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,

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

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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 c/kWh in the budget to an actual rate of 16.21 c/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 PWPRA'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. PWPRA 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 $1/14^{th}$.

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. PWPRA 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.

APPENDIX A

ANNUAL AND MONTHLY RECONCILIATION DOCUMENTS

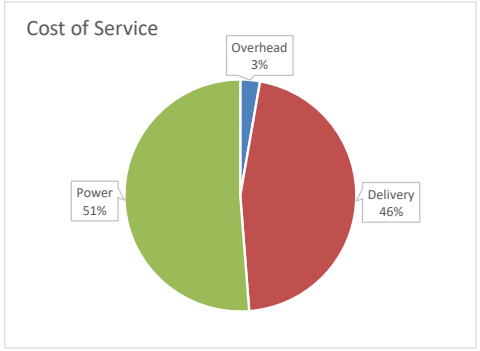
Power Water Resources Pooling Authority
January - December 2022

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%

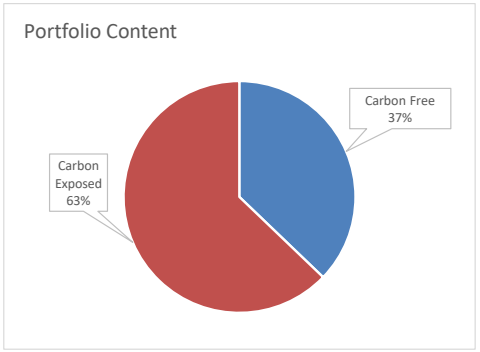
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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***



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%*		



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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

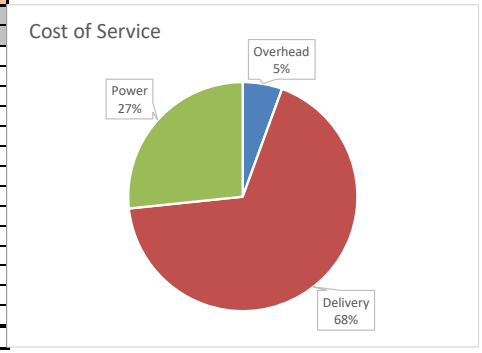
Power Water Resources Pooling Authority
January 2022

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%

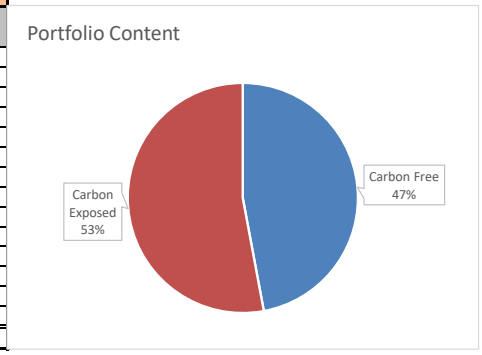
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

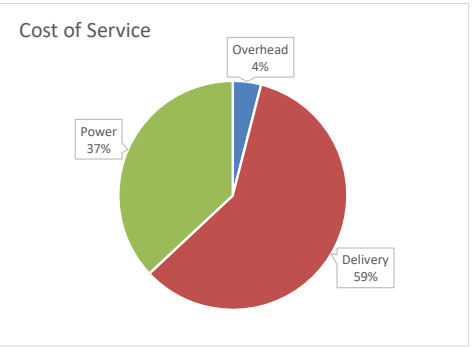
Power Water Resources Pooling Authority
February 2022

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%

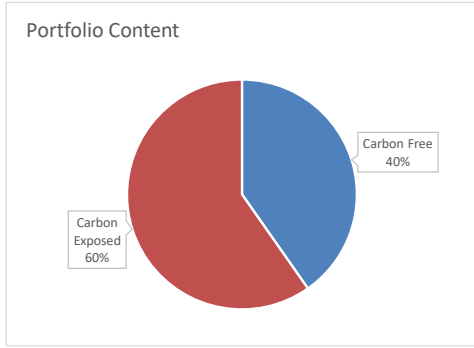
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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***



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%*		



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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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)

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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

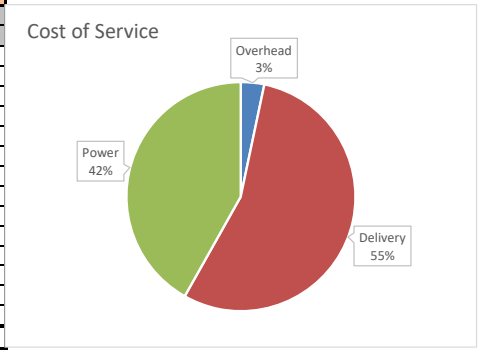
Power Water Resources Pooling Authority
March 2022

Operations Reconciliation Summary: March 2022

Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			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	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%

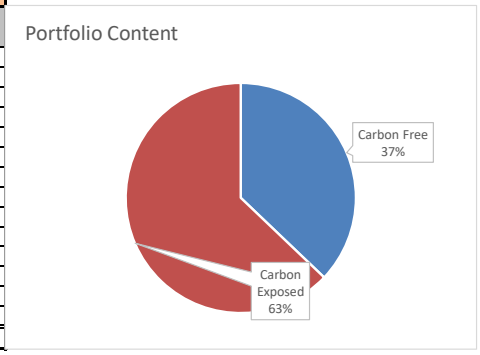
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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***



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%*		



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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

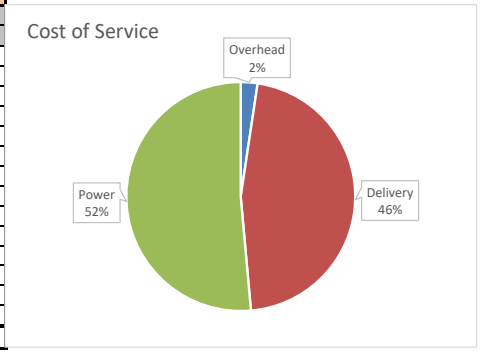
Power Water Resources Pooling Authority
April 2022

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%

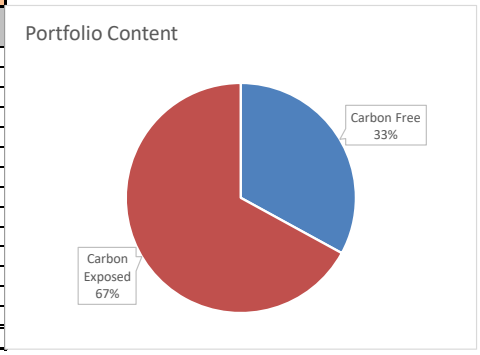
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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***



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%*		



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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

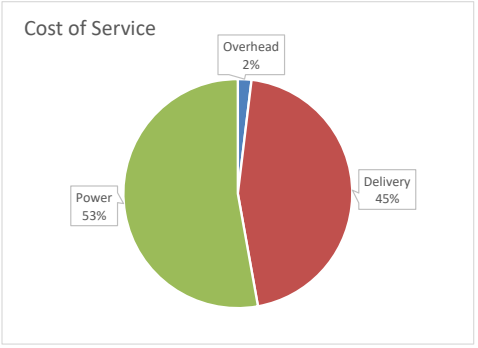
Power Water Resources Pooling Authority
May 2022

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%

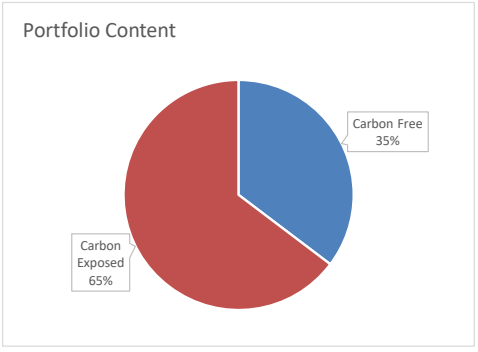
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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***



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%*		



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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)

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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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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)

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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

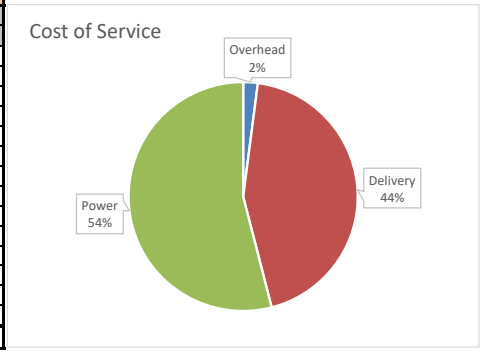
Power Water Resources Pooling Authority
June 2022

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	$ 24,573	$ -	$ (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%

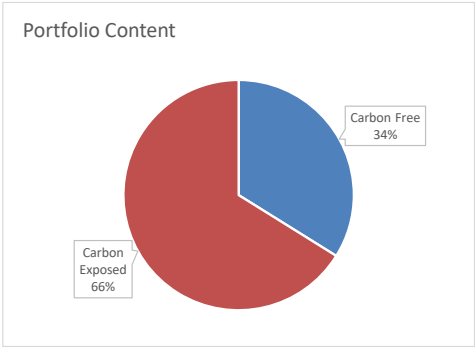
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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***



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%*		



June 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	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)

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	828,498	$ (71,754)	1,527,997	$ (180,990)	$ (14,858)	16,758	$ 1,752	$ (1,753)	$ 233,193	$ 1,189	2,373,254	$ (33,222)	$ 99.50	$ (113.50)
Banta-Carbona	102,181	$ (8,850)	188,452	$ (22,322)	$ (1,831)	1,764	$ 185	$ (185)	$ 28,760	$ 147	292,397	$ (4,095)	$ 99.49	$ (113.50)
Cawelo	49,071	$ (4,250)	90,501	$ (10,720)	$ (882)	1,308	$ 137	$ (136)	$ 13,812	$ 70	140,879	$ (1,969)	$ 99.51	$ (113.49)
Glenn-Colusa	92,322	$ (7,996)	170,270	$ (20,168)	$ (1,577)	(10,674)	$ (1,081)	$ 1,027	$ 25,985	$ 132	251,918	$ (3,677)	$ 99.38	$ (113.98)
James	19,549	$ (1,693)	36,054	$ (4,271)	$ (353)	804	$ 84	$ (83)	$ 5,502	$ 28	56,407	$ (786)	$ 99.53	$ (113.46)
Lower Tule	25,242	$ (2,186)	46,554	$ (5,514)	$ (427)	(3,626)	$ (356)	$ 322	$ 7,105	$ 36	68,169	$ (1,021)	$ 99.53	$ (114.50)
Princeton	20,711	$ (1,794)	38,197	$ (4,524)	$ (61)	(49,090)	$ (5,185)	$ 5,241	$ 5,829	$ 30	9,819	$ (464)	$ 68.66	$ (115.94)
RD108	16,545	$ (1,433)	30,514	$ (3,614)	$ (296)	200	$ 21	$ (21)	$ 4,657	$ 24	47,260	$ (663)	$ 99.49	$ (113.51)
Santa Clara	41,724	$ (3,614)	76,952	$ (9,115)	$ (756)	2,127	$ 222	$ (221)	$ 11,744	$ 60	120,804	$ (1,680)	$ 99.55	$ (113.46)
Sonoma	76,303	$ (6,608)	140,726	$ (16,669)	$ (1,386)	4,392	$ 460	$ (458)	$ 21,477	$ 109	221,421	$ (3,075)	$ 99.57	$ (113.45)
West Stan	143,607	$ (12,437)	264,855	$ (31,372)	$ (2,567)	1,528	$ 157	$ (153)	$ 40,420	$ 206	409,989	$ (5,745)	$ 99.48	$ (113.49)
Westlands	1,380,834	$ (119,590)	2,546,668	$ (301,651)	$ (24,797)	33,252	$ 3,473	$ (3,449)	$ 388,656	$ 1,981	3,960,755	$ (55,377)	$ 99.50	$ (113.49)
Westside	55,235	$ (4,784)	101,869	$ (12,066)	$ (986)	344	$ 36	$ (36)	$ 15,547	$ 79	157,448	$ (2,210)	$ 99.47	$ (113.51)
Zone 7	6,176	$ (535)	11,390	$ (1,349)	$ (116)	914	$ 95	$ (95)	$ 1,738	$ 9	18,480	$ (252)	$ 99.69	$ (113.33)
PWRPA	2,858,000	$ (247,524)	5,271,000	$ (624,346)	$ (50,893)	0	$ (0)	$ (0)	$ 804,426	$ 4,101	8,129,000	$ (114,237)	$ 99.46	$ (113.51)
		(86.61)		(118.45)										

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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

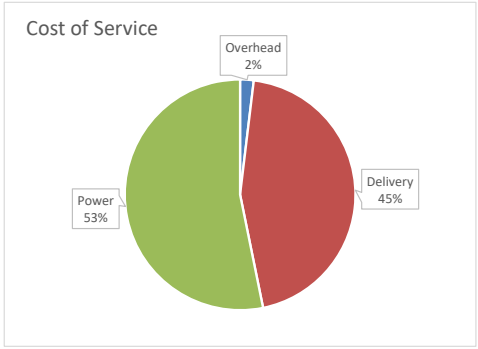
Power Water Resources Pooling Authority
July 2022

Operations Reconciliation Summary: July 2022

Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			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	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%

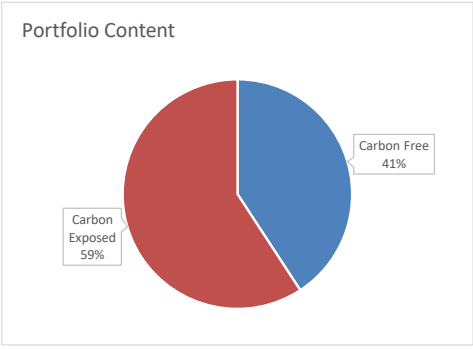
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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***



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%*		



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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

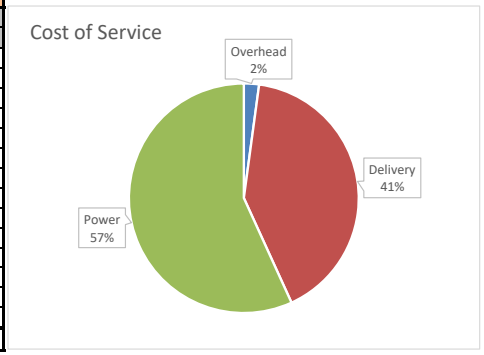
Power Water Resources Pooling Authority
August 2022

Operations Reconciliation Summary: August 2022

Participant	DLF Adjusted Energy (kWh)	Overhead			Delivery			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	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%

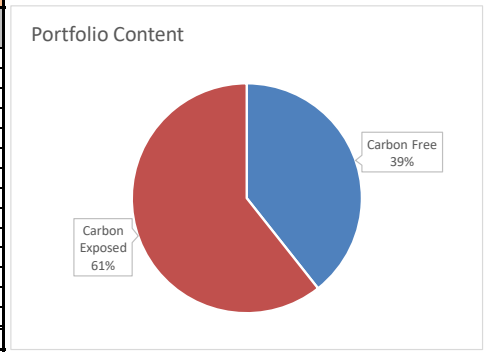
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

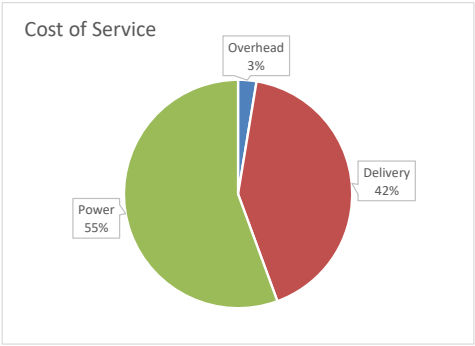
Power Water Resources Pooling Authority
September 2022

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%

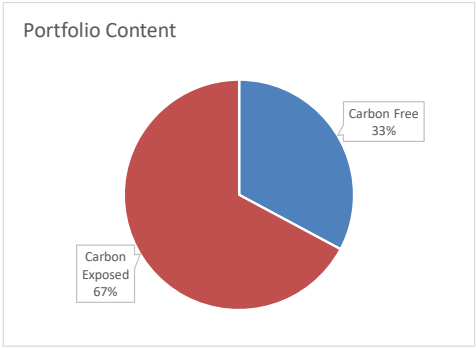
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

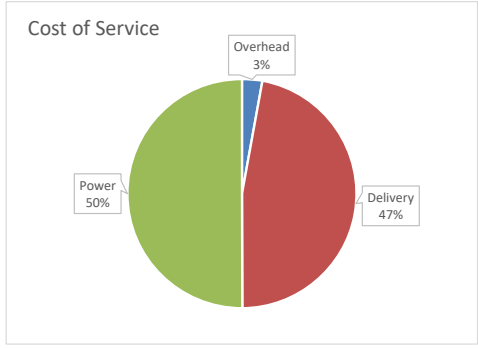
Power Water Resources Pooling Authority
October 2022

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%

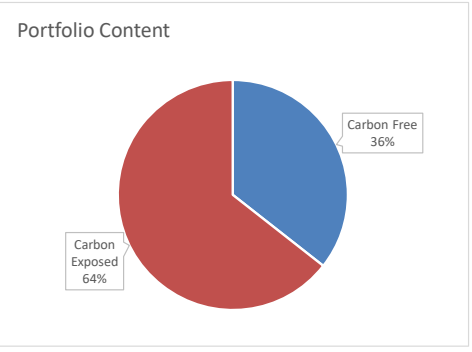
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

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%*		



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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)

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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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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)

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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

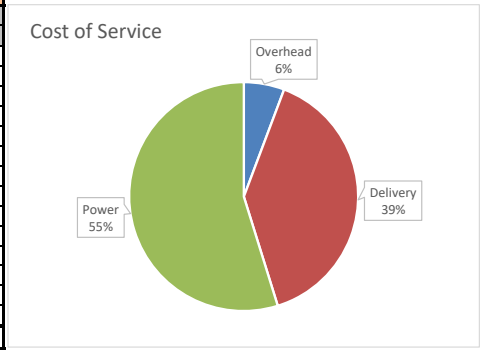
Power Water Resources Pooling Authority
November 2022

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	$ 21,910	$ 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%

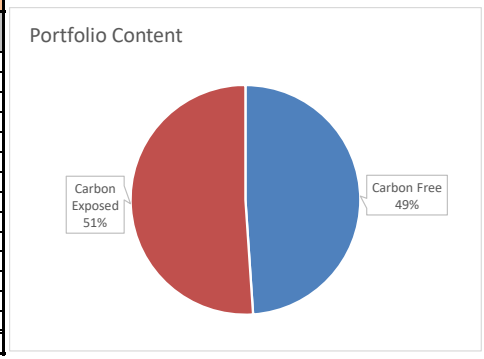
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

Participant	Metered Energy (kWh)	Cents per kWh						
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate
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***



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%*		



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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

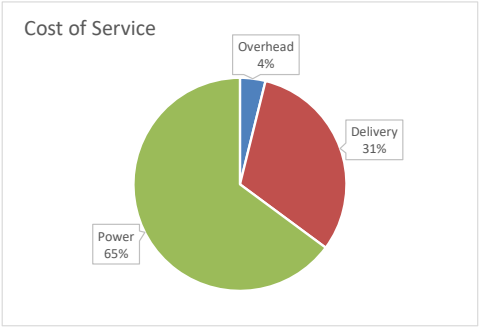
Power Water Resources Pooling Authority
December 2022

Operations Reconciliation Summary: December 2022

Participant	DLF Adjusted Energy (kWh)	Overhead			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	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%

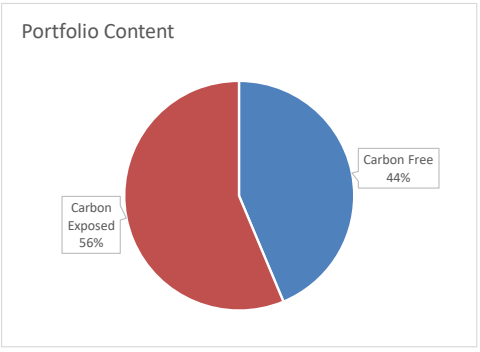
Summary of Costs as a Rate per Metered Energy (Cents per kWh)

Participant	Metered Energy (kWh)	Cents per kWh						
		Overhead	Distribution	Transmission	Grid Mgmt	Load	Power Resources	Composite Rate
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***



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%*		



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 ($)	Battery Energy (kWh)	Battery Cost ($)	Batery 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

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
ACES Power Marketing													
ASA: Utility Mgmt & Ops	$25,000.00	$25,000.00	$25,000.00	$25,000.00	$25,000.00	$25,000.00	$25,000.00	$25,000.00	$25,000.00	$25,000.00	$25,000.00	$25,000.00	$300,000.00
Vendor Total	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$25,000.00**	**$300,000.00**
AEWSD													
JPA	$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
ASA: Utility Mgmt	$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
Vendor Total	**$5,128.82**	**$6,550.28**	**$13,283.20**	**$10,961.21**	**$6,049.16**	**$7,359.04**	**$7,761.55**	**$8,631.80**	**$4,256.39**	**$5,518.67**	**$5,483.89**	**$4,899.63**	**$85,883.64**
APX - Astoria													
2022 Charges - Settlement	($48,706.76)	($34,124.41)	($45,937.95)	($90,047.82)	($110,879.83)	($178,154.60)	($216,647.84)	($289,982.28)	($235,119.01)	($109,999.46)	($89,894.69)	($253,880.24)	($1,703,374.91)
2021 Recon													($28,763.80)
2022 Closed Year													($75.46)
2023 (forward year)													($177,311.13)
Vendor Total	**($48,706.76)**	**($34,124.41)**	**($45,937.95)**	**($90,047.82)**	**($110,879.83)**	**($178,154.60)**	**($216,647.84)**	**($289,982.28)**	**($235,119.01)**	**($109,999.46)**	**($89,894.69)**	**($253,880.24)**	**($1,909,525.30)**
BBMS													
Utility Mgmt	$288.80	$764.92	$428.90	$361.86	$1,575.00	$275.81	$69.79	$126.22	$455.38	$349.32	$426.96		$5,122.96
Vendor Total	**$288.80**	**$764.92**	**$428.90**	**$361.86**	**$1,575.00**	**$275.81**	**$69.79**	**$126.22**	**$455.38**	**$349.32**	**$426.96**	**-**	**$5,122.96**
Board of Equalization													
BOE	$4,853.00	$4,853.00	$4,853.00	$15,346.00	$15,346.00	$15,346.00	$17,802.67	$17,802.67	$17,802.67	$9,560.33	$9,560.33	$9,560.33	$142,686.00
Vendor Total	**$4,853.00**	**$4,853.00**	**$4,853.00**	**$15,346.00**	**$15,346.00**	**$15,346.00**	**$17,802.67**	**$17,802.67**	**$17,802.67**	**$9,560.33**	**$9,560.33**	**$9,560.33**	**$142,686.00**
CAISO													
Grid Mgmt	$6,133.04	$12,457.70	$18,723.27	$23,849.05	$29,565.74	$29,486.83	$29,504.30	$23,812.32	$19,567.32	$18,055.23	$9,302.25	$6,566.45	$227,023.50
FERC	$1,069.68	$2,493.03	$3,578.26	$4,728.24	$5,883.67	$6,047.42	$10,894.28	$4,819.33	$3,855.64	$3,555.01	$1,550.35	$1,032.22	$49,507.13
Market	$552,346.06	$1,114,759.15	$1,565,093.72	$2,756,464.49	$3,499,217.06	$4,170,367.22	$3,297,984.11	$3,963,247.12	$3,811,013.07	$2,138,827.86	$609,932.26	$2,484,807.53	$29,964,059.65
Other: TFR, RC West, NERC/WECC	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$40,304.61
Closed Year													$17,132.62
CRR Collateral - 6799	$9,249.66	-	$31,413.52	$117,078.00	$48,235.10	$42,563.86	-	$18,308.71	$35,115.07	$39,072.74	$776,500.77	$4,059.05	$1,121,596.48
CRR Collateral - 6799 Reversal	($9,249.66)	-	($31,413.52)	($117,078.00)	($48,235.10)	($42,563.86)	-	($18,308.71)	($35,115.07)	($39,072.74)	($776,500.77)	($4,059.05)	($1,121,596.48)
Transmission	$380,660.11	$903,684.98	$1,279,430.74	$1,711,965.95	$2,166,700.48	$2,261,119.91	$2,112,576.11	$1,783,399.77	$1,416,837.73	$1,259,999.21	$548,302.23	$351,889.67	$16,176,566.89
Vendor Total	**$943,567.61**	**$2,036,753.58**	**$2,870,184.71**	**$4,500,366.45**	**$5,704,725.67**	**$6,470,380.10**	**$5,454,317.52**	**$5,778,637.26**	**$5,254,632.48**	**$3,423,796.03**	**$1,172,445.81**	**$2,847,654.59**	**$46,474,594.40**
Cameron Daniel													
Fixed Fee	$36,350.00	$36,350.00	$36,350.00	$36,350.00	$36,350.00	$36,350.00	$36,350.00	$36,350.00	$36,350.00	$36,350.00	$36,350.00	$36,350.00	$436,200.00
Special Projects / Expenses	$420.00	$210.00	$4,246.65	$2,035.81	$505.30	$2,020.40	$735.06	$970.50	$2,730.00	$128.50	$229.46	$124.50	$14,356.18
WP Buyer Agent	$352.50	$23.50	$658.00	$822.50	$1,081.00	$23.50	$70.50	$728.50	$1,433.50	$352.50			$5,546.00
Direct Consulting (District Specific)	$2,100.00	$600.00	$1,740.00	$1,470.00	$600.00	$750.00	$4,380.00	$1,650.00	$3,090.00	$2,370.00	$1,800.00	$240.00	$20,790.00
Vendor Total	**$39,222.50**	**$37,183.50**	**$42,994.65**	**$40,678.31**	**$38,536.30**	**$39,143.90**	**$41,535.56**	**$39,699.00**	**$43,603.50**	**$39,201.00**	**$38,379.46**	**$36,714.50**	**$476,892.18**
Canadian Solar - Slate Solar and BESS													
Solar Contract	$41,102.31	$89,027.28	$93,961.76	$174,574.16	$212,306.01	$192,470.39	$209,110.21	$183,672.95	$152,375.41	$126,524.35	$87,470.08	$37,824.21	$1,600,419.12
Battery Contract	-	-	-	$60,352.36	$63,224.66	$56,434.12	$61,076.38	$56,944.20	$54,874.43	$61,227.76	$67,000.00	$67,000.00	$548,133.91
Closed Year	-	-	-										$6,815.28
Vendor Total	**$41,102.31**	**$89,027.28**	**$93,961.76**	**$234,926.52**	**$275,530.67**	**$248,904.51**	**$270,186.59**	**$240,617.15**	**$207,249.84**	**$187,752.11**	**$154,470.08**	**$104,824.21**	**$2,155,368.31**
District RECs													
Energy	-	-	-	-	-	-	-	-	-	-	-	-	-
Vendor Total	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
East Bay Clean Energy (EBCE)													
Capacity	-	-	-	$50,400.00	$118,750.00	$104,500.00	-	-	-	-	-	-	$273,650.00
Vendor Total	**-**	**-**	**-**	**$50,400.00**	**$118,750.00**	**$104,500.00**	**-**	**-**	**-**	**-**	**-**	**-**	**$273,650.00**
GL Renewables													
Santa Teresa and Penitencia	$3,599.80	$5,744.93	$6,967.28	$3,951.34	$6,754.13	$6,622.54	$5,900.22			$9,789.67	$2,421.65	$1,237.03	$52,988.59
Vendor Total	**$3,599.80**	**$5,744.93**	**$6,967.28**	**$3,951.34**	**$6,754.13**	**$6,622.54**	**$5,900.22**	**-**	**-**	**$9,789.67**	**$2,421.65**	**$1,237.03**	**$52,988.59**
Holland & Knight													
WDT3	$11,401.73	$9,165.08	$3,171.05	$960.12	$2,593.08	$7,104.09	$1,811.04	$9,880.79	$4,542.19	$905.52	$11,306.82	$4,469.01	$67,310.52
Vendor Total	**$11,401.73**	**$9,165.08**	**$3,171.05**	**$960.12**	**$2,593.08**	**$7,104.09**	**$1,811.04**	**$9,880.79**	**$4,542.19**	**$905.52**	**$11,306.82**	**$4,469.01**	**$67,310.52**
McCarty													
Retainer	$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
WDT3	$1,085.00	$2,940.00	$1,960.00	$1,295.00	$175.00	-	-	$2,380.00	-	$490.00	-	-	$10,325.00
Vendor Total	**$4,085.00**	**$5,940.00**	**$4,960.00**	**$4,295.00**	**$3,175.00**	**$3,000.00**	**$3,000.00**	**$5,380.00**	**$3,000.00**	**$3,490.00**	**$3,000.00**	**$3,000.00**	**$46,325.00**
MRP San Joaquin Energy													
Capacity	-	-	-	-	-	-	-	-	-	-	$152,250.00	$105,000.00	$257,250.00
Vendor Total	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**$152,250.00**	**$105,000.00**	**$257,250.00**
NCPA													
Lodi Energy Center													
Invoice - Current Year													$1,055,831.00
2021 Recon													($756,486.00)
Closed Year													$15,197.00
Invoice - 2023 (forward year)													$677,012.00
Category Total	-	-	-	-	-	-	-	-	-	-	-	-	**$991,554.00**
Displacement													
Displacement	-	-	-	($18,525.25)	($38,080.16)	($50,893.32)	($69,671.15)	($52,448.48)	($1,740.34)	($357.54)	-	-	($231,716.24)
Vendor Total	**-**	**-**	**-**	**($18,525.25)**	**($38,080.16)**	**($50,893.32)**	**($69,671.15)**	**($52,448.48)**	**($1,740.34)**	**($357.54)**	**-**	**-**	**$759,837.76**
NextEra													
Whitney Point Solar													
CAISO Settlment	($53,419.37)	($67,780.77)	($55,869.87)	($61,147.41)	($82,237.22)	($182,125.70)	($207,658.97)	($241,885.00)	($258,653.71)	($93,190.67)	($87,614.31)	($139,615.91)	($1,531,198.92)
Contract Overhead	-	-	$8,148.04	$32,819.24	$13,846.74	$2,161.45	$7,163.24	-	$57.07	$841.70	$4,316.86	$167.89	$69,522.22
Negative Interval Credits	($6,544.73)	($10,393.60)	($4,158.94)	-	-	-	-	-	-	-	-	-	($21,097.27)
Energy	$90,458.61	$121,842.17	$153,554.30	$147,476.29	$204,111.07	$214,241.36	$206,829.45	$193,001.87	$155,992.96	$137,904.82	$89,873.29	$46,869.38	$1,762,155.59
Vendor Total	**$30,494.50**	**$43,667.80**	**$101,673.53**	**$119,148.12**	**$135,720.58**	**$34,277.11**	**$6,333.72**	**($48,883.13)**	**($102,603.68)**	**$45,555.85**	**$6,575.84**	**($92,578.64)**	**$279,381.62**
Other													
ADS - Storage boxes	$44.50	$89.00	$44.50	$44.50	$44.50	$44.50	$44.50	$44.50	$44.50	$44.50	$44.50	$44.50	$578.50
Ashday	-	-	-	-	-	-	-	-	$4,960.00	-	-	-	$4,960.00
Auditors			$10,025.00	$5,350.00	$4,300.00	$5,325.00	-	-	-	-	-	-	$25,000.00
Bank Fees	$450.00	$450.00	-	-	-	-	-	-	-	-	-	-	$900.00
BCID	-	-	-	-	-	-	-	-	-	$603.84		$424.64	$1,028.48
CSDA Membership Renewal	-	-	-	-	-	-	-	-	-	-	-	$1,881.00	$1,881.00
CVP Corp Dues	-	-	-	-	-	-	-	-	-	-	-	-	-
Office Supplies	-	-	-	-	-	$183.13	-	-	-	-	-	-	$183.13
SDRMA - Liability Package	-	-	-	-	-	$22,427.53	-	-	-	-	-	-	$22,427.53
Walter Mortensen Ins.	-	-	-	-	$263.00	-	-	-	-	-	-	-	$263.00
Slate delay damages - District Specific	-	($414,000.00)	-	-	-	-	-	-	-		-	-	($414,000.00)
California Demand Response DSGS	-	-	-	-	-	-	-	-	-	-	-	($28,550.00)	($28,550.00)
Wilcox		-	$325.00	-	-	-	-	-	-	-	-	-	$325.00
WREGIS	-	-	-	-	-	-	-	-	-	-	-	$9.44	$9.44
Vendor Total	**$494.50**	**($413,461.00)**	**$10,394.50**	**$5,394.50**	**$4,607.50**	**$27,980.16**	**$44.50**	**$44.50**	**$5,004.50**	**$648.34**	**$44.50**	**($26,190.42)**	**($384,993.92)**
PG&E													
WDT charges	$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	$1,805.51	$1,805.51	$1,805.51	$1,805.51	$1,805.51	$1,805.51	$1,805.51	$1,805.51	$1,833.24	$1,805.51	$1,805.51	$1,805.51	$21,693.85
Direct Consulting - SCVWD	($643.41)				($6,977.73)		$75,000.00						$67,378.86
Vendor Total	**$65,524.59**	**$66,168.00**	**$66,168.00**	**$66,168.00**	**$36,834.67**	**$46,052.63**	**$127,397.49**	**$53,336.94**	**$54,246.30**	**$50,272.91**	**$40,878.46**	**$36,802.71**	**$709,850.70**

