

**Power & Water Resources Pooling Authority  
Resolution 23-06-04**

**RATE REVIEW AND REVISED PRO FORMA RATE SCHEDULE**

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

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

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

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

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

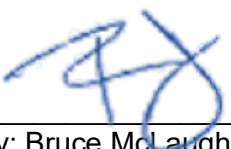
NOW, THEREFORE, BE IT RESOLVED that the Board hereby:

1. Approves the Fixed Power Charge Update in Table 3 and the Rate Change Recommendation for energy in Table 4, both shown in the memorandum appended hereto as Attachment A, to be effective on June 1, 2023.

PASSED AND ADOPTED by the Pooling Authority Board of Directors this 7<sup>th</sup> day of June 2023, by the following vote on roll call:

AYES	Arvin-Edison WSD, Banta Carbona ID, Byron Bethany ID, Cawelo Water District, Glenn-Colusa ID, James ID, Lower Tule River ID, Princeton/Provident ID, RD 108, Santa Clara Valley WD, Sonoma County Water Agency, West Stanislaus ID, Westlands Water District, Zone 7 Water Agency (100.0% Voting Shares)
NOES	None
ABSENT	None

\_\_\_\_\_  
David Weisenberger  
Chairman

  
\_\_\_\_\_  
Attest by: Bruce McLaughlin  
Secretary

**ATTACHMENT A  
to  
RESOLUTION 23-06-04**

# Power and Water Resources Pooling Authority

## June 6, 2023 Board Meeting

### Action Required

Consider staff recommendation to **change Fixed Power and Energy rates effective June 1, 2023** for certain Districts. These rates are draft and may be updated in advance of presentation to the Board.

### Discussion

The Board adopted Dry pro forma rates at the December 2022 board meeting and the year-type is now wet. Staff recommends to change Fixed Power and/or the Energy rates effective June 1 and no update for prior period adjustments for Districts that are over-funded by 10 percent of total costs. The current Pre-Reconciliation report results are:

**Table 1: Current Pre-Reconciliation Results**

Participant	Revenue	Expenses	Balance	Over/(Under) % of Total Costs
	Power Invoice	Power & Ops Costs	Over/(Under) Funded	
Arvin-Edison	\$ 17,620,128	\$ 15,333,988	\$ 1,814,384	12%
Banta-Carbona	\$ 2,054,523	\$ 1,919,900	\$ 72,214	4%
Cawelo	\$ 2,466,748	\$ 2,121,742	\$ 268,574	13%
Glenn-Colusa	\$ 1,630,595	\$ 1,319,537	\$ 270,567	21%
James	\$ 528,613	\$ 542,626	\$ (30,439)	-6%
Lower Tule	\$ 2,058,892	\$ 1,482,001	\$ 534,654	36%
Princeton	\$ 560,034	\$ 560,080	\$ (16,970)	-3%
RD108	\$ 594,281	\$ 496,666	\$ 80,459	16%
Santa Clara	\$ 4,541,627	\$ 3,754,601	\$ 673,571	18%
Sonoma	\$ 6,660,790	\$ 5,017,866	\$ 1,496,014	30%
West Stan	\$ 2,276,481	\$ 1,547,424	\$ 677,264	44%
Westlands	\$ 14,659,496	\$ 12,720,005	\$ 1,561,586	12%
BBID	\$ 416,818	\$ 387,615	\$ 17,002	4%
Zone 7	\$ 1,724,918	\$ 1,467,584	\$ 213,585	15%
<b>PWRPA</b>	<b>\$ 57,793,945</b>	<b>\$ 48,671,635</b>	<b>\$ 7,632,465</b>	

Districts with a negative cash position (JID and PPCID) will not be considered in this report. The negative amount is not urgent at this time (still contingency funds in budget for Summer). The Districts in green (BCID and BBID) are less than 10 percent over their total costs and will also not be considered for a rate change at this time.

#### 1. Fixed Power

These charges are for Resource Adequacy (RA) costs, Slate Battery, Renewable Energy Credits (REC), Carbon transfer purchases, Lodi Debt service and project overheads. The total annual cost for these items are divided by 12 to collect a fixed amount each month. The cost estimates have come down for some because there have been no use of the RA contingency funds for January – June, and with more BR in the portfolio, less carbon transfers estimated.

# Power and Water Resources Pooling Authority

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Some Districts have a small increase because the price of RECs has increased. Table 1 summarizes the annual budget and new annual estimates. Table 2 summarizes the monthly fixed collection and Table 3 is revised Fixed Power monthly costs.

