expenses (including reasonable attorneys' fees and court costs at trial and on appeal) incurred in discharging and releasing such Lien; provided, however, that Seller shall have the right to contest any such Lien, so long as it provides a statutory bond or other reasonable assurances of payment that either remove such Lien from title to the Premises or that assure that any adverse judgment with respect to such Lien will be paid without affecting title to the Premises.

(f) Indemnification. Seller shall indemnify, hold harmless and defend Purchaser from and against all claims, pay costs and expenses, and conduct all actions required under Environmental Laws in connection with any Hazardous Materials released, spilled or deposited at, on above or below the Premises by the Seller, except for any Pre-Existing Environmental Conditions.

(g) System Removal Bond. Within 60 days after the date this Agreement shall have no more than five years remaining in its Term, Seller shall procure a bond from a reputable surety, in an amount to be determined by an independent engineer reasonably experienced at calculating decommissioning costs for photovoltaic projects in the State of California, guaranteeing the performance of Seller's removal obligations described in the Site Control Agreement.

7.2 Purchaser's Covenants. Purchaser covenants and agrees as follows:

(a) Notice of Damage or Emergency. Purchaser shall (x) promptly notify Seller if it becomes aware of any damage to or loss of the use of the System or that could reasonably be expected to adversely affect the System, (y) immediately notify Seller it becomes aware of any event or circumstance that poses an imminent risk to human health, the environment, the System or the Premises.

(b) Liens. Purchaser shall not directly or indirectly cause, create, incur, assume or suffer to exist any Liens on or with respect to the System or any interest therein however Purchaser is authorized to encumber the Premises either directly

or indirectly, including the placement of any liens on the Premises, provided such encumbrances do not impair or impede Seller's purpose under this Agreement or with respect to the System. If Purchaser breaches its obligations under this Section, it shall immediately notify Seller in writing, shall promptly cause such Lien to be discharged and released of record without cost to Seller, and shall indemnify Seller against all costs and expenses (including reasonable attorneys' fees and court costs at trial and on appeal) incurred in discharging and releasing such Lien.

(c) Consents and Approvals. Purchaser shall comply with Applicable Law in connection with providing Seller with reasonable access to the Premises and in performing any of its obligations under this Agreement. Purchaser shall ensure that any authorizations required in order to enter into this Agreement and make the Premises available to Seller for the purposes of this Agreement, are obtained or provided in a timely manner. To the extent that only Purchaser is authorized to request, obtain or issue any necessary approvals, Governmental Approvals, rebates or other financial incentives, Purchaser shall reasonably cooperate with Seller to obtain or issue such approvals, Governmental Approvals, rebates or other financial incentives in the name of Seller. Purchaser shall provide to Seller copies of all Governmental Approvals and CCRs applicable to the Premises, other than those obtained by Seller or to which Seller is a party. Seller is responsible for all costs and expenses for such compliance.

(d) Use of System. Purchaser will not use Electrical Energy generated by the System for the purposes of heating a swimming pool within the meaning of Section 48 of the Internal Revenue Code.

(e) Financial Statements. Purchaser shall provide to Seller its publicly available and audited financial statements as requested by Seller within 15 Business Days of Seller's request.

(f) Executed Interconnection Agreement. Purchaser shall execute an interconnection agreement and all other documentation required by CAISO to the reasonable satisfaction of the Seller.

8. REPRESENTATIONS & WARRANTIES.

8.1 Representations and Warranties of Both Parties. In addition to any other representations and warranties contained in this Agreement, each Party represents and warrants to the other as of the Effective Date that:

- (a) it is duly organized and validly existing and in good standing in the jurisdiction of its organization;
- (b) it has the full right and authority to enter into, execute, deliver, and perform its obligations under this Agreement;
- (c) it has taken all requisite corporate or other action to approve the execution, delivery, and performance of this Agreement;
- (d) this Agreement constitutes its legal, valid and binding obligation enforceable against such Party in accordance with its terms, except as may be limited by applicable bankruptcy, insolvency, reorganization, moratorium, and other similar laws now or hereafter in effect relating to creditors' rights generally;
- (e) to its actual knowledge, there is no litigation, action, proceeding or investigation pending or threatened before any court or other Governmental Authority by, against, affecting or involving any of its business or assets that could reasonably be expected to adversely affect its ability to carry out the transactions contemplated herein; and
- (f) its execution and performance of this Agreement and the transactions contemplated hereby do not and will not constitute a breach of any term or provision of, or a default under, (i) any contract, agreement or Governmental Approval to which it or any of its Affiliates is a party or by which it or any of its Affiliates or its or their property is bound, (ii) its organizational documents, or (iii) any Applicable Laws.

8.2 Representations of Purchaser. Purchaser represents and warrants to Seller as of the Effective Date that:

- (a) Purchaser has been advised that part of the collateral securing the financial arrangements for the System may be the granting of a first priority perfected security interest (the "Security Interest") in the System to a Financing Party;

(b) the granting of the Security Interest will not violate any term or condition of any covenant, restriction, lien, financing agreement, or security agreement affecting the Premises;

(c) no existing lease, mortgage, security interest or other interest in or lien upon the Premises exists that could attach to the System as an interest adverse to Seller's Financing Party's Security Interest therein;

(d) there exists no event or condition which constitutes a default, or would, with the giving of notice or lapse of time, constitute a default under this Agreement; and

(f) Purchaser has no actual knowledge the Premises is not in compliance with Environmental Laws.

8.3 **NO OTHER WARRANTIES.** THE WARRANTIES SET FORTH IN SECTIONS 8.1 AND 8.2 OF THIS AGREEMENT ARE PURCHASER'S SOLE AND EXCLUSIVE BASIS FOR ANY CLAIM OR LIABILITY ARISING OUT OF OR IN CONNECTION WITH THIS SECTION 8, WHETHER ARISING IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE. OTHER THAN AS EXPRESSLY SET FORTH IN SECTIONS 8.1 AND 8.2, NO WARRANTY, WHETHER STATUTORY, WRITTEN, ORAL, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, APPLIES UNDER THIS AGREEMENT.

9. TAXES AND GOVERNMENTAL FEES.

9.1 **Purchaser's Taxes.** Purchaser is responsible for the payment of, or reimbursement of Seller, for all taxes, fees, or charges assessed on the generation, sale, delivery or consumption of Electrical Energy produced by the System. Seller shall notify Purchaser in writing with a detailed statement of such amounts, which shall be invoiced by Seller and payable by Purchaser.

9.2 **Seller's Taxes.** Seller is responsible for: (1) payment of income taxes or similar taxes imposed on Seller's revenues due to the sale of Electrical Energy under this Agreement; and (2) personal property taxes imposed on the System.

10. FORCE MAJEURE.

10.1 **Definition.** "Force Majeure Event" means any act or event that prevents the affected Party from performing its obligations in accordance with this Agreement, if such act or event is beyond the reasonable control, and not the result of the fault or negligence, of the affected Party and such Party had been unable to overcome such act or event with the exercise of due diligence (including the expenditure of reasonable sums), including, without limitation, the following acts or events: (i) natural phenomena, such as storms, hurricanes, floods, lightning, volcanic eruptions and earthquakes; (ii) explosions or fires arising from lightning or other causes unrelated to the acts or omissions of the Party seeking to be excused from performance; (iii) acts of war or public disorders, civil disturbances, riots, insurrection, sabotage, epidemic, terrorist acts, or rebellion; (iv) strikes or labor disputes (except strikes or labor disputes caused solely by employees of Seller or as a result of such party's failure to comply with a collective bargaining agreement); (v) action or inaction by a Governmental Authority, with jurisdiction thereof (unless Purchaser is a Governmental Authority and Purchaser is the Party whose performance is affected by such action or inaction). A Force Majeure Event shall not be based on the economic hardship of either Party, or upon the expiration of any lease of the Premises by the Purchaser from the owner of the Premises.