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		$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**	**$5,550,388.85**
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
Closed Year					$88,168.19								$88,168.19
Category Total	**$1,615,306.10**	**$1,615,306.10**	**$1,615,306.10**	**$1,615,306.10**	**$1,811,840.96**	**$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**	**$17,693,287.25**
Vendor Total	**$1,908,122.84**	**$1,908,263.27**	**$1,908,079.40**	**$2,283,960.11**	**$2,480,314.81**	**$2,447,872.50**	**$2,350,391.73**	**$2,158,850.13**	**$2,066,889.71**	**$1,632,700.77**	**$1,287,351.71**	**$810,879.12**	**$23,243,676.10**
White Pine/Garlock													
White Pine Solar	$1,371.51	$1,806.45	$2,843.77	$3,608.80	$4,248.41	$4,018.54	$4,142.52	$3,792.28	$2,913.40	$2,324.64	$1,698.48	$1,164.00	$33,932.80
Vendor Total	**$1,371.51**	**$1,806.45**	**$2,843.77**	**$3,608.80**	**$4,248.41**	**$4,018.54**	**$4,142.52**	**$3,792.28**	**$2,913.40**	**$2,324.64**	**$1,698.48**	**$1,164.00**	**$33,932.80**
Power and Operations Invoices	***$3,250,229.05***	***$4,042,082.68***	***$5,394,924.66***	***$7,636,879.39***	***$9,043,568.90***	***$9,590,087.35***	***$8,362,209.89***	***$8,268,458.47***	***$7,643,451.76***	***$5,594,003.73***	***$3,047,673.18***	***$3,814,455.58***	***$76,497,376.14***
VC by Cost Cateogry (Reconciliation)	*$3,386,165.63*	*$4,795,780.02*	*$5,503,217.91*	*$7,751,086.16*	*$9,077,499.40*	*$9,702,972.86*	*$8,389,720.29*	*$8,298,260.69*	*$7,606,732.84*	*$5,675,386.99*	*$3,063,804.77*	*$3,726,813.61*	*$76,977,441.17*
Direct Consulting/District Specific	*$2,061.99*	*-$413,400.00*	*$2,105.14*	*$1,688.66*	*-$6,200.31*	*$853.38*	*$79,756.48*	*$1,697.85*	*$3,119.57*	*$2,370.00*	*$3,665.26*	*$259.35*	*-$322,022.63*
2021 Reconciliation	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*-$785,249.80*
Closed Year	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$88,168.19*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$127,237.63*
2023 (Next Year Costs)	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$0.00*	*$499,700.87*
	($137,998.57)	($340,297.33)	($110,398.39)	($115,895.44)	($115,898.38)	($113,738.89)	($107,266.88)	($31,500.07)	$33,599.35	($83,753.27)	($19,796.85)	$87,382.62	$268.91

*$225 difference for Lodi due to 1 adjustment 4, $10 ISO rounding difference, and around $30 of hourly vs monthly ISO invoice differences.

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	-	-	$2,005.00	$1,070.00	$860.00	$1,065.00	-	-	-	-	-	-	**$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	$4,280.00	$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	$3,023.15	$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**	**$1,501,927.48**	**$1,447,768.46**	**$1,093,289.80**	**$610,691.01**	**$18,247,352.84**
Transmission													
CAISO													
High Voltage	$199,397.14	$464,723.90	$667,021.25	$875,706.56	$1,091,231.78	$1,129,634.95	$1,056,943.49	$899,398.37	$718,727.00	$643,803.65	$280,917.33	$187,131.86	**$8,214,637.26**
Low Voltage	$181,262.96	$438,961.08	$612,409.49	$836,259.39	$1,075,468.70	$1,131,484.97	$1,055,632.62	$884,001.39	$698,110.73	$616,195.57	$267,384.91	$164,757.81	**$7,961,929.62**
Vendor Total	$380,660.10	$903,684.98	$1,279,430.74	$1,711,965.95	$2,166,700.48	$2,261,119.92	$2,112,576.10	$1,783,399.76	$1,416,837.74	$1,259,999.21	$548,302.24	$351,889.67	**$16,176,566.89**
Category Total	**$380,660.10**	**$903,684.98**	**$1,279,430.74**	**$1,711,965.95**	**$2,166,700.48**	**$2,261,119.92**	**$2,112,576.10**	**$1,783,399.76**	**$1,416,837.74**	**$1,259,999.21**	**$548,302.24**	**$351,889.67**	**$16,176,566.89**
***Base Resource**													
WAPA													
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**
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	-	$32.48	**$857.06**
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)**
Overhead	$3,227.88	$3,839.61	$3,966.41	$3,084.97	$5,397.66	$4,100.93	$3,811.70	$5,216.65	$5,139.32	$6,421.69	$7,551.11	$3,118.28	**$54,876.20**
Vendor Total	**$296,044.62**	**$296,796.78**	**$296,739.71**	**$671,738.98**	**$673,871.51**	**$672,554.58**	**$675,697.30**	**$673,273.97**	**$624,320.12**	**$241,626.91**	**$242,491.48**	**$239,852.95**	**$5,605,008.90**
CVP Corp													
Displacement	-	-	-	($18,525.25)	($38,080.16)	($50,893.32)	($69,671.15)	($52,448.48)	($1,740.34)	($357.54)	-	-	**($231,716.24)**
Vendor Total	**-**	**-**	**-**	**($18,525.25)**	**($38,080.16)**	**($50,893.32)**	**($69,671.15)**	**($52,448.48)**	**($1,740.34)**	**($357.54)**	**-**	**-**	**($231,716.24)**
CAISO Settlement													
Import	($27,739.18)	($164,029.41)	($307,383.79)	($356,764.39)	($400,800.62)	($247,523.62)	($334,294.55)	($615,324.22)	($934,370.62)	($355,686.44)	($177,904.92)	($406,722.18)	**($4,328,543.93)**
Displacement	-	-	-	($145,629.36)	($404,198.53)	($624,346.35)	($632,284.05)	($337,436.98)	($13,652.61)	($2,901.05)	-	-	**($2,160,448.95)**
Vendor Total	**($27,739.18)**	**($164,029.41)**	**($307,383.79)**	**($502,393.75)**	**($804,999.15)**	**($871,869.97)**	**($966,578.60)**	**($952,761.20)**	**($948,023.24)**	**($358,587.50)**	**($177,904.92)**	**($406,722.18)**	**($6,488,992.87)**
Category Total	**$268,305.44**	**$132,767.36**	**($10,644.08)**	**$150,819.98**	**($169,207.80)**	**($250,208.71)**	**($360,552.45)**	**($331,935.71)**	**($325,443.46)**	**($117,318.13)**	**$64,586.56**	**($166,869.23)**	**($1,115,700.21)**
District Projects													
Warm Springs Hydro													
Energy	-	-	-	-	-	-	-	-	-	-	-	-	-
CAISO Settlement	-	-	-	-	-	-	-	-	-	-	-	-	-
Overhead	$1,008.27	$984.78	$984.78	$984.78	$984.78	$984.78	$984.78	$987.19	$988.70	$1,061.14	$1,038.67	$988.70	$11,981.34
Vendor Total	**$1,008.27**	**$984.78**	**$984.78**	**$984.78**	**$984.78**	**$984.78**	**$984.78**	**$987.19**	**$988.70**	**$1,061.14**	**$1,038.67**	**$988.70**	$11,981.34
WWD BOR Energy													
Settlement	($3,052.32)	($10,074.97)	($7,537.24)	($26,102.11)	($44,768.78)	($57,185.97)	($74,877.95)	($66,995.67)	($57,224.35)	($17,867.07)	($11,743.88)	($13,066.92)	**($390,497.21)**
Overhead	$1,499.69	$1,502.72	$1,502.72	$1,502.72	$1,502.72	$1,502.72	$1,502.72	$1,505.13	$1,509.67	$1,509.67	$1,509.67	$1,509.67	**$18,059.81**
Vendor Total	**($1,552.63)**	**($8,572.25)**	**($6,034.52)**	**($24,599.39)**	**($43,266.06)**	**($55,683.25)**	**($73,375.23)**	**($65,490.54)**	**($55,714.68)**	**($16,357.40)**	**($10,234.21)**	**($11,557.24)**	**($372,437.40)**
Category Total	**($544.36)**	**($7,587.47)**	**($5,049.74)**	**($23,614.61)**	**($42,281.28)**	**($54,698.47)**	**($72,390.45)**	**($64,503.35)**	**($54,725.97)**	**($15,296.26)**	**($9,195.53)**	**($10,568.54)**	**($360,456.06)**
Special Project: Generation													
Lodi Energy Center													
NCPA - Energy	$122,953.16	$94,378.59	$49,532.64	$49,530.64	$49,532.59	$101,452.12	$168,353.70	$347,596.09	$335,856.15	$232,741.66	$392,443.03	$1,283,542.72	**$3,227,913.09**
Debt	$66,365.75	$66,365.75	$66,365.75	$66,365.80	$66,365.80	$66,365.75	$66,344.00	$66,344.00	$66,344.00	$66,344.00	$66,344.00	$66,344.00	**$796,258.58**
CAISO Settlement	($100,087.00)	($61,513.00)	-	($1.00)	-	($54,079.00)	($127,430.81)	($387,940.30)	($435,771.78)	($215,332.40)	($438,990.20)	($1,437,013.18)	**($3,258,158.66)**
GHG Allowance Transfer	$48,977.00	$241,066.00	-	-	-	-	-	-	-	-	-	-	**$290,043.00**
PWRPA Overhead	$1,783.51	$1,899.29	$2,223.74	$3,032.27	$2,069.16	$2,686.30	$1,910.81	$3,553.41	$1,609.65	$1,715.84	$1,974.86	$1,894.80	**$26,353.63**
Vendor Total	**$139,992.42**	**$342,196.63**	**$118,122.13**	**$118,927.71**	**$117,967.55**	**$116,425.16**	**$109,177.70**	**$29,553.19**	**($31,961.98)**	**$85,469.10**	**$21,771.69**	**($85,231.66)**	$1,082,409.65
Astoria													
Energy	$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**
CAISO Settlement	($48,706.76)	($34,124.41)	($45,937.95)	($90,047.82)	($110,879.83)	($178,154.60)	($216,647.84)	($289,982.28)	($235,119.01)	($109,999.46)	($89,894.69)	($253,880.24)	**($1,703,374.91)**
PWRPA Overhead	$1,124.18	$1,226.25	$1,099.09	$2,344.35	$1,359.49	$1,809.26	$1,909.93	$1,449.68	$1,375.48	$1,215.50	$1,426.08	$1,399.89	**$17,739.19**
Vendor Total	**$56,372.20**	**$101,117.84**	**$124,199.86**	**$105,587.23**	**$107,589.30**	**$39,126.62**	**$1,096.91**	**($88,208.46)**	**($69,976.52)**	**$41,367.04**	**$20,635.44**	**($173,416.78)**	$265,490.69
Whitney Point													
Energy	$90,458.61	$121,842.17	$161,702.34	$180,295.54	$217,957.81	$216,402.81	$213,992.69	$193,001.87	$156,050.03	$138,746.52	$94,190.15	$47,037.27	**$1,831,677.81**
CAISO Settlement	($59,964.10)	($78,174.37)	($60,028.81)	($61,147.41)	($82,237.22)	($182,125.70)	($207,658.97)	($241,885.00)	($258,653.71)	($93,190.67)	($87,614.31)	($139,615.91)	**($1,552,296.19)**
PWRPA Overhead	$3,425.46	$3,664.98	$2,613.56	$2,276.56	$2,756.30	$2,608.39	$2,411.82	$2,325.84	$2,574.08	$1,687.74	$1,309.49	$1,417.20	**$29,071.42**
Vendor Total	**$33,919.96**	**$47,332.78**	**$104,287.09**	**$121,424.68**	**$138,476.89**	**$36,885.50**	**$8,745.54**	**($46,557.29)**	**($100,029.60)**	**$47,243.59**	**$7,885.33**	**($91,161.43)**	$308,453.04
Slate													
RAAIM/FC Fee	-	-	-	-	$1,674.50	$701.01	$778.75	$704.50	$8,827.14	$2,438.07	$1,228.61	$10,944.30	**$27,296.88**
Solar Energy	$41,102.31	$89,027.28	$93,961.76	$174,574.16	$212,306.01	$192,470.39	$209,110.21	$189,172.95	$152,375.41	$126,524.35	$87,470.08	$37,824.21	**$1,605,919.12**
Solar CAISO Settlement	($51,164.91)	($59,219.18)	($100,627.71)	($155,549.47)	($177,379.14)	($337,146.06)	($459,856.10)	($589,749.40)	($531,506.12)	($219,035.81)	($221,932.02)	($321,965.71)	**($3,225,131.62)**
Solar PWRPA Overhead	$4,507.12	$3,506.62	$8,005.02	$5,343.69	$3,212.32	$4,314.69	$5,540.71	$5,666.65	$4,841.70	$4,057.38	$3,665.52	$5,584.85	**$58,246.29**
Battery Capacity	-	-	-	$60,352.36	$63,224.66	$56,434.12	$61,076.38	$56,944.20	$54,874.43	$61,227.76	$67,000.00	$67,000.00	**$548,133.91**
Battery CAISO Settlement	($8,850.49)	($32,168.92)	($32,393.59)	($86,937.43)	($102,578.13)	($68,221.14)	($52,172.80)	($76,472.10)	($106,424.50)	($40,837.99)	($17,797.28)	($30,134.39)	**($654,988.77)**
Battery PWRPA Overhead	$4,507.12	$3,506.62	$8,005.02	$5,343.69	$3,212.32	$4,314.69	$5,540.71	$5,666.65	$4,841.70	$4,057.38	$3,665.52	$5,584.85	**$58,246.29**
Vendor Total	**($9,898.84)**	**$4,652.42**	**($23,049.50)**	**$3,127.00**	**$3,672.55**	**($147,132.31)**	**($229,982.15)**	**($408,066.54)**	**($412,170.23)**	**($61,568.85)**	**($76,699.57)**	**($225,161.89)**	**($1,582,277.90)**
Category Total	**$220,385.74**	**$495,299.66**	**$323,559.59**	**$349,066.62**	**$367,706.28**	**$45,304.97**	**($110,961.99)**	**($513,279.09)**	**($614,138.33)**	**$112,510.88**	**($26,407.11)**	**($574,971.76)**	$74,075.47
Supplemental Power													
Energy													
Other													
EBCE - Capacity	-	-	-	$50,400.00	$118,750.00	$104,500.00	-	-	-	-	-	-	**$273,650.00**
Shell - Capacity/RECs	-	-	-	$71,500.00	-	-	-	-	-	-	-	-	**$71,500.00**
MRP San Joaquin Energy	-	-	-	-	-	-	-	-	-	-	$152,250.00	$105,000.00	**$257,250.00**
Garlock/White Pines	$1,371.51	$1,806.45	$2,843.77	$3,608.80	$4,248.41	$4,018.54	$4,142.52	$3,792.28	$2,913.40	$2,324.64	$1,698.48	$1,164.00	**$33,932.80**
GL Renewables	$3,599.80	$5,744.93	$6,967.28	$3,951.34	$6,754.13	$6,622.54	$5,900.22	-	-	$9,789.67	$2,421.65	$1,237.03	**$52,988.59**
Vendor Total	$4,971.31	$7,551.38	$9,811.05	$129,460.14	$129,752.54	$115,141.08	$10,042.74	$3,792.28	$2,913.40	$12,114.31	$156,370.13	$107,401.03	**$689,321.39**
Category Total	**$4,971.31**	**$7,551.38**	**$9,811.05**	**$129,460.14**	**$129,752.54**	**$115,141.08**	**$10,042.74**	**$3,792.28**	**$2,913.40**	**$12,114.31**	**$156,370.13**	**$107,401.03**	$689,321.39
CAISO													
CAISO													
Load Charges	$621,602.76	$1,321,906.81	$1,912,444.60	$3,449,912.91	$4,446,683.27	$5,318,648.03	$4,826,541.20	$5,581,479.70	$5,344,619.15	$2,746,188.16	$1,502,639.07	$3,073,686.93	**$40,146,352.57**
Special Charges	$5,245.12	$10,857.26	$21,491.90	$19,767.26	$23,807.17	$29,461.91	$19,093.08	$25,404.99	$81,088.70	$18,595.67	$9,485.75	$8,602.71	**$272,901.52**
Grid Management	$7,202.69	$14,950.74	$22,301.53	$28,577.30	$35,449.40	$35,534.23	$40,398.60	$28,631.65	$23,422.97	$21,610.23	$10,852.58	$7,598.67	**$276,530.59**
Slate reimbursement			($5,500.00)										**($5,500.00)**
Misc.	$25,554.77	$47,487.54	$110,513.07	$174,845.07	$205,012.42	$198,543.31	$5,056.50	$59,945.30	$54,771.34	$47,007.08	$302,457.73	$167,521.82	**$1,398,715.95**
6799 CRR reversal	($9,249.66)	-	($31,413.52)	($117,078.00)	($48,235.10)	($42,563.86)	-	($18,308.71)	($35,115.07)	($39,072.74)	($776,500.77)	($4,059.05)	**($1,121,596.48)**
Vendor Total	$650,355.68	$1,395,202.35	$2,029,837.58	$3,556,024.54	$4,662,717.16	$5,539,623.62	$4,891,089.38	$5,677,152.93	$5,468,787.09	$2,794,328.40	$1,048,934.36	$3,253,351.08	$40,967,404.15
Other													
BOE	$4,853.00	$4,853.00	$4,853.00	$15,346.00	$15,346.00	$15,346.00	$17,802.67	$17,802.67	$17,802.67	$9,560.33	$9,560.33	$9,560.33	**$142,686.00**
NERC/WECC/Peak/Etc	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	$3,358.72	**$40,304.61**
Vendor Total	$8,211.72	$8,211.72	$8,211.72	$18,704.72	$18,704.72	$18,704.72	$21,161.38	$21,161.38	$21,161.38	$12,919.05	$12,919.05	$12,919.05	$182,990.61
Category Total	**$658,567.39**	**$1,403,414.07**	**$2,038,049.29**	**$3,574,729.25**	**$4,681,421.87**	**$5,558,328.34**	**$4,912,250.76**	**$5,698,314.31**	**$5,489,948.48**	**$2,807,247.45**	**$1,061,853.41**	**$3,266,270.13**	$41,150,394.76
Power and Operations Invoices	***$3,386,165.63***	***$4,795,780.02***	***$5,503,217.91***	***$7,751,086.16***	***$9,077,499.40***	***$9,702,972.86***	***$8,389,720.29***	***$8,298,260.69***	***$7,606,732.84***	***$5,675,386.99***	***$3,063,804.77***	***$3,726,813.61***	***$76,977,441.17***

** BR will not match reconciliation output on a monthly basis due to annual rate application.*

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

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 BROC 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 is 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 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

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**

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 participtants 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			
	Net Short, MW	Share of Net Short	Cost	Net Short, MW	Share of Net Short	Cost	Total 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**

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	Base Resource			Lodi Energy Center	Astoria	Whitney Point	Slate PV+BESS	Net Resources
		Allocation	Pool	Net					
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

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 thrid group of tables represents costs (and some revenues) for the contract adminitration 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

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($/MWh) ($ 10)	RPS (PCC0) Avoided Cost ($/MWh) ($ 5)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Transfer ($/MWh) ($ 5.70)	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)		$ (9,398)	$ (220,707)	$ 242,149	$ 3,840	$ -	$ 245,989	$ 25,282	$ 10.33
March	52		4,214		13.0	$ (307,384)	$ (1,970)	$ (65,000)		$ (16,130)	$ (390,484)	$ 417,007	$ 3,966	$ -	$ 420,973	$ 30,489	$ 7.24
April	14,899		5,263		25.0	$ (502,394)	$ (2,590)	$ (125,000)		$ (20,006)	$ (649,990)	$ 520,814	$ 3,085	$ (18,525)	$ 505,373	$ (144,616)	$ (27.48)
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)		$ (30,538)	$ (1,162,258)	$ 804,426	$ 4,101	$ (50,893)	$ 757,633	$ (404,624)	$ (49.78)
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)**	**$ -**	**$ (214,613)**	**$ (8,300,676)**	**$ 5,550,133**	**$ 54,876**	**$ (231,716)**	**$ 5,373,293**	**$ (2,927,383)**	**$ (52.19)**
Rate/Value ($/MWh):			**56086**			**$ (115.70)**	**$ (0.84)**	**$ (27.64)**	**$ -**	**$ (3.83)**	**$ (148.00)**	**$ 98.96**	**$ 0.98**	**$ (4.13)**	**$ 95.80**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: 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

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) ($ 19.00)	RA Avoided Cost ($/kw-mo) ($ 8.00)	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):																	

Astoria Solar (PWRPA subscription 10.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) ($ 19.00)	RA Avoided Cost ($/kw-mo) ($ 5.00)	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)	$ (65,093)	$ (19,500)			$ (301,241)	$ 215,835	$ 1,910		$ 217,745	$ (83,496)	$ (24.37)
August	3,169	7,440	3,180	43%	2.7	$ (289,982)	$ (60,415)	$ (13,500)			$ (363,897)	$ 200,324	$ 1,450		$ 201,774	$ (162,124)	$ (50.99)
September	2,808	7,200	2,599	36%	1.4	$ (235,119)	$ (49,390)	$ (7,000)			$ (291,509)	$ 163,767	$ 1,375		$ 165,142	$ (126,367)	$ (48.61)
October	2,301	7,440	2,383	32%	0.2	$ (109,999)	$ (45,284)	$ (1,000)			$ (156,283)	$ 150,151	$ 1,216		$ 151,367	$ (4,917)	$ (2.06)
November	1,718	7,210	1,730	24%	0.2	$ (89,895)	$ (32,870)	$ (1,000)			$ (123,764)	$ 109,104	$ 1,426		$ 110,530	$ (13,234)	$ (7.65)
December	1,506	7,440	1,255	17%	-	$ (253,880)	$ (23,844)	$ -			$ (277,724)	$ 79,064	$ 1,400		$ 80,463	$ (197,260)	$ (157.19)
Annual	**30,357**	**87,840**	**30,963**	**35%**	**17.1**	**$ (1,703,375)**	**$ (588,294)**	**$ (85,500)**	**$ -**	**$ -**	**$ (2,377,168)**	**$ 1,951,126**	**$ 17,739**	**$ -**	**$ 1,968,866**	**$ (408,303)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (PWRPA subscription 11.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) ($ 19.00)	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	1,243	8,184	1,544	19%	-	$ (53,419)	$ (29,337)				$ (82,757)	$ 83,914	$ 3,425		$ 87,339	$ 4,582	$ 2.97
February	1,753	7,656	2,078	27%	-	$ (67,781)	$ (39,483)				$ (107,263)	$ 111,449	$ 3,665		$ 115,114	$ 7,850	$ 3.78
March	2,645	8,173	2,629	32%	-	$ (55,870)	$ (49,953)				$ (105,823)	$ 157,543	$ 2,614		$ 160,157	$ 54,334	$ 20.67
April	2,964	7,920	2,536	32%	-	$ (61,147)	$ (48,188)				$ (109,336)	$ 180,296	$ 2,277		$ 182,572	$ 73,236	$ 28.88
May	3,633	8,184	3,474	42%	-	$ (82,237)	$ (66,010)				$ (148,248)	$ 217,958	$ 2,756		$ 220,714	$ 72,466	$ 20.86
June	3,792	7,920	3,647	46%	-	$ (182,126)	$ (69,287)				$ (251,412)	$ 216,403	$ 2,608		$ 219,011	$ (32,401)	$ (8.89)
July	3,792	8,184	3,521	43%	-	$ (207,659)	$ (66,890)				$ (274,548)	$ 213,993	$ 2,412		$ 216,405	$ (58,144)	$ (16.52)
August	3,601	8,184	3,285	40%	-	$ (241,885)	$ (62,418)				$ (304,303)	$ 193,002	$ 2,326		$ 195,328	$ (108,975)	$ (33.17)
September	3,091	7,920	2,655	34%	-	$ (258,654)	$ (50,449)				$ (309,102)	$ 156,050	$ 2,574		$ 158,624	$ (150,478)	$ (56.67)
October	2,486	8,184	2,347	29%	-	$ (93,191)	$ (44,599)				$ (137,790)	$ 138,747	$ 1,688		$ 140,434	$ 2,645	$ 1.13
November	1,657	7,931	1,530	19%	-	$ (87,614)	$ (29,065)				$ (116,679)	$ 94,190	$ 1,309		$ 95,500	$ (21,180)	$ (13.85)
December	1,211	8,184	798	10%	-	$ (139,616)	$ (15,158)				$ (154,774)	$ 47,037	$ 1,417		$ 48,454	$ (106,319)	$ (133.27)
Annual	**31,869**	**96,624**	**30,044**	**31%**		**$ (1,531,199)**	**$ (570,837)**	**$ -**	**$ -**	**$ -**	**$ (2,102,036)**	**$ 1,810,581**	**$ 29,071**	**$ -**	**$ 1,839,652**	**$ (262,384)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (PWRPA subscription 26.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) ($ 19.00)	RA Avoided Cost ($/kw-mo) ($ 8.00)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	3,059	19,344	2,044	11%	-	$ (51,165)	$ (38,838)	$ -			$ (90,003)	$ 41,102	$ 4,507	$ -	$ 45,609	$ (44,394)	$ (21.72)
February	4,263	18,096	4,428	24%	-	$ (59,219)	$ (84,124)	$ -			$ (143,343)	$ 89,027	$ 3,507	$ -	$ 92,534	$ (50,809)	$ (11.48)
March	6,509	19,318	5,143	27%	-	$ (100,628)	$ (97,721)	$ -			$ (198,349)	$ 93,962	$ 8,005	$ 10	$ 101,977	$ (96,372)	$ (18.74)
April	7,477	18,720	6,037	32%	3.9	$ (155,549)	$ (114,698)	$ (31,200)			$ (301,448)	$ 174,574	$ 5,344	$ 883	$ 180,801	$ (120,647)	$ (19.99)
May	8,627	19,344	7,519	39%	4.2	$ (177,379)	$ (142,860)	$ (33,280)			$ (353,520)	$ 212,306	$ 4,050	$ 356	$ 216,712	$ (136,808)	$ (18.20)
June	8,950	18,720	6,994	37%	8.1	$ (337,146)	$ (132,889)	$ (64,480)			$ (534,515)	$ 192,470	$ 4,665	$ 4	$ 197,139	$ (337,376)	$ (48.24)
July	9,078	19,344	7,726	40%	10.1	$ (459,856)	$ (146,799)	$ (81,120)			$ (687,775)	$ 209,110	$ 5,930	$ 119	$ 215,159	$ (472,616)	$ (61.17)
August	8,616	19,344	7,046	36%	7.0	$ (589,749)	$ (133,875)	$ (56,160)			$ (779,784)	$ 189,173	$ 6,019	$ 33	$ 195,225	$ (584,559)	$ (82.96)
September	7,398	18,720	5,668	30%	3.6	$ (531,506)	$ (107,694)	$ (29,120)			$ (668,320)	$ 152,375	$ 9,255	$ 2	$ 161,633	$ (506,687)	$ (89.39)
October	5,877	19,344	4,710	24%	0.5	$ (219,036)	$ (89,482)	$ (4,160)			$ (312,677)	$ 126,524	$ 5,276	$ 2	$ 131,802	$ (180,875)	$ (38.41)
November	3,768	18,746	3,233	17%	0.5	$ (221,932)	$ (61,432)	$ (4,160)			$ (287,524)	$ 87,470	$ 4,280	$ -	$ 91,750	$ (195,774)	$ (60.55)
December	2,902	19,344	1,411	7%	-	$ (321,966)	$ (26,806)	$ -			$ (348,771)	$ 37,824	$ 11,057	$ -	$ 48,881	$ (299,890)	$ (212.56)
Annual	**76,524**	**228,384**	**61,959**	**27%**	**38.0**	**$ (3,225,132)**	**$ (1,177,218)**	**$ (303,680)**		**$ -**	**$ (4,706,030)**	**$ 1,605,919**	**$ 71,895**	**$ 1,409**	**$ 1,679,223**	**$ (3,026,807)**	**$ (48.85)**
Rate/Value ($/MWh):						**$ (52.05)**	**$ (19.00)**	**$ (4.90)**	**$ -**	**$ -**	**$ (75.95)**	**$ 25.92**	**$ 1.16**	**$ 0.02**	**$ 27.10**		

