

Balancing Authority of Northern California

**Regular Meeting of the
Commissioners of BANC
and Strategic Planning
Session**

**1:00 P.M.
Wednesday, August 23, 2023
555 Capitol Mall, Suite 570
Sacramento, CA 95814**

Balancing Authority of Northern California

NOTICE OF REGULAR MEETING AND STRATEGIC PLANNING SESSION AND AGENDA

Notice is hereby given that a regular meeting and strategic planning session of the Commissioners of the Balancing Authority of Northern California (BANC) will be held on **August 23, 2023** at **1:00 p.m.** at **555 Capitol Mall, Suite 570, Sacramento, CA 95814.**

The following information is being provided as the forum by which members of the public may observe the meeting and offer public comment:

Phone: 1-346-248-7799 or 1-719-359-4580

Meeting ID: 891 5578 5692

Passcode: 027961

Meeting Link: <https://us06web.zoom.us/j/89155785692?pwd=VHpWQjNTUEVnK2RtRVRHVkNPWlFCQT09&from=addon>

AGENDA

- 1 Call to Order and Verification of Quorum.**
- 2 Matters subsequent to posting the Agenda.**
- 3 Public Comment** – any member of the public may address the Commissioners concerning any matter on the agenda.
- 4 Consent Agenda.**
 - A. Minutes of the Regular Commission Meeting held on July 26, 2023.
 - B. BANC Operator Report (July).
 - C. Compliance Officer Report (August).
 - D. PC Committee Chair Report (August).
 - E. General Manager's Report and Strategic Initiatives Update.
- 5 BANC Strategic Planning Session.**
 - A. Discussion and Possible Decision on BANC Participation in CAISO Extended Day Ahead Market (EDAM).
 - i. CA Market Developments and Electricity Policy Panel.
 - a. Andy Campbell, Chair, WEIM Governing Body.
 - b. Alice Reynolds, President, California Public Utilities Commission.
 - ii. Background on BANC Evaluation of EDAM.
 - iii. Consider and Possibly Approve Resolution 23-08-01 *Concurrence and Authorization in Furtherance of EDAM Participation by BANC.*
 - BREAK ---
 - B. Discussion on Resource Procurement Options for BANC.
 - i. Consider and Possibly Approve Resolution 23-08-02 *Authorization for General Manager to Enter into a Letter of Intent to Develop an Agreement with Golden State Clean Energy.*
 - ii. Discussion of Sutter Carbon Sequestration Project.
 - C. 2023 and 2024 BANC Budget Updates.
 - i. Consider and Possibly Approve Resolution 23-08-03 *Approval of Revised 2023 Budget for BANC.*
 - ii. Review of Draft 2024 BANC Budget.
 - D. Update on BANC Delegations, Process & Procedures Effort.
 - E. Member Updates.
- 6 Adjournment.**

Accessible Public Meetings - Upon request, BANC will provide written agenda materials in appropriate alternative formats, or disability-related modification or accommodation, including auxiliary aids or services, to enable individuals with disabilities to participate in public meetings. Please send a written request, including your name, mailing address, phone number and brief description of the requested materials and preferred alternative format or auxiliary aid or service at least 3 days before the meeting. Requests should be sent to: Kris Kirkegaard, 555 Capitol Mall, Suite 570, Sacramento, CA 95814 or to administrator@braunlegal.com.

Balancing Authority of Northern California

Consent Agenda Items

- A. Minutes of the July 26, 2023 BANC Regular Meeting.**
- B. BANC Operator Report (July).**
- C. Compliance Officer Report (August).**
- D. PC Committee Chair Report (August).**
- E. General Manager Report and Strategic Initiatives Update.**

MINUTES OF THE REGULAR MEETING
OF THE COMMISSIONERS OF
THE BALANCING AUTHORITY OF NORTHERN CALIFORNIA (BANC)

July 26, 2023

On this date, a Regular Meeting of the Commissioners of the Balancing Authority of Northern California was held at 555 Capitol Mall, Suite 570, Sacramento, CA 95814.