10.2 **Excused Performance.** Except as otherwise specifically provided in this Agreement, neither Party shall be considered in breach of this Agreement or liable for any delay or failure to comply with this Agreement (other than the failure to pay amounts due hereunder), if and to the extent that such delay or failure is attributable to the occurrence of a Force Majeure Event; provided that the Party claiming relief under this Article 10 shall as soon as practicable after becoming aware of the circumstances constituting Force Majeure (i) notify the other Party in writing of the existence of the Force Majeure Event, (ii) exercise all reasonable efforts necessary to minimize delay caused by such Force Majeure Event, (iii) notify the other Party in writing of the cessation or termination of said Force Majeure Event and (iv) resume performance of its obligations hereunder as soon as practicable thereafter; provided, however, that Purchaser shall not be excused from making any payments and paying any unpaid amounts due in respect of Solar Services delivered to Purchaser prior to the Force Majeure Event performance interruption.

10.3 Termination in Consequence of Force Majeure Event. Notwithstanding anything in this Agreement to the contrary, if a Force Majeure Event shall have occurred that has affected Seller's performance of its obligations hereunder and that has continued for a continuous period of 180 days, then Purchaser shall be entitled to terminate this Agreement upon 90 days' prior written notice to Seller. If at the end of such 90 day period such Force Majeure Event shall still continue, this Agreement shall automatically terminate. Upon such termination for a Force Majeure Event, neither Party shall have any liability to the other (other than any such liabilities that have accrued prior to such termination), and the provisions of Section 2.2(a) (Early Termination) shall be inapplicable.

11. DEFAULT.

11.1 Seller Defaults and Purchaser Remedies.

(a) Seller Defaults. The following events shall be defaults with respect to Seller (each, a "Seller Default"):

(i) A Bankruptcy Event shall have occurred with respect to Seller; and

(ii) Seller breaches any material representation, covenant or other term of this Agreement and (A) if such breach can be cured within 30 days after Purchaser's written notice of such breach and Seller fails to so cure, or (B) Seller fails to commence and pursue a cure within such 30 day period if a longer cure period is needed.

(b) Purchaser's Remedies. If a Seller Default described in Section 11.1(a) has occurred and is continuing, in addition to other remedies expressly provided herein, and subject to Article 12, Purchaser may terminate this Agreement and exercise any other remedy it may have at law or equity or under this Agreement.

(c) No Early Termination Fee. Section 2.2(a) of this Agreement shall not apply to any termination of this Agreement by Purchaser pursuant to this Section 11.1.

11.2 Purchaser Defaults and Seller's Remedies.

(a) Purchaser Default. The following events shall be defaults with respect to Purchaser (each, a "Purchaser Default"):

(i) A Bankruptcy Event shall have occurred with respect to Purchaser;

(ii) Purchaser breaches any material representation, covenant or other term of this Agreement if (A) such breach can be cured within 30 days after Seller's notice of such breach and Purchaser fails to so cure, or (B) Purchaser fails to commence and pursue said cure within such 30 day period if a longer cure period is needed; and

(iii) Purchaser fails to pay Seller any undisputed amount due Seller under this Agreement within 30 days from receipt of notice from Seller of such past due amount.

(b) Seller's Remedies. If a Purchaser Default described in Sections 11.2(a) has occurred and is continuing, in addition to other remedies expressly provided herein, and subject to Article 12, Seller may terminate this Agreement and upon such termination, (A) Seller shall be entitled to receive from Purchaser the Early Termination Fee pursuant to Section 2.2(a), and (B) Seller may exercise any other remedy it may have at law or equity or under this Agreement.

11.3 Removal of System. Upon any termination of this Agreement pursuant to this Article 11, Seller will remove the System pursuant to the Site Control Agreement.

12. LIMITATIONS OF LIABILITY.

12.1 Except as expressly provided herein, neither Party shall be liable to the other Party or its Indemnified Persons for any special, punitive, exemplary, indirect, or consequential damages, losses or damages for lost revenue or lost profits, whether foreseeable or not, arising out of, or in connection with this Agreement.