Slate - Battery (PWRPA subscription 10.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) ($ 19.00)	RA Avoided Cost ($/kw-mo) ($ 8.00)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Cost ($)	Overhead Cost ($)	*Other Cost ($)	Total Costs	Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January			-		-	$ (8,850)	$ -	$ -	$ -		$ (8,850)	$ -	$ 4,507	$ -	$ 4,507	$ (4,343)	
February			-		-	$ (32,169)	$ -	$ -	$ -		$ (32,169)	$ -	$ 3,507	$ -	$ 3,507	$ (28,662)	
March			84		-	$ (32,394)	$ (1,604)	$ -	$ -		$ (33,998)	$ -	$ 8,005	$ 627	$ 8,632	$ (25,366)	
April			287		10.0	$ (86,937)	$ (5,454)	$ (80,000)	$ -		$ (172,392)	$ 60,352	$ 5,344	$ 18,565	$ 84,261	$ (88,131)	
May			197		10.0	$ (102,575)	$ (3,739)	$ (80,000)	$ (3)		$ (186,317)	$ 63,225	$ 4,050	$ 13,608	$ 80,882	$ (105,435)	
June			11		10.0	$ (68,221)	$ (200)	$ (80,000)	$ -		$ (148,422)	$ 56,434	$ 4,665	$ 2,477	$ 63,576	$ (84,845)	
July			73		10.0	$ (52,173)	$ (1,395)	$ (80,000)	$ -		$ (133,568)	$ 61,076	$ 5,930	$ 12,487	$ 79,494	$ (54,074)	
August			10		10.0	$ (76,472)	$ (190)	$ (80,000)	$ -		$ (156,662)	$ 56,944	$ 6,019	$ 23,545	$ 86,508	$ (70,154)	
September			15		10.0	$ 17,105	$ (293)	$ (80,000)	$ (123,529)		$ (186,717)	$ 54,874	$ 9,255	$ 868	$ 64,998	$ (121,720)	
October			10		10.0	$ (40,838)	$ (185)	$ (80,000)	$ -		$ (121,023)	$ 61,228	$ 5,276	$ 780	$ 67,284	$ (53,739)	
November			29		10.0	$ (17,797)	$ (558)	$ (80,000)	$ -		$ (98,355)	$ 67,000	$ 4,280	$ -	$ 71,280	$ (27,075)	
December			-		10.0	$ (30,134)	$ -	$ -	$ -		$ (30,134)	$ 67,000	$ 11,057	$ -	$ 78,057	$ 47,923	
Annual	**-**	**-**	**717**		**90.0**	**$ (531,457)**	**$ (13,619)**	**$ (640,000)**	**$ (123,532)**	**$ -**	**$ (1,308,608)**	**$ 548,134**	**$ 71,895**	**$ 72,958**	**$ 692,986**	**$ (615,621)**	
Rate/Value ($/MWh):												**DDE costs not invoiced in 2022, still under negotiation*					

Lodi Energy Center (planned major maintenance outage, 3 months)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) ($ -)	RA Avoided Cost ($/kw-mo) ($ 15.00)	Ancillary Service Value ($)	Carbon Cost ($)	Total Value ($)	Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	4,920	5,952	1,486	25%	8.1	$ (97,473)	$ -	$ (120,900)	$ (2,614)	19,225	$ (201,762)	$ 142,179	$ 1,784	$ 66,366	$ 210,328	$ 8,566	$ 5.76
February	3,016	5,568	790	14%	8.1	$ (59,978)	$ -	$ (120,900)	$ (1,535)	$ 10,214	$ (172,199)	$ 104,593	$ 1,899	$ 66,366	$ 172,858	$ 660	$ 0.84
March	-	5,944	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 49,533	$ 2,224	$ 66,366	$ 118,122	$ 118,122	$ -
April	-	5,760	-	0%	-	$ (1)	$ -	$ -	$ -	$ -	$ (1)	$ 49,531	$ 3,032	$ 66,366	$ 118,928	$ 118,928	$ -
May	-	5,952	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 49,533	$ 2,069	$ 66,366	$ 117,968	$ 117,968	$ -
June	4,320	5,760	401	7%	-	$ (53,599)	$ -	$ -	$ (480)	$ 5,190	$ (48,890)	$ 106,642	$ 2,686	$ 66,366	$ 175,694	$ 126,805	$ 316.10
July	5,482	5,952	1,351	23%	8.1	$ (126,490)	$ -	$ (120,900)	$ (941)	$ 17,473	$ (230,858)	$ 185,826	$ 1,911	$ 66,344	$ 254,081	$ 23,223	$ 17.20
August	5,594	5,952	3,564	60%	8.1	$ (386,234)	$ -	$ (120,900)	$ (1,706)	$ 46,105	$ (462,735)	$ 393,701	$ 3,553	$ 66,344	$ 463,599	$ 863	$ 0.24
September	5,280	5,760	2,669	46%	8.1	$ (435,772)	$ -	$ (120,900)	$ -	$ 34,531	$ (522,141)	$ 370,387	$ 1,610	$ 66,344	$ 438,341	$ (83,800)	$ (31.40)
October	4,580	5,952	2,692	45%	8.1	$ (215,332)	$ -	$ (120,900)	$ -	$ 34,833	$ (301,400)	$ 267,574	$ 1,716	$ 66,344	$ 335,634	$ 34,235	$ 12.72
November	4,275	5,768	4,364	76%	8.1	$ (437,467)	$ -	$ (120,900)	$ -	$ 56,465	$ (501,902)	$ 448,908	$ 1,975	$ 66,344	$ 517,227	$ 15,325	$ 3.51
December	4,924	5,952	5,102	86%	8.1	$ (1,435,081)	$ -	$ (120,900)	$ (1,932)	$ 66,007	$ (1,491,906)	$ 1,349,550	$ 1,895	$ 66,344	$ 1,417,788	$ (74,118)	$ (14.53)
Annual	**42,392**	**70,272**	**22,419**	**32%**	**64.5**	**$ (3,247,427)**	**$ -**	**$ (967,200)**	**$ (9,208)**	**$ 290,043**	**$ (3,933,793)**	**$ 3,517,956**	**$ 26,354**	**$ 796,259**	**$ 4,340,568**	**$ 406,776**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 AEWSD

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) $ 5.70	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		40		2.32	$ (3,618)	$ (1,339)	$ (11,595)		$ (359.39)	$ (16,912)	$ 3,962	$ 936	$ -	$ 4,897	$ (12,015)	$ (300.13)
February	-		716		2.61	$ (48,000)	$ (661)	$ (13,045)		$ (2,594)	$ (64,300)	$ 70,852	$ 1,113	$ -	$ 71,965	$ 7,665	$ 10.71
March	15		1,197		3.77	$ (87,691)	$ (571)	$ (18,843)		$ (4,467)	$ (111,572)	$ 118,492	$ 1,150	$ -	$ 119,641	$ 8,069	$ 6.74
April	4,319		1,544		7.25	$ (147,414)	$ (751)	$ (36,236)		$ (5,580)	$ (189,980)	$ 152,873	$ 894	$ (5,436)	$ 148,331	$ (41,649)	$ (26.97)
May	7,411		2,368		11.02	$ (235,717)	$ (1,087)	$ (55,079)		$ (8,572)	$ (300,455)	$ 234,394	$ 1,565	$ (11,151)	$ 224,808	$ (75,647)	$ (31.95)
June	7,321		2,373		14.78	$ (254,498)	$ (1,406)	$ (73,921)		$ (8,618)	$ (338,443)	$ 234,945	$ 1,189	$ (14,858)	$ 221,276	$ (117,167)	$ (49.37)
July	6,959		3,002		15.65	$ (282,298)	$ (2,423)	$ (78,269)		$ (10,893)	$ (373,884)	$ 297,139	$ 1,105	$ (20,356)	$ 277,888	$ (95,996)	$ (31.98)
August	5,308		2,093		13.04	$ (277,570)	$ (1,893)	$ (65,225)		$ (7,616)	$ (352,304)	$ 207,302	$ 1,512	$ (15,281)	$ 193,533	$ (158,771)	$ (75.86)
September	3,083		886		8.41	$ (275,988)	$ (1,157)	$ (42,034)		$ (3,227)	$ (322,405)	$ 88,073	$ 1,490	$ (506)	$ 89,056	$ (233,349)	$ (263.44)
October	2,109		1,197		5.80	$ (104,584)	$ (826)	$ (28,989)		$ (4,350)	$ (138,749)	$ 118,417	$ 1,862	$ (104)	$ 120,175	$ (18,574)	$ (15.52)
November	1,506		479		3.19	$ (53,140)	$ (690)	$ (15,944)		$ (1,702)	$ (71,475)	$ 47,529	$ 2,189	$ -	$ 49,718	$ (21,757)	$ (45.40)
December	2,043		309		2.03	$ (83,974)	$ (841)	$ (10,146)		$ (1,481)	$ (96,441)	$ 18,389	$ 904	$ -	$ 19,292	$ (77,149)	$ (249.37)
Annual	**40,075**		**16,205**			**$ (1,854,491)**	**$ (13,645)**	**$ (449,325)**		**$ (59,460)**	**$ (2,376,921)**	**$ 1,592,367**	**$ 15,908**	**$ (67,694)**	**$ 1,540,581**	**$ (836,339)**	**$ (51.61)**
Rate/Value ($/MWh):						**$ (114.44)**	**$ (0.84)**	**$ (27.73)**	**$ -**	**$ (3.67)**	**$ (146.68)**	**$ 98.26**	**$ 0.98**	**$ (4.18)**	**$ 95.07**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -		$ -	$ -	$ -
Rate/Value ($/MWh):						#DIV/0!					#DIV/0!	#DIV/0!			#DIV/0!		

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh) $ 8.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($) $ -	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**#DIV/0!**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (AEWSD subscription 3.84 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh) $ 5.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	637	2,853	633	22%	0.15	$ (18,679)	$ (12,023)	$ (767)			$ (31,469)	$ 39,867	$ 431		$ 40,298	$ 8,828	$ 13.95
February	668	2,669	815	31%	0.12	$ (13,087)	$ (15,483)	$ (575)			$ (29,145)	$ 51,395	$ 470		$ 51,865	$ 22,721	$ 27.88
March	1,006	2,849	1,028	36%	0.69	$ (17,617)	$ (19,537)	$ (3,452)			$ (40,606)	$ 64,826	$ 422		$ 65,248	$ 24,642	$ 23.97
April	1,080	2,761	1,176	43%	0.58	$ (34,533)	$ (22,346)	$ (2,876)			$ (59,756)	$ 74,127	$ 899		$ 75,026	$ 15,270	$ 12.98
May	1,242	2,853	1,322	46%	0.61	$ (42,522)	$ (25,111)	$ (3,068)			$ (70,701)	$ 83,262	$ 521		$ 83,783	$ 13,082	$ 9.90
June	1,309	2,761	1,312	48%	1.19	$ (68,322)	$ (24,921)	$ (5,944)			$ (99,188)	$ 82,633	$ 694		$ 83,327	$ (15,860)	$ (12.09)
July	1,289	2,853	1,314	46%	1.50	$ (83,084)	$ (24,963)	$ (7,478)			$ (115,526)	$ 82,773	$ 732		$ 83,505	$ (32,021)	$ (24.37)
August	1,215	2,853	1,219	43%	1.04	$ (111,208)	$ (23,169)	$ (5,177)			$ (139,555)	$ 76,824	$ 556		$ 77,380	$ (62,174)	$ (50.99)
September	1,077	2,761	997	36%	0.54	$ (90,168)	$ (18,941)	$ (2,685)			$ (111,794)	$ 62,805	$ 527		$ 63,332	$ (48,462)	$ (48.61)
October	882	2,853	914	32%	0.08	$ (42,185)	$ (17,366)	$ (384)			$ (59,935)	$ 57,583	$ 466		$ 58,049	$ (1,886)	$ (2.06)
November	659	2,765	663	24%	0.08	$ (34,475)	$ (12,606)	$ (384)			$ (47,464)	$ 41,841	$ 547		$ 42,388	$ (5,075)	$ (7.65)
December	577	2,853	481	17%	-	$ (97,363)	$ (9,144)	$ -			$ (106,507)	$ 30,321	$ 537		$ 30,858	$ (75,649)	$ (157.19)
Annual	**11,642**	**33,687**	**11,874**	**35%**	**6.56**	**$ (653,244)**	**$ (225,611)**	**$ (32,789)**		**$ -**	**$ (911,644)**	**$ 748,257**	**$ 6,803**	**$ -**	**$ 755,060**	**$ (156,584)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (AEWSD subscription 3.50 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh) $ -	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	395	2,604	491	19%	-	$ (16,997)	$ (9,335)				$ (26,332)	$ 26,700	$ 1,090		$ 27,790	$ 1,458	$ 2.97
February	558	2,436	661	27%	-	$ (21,567)	$ (12,563)				$ (34,129)	$ 35,461	$ 1,166		$ 36,627	$ 2,498	$ 3.78
March	842	2,601	837	32%	-	$ (17,777)	$ (15,894)				$ (33,671)	$ 50,127	$ 832		$ 50,959	$ 17,288	$ 20.67
April	943	2,520	807	32%	-	$ (19,456)	$ (15,333)				$ (34,789)	$ 57,367	$ 724		$ 58,091	$ 23,302	$ 28.88
May	1,156	2,604	1,105	42%	-	$ (26,166)	$ (21,003)				$ (47,170)	$ 69,350	$ 877		$ 70,227	$ 23,058	$ 20.86
June	1,207	2,520	1,160	46%	-	$ (57,949)	$ (22,046)				$ (79,995)	$ 68,855	$ 830		$ 69,685	$ (10,309)	$ (8.89)
July	1,207	2,604	1,120	43%	-	$ (66,073)	$ (21,283)				$ (87,356)	$ 68,089	$ 767		$ 68,856	$ (18,500)	$ (16.52)
August	1,146	2,604	1,045	40%	-	$ (76,963)	$ (19,860)				$ (96,824)	$ 61,410	$ 740		$ 62,150	$ (34,674)	$ (33.17)
September	984	2,520	845	34%	-	$ (82,299)	$ (16,052)				$ (98,351)	$ 49,652	$ 819		$ 50,471	$ (47,879)	$ (56.67)
October	791	2,604	747	29%	-	$ (29,652)	$ (14,191)				$ (43,842)	$ 44,147	$ 537		$ 44,684	$ 841	$ 1.13
November	527	2,524	487	19%	-	$ (27,877)	$ (9,248)				$ (37,125)	$ 29,970	$ 417		$ 30,386	$ (6,739)	$ (13.85)
December	385	2,604	254	10%	-	$ (44,423)	$ (4,823)				$ (49,246)	$ 14,966	$ 451		$ 15,417	$ (33,829)	$ (133.27)
Annual	**10,140**	**30,744**	**9,559**	**31%**		**$ (487,200)**	**$ (181,630)**	**$ -**		**$ -**	**$ (668,829)**	**$ 576,094**	**$ 9,250**	**$ -**	**$ 585,344**	**$ (83,486)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (AEWSD subscription 9.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	1,059	6,696	708	11%	-	$ (17,711)	$ (13,444)	$ -			$ (31,155)	$ 14,228	$ 1,560	$ -	$ 15,788	$ (15,367)	$ (21.72)
February	1,476	6,264	1,533	24%	-	$ (20,499)	$ (29,120)	$ -			$ (49,619)	$ 30,817	$ 1,214	$ -	$ 32,031	$ (17,588)	$ (11.48)
March	2,253	6,687	1,780	27%	-	$ (34,833)	$ (33,826)	$ -			$ (68,659)	$ 32,525	$ 2,771	$ 4	$ 35,300	$ (33,359)	$ (18.74)
April	2,588	6,480	2,090	32%	1.35	$ (53,844)	$ (39,703)	$ (10,800)			$ (104,347)	$ 60,430	$ 1,850	$ 306	$ 62,585	$ (41,762)	$ (19.99)
May	2,986	6,696	2,603	39%	1.44	$ (61,401)	$ (49,452)	$ (11,520)			$ (122,372)	$ 73,491	$ 1,402	$ 123	$ 75,016	$ (47,357)	$ (18.20)
June	3,098	6,480	2,421	37%	2.79	$ (116,704)	$ (46,000)	$ (22,320)			$ (185,025)	$ 66,624	$ 1,615	$ 1	$ 68,241	$ (116,784)	$ (48.24)
July	3,142	6,696	2,674	40%	3.51	$ (159,181)	$ (50,815)	$ (28,080)			$ (238,076)	$ 72,384	$ 2,053	$ 41	$ 74,478	$ (163,598)	$ (61.17)
August	2,982	6,696	2,439	36%	2.43	$ (204,144)	$ (46,341)	$ (19,440)			$ (269,925)	$ 65,483	$ 2,083	$ 12	$ 67,578	$ (202,347)	$ (82.96)
September	2,561	6,480	1,962	30%	1.26	$ (183,983)	$ (37,279)	$ (10,080)			$ (231,342)	$ 52,745	$ 3,204	$ 1	$ 55,950	$ (175,392)	$ (89.39)
October	2,034	6,696	1,630	24%	0.18	$ (75,820)	$ (30,974)	$ (1,440)			$ (108,235)	$ 43,797	$ 1,826	$ 1	$ 45,624	$ (62,611)	$ (38.41)
November	1,304	6,489	1,119	17%	0.18	$ (76,823)	$ (21,265)	$ (1,440)			$ (99,527)	$ 30,278	$ 1,481	$ -	$ 31,760	$ (67,768)	$ (60.55)
December	1,005	6,696	488	7%	-	$ (111,450)	$ (9,279)	$ -			$ (120,729)	$ 13,093	$ 3,827	$ -	$ 16,920	$ (103,808)	$ (212.56)
Annual	26,489	79,056	21,447	27%	13.14	$ (1,116,392)	$ (407,499)	$ (105,120)		$ -	$ (1,629,011)	$ 555,895	$ 24,887	$ 488	$ 581,270	$ (1,047,741)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (AEWSD subscription 1.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ (885)	$ -	$ -	$ -		$ (885)	$ -	$ 451	$ -	$ 451	$ (434)	
February	-	-	-	0%	-	$ (3,217)	$ -	$ -	$ -		$ (3,217)	$ -	$ 351	$ -	$ 351	$ (2,866)	
March	-	-	8	0%	-	$ (3,239)	$ (160)	$ -	$ -		$ (3,400)	$ -	$ 801	$ 63	$ 863	$ (2,537)	
April	-	-	29	0%	1.00	$ (8,694)	$ (545)	$ (8,000)	$ -		$ (17,239)	$ 6,035	$ 534	$ 1,856	$ 8,426	$ (8,813)	
May	-	-	20	0%	1.00	$ (10,258)	$ (374)	$ (8,000)	$ (0)		$ (18,632)	$ 6,322	$ 405	$ 1,361	$ 8,088	$ (10,543)	
June	-	-	1	0%	1.00	$ (6,822)	$ (20)	$ (8,000)	$ -		$ (14,842)	$ 5,643	$ 467	$ 248	$ 6,358	$ (8,485)	
July	-	-	7	0%	1.00	$ (5,217)	$ (140)	$ (8,000)	$ -		$ (13,357)	$ 6,108	$ 593	$ 1,249	$ 7,949	$ (5,407)	
August	-	-	1	0%	1.00	$ (7,647)	$ (19)	$ (8,000)	$ -		$ (15,666)	$ 5,694	$ 602	$ 2,354	$ 8,651	$ (7,015)	
September	-	-	2	0%	1.00	$ 1,710	$ (29)	$ (8,000)	$ (12,353)		$ (18,672)	$ 5,487	$ 926	$ 87	$ 6,500	$ (12,172)	
October	-	-	1	0%	1.00	$ (4,084)	$ (19)	$ (8,000)	$ -		$ (12,102)	$ 6,123	$ 528	$ 78	$ 6,728	$ (5,374)	
November	-	-	3	0%	1.00	$ (1,780)	$ (56)	$ (8,000)	$ -		$ (9,835)	$ 6,700	$ 428	$ -	$ 7,128	$ (2,708)	
December	-	-	-	0%	1.00	$ (3,013)	$ -	$ -	$ -		$ (3,013)	$ 6,700	$ 1,106	$ -	$ 7,806	$ 4,792	
Annual	-	-	72	0%	9.00	$ (53,146)	$ (1,362)	$ (64,000)		$ -	$ (130,861)	$ 54,813	$ 7,189	$ 7,296	$ 69,299	$ (61,562)	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	1,164	1,408	352	25%	1.91	$ (23,061)	$ -	$ (28,604)	$ (618)	$ 4,549	$ (47,735)	$ 33,638	$ 422	$ 15,701	$ 49,761	$ 2,027	$ 5.76
February	713	1,317	187	14%	1.91	$ (14,190)	$ -	$ (28,604)	$ (363)	$ 2,417	$ (40,740)	$ 24,746	$ 449	$ 15,701	$ 40,896	$ 156	$ 0.84
March	-	1,406	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,719	$ 526	$ 15,701	$ 27,946	$ 27,946	$ -
April	-	1,363	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 11,718	$ 717	$ 15,701	$ 28,137	$ 28,137	$ -
May	-	1,408	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,719	$ 490	$ 15,701	$ 27,910	$ 27,910	$ -
June	1,022	1,363	95	7%	-	$ (12,681)	$ -	$ -	$ (114)	$ 1,228	$ (11,567)	$ 25,230	$ 636	$ 15,701	$ 41,567	$ 30,001	$ 316.10
July	1,297	1,408	320	23%	1.91	$ (29,926)	$ -	$ (28,604)	$ (223)	$ 4,134	$ (54,619)	$ 43,964	$ 452	$ 15,696	$ 60,113	$ 5,494	$ 17.20
August	1,324	1,408	843	60%	1.91	$ (91,379)	$ -	$ (28,604)	$ (404)	$ 10,908	$ (109,478)	$ 93,145	$ 841	$ 15,696	$ 109,682	$ 204	$ 0.24
September	1,249	1,363	631	46%	1.91	$ (103,099)	$ -	$ (28,604)	$ -	$ 8,170	$ (123,533)	$ 87,629	$ 381	$ 15,696	$ 103,707	$ (19,826)	$ (31.40)
October	1,084	1,408	637	45%	1.91	$ (50,945)	$ -	$ (28,604)	$ -	$ 8,241	$ (71,308)	$ 63,305	$ 406	$ 15,696	$ 79,407	$ 8,100	$ 12.72
November	1,011	1,365	1,033	76%	1.91	$ (103,500)	$ -	$ (28,604)	$ -	$ 13,359	$ (118,744)	$ 106,207	$ 467	$ 15,696	$ 122,370	$ 3,626	$ 3.51
December	1,165	1,408	1,207	86%	1.91	$ (339,524)	$ -	$ (28,604)	$ (457)	$ 15,617	$ (352,969)	$ 319,289	$ 448	$ 15,696	$ 335,433	$ (17,535)	$ (14.53)
Annual	**10,030**	**16,626**	**5,304**	**32%**	**15.26**	**$ (768,306)**	**$ -**	**$ (228,829)**	**$ (2,179)**	**$ 68,621**	**$ (930,692)**	**$ 832,310**	**$ 6,235**	**$ 188,386**	**$ 1,026,931**	**$ 96,239**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 BCID

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh)	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
						$ 5.70											
January	0		6		0.29	$ (489)	$ (165)	$ (1,430)		$ (45)	$ (2,130)	$ 569	$ 115	$ -	$ 684	$ (1,445)	$ (251.10)
February	-		93		0.32	$ (6,226)	$ (82)	$ (1,609)		$ (325)	$ (8,241)	$ 9,203	$ 137	$ -	$ 9,340	$ 1,099	$ 11.82
March	2		157		0.46	$ (11,395)	$ (70)	$ (2,324)		$ (559)	$ (14,348)	$ 15,528	$ 142	$ -	$ 15,670	$ 1,321	$ 8.42
April	533		193		0.89	$ (18,392)	$ (93)	$ (4,469)		$ (698)	$ (23,652)	$ 19,109	$ 110	$ (679)	$ 18,539	$ (5,113)	$ (26.49)
May	914		293		1.36	$ (29,179)	$ (134)	$ (6,793)		$ (1,073)	$ (37,179)	$ 29,027	$ 193	$ (1,381)	$ 27,839	$ (9,340)	$ (31.85)
June	903		292		1.82	$ (31,356)	$ (173)	$ (9,117)		$ (1,079)	$ (41,725)	$ 28,945	$ 147	$ (1,831)	$ 27,261	$ (14,464)	$ (49.47)
July	858		370		1.93	$ (34,806)	$ (299)	$ (9,653)		$ (1,364)	$ (46,122)	$ 36,638	$ 136	$ (2,510)	$ 34,264	$ (11,858)	$ (32.03)
August	655		258		1.61	$ (34,218)	$ (233)	$ (8,044)		$ (953)	$ (43,449)	$ 25,554	$ 187	$ (1,884)	$ 23,857	$ (19,592)	$ (75.93)
September	380		109		1.04	$ (34,040)	$ (143)	$ (5,184)		$ (404)	$ (39,771)	$ 10,869	$ 184	$ (63)	$ 10,990	$ (28,781)	$ (263.18)
October	260		147		0.72	$ (12,860)	$ (102)	$ (3,575)		$ (544)	$ (17,082)	$ 14,562	$ 230	$ (13)	$ 14,779	$ (2,303)	$ (15.65)
November	186		50		0.39	$ (5,529)	$ (85)	$ (1,966)		$ (213)	$ (7,793)	$ 4,904	$ 270	$ -	$ 5,174	$ (2,619)	$ (52.22)
December	252		57		0.25	$ (17,621)	$ (104)	$ (1,251)		$ (185)	$ (19,161)	$ 6,816	$ 111	$ -	$ 6,927	$ (12,234)	$ (215.62)
Annual	**4,943**		**2,026**			**$ (236,110)**	**$ (1,683)**	**$ (55,417)**		**$ (7,443)**	**$ (300,653)**	**$ 201,721**	**$ 1,962**	**$ (8,360)**	**$ 195,323**	**$ (105,330)**	**$ (51.99)**
Rate/Value ($/MWh):						**$ (116.54)**	**$ (0.83)**	**$ (27.35)**	**$ -**	**$ (3.67)**	**$ (148.40)**	**$ 99.57**	**$ 0.97**	**$ (4.13)**	**$ 96.41**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
						$ -	$ 19.00	$ 8.00		$ -							
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (BCID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
						$ -	$ 19.00	$ 5.00									
January	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Whitney Point (BCID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
						$ -	$ 19.00	$ -									
January	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Slate - Solar (BCID subscription 2.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
						$ 19.00											
January	235	1,488	157	11%	-	$ (3,936)	$ (2,988)	$ -			$ (6,923)	$ 3,162	$ 347	$ -	$ 3,508	$ (3,415)	$ (21.72)
February	328	1,392	341	24%	-	$ (4,555)	$ (6,471)	$ -			$ (11,026)	$ 6,848	$ 270	$ -	$ 7,118	$ (3,908)	$ (11.48)
March	501	1,486	396	27%	-	$ (7,741)	$ (7,517)	$ -			$ (15,258)	$ 7,228	$ 616	$ 1	$ 7,844	$ (7,413)	$ (18.74)
April	575	1,440	464	32%	0.30	$ (11,965)	$ (8,823)	$ (2,400)			$ (23,188)	$ 13,429	$ 411	$ 68	$ 13,908	$ (9,281)	$ (19.99)
May	664	1,488	578	39%	0.32	$ (13,645)	$ (10,989)	$ (2,560)			$ (27,194)	$ 16,331	$ 312	$ 27	$ 16,670	$ (10,524)	$ (18.20)
June	688	1,440	538	37%	0.62	$ (25,934)	$ (10,222)	$ (4,960)			$ (41,117)	$ 14,805	$ 359	$ 0	$ 15,165	$ (25,952)	$ (48.24)
July	698	1,488	594	40%	0.78	$ (35,374)	$ (11,292)	$ (6,240)			$ (52,906)	$ 16,085	$ 456	$ 9	$ 16,551	$ (36,355)	$ (61.17)
August	663	1,488	542	36%	0.54	$ (45,365)	$ (10,298)	$ (4,320)			$ (59,983)	$ 14,552	$ 463	$ 3	$ 15,017	$ (44,966)	$ (82.96)
September	569	1,440	436	30%	0.28	$ (40,885)	$ (8,284)	$ (2,240)			$ (51,409)	$ 11,721	$ 712	$ 0	$ 12,433	$ (38,976)	$ (89.39)
October	452	1,488	362	24%	0.04	$ (16,849)	$ (6,883)	$ (320)			$ (24,052)	$ 9,733	$ 406	$ 0	$ 10,139	$ (13,913)	$ (38.41)
November	290	1,442	249	17%	0.04	$ (17,072)	$ (4,725)	$ (320)			$ (22,117)	$ 6,728	$ 329	$ -	$ 7,058	$ (15,059)	$ (60.55)
December	223	1,488	109	7%	-	$ (24,767)	$ (2,062)	$ -			$ (26,829)	$ 2,910	$ 851	$ -	$ 3,760	$ (23,068)	$ (212.56)
Annual	5,886	17,568	4,766	27%	2.92	$ (248,087)	$ (90,555)	$ (23,360)		$ -	$ (362,002)	$ 123,532	$ 5,530	$ 108	$ 129,171	$ (232,831)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (BCID subscription 2.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
						$ 19.00											
January	-	-	-	0%	-	$ (1,770)	$ -	$ -	$ -		$ (1,770)	$ -	$ 901	$ -	$ 901	$ (869)	
February	-	-	-	0%	-	$ (6,434)	$ -	$ -	$ -		$ (6,434)	$ -	$ 701	$ -	$ 701	$ (5,732)	
March	-	-	17	0%	-	$ (6,479)	$ (321)	$ -	$ -		$ (6,800)	$ -	$ 1,601	$ 125	$ 1,726	$ (5,073)	
April	-	-	57	0%	2.00	$ (17,387)	$ (1,091)	$ (16,000)	$ -		$ (34,478)	$ 12,070	$ 1,069	$ 3,713	$ 16,852	$ (17,626)	
May	-	-	39	0%	2.00	$ (20,515)	$ (748)	$ (16,000)	$ (1)		$ (37,263)	$ 12,645	$ 810	$ 2,722	$ 16,176	$ (21,087)	
June	-	-	2	0%	2.00	$ (13,644)	$ (40)	$ (16,000)	$ -		$ (29,684)	$ 11,287	$ 933	$ 495	$ 12,715	$ (16,969)	
July	-	-	15	0%	2.00	$ (10,435)	$ (279)	$ (16,000)	$ -		$ (26,714)	$ 12,215	$ 1,186	$ 2,497	$ 15,899	$ (10,815)	
August	-	-	2	0%	2.00	$ (15,294)	$ (38)	$ (16,000)	$ -		$ (31,332)	$ 11,389	$ 1,204	$ 4,709	$ 17,302	$ (14,031)	
September	-	-	3	0%	2.00	$ 3,421	$ (59)	$ (16,000)	$ (24,706)		$ (37,343)	$ 10,975	$ 1,851	$ 174	$ 13,000	$ (24,344)	
October	-	-	2	0%	2.00	$ (8,168)	$ (37)	$ (16,000)	$ -		$ (24,205)	$ 12,246	$ 1,055	$ 156	$ 13,457	$ (10,748)	
November	-	-	6	0%	2.00	$ (3,559)	$ (112)	$ (16,000)	$ -		$ (19,671)	$ 13,400	$ 856	$ -	$ 14,256	$ (5,415)	
December	-	-	-	0%	2.00	$ (6,027)	$ -	$ -	$ -		$ (6,027)	$ 13,400	$ 2,211	$ -	$ 15,611	$ 9,585	
Annual	-	-	143	0%	18.00	$ (106,291)	$ (2,724)	$ (128,000)		$ -	$ (261,722)	$ 109,627	$ 14,379	$ 14,592	$ 138,597	$ (123,124)	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
						$ -		$ 8.00									
January	438	530	132	25%	0.72	$ (8,673)	$ -	$ (10,757)	$ (233)	$ 1,711	$ (17,952)	$ 12,650	$ 159	$ 5,905	$ 18,714	$ 762	$ 5.76
February	268	495	70	14%	0.72	$ (5,337)	$ -	$ (10,757)	$ (137)	$ 909	$ (15,322)	$ 9,306	$ 169	$ 5,905	$ 15,380	$ 59	$ 0.84
March	-	529	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,407	$ 198	$ 5,905	$ 10,510	$ 10,510	$ -
April	-	513	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 4,407	$ 270	$ 5,905	$ 10,582	$ 10,582	$ -
May	-	530	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,407	$ 184	$ 5,905	$ 10,496	$ 10,496	$ -
June	384	513	36	7%	-	$ (4,769)	$ -	$ -	$ (43)	$ 462	$ (4,350)	$ 9,489	$ 239	$ 5,905	$ 15,633	$ 11,283	$ 316.10
July	488	530	120	23%	0.72	$ (11,255)	$ -	$ (10,757)	$ (84)	$ 1,555	$ (20,541)	$ 16,534	$ 170	$ 5,903	$ 22,607	$ 2,066	$ 17.20
August	498	530	317	60%	0.72	$ (34,366)	$ -	$ (10,757)	$ (152)	$ 4,102	$ (41,172)	$ 35,030	$ 316	$ 5,903	$ 41,249	$ 77	$ 0.24
September	470	513	237	46%	0.72	$ (38,773)	$ -	$ (10,757)	$ -	$ 3,072	$ (46,458)	$ 32,956	$ 143	$ 5,903	$ 39,002	$ (7,456)	$ (31.40)
October	408	530	240	45%	0.72	$ (19,159)	$ -	$ (10,757)	$ -	$ 3,099	$ (26,817)	$ 23,808	$ 153	$ 5,903	$ 29,863	$ 3,046	$ 12.72
November	380	513	388	76%	0.72	$ (38,924)	$ -	$ (10,757)	$ -	$ 5,024	$ (44,657)	$ 39,942	$ 176	$ 5,903	$ 46,021	$ 1,364	$ 3.51
December	438	530	454	86%	0.72	$ (127,688)	$ -	$ (10,757)	$ (172)	$ 5,873	$ (132,744)	$ 120,078	$ 169	$ 5,903	$ 126,149	$ (6,595)	$ (14.53)
Annual	**3,772**	**6,253**	**1,995**	**32%**	**5.74**	**$ (288,943)**	**$ -**	**$ (86,058)**	**$ (819)**	**$ 25,807**	**$ (350,013)**	**$ 313,014**	**$ 2,345**	**$ 70,848**	**$ 386,206**	**$ 36,193**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 CWD