Representatives:

Member Agency	Commissioner
Modesto Irrigation District (MID)	Martin Caballero
City of Redding	Nick Zettel
City of Roseville	Shawn Matchim
Sacramento Municipal Utility District (SMUD)	Andrew Meditz, Alternate
City of Shasta Lake	James Takehara
Trinity Public Utilities District (TPUD)	Paul Hauser

Other Participants:

Jim Shetler	General Manager
Brittany Iles	General Counsel
Kris Kirkegaard	General Counsel Support
Bryan Griess	WAPA
Jeanne Haas	WAPA
Arun Sethi	WAPA

1. Call to Order and Verification of Quorum: Mr. Shetler verified that there was a quorum to proceed; attendance is noted above. Chair Hauser called the meeting to order at 2:00 p.m. Commissioner Takehara joined following the vote on the Consent Agenda.
2. Matters Subsequent to Posting the Agenda: None.
3. Public Comment (any matter on the agenda): None.
4. Consent Agenda: Chair Hauser invited comments from the Commission and a motion on the Consent Agenda; no comments.

ACTION: M/S (Matchim/Caballero) to **approve the Consent Agenda**. Motion carried by a unanimous roll call vote (Absent: Commissioner Takehara).

MINUTES OF THE REGULAR MEETING
OF THE COMMISSIONERS OF
THE BALANCING AUTHORITY OF NORTHERN CALIFORNIA (BANC)

5. Regular Agenda Items.

A. General Manager Updates:

i. Market Updates – EIM, EDAM, Markets+, WMEG, WRAP:

Mr. Shetler provided a brief overview of ongoing operations. He noted that SMUD has raised the possibility of including Demand Response in the RA test in the future and asked for member interest/input. In addition, the Settlements subcommittee continues to review the guarantee amount with CAISO but has not yet made any recommendations.

The EDAM tariff has been posted, and stakeholder comments were filed a few weeks prior. CAISO expects to combine the EDAM filing with the Day-Ahead Market Enhancements (DAME) filing in mid-August, hoping to get both approved simultaneously. He overviewed EDAM implementation options and answered questions from the Commission.

Mr. Shetler also provided updates on SPP Markets+, WMEG, and WRAP.

B. Discuss Approach for BANC Participation in CAISO Extended Day Ahead Market (EDAM).

Mr. Shetler reviewed a proposed decision-making timeline, including considerations, potential approaches, and options, with the Commission. He noted that EDAM trading examples were currently being reviewed and would be overviewed at the upcoming EIM Committee meeting. Mr. Shetler took questions from the Commission and there was some discussion among the members. In addition, a CAISO EDAM forum has been planned in Las Vegas for the end of August. Additional discussions are planned for the upcoming Strategic Planning Session in August. No action was taken.

C. Discuss Planning for BANC 2024 Budget.

Mr. Shetler overviewed some expected adjustments and noted that he expects to have an initial draft available for review by the Strategic Planning Session in August. He also addressed questions from the Commission.

D. Discuss Logistics and Agenda for 2023 Strategic Planning Session.

Mr. Shetler shared logistics and anticipated agenda topics. The meeting is planned for 1-4 p.m. Pacific Time on Wednesday, August 23rd.

E. Member updates.

Mr. Matchim noted some nuances related to the operating procedures governing the use of Roseville's DWR peaker units, particularly in relation to EEA Watch situations, and he noted his appreciation for the assistance of the BANC Operator in working through the challenges. Mr. Hauser gave a brief overview of TPUD's project to expand their right-of-way, noting they were currently in the NEPA process, looking to publish a document for comment by early 2023.

The Commission adjourned at 2:45 p.m.

Minutes approved on August 23, 2023.