12.2 A Party's maximum liability to the other Party under this Agreement, shall be limited to the aggregate Estimated Remaining Payments as of the date of the events giving rise to such liability, provided, however, the limits of liability under this Section 12.2 shall not apply with respect to (i) indemnity obligations hereunder in respect of personal injury, intellectual property infringement or environmental claims and (ii) any obligation of Purchaser to pay Solar Service Payments, or the Early Termination Fee.

13. ASSIGNMENT.

13.1 Assignment by Seller. Seller shall not sell, transfer or assign (collectively, an "Assignment") this Agreement or any interest therein, without providing prior written notice to Purchaser. Purchaser acknowledges that Seller may assign this Agreement in connection with development, construction and/or permanent financing facilities, including without limitation structured tax equity and/or securitization financing. In the event that Seller identifies a secured Financing Party in Schedule 1-5 of Exhibit 1 (Special Terms and Conditions), or in a subsequent notice to Purchaser, then Purchaser shall comply with the provisions set forth in Schedule 2-1 of this Exhibit 2 (General Terms and Conditions) and agrees to provide such estoppels and acknowledgments as Seller may reasonably request from time to time. Any Financing Party shall be an intended third-party beneficiary of this Section 13.1.

13.2. Acknowledgment of Collateral Assignment. In the event that Seller identifies a secured Financing Party in Schedule 1-5 of Exhibit 1 (Special Terms and Conditions), or in a subsequent notice to Purchaser, then Purchaser hereby acknowledges:

(a) the collateral assignment by Seller to the Financing Party, of Seller's right, title and interest in, to and under this Agreement, as consented to by Purchaser under Section 13.1 of this Agreement.

(b) that the Financing Party as such collateral assignee shall be entitled to exercise any and all rights of lenders generally with respect to Seller's interests in this Agreement.

(c) that it has been advised that Seller has granted a first priority perfected security interest in the System to the Financing Party and that the Financing Party has relied upon the characterization of the System as personal property, as agreed in this Agreement in accepting such security interest as collateral for its financing of the System.

13.3 Assignment by Purchaser. Purchaser shall not assign this Agreement or any interest therein, without Seller's prior written consent, which consent shall not be unreasonably withheld, conditioned or delayed. Within 90 days of Purchaser providing the Seller with information on credit, interconnection transferability, and any other information reasonably requested by Seller, Seller will provide Purchaser a determination if it consents to such Assignment. Any Assignment by Purchaser without the prior written consent of Seller shall not release Purchaser of its obligations hereunder.

14. NOTICES.

14.1 Notice Addresses. Unless otherwise provided in this Agreement, all notices and communications concerning this Agreement shall be in writing and addressed to the other Party (or Financing Party, as the case may be) at the addresses set forth in Schedule 1-5 of Exhibit 1 (Special Terms and Conditions), or at such other address as may be designated in writing to the other Party from time to time. In the event a Party (including a Financing Party) desires to change the notice address, the Party desiring such change shall provide written notice to all other Parties of such change.

14.2 Notice. Unless otherwise provided herein, any notice provided for in this Agreement shall be hand delivered, sent by registered or certified U.S. Mail, postage prepaid, or by commercial overnight delivery service, or transmitted by email (with PDF notice attached) and shall be deemed delivered to the addressee or its office when received at the address for notice specified above when hand delivered, upon confirmation of sending when sent by email (if sent during normal business hours or the next Business Day if sent at any other time), on the Business Day after being sent when sent by overnight delivery service (Saturdays, Sundays and legal holidays excluded), or five Business Days after deposit in the mail when sent by U.S. mail.

14.3 Address for Invoices. All invoices under this Agreement shall be sent to the address provided by Purchaser. Invoices shall be sent by regular first class mail postage prepaid.