**Table 2: Annual Fixed Power Cost Summary**

Fixed Power	Annual Budget	Annual Update	Change	Jan-May Collection	New Annual Balance
Arvin-Edison	\$ 759,748	\$ 502,099	\$ (257,648)	\$ (316,561)	\$ 185,538
Banta-Carbona					
Cawelo	\$ 380,496	\$ 229,236	\$ (151,260)	\$ (158,540)	\$ 70,696
Glenn-Colusa	\$ 101,473	\$ 83,860	\$ (17,613)	\$ (42,280)	\$ 41,579
James					
Lower Tule	\$ 178,122	\$ 18,565	\$ (159,557)	\$ (74,218)	\$ (55,653)
Princeton					
RD108	\$ 60,543	\$ 40,943	\$ (19,600)	\$ (25,226)	\$ 15,717
Santa Clara	\$ 397,042	\$ 370,075	\$ (26,967)	\$ (165,434)	\$ 204,641
Sonoma	\$ 317,216	\$ 192,095	\$ (125,121)	\$ (132,173)	\$ 59,922
West Stan	\$ 277,270	\$ 201,548	\$ (75,722)	\$ (115,529)	\$ 86,019
Westlands	\$ 1,619,849	\$ 1,352,392	\$ (267,457)	\$ (674,937)	\$ 677,455
BBID					
Zone 7					
<b>TOTAL</b>	<b>\$ 4,091,759</b>	<b>\$ 2,990,813</b>	<b>\$ (1,100,946)</b>	<b>\$ (1,704,900)</b>	<b>\$ 1,285,914</b>

**Table 3: Monthly Fixed Power Update**

Fixed Power	Budgeted Monthly Collection	Updated Monthly Collection	Change	Proposed New Monthly Collection
Arvin-Edison	\$ 63,312	\$ 26,505	\$ (36,807)	\$ 26,500
Banta-Carbona				
Cawelo	\$ 31,708	\$ 10,099	\$ (21,609)	\$ 10,100
Glenn-Colusa	\$ 8,456	\$ 5,940	\$ (2,516)	\$ 5,900
James				
*Lower Tule	\$ 14,844	\$ (7,950)	\$ (22,794)	\$ -
Princeton				
RD108	\$ 5,045	\$ 2,245	\$ (2,800)	\$ 2,200
Santa Clara	\$ 33,087	\$ 29,234	\$ (3,852)	\$ 29,200
Sonoma	\$ 26,435	\$ 8,560	\$ (17,874)	\$ 8,600
West Stan	\$ 23,106	\$ 12,288	\$ (10,817)	\$ 12,300
Westlands	\$ 134,987	\$ 96,779	\$ (38,208)	\$ 96,800
BBID				
Zone 7				
<b>TOTAL</b>	<b>\$ 340,980</b>	<b>\$ 183,702</b>	<b>\$ (157,278)</b>	<b>\$ 191,600</b>

*\*LTRID will go to zero as CWD excess RECs will be used for LTRID*

# Power and Water Resources Pooling Authority

## June 6, 2023 Board Meeting

### 1. Energy Charges:

These charges collect for load costs and the variable energy generation in the portfolio, the cost of the contract and the energy revenue. There is more variability from one District to the next in these rates due to changes in load from the budget and also the participation level in each of the resources. Some Districts costs go up from the budget due to serving more energy than in original budget (CWD, PPCID).