C. Anthony Braun, Secretary



BALANCING AUTHORITY OF NORTHERN CALIFORNIA

P.O. BOX 15830 • D109 • SACRAMENTO • CA 95852 -1830

TO: BANC Commission

RE: BANC Operator Report for July 2023

Operations:

- BA Operations: Normal
- Significant BA Issues: None
- Declared BA Energy Emergency Alert Level (EEA): EEA0
- RSG Activations
 - 0 Qualifying Events
 - 0 MW Qualifying Event request
 - 0 MW average generation lost
 - 0 MW maximum generation lost
 - Generating unit(s) and date(s) affected: N/A
 - All recoveries within 0 minute(s): N/A
- USF
 - 13 of 31 days with instances of USF mitigation procedure utilized
 - 0 days on Path 66
 - No operational impact on BANC
- BAAL Operation:
 - Maximum duration of BAAL exceedance: 5 Minutes
 - Number of BAAL exceedance >10 minutes: None
 - BAAL violation (BAAL exceedance >30 minutes): None
- Frequency Response (FR) Performance – Quarterly Metric:
 - 2023 Frequency Response Obligation (FRO): -18.8 MW/0.1Hz
 - Q1 Frequency Response Measure (FRM): -40.5 MW/0.1Hz
 - Q1 Number of Under-Performed Events: 0 out of 4

Monthly Notes:

- No additional notes or impacts

A JOINT POWERS AUTHORITY AMONG

Modesto Irrigation District, City of Redding, City of Roseville, Trinity Public Utilities District,

6

City of Shasta Lake, and Sacramento Municipal Utility District

Compliance Officer Report

BANC Commission Meeting

August 2023

The following summarizes routine issues for the Commission's information and consideration. Any major issues or action items will be identified on the Commission agenda for action.

BA Compliance Issues:

- No significant operational Balancing Authority compliance events occurred.
- All required BA compliance reports and operating data were submitted to WECC.
- BANC's response to NERC's Section 1600 Data Request related to Internal Network Security Monitoring with BA applicability that was issued in May was submitted in advance of the July 25th due date.
- The annual review of BANC's compliance documents is wrapping up, and MCRC participants have completed their review. The Commission will have the opportunity to review and approve the BANC Internal Compliance Program Charter at the September meeting.
- WECC has published the 2022 Public Audit Report for the Balancing Authority of Northern California.
- WECC is expected to publish BANC's Compliance Oversight Plan (COP) in the coming weeks.

BANC MCRC:

- The next BANC MCRC meeting is scheduled to be held at 10:00 AM on Monday, August 28th via teleconference.

PC Committee Chair Report

BANC Commission Meeting

August 2023

The following summarizes Planning Coordinator-related activities and updates for the Commission's information and consideration. Any major issues or action items will be identified separately on the Commission agenda for action.

BANC PC Committee Updates and/or activities:

SMUD staff continue to work toward demonstrating compliance with PC-related NERC reliability standards.

- TPL-001-5 - Transmission System Planning Performance – Stability analysis is complete. Results were sent to BANC PC Participants for review on July 28th and comments are due on August 11th. Staff is currently working on the correction action plans.
- FAC-014 SOLs – Staff completed this study and are currently reviewing the study results. The preliminary SOL study results will be submitted to BANC PC Participants for review and comment by August 14th. The comments will be incorporated into the upcoming 2023 BANC PC FAC-014 SOL report.
- PRC-023-4 Study Report – Staff shared the finalized PRC-023-4 report with BANC PC Participants on July 28th.
- PRC-026-1 Simulations – Staff is performing simulations for the PRC-026-1 standard and will share study results with BANC PC Participants by September 1st.