15. RESERVED.

16. INDEMNITY.

16.1 General. Each Party (the "Indemnifying Party") shall defend, indemnify and hold harmless the other Party, its affiliates and the other Party's and its affiliates' respective directors, officers, shareholders, partners, members, agents and employees (collectively, the "Indemnified Parties"), from and against any loss, damage, expense, liability and other claims, including court costs and reasonable attorneys' fees (collectively, "Liabilities") resulting from (1) any Claim (as defined in Section 16.2 relating to the Indemnifying Party's breach of any representation or warranty set forth in Section 8 and (2) injury to or death of persons, and damage to or loss of property to the extent caused by or arising out of the negligent acts or omissions of, or the willful misconduct of, the Indemnifying Party (or its contractors, agents or employees) in connection with this Agreement; provided, however, that nothing herein will require the Indemnifying Party to indemnify the Indemnified Parties for any Liabilities to the extent caused by or arising out of the negligent acts or omissions of, or the willful misconduct of, an Indemnified Party. This Section 16.1 does not apply to Liabilities arising out of or relating to any form of Hazardous Materials or other environmental contamination, such matters being addressed exclusively by Section 16.3.

16.2 Notice and Participation in Third Party Claims. The Indemnified Party shall give the Indemnifying Party written notice with respect to any Liability asserted by a third party (a "Claim"), as soon as possible upon the receipt of information of any possible Claim or of the commencement of such Claim. The Indemnifying Party may assume the defense of any Claim, at its sole cost and expense, with counsel designated by the Indemnifying Party and reasonably satisfactory to the Indemnified Party. The Indemnified Party may, however, select separate counsel if both Parties are defendants in the Claim and such defense or other form of participation is not reasonably available to the Indemnifying Party. The Indemnifying Party shall pay the reasonable attorneys' fees incurred by such separate counsel until such time as the need for separate counsel expires. The Indemnified Party may also, at the sole cost and expense of the Indemnifying Party, assume the defense of any Claim if the Indemnifying Party fails to assume the defense of the Claim within a reasonable time. Neither Party may settle any Claim covered by this Section 16.2 unless it has obtained the prior written consent of the other Party, which consent shall not be unreasonably withheld or delayed. The Indemnifying Party has no liability under this Section 16.2 for any Claim for which such notice is not provided if the failure to give notice prejudices the Indemnifying Party.

16.3 Environmental Indemnification.

(a) Seller shall indemnify, defend and hold harmless all of Purchaser's Indemnified Parties from and against all Liabilities arising out of or relating to the existence at, on, above, below or near the Premises of any Hazardous Materials to the extent deposited, spilled or otherwise caused by Seller or any of its contractors, agents or employees.

(b) Purchaser shall indemnify, defend and hold harmless all of Seller's Indemnified Parties from and against all Liabilities arising out of or relating to the existence at, on, above, below or near the Premises of any Hazardous Materials to the extent deposited, spilled or otherwise caused by Purchaser or any of its contractors, agents or employees.

17. INSURANCE.

17.1 Generally. Seller shall maintain the following insurance coverages in full force and effect throughout the Term either through insurance policies or acceptable self-insured retentions: (a) Workers' Compensation Insurance as may be from time to time required under applicable federal and state law and (b) Commercial General Liability Insurance with limits of not less than \$2,000,000 general aggregate, \$1,000,000 per occurrence. Additionally, Seller shall carry adequate property loss insurance on the System which need not be covered by Purchaser's property coverage. The amount and terms of property insurance coverage will be determined at Seller's sole discretion. Purchaser shall maintain insurance coverage as set forth in Exhibit 1 (Special Terms and Conditions). It is understood that all such insurance shall be independent and not tied to any indemnity provision. It is the intention of the parties that the additional insured coverage to be provided hereunder shall provide primary and first dollar coverage. In addition, it is understood and agreed that Seller's obtaining or failure to obtain the required insurance shall in no way relieve Seller from its indemnity obligations hereunder. Further, Seller's indemnity obligations shall extend to the full amount of any damage, loss or liability described in the indemnity provisions of this Agreement, and the Seller's indemnity obligations shall not be limited to the amount of insurance obtained or required. Failure of Seller to obtain and maintain insurance provided herein shall be deemed a Seller Default pursuant to Section 11.1, and Purchaser shall be entitled to relief as set forth therein. Seller shall cause each contractor, subcontractor, material supplier,

and/or its agents employed/engaged by Seller to purchase and maintain insurance of the type coverage and with limits specified above.