**Table 4: Rate Change Recommendation**

Variable Power	Annual Dry Budget	Revised Annual Budget	Change in Budget	Jan-May Revenue	Remaining Balance	Remaining MWh	New Proposed Rate, \$/MWh	Budget Rate, \$/MWh
Arvin-Edison	\$ 9,342,472	\$ 7,947,732	\$ (1,394,740)	\$ (3,329,057)	\$ 4,618,675	67,854	68.07	72.85
Banta-Carbona	\$ 1,083,335	\$ 979,941	\$ (103,394)	\$ (241,726)	\$ 738,215	9,957		55.74
Cawelo	\$ 489,140	\$ 1,010,896	\$ 521,757	\$ (177,421)	\$ 833,476	11,456		49.77
Glenn-Colusa	\$ 872,548	\$ 687,221	\$ (185,327)	\$ (188,781)	\$ 498,439	7,466	66.77	83.10
James	\$ 324,063	\$ 258,489	\$ (65,574)	\$ (15,978)	\$ 242,511	2,585		56.12
Lower Tule	\$ 1,047,333	\$ 708,777	\$ (338,556)	\$ (297,487)	\$ 411,290	6,725	61.16	115.14
Princeton	\$ 91,424	\$ 303,274	\$ 211,850	\$ (41,437)	\$ 261,837	3,035		42.83
RD108	\$ 173,194	\$ 196,532	\$ 23,338	\$ (25,521)	\$ 171,012	2,070	82.62	95.61
Santa Clara	\$ 2,721,609	\$ 1,810,856	\$ (910,752)	\$ (959,464)	\$ 851,392	13,202	64.49	125.90
Sonoma	\$ 5,132,016	\$ 3,003,741	\$ (2,128,275)	\$ (1,466,854)	\$ 1,536,886	22,482	68.36	137.25
West Stan	\$ 1,909,677	\$ 752,034	\$ (1,157,643)	\$ (130,711)	\$ 621,322	10,786	57.60	92.79
Westlands	\$ 15,644,566	\$ 2,860,537	\$ (12,784,028)	\$ (1,424,387)	\$ 1,436,151	34,008	42.23	81.27
Westside	\$ 94,161	\$ 137,910	\$ 43,749	\$ (20,172)	\$ 117,739	1,856		34.90
Zone 7	\$ 945,501	\$ 614,691	\$ (330,809)	\$ (284,584)	\$ 330,107	4,748	69.53	118.13
<b>TOTAL</b>	<b>\$ 39,871,038</b>	<b>\$ 21,272,632</b>	<b>\$ (18,598,406)</b>	<b>\$ (8,603,579)</b>	<b>\$ 12,669,053</b>	<b>198,227</b>		
	A	B	C	D	E	F	G	H

A: Dry budget approved for variable energy costs (Load Cost, BR, solar, Lodi energy)

B: Revised variable energy costs for Wet year conditions but with still high energy prices in the forward markets.

C: Change in the adopted budget (A) and new Budget estimate (B) for variable energy costs.

D: Invoiced Energy Collection is for January – May, Energy Rate collection.

E: Remaining energy costs to collect: Revised Budget (B) plus energy Revenue (D)

F: June – December estimated energy to invoice

G: New Energy Rate: E/F

H: Dry Budgetd Rate, \$/MWh

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**Budget Impact:**

Costs are estimated to be \$48 Million dollars, down from \$89 Million in the budget. The reason for this is:

1. Serving less load, 36% decrease
2. Change from dry year to wet year conditions
  - a. Large increase in Base Resource due to wet year which
    - i. Brings in more revenue
    - ii. Lowers carbon transfer requirements
  - b. Brings down power costs, but not as much as typical wet years as gas prices are still projected to be high to restore reserves and be ready for atypical weather related energy requirements.
  - c. Solar units bring in less revenue due to more cloud cover in Winter/Spring, lower market prices in solar hours, and generating at negative prices for RECs.

Tables 5 shows the budgeted energy and costs whereas table 6 is the current estimate.

**Table 5: 2023 Budget**

<b>Budget</b>	<b>Mwh</b>	<b>Overhead</b>	<b>Delivery</b>	<b>Power</b>	<b>Total</b>	<b>c/kWh</b>
Arvin-Edison	128,238	\$ 365,338	\$ 11,230,865	\$ 9,912,949	\$ 21,509,152	0.17
Banta-Carbona	19,435	\$ 96,796	\$ 783,811	\$ 1,503,798	\$ 2,384,406	0.12
Cawelo	9,827	\$ 93,540	\$ 840,290	\$ 809,728	\$ 1,743,558	0.18
Glenn-Colusa	10,500	\$ 93,431	\$ 657,179	\$ 933,852	\$ 1,684,463	0.16
James	4,953	\$ 63,125	\$ 356,604	\$ 335,225	\$ 754,953	0.15
Lower Tule	9,097	\$ 77,497	\$ 858,910	\$ 1,225,455	\$ 2,161,862	0.24
Princeton	2,135	\$ 63,064	\$ 136,069	\$ 95,908	\$ 295,041	0.14
RD108	1,811	\$ 66,647	\$ 257,393	\$ 215,920	\$ 539,960	0.30
Santa Clara	21,617	\$ 113,314	\$ 1,617,171	\$ 3,067,454	\$ 4,797,939	0.22
Sonoma	37,391	\$ 156,636	\$ 2,232,500	\$ 5,449,232	\$ 7,838,368	0.21
West Stan	20,580	\$ 92,230	\$ 1,155,061	\$ 2,146,912	\$ 3,394,202	0.16
Westlands	192,503	\$ 851,554	\$ 21,950,167	\$ 17,032,836	\$ 39,834,557	0.21
Westside	2,698	\$ 61,126	\$ 209,493	\$ 137,196	\$ 407,815	0.15
Zone 7	8,004	\$ 74,309	\$ 742,667	\$ 988,705	\$ 1,805,680	0.23
<b>TOTAL</b>	<b>468,788</b>	<b>2,268,607</b>	<b>43,028,178</b>	<b>43,855,170</b>	<b>89,151,955</b>	<b>0.19</b>