The table below shows the current status of all PC-related NERC standards:

	PC Standard	Estimated % Complete	Notes
1	FAC-002-3 Interconnection Studies	100%	There are no BES interconnection projects for 2023-24 for BANC PC Participants.
2	FAC-010-3 SOL Methodology for Planning Horizon	100%	An updated version was sent to external stakeholders and BANC PC Participants on 12/31/2022.
3	FAC-014-2 Establish and Communicate SOLs	75%	Staff submitted SOL study results with BANC PC participants for review and comment by 08/14/2023. The results will be incorporated into the upcoming 2023 BANC PC FAC-014 SOL report.
4	IRO-017-1 Outage Coordination	0%	Awaiting the completion of the 2023 annual assessment to send to the Reliability Coordinator.
5	MOD-031-2 Demand and Energy Data	100%	Staff is coordinating the 2023 data request cycle. The two sets of data have been uploaded to WECC. BANC also provided responses to L&R Narrative questions on 03/20/2023.
6	MOD-032-1 Data for Power System Modeling & Analysis		Ongoing activity. Data request to fulfill 13-month cycle for compliance was sent on 02/03/2023.
7	MOD-033-1 System Model Validation	0%	Data requests and study will be performed later in the year.
8	PRC-006-5 Underfrequency Load Shedding	100%	The WECC Off Frequency System & Protection Restoration Committee (OFSPR) data collector sent out the new 2023 data request, and BANC PC Participants provided BANC PC and the OFSPR their responses for the Southern Island Load Tripping Plan (SILTP) report. The provided data will be aggregated into the coordinated load tripping plan and report for WECC by SMUD. The BANC PC portions of this data request was completed in June.
9	PRC-010-2 Undervoltage Load Shedding	0%	Another study is due by 12/30/2024.
10	PRC-012-2 Remedial Action Schemes	80%	New Standard effective 01/01/2021. Study Plan finalized on 04/10/2020. Working on performing studies for each RAS scheme.
11	PRC-023-4 Transmission Relay Loadability	100%	Staff shared the finalized PRC-023-4 report with BANC PC Participants on 07/28/2023.
12	PRC-026-1 Relay Performance During Stable Power Swings	40%	Staff is performing simulations for the PRC-026-1 standard and will share study results with BANC PC participants by 09/01/2023.

	PC Standard	Estimated % Complete	Notes
13	TPL-001-5 Transmission System Planning Performance	70%	Stability analysis is complete, and results are currently under review
14	TPL-007-4 Transmission System Planned Performance for Geomagnetic Disturbance Events	100%	<p>Registered the SMUD/BANC PC GIC monitoring device at Carmichael with NERC – compliance requirement.</p> <p>Made request to the GIC manufacturer to increase sampling rate from the default once every hour to once every 10s or faster per NERC recommendation.</p> <p>SMUD sent the TPL-007-4 requirement R12 and R13 to the BANC PC members. The effective date for these requirements was 07/01/2021.</p> <p>Ongoing, NERC has declared a GMD event (Kp>7) for reporting purpose. The GMD event duration was from 11/3 2021 3:00pm to 11/4/2021 11:59pm. Recording data for these two events would be downloaded and saved for reporting prior to the annual due date (06/30/2022).</p> <p>SMUD uploaded all 3 GMD events that were requested by NERC (due 06/30/2022).</p> <p>Completed benchmarking and supplemental GMD Vulnerability Assessment of the Near-Term Transmission Planning Horizon (R4 and R8), provided GIC flow information to the BANC PC members (R5 and R9) – Due 01/01/2023.</p>

GM Report

BANC Commission Meeting

August 23, 2023

I wanted to summarize routine issues for the Commission's information and consideration. Any major issues or action items will be identified separately on the Commission agenda for action.

Outreach Efforts

Refer to GM outreach report provided under separate distribution. In addition, here are some other noteworthy items:

LADWP/Seattle City Light/SRP

Dialogue continues with these entities regarding EIM participation. We continue to interact on an informal basis to make sure we are aligned on EIM issues from a POU perspective. We are routinely holding bi-weekly calls to provide updates and discuss issues. We have also used this forum to discuss POU positions regarding the EDAM development, other market design issues (e.g.- SPP Markets+), and to discuss potential summer heat wave impacts on EIM and EDAM design.