17.2 Certificates of Insurance. Each Party, upon request, shall furnish current certificates evidencing that the insurance required under Section 17.1 is being maintained. Each Party's insurance policy provided hereunder shall contain a provision whereby the insured agrees to give the other Party 30 days' written notice before the insurance is cancelled or materially altered.

17.3 Additional Insureds. Each Party's insurance policy shall be written on an occurrence basis and shall include the other Party as an additional insured as its interest may appear.

17.4 Insurer Qualifications. All insurance maintained hereunder shall be maintained with companies either rated no less than A- as to Policy Holder's Rating in the current edition of Best's Insurance Guide (or with an association of companies each of the members of which are so rated) or having a parent company's debt to policyholder surplus ratio of 1:1.

18. MISCELLANEOUS.

18.1 Integration; Exhibits. The Agreement, together with the Exhibits and Schedules attached thereto or incorporated by reference, constitute the entire agreement and understanding between Seller and Purchaser with respect to the subject matter thereof and supersedes all prior agreements relating to the subject matter hereof which are of no further force or effect. The Exhibits and Schedules attached to this Agreement, including these General Conditions as incorporated by reference, are integral parts of this Agreement and are an express part of this Agreement. In the event of a conflict between the provisions of these General Conditions and any applicable Special Conditions, the provisions of Exhibit 1 (Special Terms and Conditions) shall prevail.

18.2 Amendments. This Agreement may only be amended, modified or supplemented by an instrument in writing executed by duly authorized representatives of Seller and Purchaser.

18.3 Industry Standards. Except as otherwise set forth herein, for the purpose of this Agreement the normal standards of performance within the solar photovoltaic power generation industry in the relevant market shall be the measure of whether a Party's performance is reasonable and timely. Unless expressly defined herein, words having well-known technical or trade meanings shall be so construed.

18.4 EXCLUSIVE REMEDIES. TO THE EXTENT THAT THIS AGREEMENT SETS FORTH SPECIFIC REMEDIES FOR ANY CLAIM OR LIABILITY, SUCH REMEDIES ARE THE AFFECTED PARTY'S SOLE AND EXCLUSIVE REMEDIES FOR SUCH CLAIM OR LIABILITY, WHETHER ARISING IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE.

18.5 Sovereign Immunity. To the extent permitted by Applicable Law, Purchaser hereby waives any defense of sovereign immunity that Purchaser might otherwise have in connection with any action taken by Seller to enforce its rights against Purchaser under this Agreement.

18.6 Limited Effect of Waiver. The failure of Seller or Purchaser to enforce any of the provisions of this Agreement, or the waiver thereof, shall not be construed as a general waiver or relinquishment on its part of any such provision, in any other instance or of any other provision in any instance.

18.7 Survival. The obligations under Sections 2.2 (Early Termination), 2.5 (Removal of System), Section 7.1(d) (Seller Covenant), Sections 7.2(d), (e), (f), (g) and (j) (Purchaser Covenants), Section 8.3 (Exclusion of Warranties), Article 9 (Taxes and Governmental Fees), Article 12 (Limitation of Liability), Article 14 (Notices), Article 15 (Confidentiality), Article 16 (Indemnity), Article 18 (Miscellaneous), or pursuant to other provisions of this Agreement that, by their sense and context, are intended to survive termination of this Agreement shall survive the expiration or termination of this Agreement for any reason.

18.8 Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of California without reference to any choice of law principles.

18.9 Severability. If any term, covenant or condition in this Agreement shall, to any extent, be invalid or unenforceable in any respect under Applicable Law, the remainder of this Agreement shall not be affected thereby, and each term, covenant or condition of this Agreement shall be valid and enforceable to the fullest extent permitted by Applicable Law and, if appropriate, such invalid or unenforceable provision shall be modified or replaced to give effect to the underlying intent of the Parties and to the intended economic benefits of the Parties.