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

						Value:				$ 5.70		Contract Administration ($)				Net	
Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh)	Total Value ($)	Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		3		0.14	$ (283)	$ (79)	$ (687)		$ (21)	$ (1,070)	$ 321	$ 55	$ -	$ 377	$ (693)	$ (213.44)
February	-		39		0.15	$ (2,551)	$ (39)	$ (773)		$ (151)	$ (3,513)	$ 3,856	$ 66	$ -	$ 3,922	$ 408	$ 10.47
March	1		73		0.22	$ (5,301)	$ (34)	$ (1,116)		$ (260)	$ (6,711)	$ 7,221	$ 68	$ -	$ 7,289	$ 579	$ 7.93
April	256		92		0.43	$ (8,742)	$ (44)	$ (2,146)		$ (325)	$ (11,258)	$ 9,078	$ 53	$ (323)	$ 8,808	$ (2,449)	$ (26.70)
May	439		140		0.65	$ (13,961)	$ (64)	$ (3,262)		$ (499)	$ (17,786)	$ 13,883	$ 93	$ (661)	$ 13,315	$ (4,471)	$ (31.87)
June	434		141		0.88	$ (15,106)	$ (83)	$ (4,378)		$ (501)	$ (20,069)	$ 13,949	$ 70	$ (882)	$ 13,137	$ (6,932)	$ (49.21)
July	412		179		0.93	$ (16,808)	$ (144)	$ (4,636)		$ (634)	$ (22,222)	$ 17,699	$ 65	$ (1,212)	$ 16,552	$ (5,669)	$ (31.71)
August	314		125		0.77	$ (16,536)	$ (112)	$ (3,863)		$ (443)	$ (20,955)	$ 12,364	$ 90	$ (911)	$ 11,543	$ (9,412)	$ (75.46)
September	183		53		0.50	$ (16,408)	$ (69)	$ (2,490)		$ (188)	$ (19,154)	$ 5,260	$ 88	$ (30)	$ 5,318	$ (13,836)	$ (262.51)
October	125		71		0.34	$ (6,205)	$ (49)	$ (1,717)		$ (253)	$ (8,224)	$ 7,027	$ 110	$ (6)	$ 7,131	$ (1,093)	$ (15.39)
November	89		20		0.19	$ (2,117)	$ (41)	$ (944)		$ (99)	$ (3,201)	$ 1,888	$ 130	$ -	$ 2,018	$ (1,184)	$ (58.93)
December	121		9		0.12	$ (2,873)	$ (50)	$ (601)		$ (86)	$ (3,609)	$ (421)	$ 54	$ -	$ (368)	$ (3,977)	$ (440.17)
Annual	**2,374**		**944**			**$ (106,890)**	**$ (808)**	**$ (26,614)**		**$ (3,460)**	**$ (137,772)**	**$ 92,125**	**$ 942**	**$ (4,025)**	**$ 89,043**	**$ (48,729)**	**$ (51.60)**
Rate/Value ($/MWh):						**$ (113.18)**	**$ (0.86)**	**$ (28.18)**	**$ -**	**$ (3.66)**	**$ (145.88)**	**$ 97.55**	**$ 1.00**	**$ (4.26)**	**$ 94.28**		

WWD BOR Payback

						Value:						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	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

						Value:	$ 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	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (CWD subscription 0.60 MW)

						Value:	$ 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	99	446	99	22%	0.02	$ (2,918)	$ (1,878)	$ (120)			$ (4,915)	$ 6,227	$ 67		$ 6,294	$ 1,379	$ 13.95
February	104	417	127	31%	0.02	$ (2,044)	$ (2,418)	$ (90)			$ (4,552)	$ 8,028	$ 73		$ 8,101	$ 3,549	$ 27.88
March	157	445	161	36%	0.11	$ (2,752)	$ (3,052)	$ (539)			$ (6,342)	$ 10,125	$ 66		$ 10,191	$ 3,849	$ 23.97
April	169	431	184	43%	0.09	$ (5,394)	$ (3,490)	$ (449)			$ (9,333)	$ 11,578	$ 140		$ 11,719	$ 2,385	$ 12.98
May	194	446	206	46%	0.10	$ (6,642)	$ (3,922)	$ (479)			$ (11,043)	$ 13,005	$ 81		$ 13,086	$ 2,043	$ 9.90
June	204	431	205	48%	0.19	$ (10,671)	$ (3,893)	$ (928)			$ (15,492)	$ 12,907	$ 108		$ 13,015	$ (2,477)	$ (12.09)
July	201	446	205	46%	0.23	$ (12,977)	$ (3,899)	$ (1,168)			$ (18,044)	$ 12,929	$ 114		$ 13,043	$ (5,001)	$ (24.37)
August	190	446	190	43%	0.16	$ (17,370)	$ (3,619)	$ (809)			$ (21,797)	$ 11,999	$ 87		$ 12,086	$ (9,711)	$ (50.99)
September	168	431	156	36%	0.08	$ (14,084)	$ (2,958)	$ (419)			$ (17,461)	$ 9,810	$ 82		$ 9,892	$ (7,569)	$ (48.61)
October	138	446	143	32%	0.01	$ (6,589)	$ (2,712)	$ (60)			$ (9,361)	$ 8,994	$ 73		$ 9,067	$ (295)	$ (2.06)
November	103	432	104	24%	0.01	$ (5,385)	$ (1,969)	$ (60)			$ (7,413)	$ 6,535	$ 85		$ 6,621	$ (793)	$ (7.65)
December	90	446	75	17%	-	$ (15,207)	$ (1,428)	$ -			$ (16,636)	$ 4,736	$ 84		$ 4,820	$ (11,816)	$ (157.19)
Annual	**1,818**	**5,262**	**1,855**	**35%**	**1.02**	**$ (102,032)**	**$ (35,239)**	**$ (5,121)**		**$ -**	**$ (142,392)**	**$ 116,872**	**$ 1,063**	**$ -**	**$ 117,935**	**$ (24,457)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (CWD subscription 0.00 MW)

						Value:	$ 19.00	$ -				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	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):						**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**						

Slate - Solar (CWD subscription 4.15 MW)

						Attributes:	$ 19.00					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	488	3,088	326	11%	-	$ (8,167)	$ (6,199)	$ -			$ (14,366)	$ 6,561	$ 719	$ -	$ 7,280	$ (7,086)	$ (21.72)
February	680	2,888	707	24%	-	$ (9,452)	$ (13,427)	$ -			$ (22,880)	$ 14,210	$ 560	$ -	$ 14,770	$ (8,110)	$ (11.48)
March	1,039	3,083	821	27%	-	$ (16,062)	$ (15,598)	$ -			$ (31,659)	$ 14,998	$ 1,278	$ 4	$ 16,279	$ (15,380)	$ (18.74)
April	1,193	2,988	964	32%	0.62	$ (24,828)	$ (18,308)	$ (4,980)			$ (48,116)	$ 27,865	$ 853	$ 306	$ 29,023	$ (19,092)	$ (19.81)
May	1,377	3,088	1,200	39%	0.66	$ (28,312)	$ (22,803)	$ (5,312)			$ (56,427)	$ 33,887	$ 646	$ 123	$ 34,657	$ (21,770)	$ (18.14)
June	1,429	2,988	1,116	37%	1.29	$ (53,814)	$ (21,211)	$ (10,292)			$ (85,317)	$ 30,721	$ 745	$ 1	$ 31,467	$ (53,850)	$ (48.24)
July	1,449	3,088	1,233	40%	1.62	$ (73,400)	$ (23,431)	$ (12,948)			$ (109,779)	$ 33,377	$ 947	$ 41	$ 34,365	$ (75,415)	$ (61.15)
August	1,375	3,088	1,125	36%	1.12	$ (94,133)	$ (21,368)	$ (8,964)			$ (124,465)	$ 30,195	$ 961	$ 12	$ 31,167	$ (93,298)	$ (82.96)
September	1,181	2,988	905	30%	0.58	$ (84,836)	$ (17,190)	$ (4,648)			$ (106,674)	$ 24,321	$ 1,477	$ 1	$ 25,799	$ (80,874)	$ (89.39)
October	938	3,088	752	24%	0.08	$ (34,961)	$ (14,283)	$ (664)			$ (49,908)	$ 20,195	$ 842	$ 1	$ 21,038	$ (28,870)	$ (38.41)
November	601	2,992	516	17%	0.08	$ (35,424)	$ (9,805)	$ (664)			$ (45,893)	$ 13,962	$ 683	$ -	$ 14,645	$ (31,248)	$ (60.55)
December	463	3,088	225	7%	-	$ (51,391)	$ (4,279)	$ -			$ (55,669)	$ 6,037	$ 1,765	$ -	$ 7,802	$ (47,867)	$ (212.56)
Annual	12,214	36,454	9,890	27%	6.06	$ (514,779)	$ (187,902)	$ (48,472)		$ -	$ (751,153)	$ 256,329	$ 11,475	$ 488	$ 268,292	$ (482,861)	**$ (48.83)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.05	$ 27.13		

Slate - Battery (CWD subscription 1.90 MW)

						Attributes:	$ 19.00					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	-	-	-	0%	-	$ (1,682)	$ -	$ -	$ -		$ (1,682)	$ -	$ 856	$ -	$ 856	$ (825)	
February	-	-	-	0%	-	$ (6,112)	$ -	$ -	$ -		$ (6,112)	$ -	$ 666	$ -	$ 666	$ (5,446)	
March	-	-	16	0%	-	$ (6,155)	$ (305)	$ -	$ -		$ (6,460)	$ -	$ 1,521	$ 119	$ 1,640	$ (4,820)	
April	-	-	55	0%	1.90	$ (16,518)	$ (1,036)	$ (15,200)	$ -		$ (32,754)	$ 11,467	$ 1,015	$ 3,527	$ 16,010	$ (16,745)	
May	-	-	37	0%	1.90	$ (19,489)	$ (710)	$ (15,200)	$ (1)		$ (35,400)	$ 12,013	$ 769	$ 2,586	$ 15,368	$ (20,033)	
June	-	-	2	0%	1.90	$ (12,962)	$ (38)	$ (15,200)	$ -		$ (28,200)	$ 10,722	$ 886	$ 471	$ 12,080	$ (16,121)	
July	-	-	14	0%	1.90	$ (9,913)	$ (265)	$ (15,200)	$ -		$ (25,378)	$ 11,605	$ 1,127	$ 2,373	$ 15,104	$ (10,274)	
August	-	-	2	0%	1.90	$ (14,530)	$ (36)	$ (15,200)	$ -		$ (29,766)	$ 10,819	$ 1,144	$ 4,474	$ 16,437	$ (13,329)	
September	-	-	3	0%	1.90	$ 3,250	$ (56)	$ (15,200)	$ (23,471)		$ (35,476)	$ 10,426	$ 1,759	$ 165	$ 12,350	$ (23,127)	
October	-	-	2	0%	1.90	$ (7,759)	$ (35)	$ (15,200)	$ -		$ (22,994)	$ 11,633	$ 1,003	$ 148	$ 12,784	$ (10,210)	
November	-	-	6	0%	1.90	$ (3,381)	$ (106)	$ (15,200)	$ -		$ (18,687)	$ 12,730	$ 813	$ -	$ 13,543	$ (5,144)	
December	-	-	-	0%	1.90	$ (5,726)	$ -	$ -	$ -		$ (5,726)	$ 12,730	$ 2,101	$ -	$ 14,831	$ 9,105	
Annual	-	-	136	0%	17.10	$ (100,977)	$ (2,588)	$ (121,600)		$ -	$ (248,635)	$ 104,145	$ 13,660	$ 13,862	$ 131,667	$ (116,968)	
Rate/Value ($/MWh):																	

Lodi Energy Center

						Value:	$ -	$ 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 ($)	Debt Service ($)	Total Costs	Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	368	446	111	25%	0.60	$ (7,299)	$ -	$ (9,053)	$ (196)	$ 1,440	$ (15,109)	$ 10,647	$ 134	$ 4,970	$ 15,750	$ 641	$ 5.76
February	226	417	59	14%	0.60	$ (4,491)	$ -	$ (9,053)	$ (115)	$ 765	$ (12,895)	$ 7,832	$ 142	$ 4,970	$ 12,944	$ 49	$ 0.84
March	-	445	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,709	$ 167	$ 4,970	$ 8,845	$ 8,845	$ -
April	-	431	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 3,709	$ 227	$ 4,970	$ 8,906	$ 8,906	$ -
May	-	446	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,709	$ 155	$ 4,970	$ 8,834	$ 8,834	$ -
June	324	431	30	7%	-	$ (4,014)	$ -	$ -	$ (36)	$ 389	$ (3,661)	$ 7,986	$ 201	$ 4,970	$ 13,157	$ 9,496	$ 316.10
July	411	446	101	23%	0.60	$ (9,472)	$ -	$ (9,053)	$ (70)	$ 1,308	$ (17,288)	$ 13,915	$ 143	$ 4,968	$ 19,027	$ 1,739	$ 17.20
August	419	446	267	60%	0.60	$ (28,923)	$ -	$ (9,053)	$ (128)	$ 3,453	$ (34,651)	$ 29,482	$ 266	$ 4,968	$ 34,716	$ 65	$ 0.24
September	395	431	200	46%	0.60	$ (32,632)	$ -	$ (9,053)	$ -	$ 2,586	$ (39,100)	$ 27,736	$ 121	$ 4,968	$ 32,825	$ (6,275)	$ (31.40)
October	343	446	202	45%	0.60	$ (16,125)	$ -	$ (9,053)	$ -	$ 2,608	$ (22,570)	$ 20,037	$ 128	$ 4,968	$ 25,134	$ 2,564	$ 12.72
November	320	432	327	76%	0.60	$ (32,759)	$ -	$ (9,053)	$ -	$ 4,228	$ (37,584)	$ 33,616	$ 148	$ 4,968	$ 38,732	$ 1,148	$ 3.51
December	369	446	382	86%	0.60	$ (107,465)	$ -	$ (9,053)	$ (145)	$ 4,943	$ (111,720)	$ 101,060	$ 142	$ 4,968	$ 106,170	$ (5,550)	$ (14.53)
Annual	**3,175**	**5,262**	**1,679**	**32%**	**4.83**	**$ (243,180)**	**$ -**	**$ (72,428)**	**$ (690)**	**$ 21,720**	**$ (294,578)**	**$ 263,439**	**$ 1,973**	**$ 59,627**	**$ 325,039**	**$ 30,461**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 GCID

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) $ 5.70	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		11		0.26	$ (915)	$ (149)	$ (1,292)		$ (37)	$ (2,393)	$ 1,104	$ 104	$ -	$ 1,208	$ (1,185)	$ (106.21)
February	-		68		0.29	$ (4,575)	$ (74)	$ (1,454)		$ (266)	$ (6,368)	$ 6,772	$ 124	$ -	$ 6,896	$ 527	$ 7.71
March	2		136		0.42	$ (9,935)	$ (64)	$ (2,100)		$ (459)	$ (12,557)	$ 13,479	$ 128	$ -	$ 13,607	$ 1,050	$ 7.71
April	481		129		0.81	$ (12,584)	$ (84)	$ (4,038)		$ (573)	$ (17,279)	$ 12,733	$ 100	$ (456)	$ 12,377	$ (4,902)	$ (37.87)
May	826		216		1.23	$ (21,704)	$ (121)	$ (6,138)		$ (881)	$ (28,843)	$ 21,278	$ 174	$ (1,017)	$ 20,435	$ (8,408)	$ (38.94)
June	816		252		1.65	$ (27,137)	$ (157)	$ (8,237)		$ (885)	$ (36,416)	$ 24,904	$ 132	$ (1,577)	$ 23,459	$ (12,956)	$ (51.43)
July	776		301		1.74	$ (28,902)	$ (270)	$ (8,722)		$ (1,119)	$ (39,013)	$ 29,752	$ 123	$ (2,040)	$ 27,836	$ (11,177)	$ (37.16)
August	592		231		1.45	$ (30,706)	$ (211)	$ (7,268)		$ (782)	$ (38,967)	$ 22,895	$ 169	$ (1,689)	$ 21,374	$ (17,593)	$ (76.04)
September	344		98		0.94	$ (30,646)	$ (129)	$ (4,684)		$ (331)	$ (35,791)	$ 9,745	$ 166	$ (56)	$ 9,855	$ (25,935)	$ (263.56)
October	235		133		0.65	$ (11,596)	$ (92)	$ (3,230)		$ (447)	$ (15,365)	$ 13,130	$ 207	$ (12)	$ 13,326	$ (2,039)	$ (15.37)
November	168		52		0.36	$ (5,781)	$ (77)	$ (1,777)		$ (175)	$ (7,809)	$ 5,162	$ 244	$ -	$ 5,406	$ (2,403)	$ (46.10)
December	228		48		0.23	$ (14,079)	$ (94)	$ (1,131)		$ (152)	$ (15,455)	$ 5,079	$ 101	$ -	$ 5,180	$ (10,276)	$ (213.98)
Annual	**4,466**		**1,677**			**$ (198,558)**	**$ (1,521)**	**$ (50,070)**		**$ (6,108)**	**$ (256,256)**	**$ 166,032**	**$ 1,773**	**$ (6,847)**	**$ 160,958**	**$ (95,298)**	**$ (56.84)**
Rate/Value ($/MWh):						**$ (118.43)**	**$ (0.91)**	**$ (29.87)**	**$ -**	**$ (3.64)**	**$ (152.85)**	**$ 99.03**	**$ 1.06**	**$ (4.08)**	**$ 96.01**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($) $ -	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):															**#DIV/0!**		

Astoria Solar (GCID subscription 0.32 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh) $ 5.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	53	236	52	22%	0.01	$ (1,544)	$ (994)	$ (63)			$ (2,601)	$ 3,295	$ 36		$ 3,331	$ 730	$ 13.95
February	55	221	67	31%	0.01	$ (1,082)	$ (1,280)	$ (48)			$ (2,409)	$ 4,248	$ 39		$ 4,287	$ 1,878	$ 27.88
March	83	236	85	36%	0.06	$ (1,456)	$ (1,615)	$ (285)			$ (3,356)	$ 5,359	$ 35		$ 5,393	$ 2,037	$ 23.97
April	89	228	97	43%	0.05	$ (2,855)	$ (1,847)	$ (238)			$ (4,939)	$ 6,127	$ 74		$ 6,202	$ 1,262	$ 12.98
May	103	236	109	46%	0.05	$ (3,515)	$ (2,076)	$ (254)			$ (5,844)	$ 6,882	$ 43		$ 6,925	$ 1,081	$ 9.90
June	108	228	108	48%	0.10	$ (5,648)	$ (2,060)	$ (491)			$ (8,199)	$ 6,830	$ 57		$ 6,888	$ (1,311)	$ (12.09)
July	107	236	109	46%	0.12	$ (6,868)	$ (2,063)	$ (618)			$ (9,549)	$ 6,842	$ 61		$ 6,903	$ (2,647)	$ (24.37)
August	100	236	101	43%	0.09	$ (9,192)	$ (1,915)	$ (428)			$ (11,536)	$ 6,350	$ 46		$ 6,396	$ (5,139)	$ (50.99)
September	89	228	82	36%	0.04	$ (7,453)	$ (1,566)	$ (222)			$ (9,241)	$ 5,191	$ 44		$ 5,235	$ (4,006)	$ (48.61)
October	73	236	76	32%	0.01	$ (3,487)	$ (1,435)	$ (32)			$ (4,954)	$ 4,760	$ 39		$ 4,798	$ (156)	$ (2.06)
November	54	229	55	24%	0.01	$ (2,850)	$ (1,042)	$ (32)			$ (3,923)	$ 3,459	$ 45		$ 3,504	$ (420)	$ (7.65)
December	48	236	40	17%	-	$ (8,048)	$ (756)	$ -			$ (8,804)	$ 2,506	$ 44		$ 2,551	$ (6,253)	$ (157.19)
Annual	**962**	**2,785**	**982**	**35%**	**0.54**	**$ (53,997)**	**$ (18,649)**	**$ (2,710)**		**$ -**	**$ (75,356)**	**$ 61,851**	**$ 562**	**$ -**	**$ 62,413**	**$ (12,943)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (GCID subscription 0.30 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh) $ -	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	34	223	42	19%	-	$ (1,457)	$ (800)				$ (2,257)	$ 2,289	$ 93		$ 2,382	$ 125	$ 2.97
February	48	209	57	27%	-	$ (1,849)	$ (1,077)				$ (2,925)	$ 3,040	$ 100		$ 3,139	$ 214	$ 3.78
March	72	223	72	32%	-	$ (1,524)	$ (1,362)				$ (2,886)	$ 4,297	$ 71		$ 4,368	$ 1,482	$ 20.67
April	81	216	69	32%	-	$ (1,668)	$ (1,314)				$ (2,982)	$ 4,917	$ 62		$ 4,979	$ 1,997	$ 28.88
May	99	223	95	42%	-	$ (2,243)	$ (1,800)				$ (4,043)	$ 5,944	$ 75		$ 6,019	$ 1,976	$ 20.86
June	103	216	99	46%	-	$ (4,967)	$ (1,890)				$ (6,857)	$ 5,902	$ 71		$ 5,973	$ (884)	$ (8.89)
July	103	223	96	43%	-	$ (5,663)	$ (1,824)				$ (7,488)	$ 5,836	$ 66		$ 5,902	$ (1,586)	$ (16.52)
August	98	223	90	40%	-	$ (6,597)	$ (1,702)				$ (8,299)	$ 5,264	$ 63		$ 5,327	$ (2,972)	$ (33.17)
September	84	216	72	34%	-	$ (7,054)	$ (1,376)				$ (8,430)	$ 4,256	$ 70		$ 4,326	$ (4,104)	$ (56.67)
October	68	223	64	29%	-	$ (2,542)	$ (1,216)				$ (3,758)	$ 3,784	$ 46		$ 3,830	$ 72	$ 1.13
November	45	216	42	19%	-	$ (2,389)	$ (793)				$ (3,182)	$ 2,569	$ 36		$ 2,605	$ (578)	$ (13.85)
December	33	223	22	10%	-	$ (3,808)	$ (413)				$ (4,221)	$ 1,283	$ 39		$ 1,321	$ (2,900)	$ (133.27)
Annual	**869**	**2,635**	**819**	**31%**		**$ (41,760)**	**$ (15,568)**	**$ -**		**$ -**	**$ (57,328)**	**$ 49,379**	**$ 793**	**$ -**	**$ 50,172**	**$ (7,156)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (GCID subscription 0.75 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	88	558	59	11%	-	$ (1,476)	$ (1,120)	$ -			$ (2,596)	$ 1,186	$ 130	$ -	$ 1,316	$ (1,281)	$ (21.72)
February	123	522	128	24%	-	$ (1,708)	$ (2,427)	$ -			$ (4,135)	$ 2,568	$ 101	$ -	$ 2,669	$ (1,466)	$ (11.48)
March	188	557	148	27%	-	$ (2,903)	$ (2,819)	$ -			$ (5,722)	$ 2,710	$ 231	$ 0	$ 2,942	$ (2,780)	$ (18.74)
April	216	540	174	32%	0.11	$ (4,487)	$ (3,309)	$ (900)			$ (8,696)	$ 5,036	$ 154	$ 25	$ 5,215	$ (3,480)	$ (19.99)
May	249	558	217	39%	0.12	$ (5,117)	$ (4,121)	$ (960)			$ (10,198)	$ 6,124	$ 117	$ 10	$ 6,251	$ (3,946)	$ (18.20)
June	258	540	202	37%	0.23	$ (9,725)	$ (3,833)	$ (1,860)			$ (15,419)	$ 5,552	$ 135	$ 0	$ 5,687	$ (9,732)	$ (48.24)
July	262	558	223	40%	0.29	$ (13,265)	$ (4,235)	$ (2,340)			$ (19,840)	$ 6,032	$ 171	$ 3	$ 6,206	$ (13,633)	$ (61.17)
August	249	558	203	36%	0.20	$ (17,012)	$ (3,862)	$ (1,620)			$ (22,494)	$ 5,457	$ 174	$ 1	$ 5,631	$ (16,862)	$ (82.96)
September	213	540	164	30%	0.10	$ (15,332)	$ (3,107)	$ (840)			$ (19,278)	$ 4,395	$ 267	$ 0	$ 4,662	$ (14,616)	$ (89.39)
October	170	558	136	24%	0.01	$ (6,318)	$ (2,581)	$ (120)			$ (9,019)	$ 3,650	$ 152	$ 0	$ 3,802	$ (5,218)	$ (38.41)
November	109	541	93	17%	0.01	$ (6,402)	$ (1,772)	$ (120)			$ (8,294)	$ 2,523	$ 123	$ -	$ 2,647	$ (5,647)	$ (60.55)
December	84	558	41	7%	-	$ (9,287)	$ (773)	$ -			$ (10,061)	$ 1,091	$ 319	$ -	$ 1,410	$ (8,651)	$ (212.56)
Annual	**2,207**	**6,588**	**1,787**	**27%**	**1.09**	**$ (93,032)**	**$ (33,958)**	**$ (8,760)**		**$ -**	**$ (135,750)**	**$ 46,324**	**$ 2,074**	**$ 41**	**$ 48,439**	**$ (87,311)**	**$ (48.85)**
Rate/Value ($/MWh):						**$ (52.05)**	**$ (19.00)**	**$ (4.90)**	**$ -**	**$ -**	**$ (75.95)**	**$ 25.92**	**$ 1.16**	**$ 0.02**	**$ 27.10**		

Slate - Battery (GCID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
February	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
March	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
April	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
May	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
June	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
July	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
August	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
September	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
October	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
November	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
December	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
Annual	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	247	299	75	25%	0.40	$ (4,894)	$ -	$ (6,070)	$ (131)	$ 965	$ (10,130)	$ 7,139	$ 90	$ 3,332	$ 10,561	$ 430	$ 5.76
February	151	280	40	14%	0.40	$ (3,011)	$ -	$ (6,070)	$ (77)	$ 513	$ (8,646)	$ 5,252	$ 95	$ 3,332	$ 8,679	$ 33	$ 0.84
March	-	298	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,487	$ 112	$ 3,332	$ 5,931	$ 5,931	$ -
April	-	289	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 2,487	$ 152	$ 3,332	$ 5,971	$ 5,971	$ -
May	-	299	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,487	$ 104	$ 3,332	$ 5,923	$ 5,923	$ -
June	217	289	20	7%	-	$ (2,691)	$ -	$ -	$ (24)	$ 261	$ (2,455)	$ 5,354	$ 135	$ 3,332	$ 8,822	$ 6,367	$ 316.10
July	275	299	68	23%	0.40	$ (6,351)	$ -	$ (6,070)	$ (47)	$ 877	$ (11,591)	$ 9,330	$ 96	$ 3,331	$ 12,757	$ 1,166	$ 17.20
August	281	299	179	60%	0.40	$ (19,393)	$ -	$ (6,070)	$ (86)	$ 2,315	$ (23,234)	$ 19,768	$ 178	$ 3,331	$ 23,277	$ 43	$ 0.24
September	265	289	134	46%	0.40	$ (21,880)	$ -	$ (6,070)	$ -	$ 1,734	$ (26,217)	$ 18,597	$ 81	$ 3,331	$ 22,009	$ (4,208)	$ (31.40)
October	230	299	135	45%	0.40	$ (10,812)	$ -	$ (6,070)	$ -	$ 1,749	$ (15,133)	$ 13,435	$ 86	$ 3,331	$ 16,852	$ 1,719	$ 12.72
November	215	290	219	76%	0.40	$ (21,965)	$ -	$ (6,070)	$ -	$ 2,835	$ (25,200)	$ 22,540	$ 99	$ 3,331	$ 25,970	$ 769	$ 3.51
December	247	299	256	86%	0.40	$ (72,055)	$ -	$ (6,070)	$ (97)	$ 3,314	$ (74,909)	$ 67,761	$ 95	$ 3,331	$ 71,187	$ (3,721)	$ (14.53)
Annual	**2,129**	**3,528**	**1,126**	**32%**	**3.24**	**$ (163,053)**	**$ -**	**$ (48,563)**	**$ (462)**	**$ 14,563**	**$ (197,516)**	**$ 176,637**	**$ 1,323**	**$ 39,980**	**$ 217,940**	**$ 20,424**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 JID