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**Table 6: 2023 Current Cost Estimates (Pre-Reconciliation report)**

<b>Current</b>	<b>MWh</b>	<b>Overhead</b>	<b>Delivery</b>	<b>Power</b>	<b>Total</b>	<b>c/kWh</b>
Arvin-Edison	113,550	\$ 352,342	\$ 7,542,811	\$ 7,438,835	\$ 15,333,988	0.14
Banta-Carbona	14,293	\$ 83,431	\$ 576,268	\$ 1,311,300	\$ 1,970,999	0.14
Cawelo	15,020	\$ 77,525	\$ 939,547	\$ 1,128,290	\$ 2,145,362	0.14
Glenn-Colusa	9,737	\$ 80,605	\$ 569,504	\$ 673,422	\$ 1,323,531	0.14
James	2,869	\$ 55,830	\$ 219,868	\$ 269,855	\$ 545,552	0.19
Lower Tule	9,308	\$ 66,527	\$ 774,573	\$ 640,900	\$ 1,482,001	0.16
Princeton	4,002	\$ 54,105	\$ 203,718	\$ 302,257	\$ 560,080	0.14
RD108	2,337	\$ 56,949	\$ 229,614	\$ 218,079	\$ 504,642	0.22
Santa Clara	20,823	\$ 105,132	\$ 1,694,928	\$ 1,981,023	\$ 3,781,084	0.18
Sonoma	33,169	\$ 148,254	\$ 2,059,205	\$ 2,810,407	\$ 5,017,866	0.15
West Stan	12,195	\$ 78,570	\$ 627,488	\$ 858,215	\$ 1,564,274	0.13
Westlands	51,534	\$ 879,372	\$ 8,071,515	\$ 3,971,577	\$ 12,922,464	0.25
Westside	2,434	\$ 52,979	\$ 154,988	\$ 183,657	\$ 391,624	0.16
Zone 7	7,157	\$ 68,599	\$ 811,916	\$ 593,112	\$ 1,473,627	0.21
<b>TOTAL</b>	<b>298,429</b>	<b>2,160,220</b>	<b>24,475,943</b>	<b>22,380,929</b>	<b>49,017,093</b>	<b>0.16</b>

**Table 7: Change from Dry Budget**

<b>Difference</b>	<b>MWh</b>	<b>Overhead</b>	<b>Distribution</b>	<b>Power</b>	<b>Total</b>
Arvin-Edison	(14,688)	\$ (12,997)	\$ (3,688,054)	\$ (2,474,113)	\$ (6,175,164)
Banta-Carbona	(5,142)	\$ (13,365)	\$ (207,544)	\$ (192,497)	\$ (413,406)
Cawelo	5,193	\$ (16,015)	\$ 99,257	\$ 318,561	\$ 401,804
Glenn-Colusa	(763)	\$ (12,827)	\$ (87,675)	\$ (260,430)	\$ (360,932)
James	(2,084)	\$ (7,296)	\$ (136,736)	\$ (65,370)	\$ (209,401)
Lower Tule	212	\$ (10,969)	\$ (84,337)	\$ (584,555)	\$ (679,861)
Princeton	1,868	\$ (8,959)	\$ 67,649	\$ 206,349	\$ 265,039
RD108	525	\$ (9,698)	\$ (27,778)	\$ 2,159	\$ (35,318)
Santa Clara	(794)	\$ (8,181)	\$ 77,758	\$ (1,086,431)	\$ (1,016,855)
Sonoma	(4,222)	\$ (8,382)	\$ (173,295)	\$ (2,638,825)	\$ (2,820,501)
West Stan	(8,385)	\$ (13,659)	\$ (527,572)	\$ (1,288,698)	\$ (1,829,929)
Westlands	(140,969)	\$ 27,818	\$ (13,878,652)	\$ (13,061,259)	\$ (26,912,093)
Westside	(264)	\$ (8,147)	\$ (54,505)	\$ 46,462	\$ (16,191)
Zone 7	(847)	\$ (5,710)	\$ 69,250	\$ (395,593)	\$ (332,053)
<b>TOTAL</b>	<b>(170,359)</b>	<b>(108,387)</b>	<b>(18,552,235)</b>	<b>(21,474,240)</b>	<b>(40,134,862)</b>