18.10 Relation of the Parties. The relationship between Seller and Purchaser shall not be that of partners, agents, or joint ventures for one another, and nothing contained in this Agreement shall be deemed to constitute a partnership or agency agreement between them for any purposes, including federal income tax purposes. Seller and Purchaser, in performing any of their obligations hereunder, shall be independent contractors or independent parties and shall discharge their contractual obligations at their own risk.

18.11 Successors and Assigns. This Agreement and the rights and obligations under this Agreement shall be binding upon and shall inure to the benefit of Seller and Purchaser and their respective successors and permitted assigns.

18.12 Counterparts. This Agreement may be executed in one or more counterparts, all of which taken together shall constitute one and the same instrument.

18.13 Electronic Delivery. This Agreement may be duly executed and delivered by a Party by electronic "pdf" delivery of the signature page or DocuSign.

18.14 No Third-Party Beneficiaries. Except as otherwise expressly provided herein, this Agreement and all rights hereunder are intended for the sole benefit of the Parties hereto, and the Financing Parties to the extent provided herein or in any other agreement between a Financing Party and Seller or Purchaser, and do not imply or create any rights on the part of, or obligations to, any other Person.

18.15 Liquidated Damages Not Penalty. Upon early termination, Purchaser acknowledges that the Early Termination Fee constitutes liquidated damages. Purchaser further acknowledges that Seller's actual damages may be impractical and difficult to accurately ascertain, and in accordance with Purchaser's rights and obligations under this Agreement, the Early Termination Fee constitutes fair and reasonable damages to be borne by Purchaser in lieu of Seller's actual damages.

[Remainder of page intentionally left blank.]

Schedule 2-1

Certain Agreements for the Benefit of the Financing Parties

Purchaser acknowledges that Seller will be receiving financing accommodations from one or more Financing Parties and that Seller may sell or assign the System or this Agreement and/or may secure Seller's obligations by, among other collateral, a pledge or collateral assignment of this Agreement and a first security interest in the System. In order to facilitate such necessary sale, conveyance, or financing, and with respect to any such Financing Party, Purchaser agrees as follows:

(a) Consent to Collateral Assignment. Purchaser consents to either the assignment, sale or conveyance to a Financing Party or the collateral assignment by Seller to a Financing Party, of Seller's right, title and interest in and to this Agreement.

(b) Notices of Default. Purchaser will deliver to the Financing Party, concurrently with delivery thereof to Seller, a copy of each notice of default given by Purchaser under this Agreement, inclusive of a reasonable description of Seller default. No such notice will be effective absent delivery to the Financing Party. Purchaser will not mutually agree with Seller to cancel, modify or terminate this Agreement without the written consent of the Financing Party.

(c) Rights Upon Event of Default. Notwithstanding any contrary term of this Agreement:

(i) The Financing Party, shall be entitled to exercise, in the place and stead of Seller, any and all rights and remedies of Seller under this Agreement in accordance with the terms of this Agreement and only in the event of Seller's or Purchaser's default. The Financing Party shall also be entitled to exercise all rights and remedies of secured parties generally with respect to this Agreement and the System.

(ii) The Financing Party shall have the right, but not the obligation, to pay all sums due under this Agreement and to perform any other act, duty or obligation required of Seller thereunder or cause to be cured any default of Seller thereunder in the time and manner provided by the terms of this Agreement. Nothing herein requires the Financing Party to cure any default of Seller under this Agreement or (unless the Financing Party has succeeded to Seller's interests under this Agreement) to perform any act, duty or obligation of Seller under this Agreement, but Purchaser hereby gives it the option to do so.

(iii) Upon the exercise of remedies under its security interest in the System, including any sale thereof by the Financing Party, whether by judicial proceeding or under any power of sale contained therein, or any conveyance from Seller to the Financing Party (or any assignee of the Financing Party) in lieu thereof, the Financing Party shall give notice to Purchaser of the transferee or assignee of this Agreement. Any such exercise of remedies shall not constitute a default under this Agreement.

(iv) Upon any default not reasonably susceptible to cure by a Finance Party, including, without limitation, rejection or other termination of this Agreement pursuant to any process undertaken with respect to Seller under the United States Bankruptcy Code, at the request of the Financing Party made within ninety (90) days of such default, Purchaser shall enter into a new agreement with the Financing Party or its designee having the same terms and conditions as this Agreement.