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) ($ 5.70)	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		1		0.05	$ (50)	$ (32)	$ (274)		$ (8)	$ (364)	$ 58	$ 22	$ -	$ 80	$ (284)	$ (485.14)
February	-		18		0.06	$ (1,177)	$ (16)	$ (308)		$ (61)	$ (1,562)	$ 1,737	$ 26	$ -	$ 1,764	$ 202	$ 11.51
March	0		30		0.09	$ (2,171)	$ (13)	$ (445)		$ (105)	$ (2,734)	$ 2,958	$ 27	$ -	$ 2,985	$ 251	$ 8.40
April	102		37		0.17	$ (3,513)	$ (18)	$ (855)		$ (131)	$ (4,517)	$ 3,651	$ 21	$ (130)	$ 3,542	$ (975)	$ (26.43)
May	175		56		0.26	$ (5,606)	$ (26)	$ (1,300)		$ (201)	$ (7,132)	$ 5,577	$ 37	$ (265)	$ 5,349	$ (1,783)	$ (31.65)
June	173		56		0.35	$ (6,047)	$ (33)	$ (1,744)		$ (202)	$ (8,026)	$ 5,586	$ 28	$ (353)	$ 5,261	$ (2,765)	$ (49.02)
July	164		71		0.37	$ (6,702)	$ (57)	$ (1,847)		$ (255)	$ (8,862)	$ 7,061	$ 26	$ (484)	$ 6,603	$ (2,258)	$ (31.66)
August	125		50		0.31	$ (6,580)	$ (45)	$ (1,539)		$ (179)	$ (8,342)	$ 4,919	$ 36	$ (362)	$ 4,592	$ (3,750)	$ (75.56)
September	73		21		0.20	$ (6,522)	$ (27)	$ (992)		$ (76)	$ (7,616)	$ 2,086	$ 35	$ (12)	$ 2,109	$ (5,507)	$ (262.74)
October	50		28		0.14	$ (2,478)	$ (19)	$ (684)		$ (102)	$ (3,284)	$ 2,807	$ 44	$ (2)	$ 2,849	$ (435)	$ (15.34)
November	36		8		0.08	$ (889)	$ (16)	$ (376)		$ (40)	$ (1,321)	$ 795	$ 52	$ -	$ 846	$ (475)	$ (56.58)
December	48		4		0.05	$ (1,161)	$ (20)	$ (239)		$ (35)	$ (1,455)	$ (149)	$ 21	$ -	$ (128)	$ (1,583)	$ (415.07)
Annual	**946**		**380**			**$ (42,896)**	**$ (322)**	**$ (10,602)**		**$ (1,394)**	**$ (55,214)**	**$ 37,086**	**$ 375**	**$ (1,609)**	**$ 35,852**	**$ (19,362)**	**$ (50.93)**
Rate/Value ($/MWh):						**$ (112.84)**	**$ (0.85)**	**$ (27.89)**	**$ -**	**$ (3.67)**	**$ (145.24)**	**$ 97.56**	**$ 0.99**	**$ (4.23)**	**$ 94.31**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -		$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) ($ 19.00)	RA Avoided Cost ($/kw-mo) ($ 8.00)	Ancillary Service Value ($)	Carbon Value ($) ($ -)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (JID subscription 0.08 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) ($ 19.00)	RA Avoided Cost ($/kw-mo) ($ 5.00)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	13	60	13	22%	0.00	$ (395)	$ (254)	$ (16)			$ (665)	$ 842	$ 9		$ 851	$ 186	$ 13.95
February	14	56	17	31%	0.00	$ (276)	$ (327)	$ (12)			$ (616)	$ 1,086	$ 10		$ 1,095	$ 480	$ 27.88
March	21	60	22	36%	0.01	$ (372)	$ (413)	$ (73)			$ (858)	$ 1,369	$ 9		$ 1,378	$ 520	$ 23.97
April	23	58	25	43%	0.01	$ (729)	$ (472)	$ (61)			$ (1,262)	$ 1,566	$ 19		$ 1,585	$ 323	$ 12.98
May	26	60	28	46%	0.01	$ (898)	$ (530)	$ (65)			$ (1,493)	$ 1,759	$ 11		$ 1,770	$ 276	$ 9.90
June	28	58	28	48%	0.03	$ (1,443)	$ (526)	$ (126)			$ (2,095)	$ 1,745	$ 15		$ 1,760	$ (335)	$ (12.09)
July	27	60	28	46%	0.03	$ (1,755)	$ (527)	$ (158)			$ (2,440)	$ 1,748	$ 15		$ 1,764	$ (676)	$ (24.37)
August	26	60	26	43%	0.02	$ (2,349)	$ (489)	$ (109)			$ (2,948)	$ 1,623	$ 12		$ 1,634	$ (1,313)	$ (50.99)
September	23	58	21	36%	0.01	$ (1,904)	$ (400)	$ (57)			$ (2,361)	$ 1,327	$ 11		$ 1,338	$ (1,024)	$ (48.61)
October	19	60	19	32%	0.00	$ (891)	$ (367)	$ (8)			$ (1,266)	$ 1,216	$ 10		$ 1,226	$ (40)	$ (2.06)
November	14	58	14	24%	0.00	$ (728)	$ (266)	$ (8)			$ (1,002)	$ 884	$ 12		$ 895	$ (107)	$ (7.65)
December	12	60	10	17%	-	$ (2,056)	$ (193)	$ -			$ (2,250)	$ 640	$ 11		$ 652	$ (1,598)	$ (157.19)
Annual	**246**	**712**	**251**	**35%**	**0.14**	**$ (13,797)**	**$ (4,765)**	**$ (693)**		**$ -**	**$ (19,255)**	**$ 15,804**	**$ 144**	**$ -**	**$ 15,948**	**$ (3,307)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (JID subscription 0.10 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) ($ 19.00)	RA Avoided Cost ($/kw-mo) ($ -)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	11	74	14	19%	-	$ (486)	$ (267)				$ (752)	$ 763	$ 31		$ 794	$ 42	$ 2.97
February	16	70	19	27%	-	$ (616)	$ (359)				$ (975)	$ 1,013	$ 33		$ 1,046	$ 71	$ 3.78
March	24	74	24	32%	-	$ (508)	$ (454)				$ (962)	$ 1,432	$ 24		$ 1,456	$ 494	$ 20.67
April	27	72	23	32%	-	$ (556)	$ (438)				$ (994)	$ 1,639	$ 21		$ 1,660	$ 666	$ 28.88
May	33	74	32	42%	-	$ (748)	$ (600)				$ (1,348)	$ 1,981	$ 25		$ 2,006	$ 659	$ 20.86
June	34	72	33	46%	-	$ (1,656)	$ (630)				$ (2,286)	$ 1,967	$ 24		$ 1,991	$ (295)	$ (8.89)
July	34	74	32	43%	-	$ (1,888)	$ (608)				$ (2,496)	$ 1,945	$ 22		$ 1,967	$ (529)	$ (16.52)
August	33	74	30	40%	-	$ (2,199)	$ (567)				$ (2,766)	$ 1,755	$ 21		$ 1,776	$ (991)	$ (33.17)
September	28	72	24	34%	-	$ (2,351)	$ (459)				$ (2,810)	$ 1,419	$ 23		$ 1,442	$ (1,368)	$ (56.67)
October	23	74	21	29%	-	$ (847)	$ (405)				$ (1,253)	$ 1,261	$ 15		$ 1,277	$ 24	$ 1.13
November	15	72	14	19%	-	$ (796)	$ (264)				$ (1,061)	$ 856	$ 12		$ 868	$ (193)	$ (13.85)
December	11	74	7	10%	-	$ (1,269)	$ (138)				$ (1,407)	$ 428	$ 13		$ 440	$ (967)	$ (133.27)
Annual	**290**	**878**	**273**	**31%**		**$ (13,920)**	**$ (5,189)**	**$ -**		**$ -**	**$ (19,109)**	**$ 16,460**	**$ 264**	**$ -**	**$ 16,724**	**$ (2,385)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (JID subscription 0.25 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) ($ 19.00)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	29	186	20	11%	-	$ (492)	$ (373)	$ -			$ (865)	$ 395	$ 43	$ -	$ 439	$ (427)	$ (21.72)
February	41	174	43	24%	-	$ (569)	$ (809)	$ -			$ (1,378)	$ 856	$ 34	$ -	$ 890	$ (489)	$ (11.48)
March	63	186	49	27%	-	$ (968)	$ (940)	$ -			$ (1,907)	$ 903	$ 77	$ 0	$ 981	$ (927)	$ (18.74)
April	72	180	58	32%	0.04	$ (1,496)	$ (1,103)	$ (300)			$ (2,898)	$ 1,679	$ 51	$ 8	$ 1,738	$ (1,160)	$ (19.99)
May	83	186	72	39%	0.04	$ (1,706)	$ (1,374)	$ (320)			$ (3,399)	$ 2,041	$ 39	$ 3	$ 2,084	$ (1,315)	$ (18.20)
June	86	180	67	37%	0.08	$ (3,242)	$ (1,278)	$ (620)			$ (5,139)	$ 1,851	$ 45	$ 0	$ 1,895	$ (3,244)	$ (48.24)
July	87	186	74	40%	0.10	$ (4,422)	$ (1,411)	$ (780)			$ (6,613)	$ 2,011	$ 57	$ 1	$ 2,069	$ (4,544)	$ (61.17)
August	83	186	68	36%	0.07	$ (5,670)	$ (1,287)	$ (540)			$ (7,498)	$ 1,819	$ 58	$ 0	$ 1,877	$ (5,621)	$ (82.96)
September	71	180	54	30%	0.03	$ (5,110)	$ (1,035)	$ (280)			$ (6,426)	$ 1,465	$ 89	$ 0	$ 1,554	$ (4,872)	$ (89.39)
October	57	186	45	24%	0.00	$ (2,106)	$ (860)	$ (40)			$ (3,006)	$ 1,217	$ 51	$ 0	$ 1,267	$ (1,739)	$ (38.41)
November	36	180	31	17%	0.00	$ (2,134)	$ (591)	$ (40)			$ (2,765)	$ 841	$ 41	$ -	$ 882	$ (1,882)	$ (60.55)
December	28	186	14	7%	-	$ (3,096)	$ (258)	$ -			$ (3,353)	$ 364	$ 106	$ -	$ 470	$ (2,883)	$ (212.56)
Annual	736	2,196	596	27%	0.36	$ (31,010)	$ (11,319)	$ (2,920)		$ -	$ (45,248)	$ 15,441	$ 691	$ 14	$ 16,146	$ (29,103)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (JID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) ($ 19.00)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
February	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
March	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
April	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
May	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
June	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
July	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
August	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
September	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
October	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
November	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
December	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
Annual	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) ($ -)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) ($ 8.00)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	195	236	59	25%	0.32	$ (3,870)	$ -	$ (4,800)	$ (104)	$ 763	$ (8,010)	$ 5,645	$ 71	$ 2,635	$ 8,350	$ 340	$ 5.76
February	120	221	31	14%	0.32	$ (2,381)	$ -	$ (4,800)	$ (61)	$ 406	$ (6,837)	$ 4,153	$ 75	$ 2,635	$ 6,863	$ 26	$ 0.84
March	-	236	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,967	$ 88	$ 2,635	$ 4,690	$ 4,690	$ -
April	-	229	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 1,966	$ 120	$ 2,635	$ 4,722	$ 4,722	$ -
May	-	236	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,967	$ 82	$ 2,635	$ 4,684	$ 4,684	$ -
June	172	229	16	7%	-	$ (2,128)	$ -	$ -	$ (19)	$ 206	$ (1,941)	$ 4,234	$ 107	$ 2,635	$ 6,975	$ 5,034	$ 316.10
July	218	236	54	23%	0.32	$ (5,022)	$ -	$ (4,800)	$ (37)	$ 694	$ (9,166)	$ 7,378	$ 76	$ 2,634	$ 10,088	$ 922	$ 17.20
August	222	236	141	60%	0.32	$ (15,334)	$ -	$ (4,800)	$ (68)	$ 1,830	$ (18,372)	$ 15,631	$ 141	$ 2,634	$ 18,406	$ 34	$ 0.24
September	210	229	106	46%	0.32	$ (17,301)	$ -	$ (4,800)	$ -	$ 1,371	$ (20,730)	$ 14,705	$ 64	$ 2,634	$ 17,403	$ (3,327)	$ (31.40)
October	182	236	107	45%	0.32	$ (8,549)	$ -	$ (4,800)	$ -	$ 1,383	$ (11,966)	$ 10,623	$ 68	$ 2,634	$ 13,325	$ 1,359	$ 12.72
November	170	229	173	76%	0.32	$ (17,368)	$ -	$ (4,800)	$ -	$ 2,242	$ (19,927)	$ 17,823	$ 78	$ 2,634	$ 20,535	$ 608	$ 3.51
December	196	236	203	86%	0.32	$ (56,976)	$ -	$ (4,800)	$ (77)	$ 2,621	$ (59,232)	$ 53,580	$ 75	$ 2,634	$ 56,289	$ (2,943)	$ (14.53)
Annual	**1,683**	**2,790**	**890**	**32%**	**2.56**	**$ (128,929)**	**$ -**	**$ (38,400)**	**$ (366)**	**$ 11,515**	**$ (156,179)**	**$ 139,670**	**$ 1,046**	**$ 31,613**	**$ 172,329**	**$ 16,150**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 LTID

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) $ 5.70	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		14		0.07	$ (1,099)	$ (41)	$ (353)		$ (11)	$ (1,504)	$ 1,400	$ 29	$ -	$ 1,429	$ (75)	$ (5.31)
February	-		23		0.08	$ (1,559)	$ (20)	$ (397)		$ (80)	$ (2,056)	$ 2,300	$ 34	$ -	$ 2,333	$ 277	$ 11.94
March	0		33		0.11	$ (2,476)	$ (17)	$ (574)		$ (137)	$ (3,204)	$ 3,311	$ 35	$ -	$ 3,346	$ 142	$ 4.23
April	132		39		0.22	$ (3,807)	$ (23)	$ (1,104)		$ (171)	$ (5,105)	$ 3,829	$ 27	$ (136)	$ 3,720	$ (1,384)	$ (35.79)
May	226		71		0.34	$ (7,026)	$ (33)	$ (1,678)		$ (263)	$ (9,000)	$ 6,989	$ 48	$ (333)	$ 6,704	$ (2,296)	$ (32.52)
June	223		68		0.45	$ (7,379)	$ (43)	$ (2,252)		$ (264)	$ (9,938)	$ 6,748	$ 36	$ (427)	$ 6,358	$ (3,580)	$ (52.52)
July	212		92		0.48	$ (8,629)	$ (74)	$ (2,385)		$ (334)	$ (11,421)	$ 9,084	$ 34	$ (622)	$ 8,495	$ (2,926)	$ (31.89)
August	162		63		0.40	$ (8,366)	$ (58)	$ (1,987)		$ (233)	$ (10,644)	$ 6,227	$ 46	$ (459)	$ 5,814	$ (4,830)	$ (76.80)
September	94		27		0.26	$ (8,453)	$ (35)	$ (1,281)		$ (99)	$ (9,868)	$ 2,711	$ 45	$ (15)	$ 2,741	$ (7,127)	$ (262.95)
October	64		37		0.18	$ (3,203)	$ (25)	$ (883)		$ (133)	$ (4,245)	$ 3,627	$ 57	$ (3)	$ 3,681	$ (564)	$ (15.40)
November	46		16		0.10	$ (1,791)	$ (21)	$ (486)		$ (52)	$ (2,350)	$ 1,600	$ 67	$ -	$ 1,667	$ (684)	$ (42.94)
December	62		14		0.06	$ (3,965)	$ (26)	$ (309)		$ (45)	$ (4,345)	$ 1,480	$ 28	$ -	$ 1,507	$ (2,837)	$ (205.57)
Annual	**1,221**		**496**			**$ (57,753)**	**$ (416)**	**$ (13,690)**		**$ (1,822)**	**$ (73,681)**	**$ 49,307**	**$ 485**	**$ (1,996)**	**$ 47,796**	**$ (25,885)**	**$ (52.14)**
Rate/Value ($/MWh):						**$ (116.33)**	**$ (0.84)**	**$ (27.58)**	**$ -**	**$ (3.67)**	**$ (148.42)**	**$ 99.32**	**$ 0.98**	**$ (4.02)**	**$ 96.28**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($) $ -	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (LTID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ 5.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Whitney Point (LTID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ -	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Slate - Solar (LTID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):						#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		

Slate - Battery (LTID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
February	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
March	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
April	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
May	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
June	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
July	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
August	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
September	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
October	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
November	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
December	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

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, and actual generation with capacity factors.

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

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 PPID

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

						Value:				$ 5.70		Contract Administration ($)				Net	
Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh)	Total Value ($)	Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		1		0.06	$ (53)	$ (33)	$ (290)		$ (1)	$ (378)	$ 62	$ 23	$ -	$ 85	$ (293)	$ (467.22)
February	-		6		0.07	$ (391)	$ (17)	$ (326)		$ (9)	$ (742)	$ 559	$ 28	$ -	$ 587	$ (155)	$ (27.50)
March	0		7		0.09	$ (526)	$ (14)	$ (471)		$ (15)	$ (1,026)	$ 695	$ 29	$ -	$ 724	$ (303)	$ (43.11)
April	108		8		0.18	$ (751)	$ (19)	$ (906)		$ (18)	$ (1,694)	$ 681	$ 22	$ (27)	$ 677	$ (1,017)	$ (133.47)
May	185		9		0.28	$ (944)	$ (27)	$ (1,377)		$ (28)	$ (2,377)	$ 771	$ 39	$ (44)	$ 766	$ (1,611)	$ (171.38)
June	183		10		0.37	$ (1,077)	$ (35)	$ (1,848)		$ (28)	$ (2,988)	$ 644	$ 30	$ (61)	$ 613	$ (2,376)	$ (241.97)
July	174		10		0.39	$ (934)	$ (61)	$ (1,957)		$ (36)	$ (2,987)	$ 762	$ 28	$ (65)	$ 724	$ (2,263)	$ (234.31)
August	133		9		0.33	$ (1,291)	$ (47)	$ (1,631)		$ (25)	$ (2,994)	$ 181	$ 38	$ (66)	$ 152	$ (2,841)	$ (313.40)
September	77		8		0.21	$ (2,378)	$ (29)	$ (1,051)		$ (11)	$ (3,468)	$ (756)	$ 37	$ (5)	$ (723)	$ (4,191)	$ (512.69)
October	53		8		0.14	$ (665)	$ (21)	$ (725)		$ (14)	$ (1,425)	$ 727	$ 47	$ (1)	$ 773	$ (652)	$ (86.54)
November	38		5		0.08	$ (515)	$ (17)	$ (399)		$ (6)	$ (936)	$ 395	$ 55	$ -	$ 450	$ (486)	$ (107.78)
December	51		4		0.05	$ (1,188)	$ (21)	$ (254)		$ (5)	$ (1,467)	$ (185)	$ 23	$ -	$ (162)	$ (1,629)	$ (415.28)
Annual	**1,002**		**83**			**$ (10,713)**	**$ (341)**	**$ (11,233)**		**$ (196)**	**$ (22,483)**	**$ 4,537**	**$ 398**	**$ (270)**	**$ 4,665**	**$ (17,818)**	**$ (214.65)**
Rate/Value ($/MWh):						**$ (129.06)**	**$ (4.11)**	**$ (135.32)**	**$ -**	**$ (2.36)**	**$ (270.85)**	**$ 54.66**	**$ 4.79**	**$ (3.25)**	**$ 56.20**		

WWD BOR Payback

						Value:					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	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

						Value:	$ 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	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (PPID subscription 0.11 MW)

						Value:	$ 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	19	84	19	22%	0.00	$ (550)	$ (354)	$ (23)			$ (927)	$ 1,175	$ 13		$ 1,187	$ 260	$ 13.95
February	20	79	24	31%	0.00	$ (386)	$ (456)	$ (17)			$ (859)	$ 1,514	$ 14		$ 1,528	$ 669	$ 27.88
March	30	84	30	36%	0.02	$ (519)	$ (576)	$ (102)			$ (1,196)	$ 1,910	$ 12		$ 1,923	$ 726	$ 23.97
April	32	81	35	43%	0.02	$ (1,018)	$ (658)	$ (85)			$ (1,761)	$ 2,184	$ 26		$ 2,211	$ 450	$ 12.98
May	37	84	39	46%	0.02	$ (1,253)	$ (740)	$ (90)			$ (2,083)	$ 2,453	$ 15		$ 2,469	$ 385	$ 9.90
June	39	81	39	48%	0.04	$ (2,013)	$ (734)	$ (175)			$ (2,923)	$ 2,435	$ 20		$ 2,455	$ (467)	$ (12.09)
July	38	84	39	46%	0.04	$ (2,448)	$ (736)	$ (220)			$ (3,404)	$ 2,439	$ 22		$ 2,461	$ (944)	$ (24.37)
August	36	84	36	43%	0.03	$ (3,277)	$ (683)	$ (153)			$ (4,112)	$ 2,264	$ 16		$ 2,280	$ (1,832)	$ (50.99)
September	32	81	29	36%	0.02	$ (2,657)	$ (558)	$ (79)			$ (3,294)	$ 1,851	$ 16		$ 1,866	$ (1,428)	$ (48.61)
October	26	84	27	32%	0.00	$ (1,243)	$ (512)	$ (11)			$ (1,766)	$ 1,697	$ 14		$ 1,710	$ (56)	$ (2.06)
November	19	81	20	24%	0.00	$ (1,016)	$ (371)	$ (11)			$ (1,399)	$ 1,233	$ 16		$ 1,249	$ (150)	$ (7.65)
December	17	84	14	17%	-	$ (2,869)	$ (269)	$ -			$ (3,138)	$ 893	$ 16		$ 909	$ (2,229)	$ (157.19)
Annual	**343**	**993**	**350**	**35%**	**0.19**	**$ (19,248)**	**$ (6,648)**	**$ (966)**		**$ -**	**$ (26,862)**	**$ 22,048**	**$ 200**	**$ -**	**$ 22,248**	**$ (4,614)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (PPID subscription 0.10 MW)

						Value:	$ 19.00	$ -				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	11	74	14	19%	-	$ (486)	$ (267)				$ (752)	$ 763	$ 31		$ 794	$ 42	$ 2.97
February	16	70	19	27%	-	$ (616)	$ (359)				$ (975)	$ 1,013	$ 33		$ 1,046	$ 71	$ 3.78
March	24	74	24	32%	-	$ (508)	$ (454)				$ (962)	$ 1,432	$ 24		$ 1,456	$ 494	$ 20.67
April	27	72	23	32%	-	$ (556)	$ (438)				$ (994)	$ 1,639	$ 21		$ 1,660	$ 666	$ 28.88
May	33	74	32	42%	-	$ (748)	$ (600)				$ (1,348)	$ 1,981	$ 25		$ 2,006	$ 659	$ 20.86
June	34	72	33	46%	-	$ (1,656)	$ (630)				$ (2,286)	$ 1,967	$ 24		$ 1,991	$ (295)	$ (8.89)
July	34	74	32	43%	-	$ (1,888)	$ (608)				$ (2,496)	$ 1,945	$ 22		$ 1,967	$ (529)	$ (16.52)
August	33	74	30	40%	-	$ (2,199)	$ (567)				$ (2,766)	$ 1,755	$ 21		$ 1,776	$ (991)	$ (33.17)
September	28	72	24	34%	-	$ (2,351)	$ (459)				$ (2,810)	$ 1,419	$ 23		$ 1,442	$ (1,368)	$ (56.67)
October	23	74	21	29%	-	$ (847)	$ (405)				$ (1,253)	$ 1,261	$ 15		$ 1,277	$ 24	$ 1.13
November	15	72	14	19%	-	$ (796)	$ (264)				$ (1,061)	$ 856	$ 12		$ 868	$ (193)	$ (13.85)
December	11	74	7	10%	-	$ (1,269)	$ (138)				$ (1,407)	$ 428	$ 13		$ 440	$ (967)	$ (133.27)
Annual	**290**	**878**	**273**	**31%**		**$ (13,920)**	**$ (5,189)**	**$ -**		**$ -**	**$ (19,109)**	**$ 16,460**	**$ 264**	**$ -**	**$ 16,724**	**$ (2,385)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (PPID subscription 0.25 MW)

						Attributes:	$ 19.00				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	29	186	20	11%	-	$ (492)	$ (373)	$ -			$ (865)	$ 395	$ 43	$ -	$ 439	$ (427)	$ (21.72)
February	41	174	43	24%	-	$ (569)	$ (809)	$ -			$ (1,378)	$ 856	$ 34	$ -	$ 890	$ (489)	$ (11.48)
March	63	186	49	27%	-	$ (968)	$ (940)	$ -			$ (1,907)	$ 903	$ 77	$ 0	$ 981	$ (927)	$ (18.74)
April	72	180	58	32%	0.04	$ (1,496)	$ (1,103)	$ (300)			$ (2,898)	$ 1,679	$ 51	$ 8	$ 1,738	$ (1,160)	$ (19.99)
May	83	186	72	39%	0.04	$ (1,706)	$ (1,374)	$ (320)			$ (3,399)	$ 2,041	$ 39	$ 3	$ 2,084	$ (1,315)	$ (18.20)
June	86	180	67	37%	0.08	$ (3,242)	$ (1,278)	$ (620)			$ (5,139)	$ 1,851	$ 45	$ 0	$ 1,895	$ (3,244)	$ (48.24)
July	87	186	74	40%	0.10	$ (4,422)	$ (1,411)	$ (780)			$ (6,613)	$ 2,011	$ 57	$ 1	$ 2,069	$ (4,544)	$ (61.17)
August	83	186	68	36%	0.07	$ (5,670)	$ (1,287)	$ (540)			$ (7,498)	$ 1,819	$ 58	$ 0	$ 1,877	$ (5,621)	$ (82.96)
September	71	180	54	30%	0.03	$ (5,110)	$ (1,035)	$ (280)			$ (6,426)	$ 1,465	$ 89	$ 0	$ 1,554	$ (4,872)	$ (89.39)
October	57	186	45	24%	0.00	$ (2,106)	$ (860)	$ (40)			$ (3,006)	$ 1,217	$ 51	$ 0	$ 1,267	$ (1,739)	$ (38.41)
November	36	180	31	17%	0.00	$ (2,134)	$ (591)	$ (40)			$ (2,765)	$ 841	$ 41	$ -	$ 882	$ (1,882)	$ (60.55)
December	28	186	14	7%	-	$ (3,096)	$ (258)	$ -			$ (3,353)	$ 364	$ 106	$ -	$ 470	$ (2,883)	$ (212.56)
Annual	736	2,196	596	27%	0.36	$ (31,010)	$ (11,319)	$ (2,920)		$ -	$ (45,248)	$ 15,441	$ 691	$ 14	$ 16,146	$ (29,103)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (PPID subscription 0.00 MW)

						Attributes:	$ 19.00				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	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
February	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
March	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
April	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
May	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
June	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
July	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
August	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
September	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
October	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
November	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
December	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
Annual	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Rate/Value ($/MWh):																	

Lodi Energy Center

						Value:	$ -	$ 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 ($)	Debt Service ($)	Total Costs	Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	206	250	62	25%	0.34	$ (4,086)	$ -	$ (5,068)	$ (110)	$ 806	$ (8,458)	$ 5,960	$ 75	$ 2,782	$ 8,817	$ 359	$ 5.76
February	126	233	33	14%	0.34	$ (2,514)	$ -	$ (5,068)	$ (64)	$ 428	$ (7,218)	$ 4,384	$ 80	$ 2,782	$ 7,246	$ 28	$ 0.84
March	-	249	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,076	$ 93	$ 2,782	$ 4,952	$ 4,952	$ -
April	-	241	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 2,076	$ 127	$ 2,782	$ 4,985	$ 4,985	$ -
May	-	250	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,076	$ 87	$ 2,782	$ 4,945	$ 4,945	$ -
June	181	241	17	7%	-	$ (2,247)	$ -	$ -	$ (20)	$ 218	$ (2,049)	$ 4,470	$ 113	$ 2,782	$ 7,365	$ 5,316	$ 316.10
July	230	250	57	23%	0.34	$ (5,302)	$ -	$ (5,068)	$ (39)	$ 732	$ (9,677)	$ 7,790	$ 80	$ 2,781	$ 10,651	$ 973	$ 17.20
August	235	250	149	60%	0.34	$ (16,191)	$ -	$ (5,068)	$ (72)	$ 1,933	$ (19,397)	$ 16,504	$ 149	$ 2,781	$ 19,434	$ 36	$ 0.24
September	221	241	112	46%	0.34	$ (18,267)	$ -	$ (5,068)	$ -	$ 1,447	$ (21,888)	$ 15,526	$ 67	$ 2,781	$ 18,375	$ (3,513)	$ (31.40)
October	192	250	113	45%	0.34	$ (9,027)	$ -	$ (5,068)	$ -	$ 1,460	$ (12,634)	$ 11,216	$ 72	$ 2,781	$ 14,069	$ 1,435	$ 12.72
November	179	242	183	76%	0.34	$ (18,338)	$ -	$ (5,068)	$ -	$ 2,367	$ (21,039)	$ 18,818	$ 83	$ 2,781	$ 21,682	$ 642	$ 3.51
December	206	250	214	86%	0.34	$ (60,157)	$ -	$ (5,068)	$ (81)	$ 2,767	$ (62,539)	$ 56,572	$ 79	$ 2,781	$ 59,432	$ (3,107)	$ (14.53)
Annual	**1,777**	**2,946**	**940**	**32%**	**2.70**	**$ (136,129)**	**$ -**	**$ (40,544)**	**$ (386)**	**$ 12,158**	**$ (164,901)**	**$ 147,469**	**$ 1,105**	**$ 33,378**	**$ 181,952**	**$ 17,052**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 RD108

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) $ 5.70	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		2		0.05	$ (141)	$ (27)	$ (232)		$ (7)	$ (406)	$ 167	$ 19	$ -	$ 185	$ (221)	$ (131.01)
February	-		14		0.05	$ (922)	$ (13)	$ (261)		$ (52)	$ (1,248)	$ 1,353	$ 22	$ -	$ 1,376	$ 128	$ 9.35
March	0		25		0.08	$ (1,803)	$ (11)	$ (376)		$ (90)	$ (2,281)	$ 2,450	$ 23	$ -	$ 2,473	$ 192	$ 7.74
April	86		31		0.14	$ (2,919)	$ (15)	$ (724)		$ (113)	$ (3,771)	$ 3,027	$ 18	$ (108)	$ 2,937	$ (834)	$ (27.26)
May	148		47		0.22	$ (4,687)	$ (22)	$ (1,100)		$ (173)	$ (5,982)	$ 4,661	$ 31	$ (222)	$ 4,470	$ (1,512)	$ (32.12)
June	146		47		0.30	$ (5,069)	$ (28)	$ (1,476)		$ (174)	$ (6,747)	$ 4,678	$ 24	$ (296)	$ 4,406	$ (2,341)	$ (49.54)
July	139		60		0.31	$ (5,626)	$ (48)	$ (1,563)		$ (220)	$ (7,458)	$ 5,921	$ 22	$ (406)	$ 5,538	$ (1,921)	$ (32.10)
August	106		42		0.26	$ (5,541)	$ (38)	$ (1,303)		$ (154)	$ (7,035)	$ 4,138	$ 30	$ (305)	$ 3,863	$ (3,172)	$ (75.92)
September	62		18		0.17	$ (5,505)	$ (23)	$ (839)		$ (65)	$ (6,433)	$ 1,754	$ 30	$ (10)	$ 1,774	$ (4,659)	$ (263.72)
October	42		24		0.12	$ (2,080)	$ (16)	$ (579)		$ (88)	$ (2,763)	$ 2,355	$ 37	$ (2)	$ 2,390	$ (373)	$ (15.68)
November	30		10		0.06	$ (1,089)	$ (14)	$ (318)		$ (34)	$ (1,456)	$ 974	$ 44	$ -	$ 1,018	$ (438)	$ (44.70)
December	41		10		0.04	$ (2,881)	$ (17)	$ (203)		$ (30)	$ (3,130)	$ 1,140	$ 18	$ -	$ 1,158	$ (1,972)	$ (204.82)
Annual	**800**		**328**			**$ (38,263)**	**$ (272)**	**$ (8,973)**		**$ (1,203)**	**$ (48,712)**	**$ 32,618**	**$ 318**	**$ (1,348)**	**$ 31,588**	**$ (17,124)**	**$ (52.28)**
Rate/Value ($/MWh):						**$ (116.82)**	**$ (0.83)**	**$ (27.39)**	**$ -**	**$ (3.67)**	**$ (148.71)**	**$ 99.58**	**$ 0.97**	**$ (4.12)**	**$ 96.44**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($) $ -	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):															**#DIV/0!**		