(d) Right to Cure.

(i) Purchaser will not exercise any right to terminate or suspend this Agreement unless it shall have given the Financing Party prior written notice by sending notice to the Financing Party (at the address provided by Seller) of its intent to terminate or suspend this Agreement, specifying the condition giving rise to such right, and the Financing Party shall not have caused to be cured the condition giving rise to the right of termination or suspension within thirty (30) days after such notice or (if longer) the periods provided for in this Agreement. The Parties agree that the cure rights described herein are in addition to and apply and commence following the expiration of any notice and cure period applicable to Seller. The Parties respective obligations will otherwise remain in effect during any cure period; provided that if such Seller default reasonably cannot be cured by the Financing Party within such period and

the Financing Party commences and continuously pursues cure of such default within such period, such period for cure will be extended for a reasonable period of time under the circumstances, such period not to exceed additional ninety (90) days.

(ii) If the Financing Party (including any purchaser or transferee), pursuant to an exercise of remedies by the Financing Party, shall acquire title to or control of Seller's assets and shall, within the time periods described in Sub-section (c)(i) above, cure all defaults under this Agreement existing as of the date of such change in title or control in the manner required by this Agreement and which are capable of cure by a third person or entity, then such person or entity shall no longer be in default under this Agreement, and this Agreement shall continue in full force and effect

(e) Release and Waiver; Financing Agreement Defaults. Until such time as all of Seller's obligations to any Financing Party under an agreement between Seller and a Financing Party (a "Financing Agreement") (excluding contingent indemnification and reimbursement obligations that, by their express terms, survive the repayment of the loans, interest, fees and other amounts owed under said Financing Agreement) have been paid in full, Purchaser hereby waives, releases and relinquishes to said Financing Party all right, title, interest, claim and lien which Purchaser has or may in the future have, under any and all applicable laws, including statutory rights, in, to or against the System. The System shall not be subject to levy, sale on distress or distraint for rent or any claim, lien or demand of any kind by Purchaser. If an event of default occurs and is continuing under a Financing Agreement, Purchaser agrees that the affected Financing Party has the right to (i) enter the Premises to remove or dispose of the System at any time; (ii) take possession of and succeed to all of Seller's right, title and interest under this Agreement, including the right to operate the System, and/or (iii) prepare the System for sale and/or conduct a sale or liquidation of the System on the Premises and/or store the System on the Premises for a reasonable period in connection therewith. The Financing Party shall not be liable for rental storage charges under this Agreement or otherwise; provided, however, that said Financing Party agrees to remove or abandon the System in accordance with the requirements of Section 2.5 of this Agreement, which expressly requires that said Financing Party: (i) remove of all of the tangible property comprising the System from the Premises on a mutually convenient date but in no case later than ninety (90) days after the Termination Date; (ii) return the Premises to its original condition, including removal of all System mounting pads or other support structures, except for ordinary wear and tear; (iii) leave the Premises in neat and clean order. For the avoidance of doubt, the Financing Party would not be required to replace or reconstruct any improvements removed or demolished by the Seller or Purchaser during construction or maintenance of the System. If said Financing Party fails to remove or commence substantial efforts to remove the System by such agreed upon date, Purchaser shall have the right, at its option, to remove the System to a public warehouse and restore the Premises to its original condition (including all System mounting pads or other support structures) at said Financing Party's reasonable cost. Nothing herein or elsewhere shall be deemed to prevent or limit a Financing Party, at its option, from abandoning any part of the System. Purchaser agrees that any action taken by a Financing Party to exercise its remedies under a Financing Agreement shall not constitute a default or event of default under this Agreement, and this Agreement shall continue in full force and effect following the exercise of such remedies. Any assignment of the membership interests in the Seller shall constitute a permitted assignment under this Agreement and this Agreement shall continue in full force and effect following such assignment, without the requirement of any further documentation regarding such assignment between Seller and Purchaser.