Astoria Solar (RD108 subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ 5.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Whitney Point (RD108 subscription 0.25 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ -	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	28	186	35	19%	-	$ (1,214)	$ (667)				$ (1,881)	$ 1,907	$ 78		$ 1,985	$ 104	$ 2.97
February	40	174	47	27%	-	$ (1,540)	$ (897)				$ (2,438)	$ 2,533	$ 83		$ 2,616	$ 178	$ 3.78
March	60	186	60	32%	-	$ (1,270)	$ (1,135)				$ (2,405)	$ 3,581	$ 59		$ 3,640	$ 1,235	$ 20.67
April	67	180	58	32%	-	$ (1,390)	$ (1,095)				$ (2,485)	$ 4,098	$ 52		$ 4,149	$ 1,664	$ 28.88
May	83	186	79	42%	-	$ (1,869)	$ (1,500)				$ (3,369)	$ 4,954	$ 63		$ 5,016	$ 1,647	$ 20.86
June	86	180	83	46%	-	$ (4,139)	$ (1,575)				$ (5,714)	$ 4,918	$ 59		$ 4,978	$ (736)	$ (8.89)
July	86	186	80	43%	-	$ (4,720)	$ (1,520)				$ (6,240)	$ 4,863	$ 55		$ 4,918	$ (1,321)	$ (16.52)
August	82	186	75	40%	-	$ (5,497)	$ (1,419)				$ (6,916)	$ 4,386	$ 53		$ 4,439	$ (2,477)	$ (33.17)
September	70	180	60	34%	-	$ (5,878)	$ (1,147)				$ (7,025)	$ 3,547	$ 59		$ 3,605	$ (3,420)	$ (56.67)
October	56	186	53	29%	-	$ (2,118)	$ (1,014)				$ (3,132)	$ 3,153	$ 38		$ 3,192	$ 60	$ 1.13
November	38	180	35	19%	-	$ (1,991)	$ (661)				$ (2,652)	$ 2,141	$ 30		$ 2,170	$ (481)	$ (13.85)
December	28	186	18	10%	-	$ (3,173)	$ (344)				$ (3,518)	$ 1,069	$ 32		$ 1,101	$ (2,416)	$ (133.27)
Annual	**724**	**2,196**	**683**	**31%**		**$ (34,800)**	**$ (12,974)**	**$ -**		**$ -**	**$ (47,774)**	**$ 41,150**	**$ 661**	**$ -**	**$ 41,810**	**$ (5,963)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (RD108 subscription 0.30 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	35	223	24	11%	-	$ (590)	$ (448)	$ -			$ (1,038)	$ 474	$ 52	$ -	$ 526	$ (512)	$ (21.72)
February	49	209	51	24%	-	$ (683)	$ (971)	$ -			$ (1,654)	$ 1,027	$ 40	$ -	$ 1,068	$ (586)	$ (11.48)
March	75	223	59	27%	-	$ (1,161)	$ (1,128)	$ -			$ (2,289)	$ 1,084	$ 92	$ 0	$ 1,177	$ (1,112)	$ (18.74)
April	86	216	70	32%	0.04	$ (1,795)	$ (1,323)	$ (360)			$ (3,478)	$ 2,014	$ 62	$ 10	$ 2,086	$ (1,392)	$ (19.99)
May	100	223	87	39%	0.05	$ (2,047)	$ (1,648)	$ (384)			$ (4,079)	$ 2,450	$ 47	$ 4	$ 2,500	$ (1,578)	$ (18.20)
June	103	216	81	37%	0.09	$ (3,890)	$ (1,533)	$ (744)			$ (6,167)	$ 2,221	$ 54	$ 0	$ 2,275	$ (3,893)	$ (48.24)
July	105	223	89	40%	0.12	$ (5,306)	$ (1,694)	$ (936)			$ (7,936)	$ 2,413	$ 68	$ 1	$ 2,483	$ (5,453)	$ (61.17)
August	99	223	81	36%	0.08	$ (6,805)	$ (1,545)	$ (648)			$ (8,997)	$ 2,183	$ 69	$ 0	$ 2,253	$ (6,745)	$ (82.96)
September	85	216	65	30%	0.04	$ (6,133)	$ (1,243)	$ (336)			$ (7,711)	$ 1,758	$ 107	$ 0	$ 1,865	$ (5,846)	$ (89.39)
October	68	223	54	24%	0.01	$ (2,527)	$ (1,032)	$ (48)			$ (3,608)	$ 1,460	$ 61	$ 0	$ 1,521	$ (2,087)	$ (38.41)
November	43	216	37	17%	0.01	$ (2,561)	$ (709)	$ (48)			$ (3,317)	$ 1,009	$ 49	$ -	$ 1,059	$ (2,259)	$ (60.55)
December	33	223	16	7%	-	$ (3,715)	$ (309)	$ -			$ (4,024)	$ 436	$ 128	$ -	$ 564	$ (3,460)	$ (212.56)
Annual	**883**	**2,635**	**715**	**27%**	**0.44**	$ (37,212)	$ (13,583)	$ (3,504)		$ -	$ (54,298)	$ 18,529	$ 830	$ 16	$ 19,375	$ (34,923)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (RD108 subscription 0.25 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ (221)	$ -	$ -	$ -		$ (221)	$ -	$ 113	$ -	$ 113	$ (109)	
February	-	-	-	0%	-	$ (804)	$ -	$ -	$ -		$ (804)	$ -	$ 88	$ -	$ 88	$ (717)	
March	-	-	2	0%	-	$ (810)	$ (40)	$ -	$ -		$ (850)	$ -	$ 200	$ 16	$ 216	$ (634)	
April	-	-	7	0%	0.25	$ (2,173)	$ (136)	$ (2,000)	$ -		$ (4,310)	$ 1,509	$ 134	$ 464	$ 2,107	$ (2,203)	
May	-	-	5	0%	0.25	$ (2,564)	$ (93)	$ (2,000)	$ (0)		$ (4,658)	$ 1,581	$ 101	$ 340	$ 2,022	$ (2,636)	
June	-	-	0	0%	0.25	$ (1,706)	$ (5)	$ (2,000)	$ -		$ (3,711)	$ 1,411	$ 117	$ 62	$ 1,589	$ (2,121)	
July	-	-	2	0%	0.25	$ (1,304)	$ (35)	$ (2,000)	$ -		$ (3,339)	$ 1,527	$ 148	$ 312	$ 1,987	$ (1,352)	
August	-	-	0	0%	0.25	$ (1,912)	$ (5)	$ (2,000)	$ -		$ (3,917)	$ 1,424	$ 150	$ 589	$ 2,163	$ (1,754)	
September	-	-	0	0%	0.25	$ 428	$ (7)	$ (2,000)	$ (3,088)		$ (4,668)	$ 1,372	$ 231	$ 22	$ 1,625	$ (3,043)	
October	-	-	0	0%	0.25	$ (1,021)	$ (5)	$ (2,000)	$ -		$ (3,026)	$ 1,531	$ 132	$ 20	$ 1,682	$ (1,343)	
November	-	-	1	0%	0.25	$ (445)	$ (14)	$ (2,000)	$ -		$ (2,459)	$ 1,675	$ 107	$ -	$ 1,782	$ (677)	
December	-	-	-	0%	0.25	$ (753)	$ -	$ -	$ -		$ (753)	$ 1,675	$ 276	$ -	$ 1,951	$ 1,198	
Annual	**-**	**-**	**18**	**0%**	**2.25**	$ (13,286)	$ (340)	$ (16,000)		$ -	$ (32,715)	$ 13,703	$ 1,797	$ 1,824	$ 17,325	$ (15,391)	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	110	133	33	25%	0.18	$ (2,171)	$ -	$ (2,693)	$ (58)	$ 428	$ (4,494)	$ 3,167	$ 40	$ 1,478	$ 4,684	$ 191	$ 5.76
February	67	124	18	14%	0.18	$ (1,336)	$ -	$ (2,693)	$ (34)	$ 227	$ (3,835)	$ 2,329	$ 42	$ 1,478	$ 3,850	$ 15	$ 0.84
March	-	132	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,103	$ 50	$ 1,478	$ 2,631	$ 2,631	$ -
April	-	128	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 1,103	$ 68	$ 1,478	$ 2,649	$ 2,649	$ -
May	-	133	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,103	$ 46	$ 1,478	$ 2,627	$ 2,627	$ -
June	96	128	9	7%	-	$ (1,194)	$ -	$ -	$ (11)	$ 116	$ (1,089)	$ 2,375	$ 60	$ 1,478	$ 3,913	$ 2,824	$ 316.10
July	122	133	30	23%	0.18	$ (2,817)	$ -	$ (2,693)	$ (21)	$ 389	$ (5,142)	$ 4,139	$ 43	$ 1,478	$ 5,659	$ 517	$ 17.20
August	125	133	79	60%	0.18	$ (8,602)	$ -	$ (2,693)	$ (38)	$ 1,027	$ (10,306)	$ 8,769	$ 79	$ 1,478	$ 10,325	$ 19	$ 0.24
September	118	128	59	46%	0.18	$ (9,706)	$ -	$ (2,693)	$ -	$ 769	$ (11,629)	$ 8,249	$ 36	$ 1,478	$ 9,763	$ (1,866)	$ (31.40)
October	102	133	60	45%	0.18	$ (4,796)	$ -	$ (2,693)	$ -	$ 776	$ (6,713)	$ 5,959	$ 38	$ 1,478	$ 7,475	$ 762	$ 12.72
November	95	128	97	76%	0.18	$ (9,743)	$ -	$ (2,693)	$ -	$ 1,258	$ (11,178)	$ 9,998	$ 44	$ 1,478	$ 11,520	$ 341	$ 3.51
December	110	133	114	86%	0.18	$ (31,962)	$ -	$ (2,693)	$ (43)	$ 1,470	$ (33,228)	$ 30,057	$ 42	$ 1,478	$ 31,577	$ (1,651)	$ (14.53)
Annual	**944**	**1,565**	**499**	**32%**	**1.44**	**$ (72,327)**	**$ -**	**$ (21,541)**	**$ (205)**	**$ 6,460**	**$ (87,613)**	**$ 78,352**	**$ 587**	**$ 17,734**	**$ 96,673**	**$ 9,060**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 SCVWD

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) $ 5.70	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		47		0.12	$ (3,654)	$ (67)	$ (584)		$ -	$ (4,306)	$ 4,700	$ 47	$ -	$ 4,747	$ 441	$ 9.29
February	-		39		0.13	$ (2,646)	$ (33)	$ (657)		$ -	$ (3,336)	$ 3,900	$ 56	$ -	$ 3,956	$ 620	$ 15.73
March	1		66		0.19	$ (4,795)	$ (29)	$ (949)		$ -	$ (5,773)	$ 6,557	$ 58	$ -	$ 6,615	$ 842	$ 12.71
April	218		80		0.36	$ (7,572)	$ (38)	$ (1,825)		$ -	$ (9,435)	$ 7,873	$ 45	$ (280)	$ 7,638	$ (1,797)	$ (22.60)
May	373		121		0.55	$ (12,041)	$ (55)	$ (2,774)		$ -	$ (14,869)	$ 11,984	$ 79	$ (570)	$ 11,493	$ (3,377)	$ (27.90)
June	369		121		0.74	$ (12,950)	$ (71)	$ (3,723)		$ -	$ (16,743)	$ 11,966	$ 60	$ (756)	$ 11,270	$ (5,474)	$ (45.31)
July	350		154		0.79	$ (14,458)	$ (122)	$ (3,942)		$ -	$ (18,522)	$ 15,246	$ 56	$ (1,044)	$ 14,257	$ (4,264)	$ (27.69)
August	267		107		0.66	$ (14,198)	$ (95)	$ (3,285)		$ -	$ (17,578)	$ 10,635	$ 76	$ (782)	$ 9,929	$ (7,648)	$ (71.40)
September	155		45		0.42	$ (14,060)	$ (58)	$ (2,117)		$ -	$ (16,235)	$ 4,543	$ 75	$ (26)	$ 4,592	$ (11,643)	$ (257.86)
October	106		61		0.29	$ (5,343)	$ (42)	$ (1,460)		$ -	$ (6,844)	$ 6,053	$ 94	$ (5)	$ 6,141	$ (703)	$ (11.50)
November	76		30		0.16	$ (3,348)	$ (35)	$ (803)		$ -	$ (4,185)	$ 3,011	$ 110	$ -	$ 3,121	$ (1,064)	$ (35.75)
December	103		44		0.10	$ (13,524)	$ (42)	$ (511)		$ -	$ (14,078)	$ 6,991	$ 46	$ -	$ 7,037	$ (7,041)	$ (159.03)
Annual	**2,018**		**916**			**$ (108,588)**	**$ (687)**	**$ (22,628)**			**$ (131,904)**	**$ 93,459**	**$ 801**	**$ (3,463)**	**$ 90,796**	**$ (41,107)**	**$ (44.88)**
Rate/Value ($/MWh):						**$ (118.55)**	**$ (0.75)**	**$ (24.71)**	**$ -**	**$ -**	**$ (144.01)**	**$ 102.04**	**$ 0.87**	**$ (3.78)**	**$ 99.13**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-			$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($) $ -	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (SCVWD subscription 0.40 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ 5.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	67	298	66	22%	0.02	$ (1,953)	$ (1,257)	$ (80)			$ (3,291)	$ 4,169	$ 45		$ 4,214	$ 923	$ 13.95
February	70	279	85	31%	0.01	$ (1,368)	$ (1,619)	$ (60)			$ (3,047)	$ 5,374	$ 49		$ 5,423	$ 2,376	$ 27.88
March	105	298	108	36%	0.07	$ (1,842)	$ (2,043)	$ (361)			$ (4,246)	$ 6,778	$ 44		$ 6,823	$ 2,577	$ 23.97
April	113	289	123	43%	0.06	$ (3,611)	$ (2,337)	$ (301)			$ (6,248)	$ 7,751	$ 94		$ 7,845	$ 1,597	$ 12.98
May	130	298	138	46%	0.06	$ (4,446)	$ (2,626)	$ (321)			$ (7,393)	$ 8,706	$ 55		$ 8,761	$ 1,368	$ 9.90
June	137	289	137	48%	0.12	$ (7,144)	$ (2,606)	$ (622)			$ (10,371)	$ 8,640	$ 73		$ 8,713	$ (1,658)	$ (12.09)
July	135	298	137	46%	0.16	$ (8,688)	$ (2,610)	$ (782)			$ (12,080)	$ 8,655	$ 77		$ 8,732	$ (3,348)	$ (24.37)
August	127	298	128	43%	0.11	$ (11,628)	$ (2,423)	$ (541)			$ (14,592)	$ 8,033	$ 58		$ 8,091	$ (6,501)	$ (50.99)
September	113	289	104	36%	0.06	$ (9,428)	$ (1,981)	$ (281)			$ (11,690)	$ 6,567	$ 55		$ 6,622	$ (5,067)	$ (48.61)
October	92	298	96	32%	0.01	$ (4,411)	$ (1,816)	$ (40)			$ (6,267)	$ 6,021	$ 49		$ 6,070	$ (197)	$ (2.06)
November	69	289	69	24%	0.01	$ (3,605)	$ (1,318)	$ (40)			$ (4,963)	$ 4,375	$ 57		$ 4,432	$ (531)	$ (7.65)
December	60	298	50	17%	-	$ (10,181)	$ (956)	$ -			$ (11,137)	$ 3,170	$ 56		$ 3,227	$ (7,910)	$ (157.19)
Annual	**1,217**	**3,522**	**1,242**	**35%**	**0.69**	**$ (68,305)**	**$ (23,591)**	**$ (3,429)**		**$ -**	**$ (95,324)**	**$ 78,240**	**$ 711**	**$ -**	**$ 78,952**	**$ (16,373)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (SCVWD subscription 0.75 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ -	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	85	558	105	19%	-	$ (3,642)	$ (2,000)				$ (5,643)	$ 5,721	$ 234		$ 5,955	$ 312	$ 2.97
February	120	522	142	27%	-	$ (4,621)	$ (2,692)				$ (7,313)	$ 7,599	$ 250		$ 7,849	$ 535	$ 3.78
March	180	557	179	32%	-	$ (3,809)	$ (3,406)				$ (7,215)	$ 10,742	$ 178		$ 10,920	$ 3,705	$ 20.67
April	202	540	173	32%	-	$ (4,169)	$ (3,286)				$ (7,455)	$ 12,293	$ 155		$ 12,448	$ 4,993	$ 28.88
May	248	558	237	42%	-	$ (5,607)	$ (4,501)				$ (10,108)	$ 14,861	$ 188		$ 15,049	$ 4,941	$ 20.86
June	259	540	249	46%	-	$ (12,418)	$ (4,724)				$ (17,142)	$ 14,755	$ 178		$ 14,933	$ (2,209)	$ (8.89)
July	259	558	240	43%	-	$ (14,159)	$ (4,561)				$ (18,719)	$ 14,590	$ 164		$ 14,755	$ (3,964)	$ (16.52)
August	246	558	224	40%	-	$ (16,492)	$ (4,256)				$ (20,748)	$ 13,159	$ 159		$ 13,318	$ (7,430)	$ (33.17)
September	211	540	181	34%	-	$ (17,635)	$ (3,440)				$ (21,075)	$ 10,640	$ 176		$ 10,815	$ (10,260)	$ (56.67)
October	169	558	160	29%	-	$ (6,354)	$ (3,041)				$ (9,395)	$ 9,460	$ 115		$ 9,575	$ 180	$ 1.13
November	113	541	104	19%	-	$ (5,974)	$ (1,982)				$ (7,955)	$ 6,422	$ 89		$ 6,511	$ (1,444)	$ (13.85)
December	83	558	54	10%	-	$ (9,519)	$ (1,033)				$ (10,553)	$ 3,207	$ 97		$ 3,304	$ (7,249)	$ (133.27)
Annual	**2,173**	**6,588**	**2,048**	**31%**		**$ (104,400)**	**$ (38,921)**	**$ -**		**$ -**	**$ (143,321)**	**$ 123,449**	**$ 1,982**	**$ -**	**$ 125,431**	**$ (17,890)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (SCVWD subscription 1.50 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	176	1,116	118	11%	-	$ (2,952)	$ (2,241)	$ -			$ (5,192)	$ 2,371	$ 260	$ -	$ 2,631	$ (2,561)	$ (21.72)
February	246	1,044	255	24%	-	$ (3,416)	$ (4,853)	$ -			$ (8,270)	$ 5,136	$ 202	$ -	$ 5,338	$ (2,931)	$ (11.48)
March	376	1,114	297	27%	-	$ (5,805)	$ (5,638)	$ -			$ (11,443)	$ 5,421	$ 462	$ 1	$ 5,883	$ (5,560)	$ (18.74)
April	431	1,080	348	32%	0.22	$ (8,974)	$ (6,617)	$ (1,800)			$ (17,391)	$ 10,072	$ 308	$ 51	$ 10,431	$ (6,960)	$ (19.99)
May	498	1,116	434	39%	0.24	$ (10,233)	$ (8,242)	$ (1,920)			$ (20,395)	$ 12,248	$ 234	$ 21	$ 12,503	$ (7,893)	$ (18.20)
June	516	1,080	404	37%	0.46	$ (19,451)	$ (7,667)	$ (3,720)			$ (30,837)	$ 11,104	$ 269	$ 0	$ 11,373	$ (19,464)	$ (48.24)
July	524	1,116	446	40%	0.58	$ (26,530)	$ (8,469)	$ (4,680)			$ (39,679)	$ 12,064	$ 342	$ 7	$ 12,413	$ (27,266)	$ (61.17)
August	497	1,116	407	36%	0.40	$ (34,024)	$ (7,724)	$ (3,240)			$ (44,987)	$ 10,914	$ 347	$ 2	$ 11,263	$ (33,724)	$ (82.96)
September	427	1,080	327	30%	0.21	$ (30,664)	$ (6,213)	$ (1,680)			$ (38,557)	$ 8,791	$ 534	$ 0	$ 9,325	$ (29,232)	$ (89.39)
October	339	1,116	272	24%	0.03	$ (12,637)	$ (5,162)	$ (240)			$ (18,039)	$ 7,299	$ 304	$ 0	$ 7,604	$ (10,435)	$ (38.41)
November	217	1,081	187	17%	0.03	$ (12,804)	$ (3,544)	$ (240)			$ (16,588)	$ 5,046	$ 247	$ -	$ 5,293	$ (11,295)	$ (60.55)
December	167	1,116	81	7%	-	$ (18,575)	$ (1,546)	$ -			$ (20,121)	$ 2,182	$ 638	$ -	$ 2,820	$ (17,301)	$ (212.56)
Annual	4,415	13,176	3,575	27%	2.19	$ (186,064)	$ (67,916)	$ (17,520)		$ -	$ (271,500)	$ 92,649	$ 4,148	$ 81	$ 96,878	$ (174,623)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (SCVWD subscription 0.50 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ (443)	$ -	$ -	$ -		$ (443)	$ -	$ 225	$ -	$ 225	$ (217)	
February	-	-	-	0%	-	$ (1,608)	$ -	$ -	$ -		$ (1,608)	$ -	$ 175	$ -	$ 175	$ (1,433)	
March	-	-	4	0%	-	$ (1,620)	$ (80)	$ -	$ -		$ (1,700)	$ -	$ 400	$ 31	$ 432	$ (1,268)	
April	-	-	14	0%	0.50	$ (4,347)	$ (273)	$ (4,000)	$ -		$ (8,620)	$ 3,018	$ 267	$ 928	$ 4,213	$ (4,407)	
May	-	-	10	0%	0.50	$ (5,129)	$ (187)	$ (4,000)	$ (0)		$ (9,316)	$ 3,161	$ 202	$ 680	$ 4,044	$ (5,272)	
June	-	-	1	0%	0.50	$ (3,411)	$ (10)	$ (4,000)	$ -		$ (7,421)	$ 2,822	$ 233	$ 124	$ 3,179	$ (4,242)	
July	-	-	4	0%	0.50	$ (2,609)	$ (70)	$ (4,000)	$ -		$ (6,678)	$ 3,054	$ 297	$ 624	$ 3,975	$ (2,704)	
August	-	-	1	0%	0.50	$ (3,824)	$ (10)	$ (4,000)	$ -		$ (7,833)	$ 2,847	$ 301	$ 1,177	$ 4,325	$ (3,508)	
September	-	-	1	0%	0.50	$ 855	$ (15)	$ (4,000)	$ (6,176)		$ (9,336)	$ 2,744	$ 463	$ 43	$ 3,250	$ (6,086)	
October	-	-	0	0%	0.50	$ (2,042)	$ (9)	$ (4,000)	$ -		$ (6,051)	$ 3,061	$ 264	$ 39	$ 3,364	$ (2,687)	
November	-	-	1	0%	0.50	$ (890)	$ (28)	$ (4,000)	$ -		$ (4,918)	$ 3,350	$ 214	$ -	$ 3,564	$ (1,354)	
December	-	-	-	0%	0.50	$ (1,507)	$ -	$ -	$ -		$ (1,507)	$ 3,350	$ 553	$ -	$ 3,903	$ 2,396	
Annual	-	-	36	0%	4.50	$ (26,573)	$ (681)	$ (32,000)		$ -	$ (65,430)	$ 27,407	$ 3,595	$ 3,648	$ 34,649	$ (30,781)	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	315	381	95	25%	0.52	$ (6,238)	$ -	$ (7,737)	$ (167)	$ 1,230	$ (12,912)	$ 9,099	$ 114	$ 4,247	$ 13,460	$ 548	$ 5.76
February	193	356	51	14%	0.52	$ (3,838)	$ -	$ (7,737)	$ (98)	$ 654	$ (11,020)	$ 6,693	$ 122	$ 4,247	$ 11,062	$ 42	$ 0.84
March	-	380	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,170	$ 142	$ 4,247	$ 7,559	$ 7,559	$ -
April	-	369	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 3,170	$ 194	$ 4,247	$ 7,611	$ 7,611	$ -
May	-	381	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,170	$ 132	$ 4,247	$ 7,549	$ 7,549	$ -
June	276	369	26	7%	-	$ (3,430)	$ -	$ -	$ (31)	$ 332	$ (3,129)	$ 6,825	$ 172	$ 4,247	$ 11,244	$ 8,115	$ 316.10
July	351	381	86	23%	0.52	$ (8,095)	$ -	$ (7,737)	$ (60)	$ 1,118	$ (14,774)	$ 11,892	$ 122	$ 4,246	$ 16,260	$ 1,486	$ 17.20
August	358	381	228	60%	0.52	$ (24,717)	$ -	$ (7,737)	$ (109)	$ 2,950	$ (29,613)	$ 25,195	$ 227	$ 4,246	$ 29,668	$ 55	$ 0.24
September	338	369	171	46%	0.52	$ (27,887)	$ -	$ (7,737)	$ -	$ 2,210	$ (33,414)	$ 23,703	$ 103	$ 4,246	$ 28,052	$ (5,363)	$ (31.40)
October	293	381	172	45%	0.52	$ (13,780)	$ -	$ (7,737)	$ -	$ 2,229	$ (19,288)	$ 17,123	$ 110	$ 4,246	$ 21,479	$ 2,191	$ 12.72
November	274	369	279	76%	0.52	$ (27,996)	$ -	$ (7,737)	$ -	$ 3,613	$ (32,119)	$ 28,728	$ 126	$ 4,246	$ 33,100	$ 981	$ 3.51
December	315	381	326	86%	0.52	$ (91,838)	$ -	$ (7,737)	$ (124)	$ 4,224	$ (95,475)	$ 86,364	$ 121	$ 4,246	$ 90,731	$ (4,743)	$ (14.53)
Annual	**2,713**	**4,497**	**1,435**	**32%**	**4.13**	**$ (207,819)**	**$ -**	**$ (61,896)**	**$ (589)**	**$ 18,561**	**$ (251,743)**	**$ 225,132**	**$ 1,687**	**$ 50,957**	**$ 277,775**	**$ 26,032**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 SCWA

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) $ 5.70	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		98		0.21	$ (7,542)	$ (123)	$ (1,068)		$ -	$ (8,733)	$ 9,717	$ 86	$ -	$ 9,803	$ 1,070	$ 10.90
February	-		72		0.24	$ (4,858)	$ (61)	$ (1,201)		$ -	$ (6,121)	$ 7,172	$ 103	$ -	$ 7,275	$ 1,154	$ 15.93
March	1		119		0.35	$ (8,657)	$ (53)	$ (1,735)		$ -	$ (10,445)	$ 11,817	$ 106	$ -	$ 11,923	$ 1,478	$ 12.38
April	398		146		0.67	$ (13,889)	$ (69)	$ (3,337)		$ -	$ (17,295)	$ 14,449	$ 82	$ (514)	$ 14,017	$ (3,278)	$ (22.46)
May	683		222		1.01	$ (22,095)	$ (100)	$ (5,073)		$ -	$ (27,268)	$ 21,994	$ 144	$ (1,046)	$ 21,092	$ (6,176)	$ (27.81)
June	674		221		1.36	$ (23,735)	$ (129)	$ (6,808)		$ -	$ (30,673)	$ 21,937	$ 109	$ (1,386)	$ 20,660	$ (10,013)	$ (45.22)
July	641		279		1.44	$ (26,252)	$ (223)	$ (7,208)		$ -	$ (33,684)	$ 27,665	$ 102	$ (1,895)	$ 25,872	$ (7,812)	$ (27.95)
August	489		195		1.20	$ (25,791)	$ (174)	$ (6,007)		$ -	$ (31,973)	$ 19,296	$ 139	$ (1,420)	$ 18,015	$ (13,958)	$ (71.74)
September	284		82		0.77	$ (25,606)	$ (107)	$ (3,871)		$ -	$ (29,584)	$ 8,236	$ 137	$ (47)	$ 8,326	$ (21,258)	$ (258.66)
October	194		111		0.53	$ (9,716)	$ (76)	$ (2,670)		$ -	$ (12,462)	$ 11,006	$ 171	$ (10)	$ 11,168	$ (1,295)	$ (11.64)
November	139		54		0.29	$ (6,032)	$ (64)	$ (1,468)		$ -	$ (7,564)	$ 5,420	$ 202	$ -	$ 5,622	$ (1,942)	$ (36.20)
December	188		88		0.19	$ (26,939)	$ (77)	$ (934)		$ -	$ (27,950)	$ 14,222	$ 83	$ -	$ 14,305	$ (13,646)	$ (155.59)
Annual	**3,691**		**1,688**			**$ (201,112)**	**$ (1,257)**	**$ (41,382)**			**$ (243,750)**	**$ 172,929**	**$ 1,465**	**$ (6,318)**	**$ 168,076**	**$ (75,674)**	**$ (44.82)**
Rate/Value ($/MWh):						**$ (119.12)**	**$ (0.74)**	**$ (24.51)**	**$ -**	**$ -**	**$ (144.38)**	**$ 102.43**	**$ 0.87**	**$ (3.74)**	**$ 99.56**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($) $ -	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	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):																	

Astoria Solar (SCWA subscription 1.05 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ 5.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	174	779	173	22%	0.04	$ (5,100)	$ (3,282)	$ (209)			$ (8,591)	$ 10,884	$ 118		$ 11,002	$ 2,410	$ 13.95
February	182	729	222	31%	0.03	$ (3,573)	$ (4,227)	$ (157)			$ (7,957)	$ 14,031	$ 128		$ 14,160	$ 6,203	$ 27.88
March	275	778	281	36%	0.19	$ (4,810)	$ (5,334)	$ (942)			$ (11,086)	$ 17,698	$ 115		$ 17,813	$ 6,728	$ 23.97
April	295	754	321	43%	0.16	$ (9,428)	$ (6,101)	$ (785)			$ (16,314)	$ 20,238	$ 245		$ 20,483	$ 4,169	$ 12.98
May	339	779	361	46%	0.17	$ (11,609)	$ (6,855)	$ (838)			$ (19,302)	$ 22,731	$ 142		$ 22,874	$ 3,572	$ 9.90
June	357	754	358	48%	0.32	$ (18,653)	$ (6,804)	$ (1,623)			$ (27,079)	$ 22,560	$ 189		$ 22,749	$ (4,330)	$ (12.09)
July	352	779	359	46%	0.41	$ (22,683)	$ (6,815)	$ (2,042)			$ (31,540)	$ 22,598	$ 200		$ 22,798	$ (8,742)	$ (24.37)
August	332	779	333	43%	0.28	$ (30,361)	$ (6,325)	$ (1,413)			$ (38,100)	$ 20,974	$ 152		$ 21,126	$ (16,974)	$ (50.99)
September	294	754	272	36%	0.15	$ (24,617)	$ (5,171)	$ (733)			$ (30,521)	$ 17,146	$ 144		$ 17,290	$ (13,231)	$ (48.61)
October	241	779	250	32%	0.02	$ (11,517)	$ (4,741)	$ (105)			$ (16,363)	$ 15,721	$ 127		$ 15,848	$ (515)	$ (2.06)
November	180	755	181	24%	0.02	$ (9,412)	$ (3,441)	$ (105)			$ (12,958)	$ 11,423	$ 149		$ 11,573	$ (1,386)	$ (7.65)
December	158	779	131	17%	-	$ (26,581)	$ (2,496)	$ -			$ (29,078)	$ 8,278	$ 147		$ 8,425	$ (20,653)	$ (157.19)
Annual	**3,178**	**9,197**	**3,242**	**35%**	**1.79**	**$ (178,343)**	**$ (61,594)**	**$ (8,952)**		**$ -**	**$ (248,890)**	**$ 204,283**	**$ 1,857**	**$ -**	**$ 206,140**	**$ (42,749)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (SCWA subscription 2.80 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ -	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	316	2,083	393	19%	-	$ (13,598)	$ (7,468)				$ (21,065)	$ 21,360	$ 872		$ 22,232	$ 1,166	$ 2.97
February	446	1,949	529	27%	-	$ (17,253)	$ (10,050)				$ (27,303)	$ 28,369	$ 933		$ 29,302	$ 1,998	$ 3.78
March	673	2,080	669	32%	-	$ (14,221)	$ (12,715)				$ (26,937)	$ 40,102	$ 665		$ 40,767	$ 13,830	$ 20.67
April	754	2,016	646	32%	-	$ (15,565)	$ (12,266)				$ (27,831)	$ 45,893	$ 579		$ 46,473	$ 18,642	$ 28.88
May	925	2,083	884	42%	-	$ (20,933)	$ (16,803)				$ (37,736)	$ 55,480	$ 702		$ 56,182	$ 18,446	$ 20.86
June	965	2,016	928	46%	-	$ (46,359)	$ (17,637)				$ (63,996)	$ 55,084	$ 664		$ 55,748	$ (8,248)	$ (8.89)
July	965	2,083	896	43%	-	$ (52,859)	$ (17,026)				$ (69,885)	$ 54,471	$ 614		$ 55,085	$ (14,800)	$ (16.52)
August	917	2,083	836	40%	-	$ (61,571)	$ (15,888)				$ (77,459)	$ 49,128	$ 592		$ 49,720	$ (27,739)	$ (33.17)
September	787	2,016	676	34%	-	$ (65,839)	$ (12,842)				$ (78,681)	$ 39,722	$ 655		$ 40,377	$ (38,304)	$ (56.67)
October	633	2,083	597	29%	-	$ (23,721)	$ (11,352)				$ (35,074)	$ 35,317	$ 430		$ 35,747	$ 673	$ 1.13
November	422	2,019	389	19%	-	$ (22,302)	$ (7,398)				$ (29,700)	$ 23,976	$ 333		$ 24,309	$ (5,391)	$ (13.85)
December	308	2,083	203	10%	-	$ (35,539)	$ (3,858)				$ (39,397)	$ 11,973	$ 361		$ 12,334	$ (27,063)	$ (133.27)
Annual	**8,112**	**24,595**	**7,648**	**31%**		**$ (389,760)**	**$ (145,304)**	**$ -**		**$ -**	**$ (535,064)**	**$ 460,875**	**$ 7,400**	**$ -**	**$ 468,275**	**$ (66,789)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (SCWA subscription 1.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	118	744	79	11%	-	$ (1,968)	$ (1,494)	$ -			$ (3,462)	$ 1,581	$ 173	$ -	$ 1,754	$ (1,707)	$ (21.72)
February	164	696	170	24%	-	$ (2,278)	$ (3,236)	$ -			$ (5,513)	$ 3,424	$ 135	$ -	$ 3,559	$ (1,954)	$ (11.48)
March	250	743	198	27%	-	$ (3,870)	$ (3,759)	$ -			$ (7,629)	$ 3,614	$ 308	$ 0	$ 3,922	$ (3,707)	$ (18.74)
April	288	720	232	32%	0.15	$ (5,983)	$ (4,412)	$ (1,200)			$ (11,594)	$ 6,714	$ 206	$ 34	$ 6,954	$ (4,640)	$ (19.99)
May	332	744	289	39%	0.16	$ (6,822)	$ (5,495)	$ (1,280)			$ (13,597)	$ 8,166	$ 156	$ 14	$ 8,335	$ (5,262)	$ (18.20)
June	344	720	269	37%	0.31	$ (12,967)	$ (5,111)	$ (2,480)			$ (20,559)	$ 7,403	$ 179	$ 0	$ 7,582	$ (12,976)	$ (48.24)
July	349	744	297	40%	0.39	$ (17,687)	$ (5,646)	$ (3,120)			$ (26,453)	$ 8,043	$ 228	$ 5	$ 8,275	$ (18,178)	$ (61.17)
August	331	744	271	36%	0.27	$ (22,683)	$ (5,149)	$ (2,160)			$ (29,992)	$ 7,276	$ 231	$ 1	$ 7,509	$ (22,483)	$ (82.96)
September	285	720	218	30%	0.14	$ (20,443)	$ (4,142)	$ (1,120)			$ (25,705)	$ 5,861	$ 356	$ 0	$ 6,217	$ (19,488)	$ (89.39)
October	226	744	181	24%	0.02	$ (8,425)	$ (3,442)	$ (160)			$ (12,026)	$ 4,866	$ 203	$ 0	$ 5,069	$ (6,957)	$ (38.41)
November	145	721	124	17%	0.02	$ (8,536)	$ (2,363)	$ (160)			$ (11,059)	$ 3,364	$ 165	$ -	$ 3,529	$ (7,530)	$ (60.55)
December	112	744	54	7%	-	$ (12,383)	$ (1,031)	$ -			$ (13,414)	$ 1,455	$ 425	$ -	$ 1,880	$ (11,534)	$ (212.56)
Annual	2,943	8,784	2,383	27%	1.46	$ (124,045)	$ (45,278)	$ (11,680)		$ -	$ (181,003)	$ 61,767	$ 2,765	$ 54	$ 64,586	$ (116,417)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (SCWA subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
February	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
March	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
April	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
May	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
June	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
July	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
August	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
September	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
October	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
November	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
December	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -		$ -	$ -	
Annual	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

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, and actual generation with capacity factors.

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

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 WSID

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) $ 5.70	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		56		0.40	$ (4,350)	$ (232)	$ (2,010)		$ (63)	$ (6,656)	$ 5,522	$ 162	$ -	$ 5,684	$ (972)	$ (17.42)
February	-		128		0.45	$ (8,594)	$ (115)	$ (2,261)		$ (458)	$ (11,428)	$ 12,692	$ 193	$ -	$ 12,885	$ 1,458	$ 11.36
March	3		218		0.65	$ (15,858)	$ (99)	$ (3,266)		$ (789)	$ (20,012)	$ 21,573	$ 199	$ -	$ 21,773	$ 1,760	$ 8.07
April	749		271		1.26	$ (25,858)	$ (130)	$ (6,281)		$ (986)	$ (33,255)	$ 26,870	$ 155	$ (955)	$ 26,069	$ (7,186)	$ (26.48)
May	1,285		411		1.91	$ (40,884)	$ (188)	$ (9,548)		$ (1,515)	$ (52,135)	$ 40,667	$ 271	$ (1,935)	$ 39,003	$ (13,132)	$ (31.96)
June	1,269		410		2.56	$ (43,962)	$ (244)	$ (12,814)		$ (1,523)	$ (58,543)	$ 40,578	$ 206	$ (2,567)	$ 38,217	$ (20,326)	$ (49.58)
July	1,206		518		2.71	$ (48,680)	$ (420)	$ (13,568)		$ (1,925)	$ (64,592)	$ 51,221	$ 192	$ (3,510)	$ 47,903	$ (16,688)	$ (32.24)
August	920		362		2.26	$ (48,004)	$ (328)	$ (11,306)		$ (1,346)	$ (60,984)	$ 35,837	$ 262	$ (2,643)	$ 33,457	$ (27,527)	$ (76.04)
September	534		153		1.46	$ (47,769)	$ (200)	$ (7,286)		$ (570)	$ (55,826)	$ 15,225	$ 258	$ (88)	$ 15,396	$ (40,430)	$ (263.55)
October	366		207		1.01	$ (18,109)	$ (143)	$ (5,025)		$ (769)	$ (24,046)	$ 20,508	$ 323	$ (18)	$ 20,813	$ (3,233)	$ (15.60)
November	261		59		0.55	$ (6,488)	$ (120)	$ (2,764)		$ (301)	$ (9,672)	$ 5,691	$ 379	$ -	$ 6,071	$ (3,601)	$ (60.56)
December	354		65		0.35	$ (18,978)	$ (146)	$ (1,759)		$ (262)	$ (21,144)	$ 5,940	$ 157	$ -	$ 6,097	$ (15,048)	$ (233.04)
Annual	**6,947**		**2,859**			**$ (327,534)**	**$ (2,365)**	**$ (77,888)**		**$ (10,505)**	**$ (418,292)**	**$ 282,325**	**$ 2,758**	**$ (11,715)**	**$ 273,367**	**$ (144,925)**	**$ (50.70)**
Rate/Value ($/MWh):						**$ (114.58)**	**$ (0.83)**	**$ (27.25)**	**$ -**	**$ (3.68)**	**$ (146.33)**	**$ 98.76**	**$ 0.96**	**$ (4.10)**	**$ 95.63**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh) $ 19.00	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($) $ -	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):															**#DIV/0!**		

Astoria Solar (WSID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh) $ 5.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Whitney Point (WSID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ -	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Slate - Solar (WSID subscription 2.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	235	1,488	157	11%	-	$ (3,935)	$ (2,987)	$ -			$ (6,921)	$ 3,161	$ 347	$ -	$ 3,507	$ (3,414)	$ (21.72)
February	328	1,392	340	24%	-	$ (4,554)	$ (6,469)	$ -			$ (11,023)	$ 6,846	$ 270	$ -	$ 7,116	$ (3,907)	$ (11.48)
March	501	1,486	396	27%	-	$ (7,738)	$ (7,515)	$ -			$ (15,253)	$ 7,226	$ 616	$ 1	$ 7,842	$ (7,411)	$ (18.74)
April	575	1,440	464	32%	0.30	$ (11,962)	$ (8,820)	$ (2,399)			$ (23,181)	$ 13,425	$ 411	$ 68	$ 13,904	$ (9,278)	$ (19.99)
May	663	1,488	578	39%	0.32	$ (13,640)	$ (10,986)	$ (2,559)			$ (27,186)	$ 16,326	$ 311	$ 27	$ 16,665	$ (10,521)	$ (18.20)
June	688	1,440	538	37%	0.62	$ (25,927)	$ (10,219)	$ (4,959)			$ (41,104)	$ 14,801	$ 359	$ 0	$ 15,160	$ (25,944)	$ (48.24)
July	698	1,488	594	40%	0.78	$ (35,363)	$ (11,289)	$ (6,238)			$ (52,890)	$ 16,081	$ 456	$ 9	$ 16,546	$ (36,344)	$ (61.17)
August	663	1,488	542	36%	0.54	$ (45,352)	$ (10,295)	$ (4,319)			$ (59,965)	$ 14,547	$ 463	$ 3	$ 15,013	$ (44,953)	$ (82.96)
September	569	1,440	436	30%	0.28	$ (40,873)	$ (8,282)	$ (2,239)			$ (51,394)	$ 11,718	$ 712	$ 0	$ 12,430	$ (38,964)	$ (89.39)
October	452	1,488	362	24%	0.04	$ (16,844)	$ (6,881)	$ (320)			$ (24,045)	$ 9,730	$ 406	$ 0	$ 10,136	$ (13,909)	$ (38.41)
November	290	1,442	249	17%	0.04	$ (17,067)	$ (4,724)	$ (320)			$ (22,111)	$ 6,726	$ 329	$ -	$ 7,056	$ (15,055)	$ (60.55)
December	223	1,488	108	7%	-	$ (24,759)	$ (2,061)	$ -			$ (26,821)	$ 2,909	$ 850	$ -	$ 3,759	$ (23,062)	$ (212.56)
Annual	5,885	17,563	4,765	27%	2.92	$ (248,013)	$ (90,528)	$ (23,353)		$ -	$ (361,894)	$ 123,495	$ 5,529	$ 108	$ 129,132	$ (232,761)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (WSID subscription 1.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ (885)	$ -	$ -	$ -		$ (885)	$ -	$ 451	$ -	$ 451	$ (434)	
February	-	-	-	0%	-	$ (3,217)	$ -	$ -	$ -		$ (3,217)	$ -	$ 351	$ -	$ 351	$ (2,866)	
March	-	-	8	0%	-	$ (3,239)	$ (160)	$ -	$ -		$ (3,400)	$ -	$ 801	$ 63	$ 863	$ (2,537)	
April	-	-	29	0%	1.00	$ (8,694)	$ (545)	$ (8,000)	$ -		$ (17,239)	$ 6,035	$ 534	$ 1,856	$ 8,426	$ (8,813)	
May	-	-	20	0%	1.00	$ (10,258)	$ (374)	$ (8,000)	$ (0)		$ (18,632)	$ 6,322	$ 405	$ 1,361	$ 8,088	$ (10,543)	
June	-	-	1	0%	1.00	$ (6,822)	$ (20)	$ (8,000)	$ -		$ (14,842)	$ 5,643	$ 467	$ 248	$ 6,358	$ (8,485)	
July	-	-	7	0%	1.00	$ (5,217)	$ (140)	$ (8,000)	$ -		$ (13,357)	$ 6,108	$ 593	$ 1,249	$ 7,949	$ (5,407)	
August	-	-	1	0%	1.00	$ (7,647)	$ (19)	$ (8,000)	$ -		$ (15,666)	$ 5,694	$ 602	$ 2,354	$ 8,651	$ (7,015)	
September	-	-	2	0%	1.00	$ 1,710	$ (29)	$ (8,000)	$ (12,353)		$ (18,672)	$ 5,487	$ 926	$ 87	$ 6,500	$ (12,172)	
October	-	-	1	0%	1.00	$ (4,084)	$ (19)	$ (8,000)	$ -		$ (12,102)	$ 6,123	$ 528	$ 78	$ 6,728	$ (5,374)	
November	-	-	3	0%	1.00	$ (1,780)	$ (56)	$ (8,000)	$ -		$ (9,835)	$ 6,700	$ 428	$ -	$ 7,128	$ (2,708)	
December	-	-	-	0%	1.00	$ (3,013)	$ -	$ -	$ -		$ (3,013)	$ 6,700	$ 1,106	$ -	$ 7,806	$ 4,792	
Annual	-	-	72	0%	9.00	$ (53,146)	$ (1,362)	$ (64,000)		$ -	$ (130,861)	$ 54,813	$ 7,189	$ 7,296	$ 69,299	$ (61,562)	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) $ 8.00	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	246	298	74	25%	0.40	$ (4,878)	$ -	$ (6,050)	$ (131)	$ 962	$ (10,097)	$ 7,115	$ 89	$ 3,321	$ 10,526	$ 429	$ 5.76
February	151	279	40	14%	0.40	$ (3,002)	$ -	$ (6,050)	$ (77)	$ 511	$ (8,618)	$ 5,234	$ 95	$ 3,321	$ 8,651	$ 33	$ 0.84
March	-	297	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,479	$ 111	$ 3,321	$ 5,911	$ 5,911	$ -
April	-	288	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 2,479	$ 152	$ 3,321	$ 5,952	$ 5,952	$ -
May	-	298	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,479	$ 104	$ 3,321	$ 5,904	$ 5,904	$ -
June	216	288	20	7%	-	$ (2,682)	$ -	$ -	$ (24)	$ 260	$ (2,447)	$ 5,337	$ 134	$ 3,321	$ 8,792	$ 6,346	$ 316.10
July	274	298	68	23%	0.40	$ (6,330)	$ -	$ (6,050)	$ (47)	$ 874	$ (11,553)	$ 9,299	$ 96	$ 3,320	$ 12,715	$ 1,162	$ 17.20
August	280	298	178	60%	0.40	$ (19,329)	$ -	$ (6,050)	$ (85)	$ 2,307	$ (23,157)	$ 19,702	$ 178	$ 3,320	$ 23,200	$ 43	$ 0.24
September	264	288	134	46%	0.40	$ (21,808)	$ -	$ (6,050)	$ -	$ 1,728	$ (26,130)	$ 18,536	$ 81	$ 3,320	$ 21,936	$ (4,194)	$ (31.40)
October	229	298	135	45%	0.40	$ (10,776)	$ -	$ (6,050)	$ -	$ 1,743	$ (15,083)	$ 13,390	$ 86	$ 3,320	$ 16,796	$ 1,713	$ 12.72
November	214	289	218	76%	0.40	$ (21,893)	$ -	$ (6,050)	$ -	$ 2,826	$ (25,117)	$ 22,465	$ 99	$ 3,320	$ 25,884	$ 767	$ 3.51
December	246	298	255	86%	0.40	$ (71,817)	$ -	$ (6,050)	$ (97)	$ 3,303	$ (74,661)	$ 67,537	$ 95	$ 3,320	$ 70,952	$ (3,709)	$ (14.53)
Annual	**2,121**	**3,517**	**1,122**	**32%**	**3.23**	**$ (162,514)**	**$ -**	**$ (48,403)**	**$ (461)**	**$ 14,515**	**$ (196,863)**	**$ 176,053**	**$ 1,319**	**$ 39,848**	**$ 217,219**	**$ 20,357**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 WWD

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) ($ 5.70)	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		49		3.87	$ (4,685)	$ (2,232)	$ (19,326)		$ (727)	$ (26,970)	$ 4,881	$ 1,560	$ -	$ 6,441	$ (20,529)	$ (416.18)
February	-		1,209		4.35	$ (81,038)	$ (1,102)	$ (21,742)		$ (5,251)	$ (109,133)	$ 119,668	$ 1,855	$ -	$ 121,523	$ 12,390	$ 10.25
March	25		2,065		6.28	$ (150,440)	$ (952)	$ (31,405)		$ (9,042)	$ (191,839)	$ 204,353	$ 1,916	$ -	$ 206,270	$ 14,431	$ 6.99
April	7,199		2,579		12.08	$ (246,046)	$ (1,251)	$ (60,394)		$ (11,293)	$ (318,984)	$ 255,324	$ 1,491	$ (9,080)	$ 247,735	$ (71,249)	$ (27.62)
May	12,352		3,956		18.36	$ (393,689)	$ (1,812)	$ (91,799)		$ (17,351)	$ (504,650)	$ 391,575	$ 2,608	$ (18,629)	$ 375,554	$ (129,096)	$ (32.63)
June	12,201		3,961		24.64	$ (424,691)	$ (2,343)	$ (123,203)		$ (17,443)	$ (567,680)	$ 392,129	$ 1,981	$ (24,797)	$ 369,313	$ (198,367)	$ (50.08)
July	11,599		5,017		26.09	$ (471,530)	$ (4,039)	$ (130,451)		$ (22,048)	$ (628,067)	$ 496,542	$ 1,842	$ (34,016)	$ 464,367	$ (163,700)	$ (32.63)
August	8,847		3,494		21.74	$ (463,328)	$ (3,155)	$ (108,709)		$ (15,415)	$ (590,607)	$ 346,144	$ 2,520	$ (25,510)	$ 323,154	$ (267,452)	$ (76.54)
September	5,139		1,477		14.01	$ (460,173)	$ (1,928)	$ (70,057)		$ (6,532)	$ (538,689)	$ 146,936	$ 2,483	$ (845)	$ 148,574	$ (390,115)	$ (264.07)
October	3,515		1,991		9.66	$ (173,987)	$ (1,377)	$ (48,315)		$ (8,804)	$ (232,483)	$ 197,014	$ 3,103	$ (173)	$ 199,943	$ (32,539)	$ (16.34)
November	2,509		795		5.31	$ (88,272)	$ (1,150)	$ (26,573)		$ (3,444)	$ (119,440)	$ 78,862	$ 3,648	$ -	$ 82,510	$ (36,929)	$ (46.47)
December	3,405		718		3.38	$ (210,888)	$ (1,401)	$ (16,910)		$ (2,998)	$ (232,197)	$ 76,092	$ 1,507	$ -	$ 77,598	$ (154,598)	$ (215.43)
Annual	**66,792**		**27,311**			**$ (3,168,765)**	**$ (22,742)**	**$ (748,883)**		**$ (120,348)**	**$ (4,060,737)**	**$ 2,709,520**	**$ 26,513**	**$ (113,050)**	**$ 2,622,984**	**$ (1,437,753)**	**$ (52.64)**
Rate/Value ($/MWh):						**$ (116.03)**	**$ (0.83)**	**$ (27.42)**	**$ -**	**$ (4.41)**	**$ (148.69)**	**$ 99.21**	**$ 0.97**	**$ (4.14)**	**$ 96.04**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: 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

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) ($ 19.00)	RPS Avoided Cost ($/MWh) ($ 8.00)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($) ($ -)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (WWD subscription 3.46 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) ($ 19.00)	RPS Avoided Cost ($/MWh) ($ 5.00)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	574	2,572	570	22%	0.14	$ (16,838)	$ (10,838)	$ (691)			$ (28,368)	$ 35,937	$ 389		$ 36,326	$ 7,958	$ 13.95
February	602	2,406	735	31%	0.10	$ (11,797)	$ (13,957)	$ (519)			$ (26,272)	$ 46,329	$ 424		$ 46,753	$ 20,481	$ 27.88
March	907	2,569	927	36%	0.62	$ (15,881)	$ (17,611)	$ (3,111)			$ (36,603)	$ 58,437	$ 380		$ 58,817	$ 22,213	$ 23.97
April	974	2,489	1,060	43%	0.52	$ (31,130)	$ (20,144)	$ (2,593)			$ (53,866)	$ 66,821	$ 810		$ 67,631	$ 13,765	$ 12.98
May	1,120	2,572	1,191	46%	0.55	$ (38,331)	$ (22,636)	$ (2,766)			$ (63,732)	$ 75,055	$ 470		$ 75,525	$ 11,792	$ 9.90
June	1,180	2,489	1,182	48%	1.07	$ (61,588)	$ (22,465)	$ (5,358)			$ (89,411)	$ 74,489	$ 625		$ 75,114	$ (14,297)	$ (12.09)
July	1,162	2,572	1,184	46%	1.35	$ (74,895)	$ (22,503)	$ (6,741)			$ (104,139)	$ 74,614	$ 660		$ 75,274	$ (28,865)	$ (24.37)
August	1,096	2,572	1,099	43%	0.93	$ (100,247)	$ (20,886)	$ (4,667)			$ (125,799)	$ 69,252	$ 501		$ 69,753	$ (56,046)	$ (50.99)
September	971	2,489	899	36%	0.48	$ (81,281)	$ (17,074)	$ (2,420)			$ (100,775)	$ 56,614	$ 476		$ 57,090	$ (43,685)	$ (48.61)
October	795	2,572	824	32%	0.07	$ (38,027)	$ (15,655)	$ (346)			$ (54,027)	$ 51,907	$ 420		$ 52,327	$ (1,700)	$ (2.06)
November	594	2,492	598	24%	0.07	$ (31,077)	$ (11,363)	$ (346)			$ (42,785)	$ 37,717	$ 493		$ 38,210	$ (4,575)	$ (7.65)
December	521	2,572	434	17%	-	$ (87,766)	$ (8,243)	$ -			$ (96,009)	$ 27,332	$ 484		$ 27,816	$ (68,193)	$ (157.19)
Annual	**10,494**	**30,366**	**10,704**	**35%**	**5.91**	**$ (588,857)**	**$ (203,373)**	**$ (29,557)**		**$ -**	**$ (821,787)**	**$ 674,504**	**$ 6,132**	**$ -**	**$ 680,637**	**$ (141,150)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (WWD subscription 3.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) ($ 19.00)	RPS Avoided Cost ($/MWh) ($ -)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	339	2,232	421	19%	-	$ (14,569)	$ (8,001)				$ (22,570)	$ 22,886	$ 934		$ 23,820	$ 1,250	$ 2.97
February	478	2,088	567	27%	-	$ (18,486)	$ (10,768)				$ (29,254)	$ 30,395	$ 1,000		$ 31,395	$ 2,141	$ 3.78
March	721	2,229	717	32%	-	$ (15,237)	$ (13,624)				$ (28,861)	$ 42,966	$ 713		$ 43,679	$ 14,818	$ 20.67
April	808	2,160	692	32%	-	$ (16,677)	$ (13,142)				$ (29,819)	$ 49,172	$ 621		$ 49,792	$ 19,974	$ 28.88
May	991	2,232	948	42%	-	$ (22,428)	$ (18,003)				$ (40,431)	$ 59,443	$ 752		$ 60,195	$ 19,764	$ 20.86
June	1,034	2,160	995	46%	-	$ (49,671)	$ (18,896)				$ (68,567)	$ 59,019	$ 711		$ 59,730	$ (8,837)	$ (8.89)
July	1,034	2,232	960	43%	-	$ (56,634)	$ (18,243)				$ (74,877)	$ 58,362	$ 658		$ 59,019	$ (15,857)	$ (16.52)
August	982	2,232	896	40%	-	$ (65,969)	$ (17,023)				$ (82,992)	$ 52,637	$ 634		$ 53,271	$ (29,720)	$ (33.17)
September	843	2,160	724	34%	-	$ (70,542)	$ (13,759)				$ (84,301)	$ 42,559	$ 702		$ 43,261	$ (41,040)	$ (56.67)
October	678	2,232	640	29%	-	$ (25,416)	$ (12,163)				$ (37,579)	$ 37,840	$ 460		$ 38,300	$ 721	$ 1.13
November	452	2,163	417	19%	-	$ (23,895)	$ (7,927)				$ (31,822)	$ 25,688	$ 357		$ 26,045	$ (5,776)	$ (13.85)
December	330	2,232	218	10%	-	$ (38,077)	$ (4,134)				$ (42,211)	$ 12,828	$ 387		$ 13,215	$ (28,996)	$ (133.27)
Annual	**8,691**	**26,352**	**8,194**	**31%**		**$ (417,600)**	**$ (155,683)**	**$ -**		**$ -**	**$ (573,282)**	**$ 493,795**	**$ 7,929**	**$ -**	**$ 501,723**	**$ (71,559)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (WWD subscription 4.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) ($ 19.00)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	470	2,975	314	11%	-	$ (7,869)	$ (5,973)	$ -			$ (13,843)	$ 6,322	$ 693	$ -	$ 7,015	$ (6,828)	$ (21.72)
February	656	2,783	681	24%	-	$ (9,108)	$ (12,938)	$ -			$ (22,046)	$ 13,692	$ 539	$ -	$ 14,232	$ (7,814)	$ (11.48)
March	1,001	2,971	791	27%	-	$ (15,477)	$ (15,029)	$ -			$ (30,506)	$ 14,451	$ 1,231	$ 2	$ 15,684	$ (14,822)	$ (18.74)
April	1,150	2,879	928	32%	0.60	$ (23,924)	$ (17,641)	$ (4,799)			$ (46,363)	$ 26,850	$ 822	$ 136	$ 27,807	$ (18,555)	$ (19.99)
May	1,327	2,975	1,156	39%	0.64	$ (27,281)	$ (21,972)	$ (5,118)			$ (54,371)	$ 32,653	$ 623	$ 55	$ 33,330	$ (21,041)	$ (18.20)
June	1,377	2,879	1,076	37%	1.24	$ (51,853)	$ (20,438)	$ (9,917)			$ (82,208)	$ 29,602	$ 718	$ 1	$ 30,320	$ (51,888)	$ (48.24)
July	1,396	2,975	1,188	40%	1.56	$ (70,726)	$ (22,578)	$ (12,476)			$ (105,780)	$ 32,161	$ 912	$ 18	$ 33,091	$ (72,688)	$ (61.17)
August	1,325	2,975	1,084	36%	1.08	$ (90,703)	$ (20,590)	$ (8,637)			$ (119,931)	$ 29,095	$ 926	$ 5	$ 30,026	$ (89,905)	$ (82.96)
September	1,138	2,879	872	30%	0.56	$ (81,746)	$ (16,563)	$ (4,479)			$ (102,788)	$ 23,435	$ 1,423	$ 0	$ 24,859	$ (77,929)	$ (89.39)
October	904	2,975	724	24%	0.08	$ (33,688)	$ (13,762)	$ (640)			$ (48,090)	$ 19,459	$ 812	$ 0	$ 20,271	$ (27,819)	$ (38.41)
November	580	2,883	497	17%	0.08	$ (34,133)	$ (9,448)	$ (640)			$ (44,221)	$ 13,453	$ 658	$ -	$ 14,111	$ (30,110)	$ (60.55)
December	446	2,975	217	7%	-	$ (49,518)	$ (4,123)	$ -			$ (53,641)	$ 5,817	$ 1,701	$ -	$ 7,518	$ (46,123)	$ (212.56)
Annual	11,769	35,125	9,529	27%	5.84	$ (496,025)	$ (181,056)	$ (46,706)		$ -	$ (723,787)	$ 246,990	$ 11,057	$ 217	$ 258,264	$ (465,523)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (WWD subscription 3.20 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) ($ 19.00)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ (2,832)	$ -	$ -	$ -		$ (2,832)	$ -	$ 1,442	$ -	$ 1,442	$ (1,390)	
February	-	-	-	0%	-	$ (10,294)	$ -	$ -	$ -		$ (10,294)	$ -	$ 1,122	$ -	$ 1,122	$ (9,172)	
March	-	-	27	0%	-	$ (10,366)	$ (513)	$ -	$ -		$ (10,879)	$ -	$ 2,562	$ 201	$ 2,762	$ (8,117)	
April	-	-	92	0%	3.20	$ (27,820)	$ (1,745)	$ (25,600)	$ -		$ (55,165)	$ 19,313	$ 1,710	$ 5,941	$ 26,963	$ (28,202)	
May	-	-	63	0%	3.20	$ (32,824)	$ (1,196)	$ (25,600)	$ (1)		$ (59,621)	$ 20,232	$ 1,296	$ 4,355	$ 25,882	$ (33,739)	
June	-	-	3	0%	3.20	$ (21,831)	$ (64)	$ (25,600)	$ -		$ (47,495)	$ 18,059	$ 1,493	$ 793	$ 20,344	$ (27,150)	
July	-	-	23	0%	3.20	$ (16,695)	$ (446)	$ (25,600)	$ -		$ (42,742)	$ 19,544	$ 1,898	$ 3,996	$ 25,438	$ (17,304)	
August	-	-	3	0%	3.20	$ (24,471)	$ (61)	$ (25,600)	$ -		$ (50,132)	$ 18,222	$ 1,926	$ 7,534	$ 27,683	$ (22,449)	
September	-	-	5	0%	3.20	$ 5,474	$ (94)	$ (25,600)	$ (39,529)		$ (59,750)	$ 17,560	$ 2,962	$ 278	$ 20,799	$ (38,950)	
October	-	-	3	0%	3.20	$ (13,068)	$ (59)	$ (25,600)	$ -		$ (38,727)	$ 19,593	$ 1,688	$ 250	$ 21,531	$ (17,196)	
November	-	-	9	0%	3.20	$ (5,695)	$ (178)	$ (25,600)	$ -		$ (31,474)	$ 21,440	$ 1,370	$ -	$ 22,810	$ (8,664)	
December	-	-	-	0%	3.20	$ (9,643)	$ -	$ -	$ -		$ (9,643)	$ 21,440	$ 3,538	$ -	$ 24,978	$ 15,335	
Annual	-	-	229	0%	28.80	$ (170,066)	$ (4,358)	$ (204,800)		$ -	$ (418,754)	$ 175,403	$ 23,006	$ 23,346	$ 221,756	$ (196,999)	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) ($ -)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo) ($ 8.00)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	1,424	1,723	430	25%	2.33	$ (28,216)	$ -	$ (34,997)	$ (757)	$ 5,565	$ (58,405)	$ 41,157	$ 516	$ 19,211	$ 60,884	$ 2,480	$ 5.76
February	873	1,612	229	14%	2.33	$ (17,362)	$ -	$ (34,997)	$ (444)	$ 2,957	$ (49,847)	$ 30,277	$ 550	$ 19,211	$ 50,038	$ 191	$ 0.84
March	-	1,721	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,338	$ 644	$ 19,211	$ 34,193	$ 34,193	$ -
April	-	1,667	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 14,338	$ 878	$ 19,211	$ 34,427	$ 34,426	$ -
May	-	1,723	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 14,338	$ 599	$ 19,211	$ 34,149	$ 34,149	$ -
June	1,251	1,667	116	7%	-	$ (15,516)	$ -	$ -	$ (139)	$ 1,502	$ (14,152)	$ 30,870	$ 778	$ 19,211	$ 50,859	$ 36,707	$ 316.10
July	1,587	1,723	391	23%	2.33	$ (36,616)	$ -	$ (34,997)	$ (272)	$ 5,058	$ (66,827)	$ 53,792	$ 553	$ 19,205	$ 73,550	$ 6,722	$ 17.20
August	1,619	1,723	1,032	60%	2.33	$ (111,805)	$ -	$ (34,997)	$ (494)	$ 13,346	$ (133,950)	$ 113,966	$ 1,029	$ 19,205	$ 134,200	$ 250	$ 0.24
September	1,528	1,667	773	46%	2.33	$ (126,145)	$ -	$ (34,997)	$ -	$ 9,996	$ (151,146)	$ 107,217	$ 466	$ 19,205	$ 126,888	$ (24,258)	$ (31.40)
October	1,326	1,723	779	45%	2.33	$ (62,333)	$ -	$ (34,997)	$ -	$ 10,083	$ (87,247)	$ 77,456	$ 497	$ 19,205	$ 97,157	$ 9,910	$ 12.72
November	1,238	1,670	1,263	76%	2.33	$ (126,635)	$ -	$ (34,997)	$ -	$ 16,345	$ (145,288)	$ 129,947	$ 572	$ 19,205	$ 149,724	$ 4,436	$ 3.51
December	1,425	1,723	1,477	86%	2.33	$ (415,419)	$ -	$ (34,997)	$ (559)	$ 19,107	$ (431,868)	$ 390,660	$ 548	$ 19,205	$ 410,413	$ (21,455)	$ (14.53)
Annual	**12,272**	**20,342**	**6,490**	**32%**	**18.67**	**$ (940,046)**	**$ -**	**$ (279,979)**	**$ (2,666)**	**$ 83,960**	**$ (1,138,731)**	**$ 1,018,357**	**$ 7,629**	**$ 230,496**	**$ 1,256,482**	**$ 117,751**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 BBWID

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh)	Total Value ($)	Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
						$ 5.70						Contract Administration ($)				Net	
January	0		2		0.15	$ (183)	$ (89)	$ (773)		$ (22)	$ (1,067)	$ 212	$ 62	$ -	$ 274	$ (793)	$ (369.21)
February	-		15		0.17	$ (1,065)	$ (44)	$ (870)		$ (162)	$ (2,140)	$ 1,450	$ 74	$ -	$ 1,524	$ (616)	$ (41.97)
March	1		76		0.25	$ (5,592)	$ (38)	$ (1,256)		$ (278)	$ (7,164)	$ 7,546	$ 77	$ -	$ 7,623	$ 458	$ 6.01
April	288		102		0.48	$ (9,733)	$ (50)	$ (2,416)		$ (347)	$ (12,546)	$ 10,091	$ 60	$ (359)	$ 9,792	$ (2,754)	$ (27.01)
May	494		157		0.73	$ (15,597)	$ (72)	$ (3,672)		$ (534)	$ (19,875)	$ 15,506	$ 104	$ (738)	$ 14,872	$ (5,003)	$ (31.93)
June	488		157		0.99	$ (16,886)	$ (94)	$ (4,928)		$ (537)	$ (22,444)	$ 15,582	$ 79	$ (986)	$ 14,676	$ (7,768)	$ (49.34)
July	464		199		1.04	$ (18,715)	$ (162)	$ (5,218)		$ (678)	$ (24,773)	$ 19,691	$ 74	$ (1,349)	$ 18,415	$ (6,357)	$ (31.95)
August	354		139		0.87	$ (18,437)	$ (126)	$ (4,348)		$ (474)	$ (23,385)	$ 13,760	$ 101	$ (1,015)	$ 12,846	$ (10,540)	$ (75.82)
September	206		59		0.56	$ (18,347)	$ (77)	$ (2,802)		$ (201)	$ (21,427)	$ 5,838	$ 99	$ (34)	$ 5,903	$ (15,524)	$ (263.54)
October	141		79		0.39	$ (6,937)	$ (55)	$ (1,933)		$ (271)	$ (9,196)	$ 7,855	$ 124	$ (7)	$ 7,973	$ (1,223)	$ (15.41)
November	100		20		0.21	$ (2,091)	$ (46)	$ (1,063)		$ (106)	$ (3,306)	$ 1,849	$ 146	$ -	$ 1,995	$ (1,310)	$ (65.47)
December	136		9		0.14	$ (2,780)	$ (56)	$ (676)		$ (92)	$ (3,605)	$ (734)	$ 60	$ -	$ (673)	$ (4,278)	$ (451.03)
Annual	**2,672**		**1,015**			**$ (116,361)**	**$ (910)**	**$ (29,955)**		**$ (3,702)**	**$ (150,928)**	**$ 98,646**	**$ 1,061**	**$ (4,487)**	**$ 95,220**	**$ (55,709)**	**$ (54.89)**
Rate/Value ($/MWh):						**$ (114.65)**	**$ (0.90)**	**$ (29.51)**	**$ -**	**$ (3.65)**	**$ (148.71)**	**$ 97.19**	**$ 1.04**	**$ (4.42)**	**$ 93.82**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: 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)
												Contract Administration ($)				Net	
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	$ 19.00 RPS Avoided Cost ($/MWh)	$ 8.00 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)
												Contract Administration ($)				Net	
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (BBWID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	$ 19.00 RPS Avoided Cost ($/MWh)	$ 5.00 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)
												Contract Administration ($)				Net	
January	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -			$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Whitney Point (BBWID subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	$ 19.00 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)
												Contract Administration ($)				Net	
January	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -				$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Slate - Solar (BBWID subscription 0.30 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	$ 19.00 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)
												Contract Administration ($)				Net	
January	35	222	24	11%	-	$ (588)	$ (447)	$ -			$ (1,035)	$ 473	$ 52	$ -	$ 525	$ (511)	$ (21.72)
February	49	208	51	24%	-	$ (681)	$ (967)	$ -			$ (1,648)	$ 1,024	$ 40	$ -	$ 1,064	$ (584)	$ (11.48)
March	75	222	59	27%	-	$ (1,157)	$ (1,124)	$ -			$ (2,281)	$ 1,081	$ 92	$ 0	$ 1,173	$ (1,108)	$ (18.74)
April	86	215	69	32%	0.04	$ (1,789)	$ (1,319)	$ (359)			$ (3,467)	$ 2,008	$ 61	$ 10	$ 2,079	$ (1,387)	$ (19.99)
May	99	222	86	39%	0.05	$ (2,040)	$ (1,643)	$ (383)			$ (4,065)	$ 2,442	$ 47	$ 4	$ 2,492	$ (1,573)	$ (18.20)
June	103	215	80	37%	0.09	$ (3,877)	$ (1,528)	$ (742)			$ (6,147)	$ 2,213	$ 54	$ 0	$ 2,267	$ (3,880)	$ (48.24)
July	104	222	89	40%	0.12	$ (5,288)	$ (1,688)	$ (933)			$ (7,909)	$ 2,405	$ 68	$ 1	$ 2,474	$ (5,435)	$ (61.17)
August	99	222	81	36%	0.08	$ (6,782)	$ (1,540)	$ (646)			$ (8,968)	$ 2,175	$ 69	$ 0	$ 2,245	$ (6,722)	$ (82.96)
September	85	215	65	30%	0.04	$ (6,112)	$ (1,238)	$ (335)			$ (7,686)	$ 1,752	$ 106	$ 0	$ 1,859	$ (5,827)	$ (89.39)
October	68	222	54	24%	0.01	$ (2,519)	$ (1,029)	$ (48)			$ (3,596)	$ 1,455	$ 61	$ 0	$ 1,516	$ (2,080)	$ (38.41)
November	43	216	37	17%	0.01	$ (2,552)	$ (706)	$ (48)			$ (3,307)	$ 1,006	$ 49	$ -	$ 1,055	$ (2,251)	$ (60.55)
December	33	222	16	7%	-	$ (3,703)	$ (308)	$ -			$ (4,011)	$ 435	$ 127	$ -	$ 562	$ (3,449)	$ (212.56)
Annual	**880**	**2,626**	**713**	**27%**	**0.44**	**$ (37,089)**	**$ (13,538)**	**$ (3,492)**		**$ -**	**$ (54,119)**	**$ 18,468**	**$ 827**	**$ 16**	**$ 19,311**	**$ (34,808)**	**$ (48.85)**
Rate/Value ($/MWh):						**$ (52.05)**	**$ (19.00)**	**$ (4.90)**	**$ -**	**$ -**	**$ (75.95)**	**$ 25.92**	**$ 1.16**	**$ 0.02**	**$ 27.10**		

Slate - Battery (BBWID subscription 0.15 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($)	$ 19.00 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)
												Contract Administration ($)				Net	
January	-	-	-	0%	-	$ (133)	$ -	$ -	$ -		$ (133)	$ -	$ 68	$ -	$ 68	$ (65)	
February	-	-	-	0%	-	$ (483)	$ -	$ -	$ -		$ (483)	$ -	$ 53	$ -	$ 53	$ (430)	
March	-	-	1	0%	-	$ (486)	$ (24)	$ -	$ -		$ (510)	$ -	$ 120	$ 9	$ 129	$ (380)	
April	-	-	4	0%	0.15	$ (1,304)	$ (82)	$ (1,200)	$ -		$ (2,586)	$ 905	$ 80	$ 278	$ 1,264	$ (1,322)	
May	-	-	3	0%	0.15	$ (1,539)	$ (56)	$ (1,200)	$ (0)		$ (2,795)	$ 948	$ 61	$ 204	$ 1,213	$ (1,582)	
June	-	-	0	0%	0.15	$ (1,023)	$ (3)	$ (1,200)	$ -		$ (2,226)	$ 847	$ 70	$ 37	$ 954	$ (1,273)	
July	-	-	1	0%	0.15	$ (783)	$ (21)	$ (1,200)	$ -		$ (2,004)	$ 916	$ 89	$ 187	$ 1,192	$ (811)	
August	-	-	0	0%	0.15	$ (1,147)	$ (3)	$ (1,200)	$ -		$ (2,350)	$ 854	$ 90	$ 353	$ 1,298	$ (1,052)	
September	-	-	0	0%	0.15	$ 257	$ (4)	$ (1,200)	$ (1,853)		$ (2,801)	$ 823	$ 139	$ 13	$ 975	$ (1,826)	
October	-	-	0	0%	0.15	$ (613)	$ (3)	$ (1,200)	$ -		$ (1,815)	$ 918	$ 79	$ 12	$ 1,009	$ (806)	
November	-	-	0	0%	0.15	$ (267)	$ (8)	$ (1,200)	$ -		$ (1,475)	$ 1,005	$ 64	$ -	$ 1,069	$ (406)	
December	-	-	-	0%	0.15	$ (452)	$ -	$ -	$ -		$ (452)	$ 1,005	$ 166	$ -	$ 1,171	$ 719	
Annual	**-**	**-**	**11**	**0%**	**1.35**	**$ (7,972)**	**$ (204)**	**$ (9,600)**		**$ -**	**$ (19,629)**	**$ 8,222**	**$ 1,078**	**$ 1,094**	**$ 10,395**	**$ (9,234)**	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	$ - RPS Avoided Cost ($/MWh)	$ 8.00 RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
												Contract Administration ($)				Net	
January	206	250	62	25%	0.34	$ (4,088)	$ -	$ (5,070)	$ (110)	$ 806	$ (8,461)	$ 5,962	$ 75	$ 2,783	$ 8,820	$ 359	$ 5.76
February	126	233	33	14%	0.34	$ (2,515)	$ -	$ (5,070)	$ (64)	$ 428	$ (7,221)	$ 4,386	$ 80	$ 2,783	$ 7,249	$ 28	$ 0.84
March	-	249	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,077	$ 93	$ 2,783	$ 4,953	$ 4,953	$ -
April	-	242	-	0%	-	$ (0)	$ -	$ -	$ -	$ -	$ (0)	$ 2,077	$ 127	$ 2,783	$ 4,987	$ 4,987	$ -
May	-	250	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,077	$ 87	$ 2,783	$ 4,947	$ 4,947	$ -
June	181	242	17	7%	-	$ (2,248)	$ -	$ -	$ (20)	$ 218	$ (2,050)	$ 4,472	$ 113	$ 2,783	$ 7,368	$ 5,318	$ 316.10
July	230	250	57	23%	0.34	$ (5,304)	$ -	$ (5,070)	$ (39)	$ 733	$ (9,681)	$ 7,793	$ 80	$ 2,782	$ 10,655	$ 974	$ 17.20
August	235	250	149	60%	0.34	$ (16,197)	$ -	$ (5,070)	$ (72)	$ 1,933	$ (19,405)	$ 16,510	$ 149	$ 2,782	$ 19,441	$ 36	$ 0.24
September	221	242	112	46%	0.34	$ (18,274)	$ -	$ (5,070)	$ -	$ 1,448	$ (21,896)	$ 15,532	$ 68	$ 2,782	$ 18,382	$ (3,514)	$ (31.40)
October	192	250	113	45%	0.34	$ (9,030)	$ -	$ (5,070)	$ -	$ 1,461	$ (12,639)	$ 11,221	$ 72	$ 2,782	$ 14,075	$ 1,436	$ 12.72
November	179	242	183	76%	0.34	$ (18,345)	$ -	$ (5,070)	$ -	$ 2,368	$ (21,047)	$ 18,825	$ 83	$ 2,782	$ 21,690	$ 643	$ 3.51
December	206	250	214	86%	0.34	$ (60,180)	$ -	$ (5,070)	$ (81)	$ 2,768	$ (62,563)	$ 56,593	$ 79	$ 2,782	$ 59,455	$ (3,108)	$ (14.53)
Annual	**1,778**	**2,947**	**940**	**32%**	**2.70**	**$ (136,181)**	**$ -**	**$ (40,560)**	**$ (386)**	**$ 12,163**	**$ (164,964)**	**$ 147,525**	**$ 1,105**	**$ 33,391**	**$ 182,022**	**$ 17,058**	**$ 18.14**
Rate/Value ($/MWh):						**$ (144.85)**	**$ -**	**$ (43.14)**	**$ (0.41)**	**$ 12.94**	**$ (175.47)**	**$ 156.92**	**$ 1.18**	**$ 35.52**	**$ 193.61**		

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, and actual generation with capacity factors.

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

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 Zone7

Added Value Rate Basis: RPS = $/REC, RA = $/kW-month, Carbon = $/MWh

WAPA Base Resource

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh) w/ Pooling	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($/MWh) w/ Pooling	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($/MWh)	Carbon Value ($/MWh) $ 5.70	Total Value ($)	Contract Administration ($): Contract Cost ($) w/ Pooling	Overhead Cost ($)	Displacement Credit ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	0		9		0.02	$ (678)	$ (10)			$ -	$ (688)	$ 873	$ 7	$ -	$ 880	$ 193	$ 21.82
February	-		6		0.02	$ (428)	$ (5)			$ -	$ (433)	$ 635	$ 8	$ -	$ 643	$ 210	$ 32.75
March	0		10		0.03	$ (745)	$ (4)			$ -	$ (749)	$ 1,028	$ 9	$ -	$ 1,037	$ 288	$ 27.68
April	32		12		0.05	$ (1,174)	$ (6)			$ -	$ (1,179)	$ 1,226	$ 7	$ (44)	$ 1,189	$ 10	$ 0.80
May	55		19		0.08	$ (1,870)	$ (8)			$ -	$ (1,878)	$ 1,866	$ 12	$ (89)	$ 1,789	$ (89)	$ (4.74)
June	55		18		0.11	$ (1,979)	$ (10)			$ -	$ (1,989)	$ 1,833	$ 9	$ (116)	$ 1,727	$ (262)	$ (14.20)
July	52		24		0.12	$ (2,239)	$ (18)			$ -	$ (2,257)	$ 2,368	$ 8	$ (162)	$ 2,214	$ (42)	$ (1.77)
August	40		17		0.10	$ (2,197)	$ (14)			$ -	$ (2,211)	$ 1,659	$ 11	$ (121)	$ 1,549	$ (662)	$ (39.88)
September	23		7		0.06	$ (2,130)	$ (9)			$ -	$ (2,139)	$ 707	$ 11	$ (4)	$ 714	$ (1,424)	$ (206.82)
October	16		9		0.04	$ (824)	$ (6)			$ -	$ (830)	$ 934	$ 14	$ (1)	$ 947	$ 117	$ 12.39
November	11		7		0.02	$ (823)	$ (5)			$ -	$ (828)	$ 746	$ 16	$ -	$ 762	$ (66)	$ (9.21)
December	15		19		0.02	$ (5,873)	$ (6)			$ -	$ (5,880)	$ 3,585	$ 7	$ -	$ 3,592	$ (2,288)	$ (120.45)
Annual	**299**		**158**			**$ (20,958)**	**$ (102)**	**$ -**			**$ (21,060)**	**$ 17,460**	**$ 119**	**$ (536)**	**$ 17,043**	**$ (4,016)**	**$ (25.38)**
Rate/Value ($/MWh):						**$ (132.44)**	**$ (0.64)**	**$ -**	**$ -**	**$ -**	**$ (133.09)**	**$ 110.34**	**$ 0.75**	**$ (3.39)**	**$ 107.71**		

WWD BOR Payback

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($)	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
February	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
March	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
April	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
May	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
June	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
July	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
August	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
September	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
October	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
November	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
December	-		-		-	$ -					$ -	$ -	$ -		$ -	$ -	$ -
Annual	-		-		-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -		$ -	$ -	$ -
Rate/Value ($/MWh):																	

Warm Springs Hydro

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh) $ 8.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($) $ -	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**		**$ -**	**$ -**	**$ -**		**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

Astoria Solar (Zone7 subscription 0.15 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh) $ 5.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	25	112	25	22%	0.01	$ (731)	$ (470)	$ (30)			$ (1,231)	$ 1,559	$ 17		$ 1,576	$ 345	$ 13.95
February	26	104	32	31%	0.00	$ (512)	$ (606)	$ (23)			$ (1,140)	$ 2,010	$ 18		$ 2,029	$ 889	$ 27.88
March	39	111	40	36%	0.03	$ (689)	$ (764)	$ (135)			$ (1,588)	$ 2,536	$ 16		$ 2,552	$ 964	$ 23.97
April	42	108	46	43%	0.02	$ (1,351)	$ (874)	$ (113)			$ (2,337)	$ 2,899	$ 35		$ 2,935	$ 597	$ 12.98
May	49	112	52	46%	0.02	$ (1,663)	$ (982)	$ (120)			$ (2,765)	$ 3,257	$ 20		$ 3,277	$ 512	$ 9.90
June	51	108	51	48%	0.05	$ (2,672)	$ (975)	$ (233)			$ (3,880)	$ 3,232	$ 27		$ 3,259	$ (620)	$ (12.09)
July	50	112	51	46%	0.06	$ (3,250)	$ (976)	$ (293)			$ (4,519)	$ 3,238	$ 29		$ 3,266	$ (1,252)	$ (24.37)
August	48	112	48	43%	0.04	$ (4,350)	$ (906)	$ (203)			$ (5,458)	$ 3,005	$ 22		$ 3,027	$ (2,432)	$ (50.99)
September	42	108	39	36%	0.02	$ (3,527)	$ (741)	$ (105)			$ (4,373)	$ 2,457	$ 21		$ 2,477	$ (1,895)	$ (48.61)
October	35	112	36	32%	0.00	$ (1,650)	$ (679)	$ (15)			$ (2,344)	$ 2,252	$ 18		$ 2,270	$ (74)	$ (2.06)
November	26	108	26	24%	0.00	$ (1,348)	$ (493)	$ (15)			$ (1,856)	$ 1,637	$ 21		$ 1,658	$ (199)	$ (7.65)
December	23	112	19	17%	-	$ (3,808)	$ (358)	$ -			$ (4,166)	$ 1,186	$ 21		$ 1,207	$ (2,959)	$ (157.19)
Annual	**455**	**1,318**	**464**	**35%**	**0.26**	**$ (25,551)**	**$ (8,824)**	**$ (1,283)**		**$ -**	**$ (35,658)**	**$ 29,267**	**$ 266**	**$ -**	**$ 29,533**	**$ (6,125)**	**$ (13.19)**
Rate/Value ($/MWh):						**$ (55.01)**	**$ (19.00)**	**$ (2.76)**	**$ -**	**$ -**	**$ (76.77)**	**$ 63.02**	**$ 0.57**	**$ -**	**$ 63.59**		

Whitney Point (Zone7 subscription 0.20 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh) $ -	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	23	149	28	19%	-	$ (971)	$ (533)				$ (1,505)	$ 1,526	$ 62		$ 1,588	$ 83	$ 2.97
February	32	139	38	27%	-	$ (1,232)	$ (718)				$ (1,950)	$ 2,026	$ 67		$ 2,093	$ 143	$ 3.78
March	48	149	48	32%	-	$ (1,016)	$ (908)				$ (1,924)	$ 2,864	$ 48		$ 2,912	$ 988	$ 20.67
April	54	144	46	32%	-	$ (1,112)	$ (876)				$ (1,988)	$ 3,278	$ 41		$ 3,319	$ 1,332	$ 28.88
May	66	149	63	42%	-	$ (1,495)	$ (1,200)				$ (2,695)	$ 3,963	$ 50		$ 4,013	$ 1,318	$ 20.86
June	69	144	66	46%	-	$ (3,311)	$ (1,260)				$ (4,571)	$ 3,935	$ 47		$ 3,982	$ (589)	$ (8.89)
July	69	149	64	43%	-	$ (3,776)	$ (1,216)				$ (4,992)	$ 3,891	$ 44		$ 3,935	$ (1,057)	$ (16.52)
August	65	149	60	40%	-	$ (4,398)	$ (1,135)				$ (5,533)	$ 3,509	$ 42		$ 3,551	$ (1,981)	$ (33.17)
September	56	144	48	34%	-	$ (4,703)	$ (917)				$ (5,620)	$ 2,837	$ 47		$ 2,884	$ (2,736)	$ (56.67)
October	45	149	43	29%	-	$ (1,694)	$ (811)				$ (2,505)	$ 2,523	$ 31		$ 2,553	$ 48	$ 1.13
November	30	144	28	19%	-	$ (1,593)	$ (528)				$ (2,121)	$ 1,713	$ 24		$ 1,736	$ (385)	$ (13.85)
December	22	149	15	10%	-	$ (2,538)	$ (276)				$ (2,814)	$ 855	$ 26		$ 881	$ (1,933)	$ (133.27)
Annual	**579**	**1,757**	**546**	**31%**		**$ (27,840)**	**$ (10,379)**	**$ -**		**$ -**	**$ (38,219)**	**$ 32,920**	**$ 529**	**$ -**	**$ 33,448**	**$ (4,771)**	**$ (8.73)**
Rate/Value ($/MWh):						**$ (50.97)**	**$ (19.00)**	**$ -**	**$ -**	**$ -**	**$ (69.97)**	**$ 60.26**	**$ 0.97**	**$ -**	**$ 61.23**		

Slate - Solar (Zone7 subscription 0.50 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	59	372	39	11%	-	$ (984)	$ (747)	$ -			$ (1,731)	$ 790	$ 87	$ -	$ 877	$ (854)	$ (21.72)
February	82	348	85	24%	-	$ (1,139)	$ (1,618)	$ -			$ (2,757)	$ 1,712	$ 67	$ -	$ 1,780	$ (977)	$ (11.48)
March	125	372	99	27%	-	$ (1,935)	$ (1,879)	$ -			$ (3,814)	$ 1,807	$ 154	$ 0	$ 1,961	$ (1,853)	$ (18.74)
April	144	360	116	32%	0.08	$ (2,991)	$ (2,206)	$ (600)			$ (5,797)	$ 3,357	$ 103	$ 17	$ 3,477	$ (2,320)	$ (19.99)
May	166	372	145	39%	0.08	$ (3,411)	$ (2,747)	$ (640)			$ (6,799)	$ 4,083	$ 78	$ 7	$ 4,168	$ (2,631)	$ (18.20)
June	172	360	135	37%	0.16	$ (6,484)	$ (2,556)	$ (1,240)			$ (10,279)	$ 3,701	$ 90	$ 0	$ 3,791	$ (6,488)	$ (48.24)
July	175	372	149	40%	0.20	$ (8,843)	$ (2,823)	$ (1,560)			$ (13,227)	$ 4,021	$ 114	$ 2	$ 4,138	$ (9,089)	$ (61.17)
August	166	372	136	36%	0.14	$ (11,341)	$ (2,575)	$ (1,080)			$ (14,996)	$ 3,638	$ 116	$ 1	$ 3,754	$ (11,242)	$ (82.96)
September	142	360	109	30%	0.07	$ (10,221)	$ (2,071)	$ (560)			$ (12,852)	$ 2,930	$ 178	$ 0	$ 3,108	$ (9,744)	$ (89.39)
October	113	372	91	24%	0.01	$ (4,212)	$ (1,721)	$ (80)			$ (6,013)	$ 2,433	$ 101	$ 0	$ 2,535	$ (3,478)	$ (38.41)
November	72	361	62	17%	0.01	$ (4,268)	$ (1,181)	$ (80)			$ (5,529)	$ 1,682	$ 82	$ -	$ 1,764	$ (3,765)	$ (60.55)
December	56	372	27	7%	-	$ (6,192)	$ (515)	$ -			$ (6,707)	$ 727	$ 213	$ -	$ 940	$ (5,767)	$ (212.56)
Annual	1,472	4,392	1,192	27%	0.73	$ (62,023)	$ (22,639)	$ (5,840)		$ -	$ (90,502)	$ 30,883	$ 1,383	$ 27	$ 32,293	$ (58,209)	**$ (48.85)**
Rate/Value ($/MWh):						$ (52.05)	$ (19.00)	$ (4.90)	$ -	$ -	$ (75.95)	$ 25.92	$ 1.16	$ 0.02	$ 27.10		

Slate - Battery (Zone7 subscription 0.00 MW)

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Attributes: ISO Energy Revenue ($) $ 19.00	RPS Avoided Cost ($/MWh)	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Other Cost ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
February	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
March	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
April	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
May	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
June	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
July	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
August	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
September	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
October	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
November	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
December	-	-	-	0%	-	$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	
Annual	-	-	-	0%	-	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Rate/Value ($/MWh):																	

Lodi Energy Center

Month	Budgeted Generation (MWh)	Max Possible Generation (MWh)	Actual Generation (MWh)	Capacity Factor	Resource Adequacy Capacity (MW)	Value: ISO Energy Revenue ($) $ -	RPS Avoided Cost ($/MWh) $ 8.00	RA Avoided Cost ($/kw-mo)	Ancillary Service Value ($)	Carbon Value ($)	Total Value ($)	Contract Administration ($): Contract Cost ($)	Overhead Cost ($)	Debt Service ($)	Total Costs	Net: Net Cost / (Revenue) ($)	Net Valuation ($ / MWh)
January	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
February	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
March	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
April	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
May	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
June	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
July	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
August	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
September	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
October	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
November	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
December	-	-	-	0%	-	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Annual	**-**	**-**	**-**	**0%**	**-**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Rate/Value ($/MWh):																	

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

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 offical 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. PWPRA 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 AEWSD, 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	AEWSD	SCVWD	WWD	Z7	PWRPA
Participant Cost/(Sa	$ 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.

Table 2: No DSGS Adjustment - Total Lost Cost																
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.

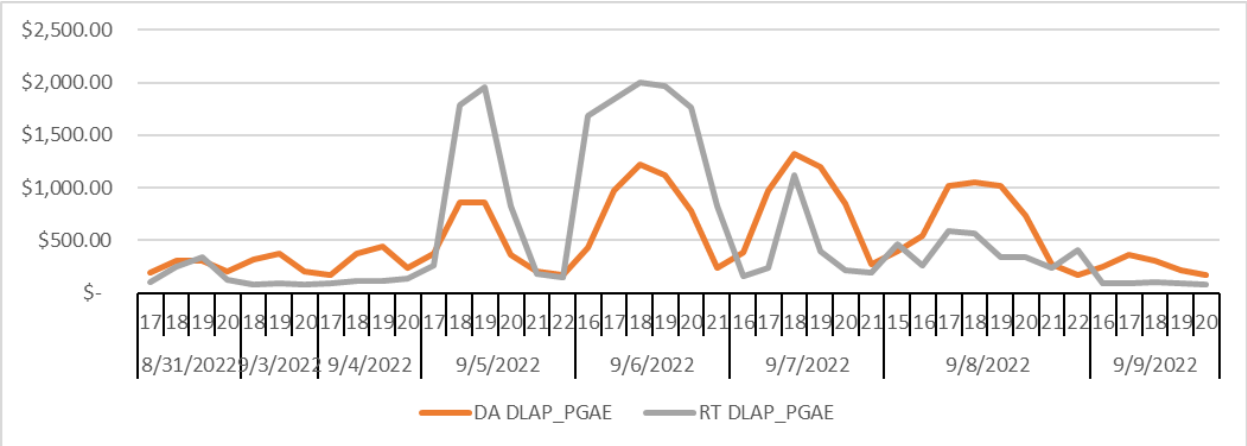
Table 2: DSGS Spec-Hours Calc - Total Load Cost																
Date	Hours	AEWSD	BCID	CWD	GCID	JID	LTRID	PPCID	RD108	SCVWD	SCWA	WSID	WWD	TWID	Z7	PWRPA
8/31/2022	17-20	$ 70,036	$ 5,425	$ 6,891	$ 747	$ 1,590	$ 4,451	$ 44	$ 1,916	$ 13,431	$ 14,058	$ 6,716	$ 131,328	$ 802	$ 2,090	$ 259,527
9/3/2022	18-20	$ 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.

Table 3: Added Cost/(Savings)																
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

APPROVED AUGUST 2, 2023

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**
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p

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