Market Initiatives

EIM Participation

Staff continues monitoring EIM participation. CAISO quarterly benefit reports continue to show that BANC is seeing benefits from EIM participation, with the 1st Quarter 2023 report showing gross benefits of \$17.72 million for BANC, with a total of \$519.83 millions of gross benefits for BANC since joining in 2019.

With respect to BANC EIM Phase 2 effort, BANC has been passing both the EIM Capacity and Flex Ramp tests with a high success rate. Both the Technical Evaluation Subcommittee and the Settlements Subcommittee are meeting routinely and evaluating EIM operations, with reports out to the EIM Committee. The Settlements group is currently discussing with the Settlements Subcommittee the pros and cons of increasing the level of guarantee transfer from the EIM Participants to BANC. We are also discussing with the EIM Committee how to move forward with accounting for non-participating demand response in EIM, at least for SMUD, as well as the request by CAISO for detailed behind the meter solar and storage data.

EDAM Participation

The CAISO provided a review of the final EDAM straw proposal to the EIM Governing Body/CAISO Board of Governors at their December 14, 2022, meeting. The CAISO obtained approval by the EIM Governing Body/Board of Governors at their February 1, 2023. BANC attended the February meeting and made supportive comments consistent with the Commission approved EDAM talking points. BANC is participating with other interested EDAM parties and the CAISO on EDAM tariff development. The draft tariff was posted on March 30, 2023. BANC filed comments on the tariff in early May in general support of the proposed EDAM tariff. Stakeholder meetings are scheduled for May, June, and July with filing at FERC now forecasted for the week of 8/21/23 in conjunction with the Day Ahead Market Enhancements (DAME) upgrades.

A group of Western state regulators (AZ, CA, NM, OR, and WA) have sent a letter to CREPC/WIRAB supporting the creation of an independent entity that would leverage the existing CAISO infrastructure for EIM and eventually EDAM to develop a cost-effective West-wide market. This would include a range of market services from EIM to EDAM to an RTO. It also deals with the CAISO governance issue by creating a separate independent entity. BANC views this as a positive development in ensuring a West-wide market that will include CA.

BANC staff will be presenting its recommendation regarding EDAM participation to the Commission at its 8/23/23 Strategic Planning Session.

Other Market Developments

In parallel with the re-initiation of the EDAM process, two other West-wide market developments are also in process:

1. SPP has announced its “Markets +” effort to support utilities in the West with a range of market options from EIM to full RTO services. SPP provided a final straw proposal in late 2022. SPP has received funding from twenty-two entities for the next phase of the market development. Staff views Markets+ as a fallback option for BANC and will continue to monitor this market option but does not plan on seeking funding for participation in this next phase of their efforts. SPP is currently forecasting a Markets+ tariff ready for filing at FERC by the end of 2023.
2. A group of Western utilities have formed a group called Western Market Exploratory Group (WMEG) with a stated purpose of identifying what a full market in the West should entail. The cost benefit study and other WMEG efforts were completed in June 2023 and the project was declared finished as of June 30, 2023.

WAPA

Market Engagement

WAPA-SNR continues to be an active participant in the EIM.

We have also held several discussions with WAPA-SNR on how staff could assist in their decision-making on EDAM participation. This has included more detailed discussions with the Brattle Group on the benefits study, joint discussions with the CAISO, and making the Utilicast consultant available for assistance.

WECC

WECC Board Meetings

The last set of Board and committee meetings were held on June 6-7, 2023, in Salt Lake City, UT. The next set of meetings will be September 13-14, 2023, in Vancouver, BC, Canada. This will also be the annual members meeting, which the BANC General Manager plans to attend.

Western Power Pool (WPP)

Resource Adequacy Project

As agreed previously, BANC has informed WPP that it will not be participating in the Western Resource Adequacy Program (WRAP) due to our lack of ability to have firm, long-term transfer capability at Mid-C, which is the hub for the WRAP interchanges. BANC continues to monitor development of the WRAP and hold periodic discussions with WPP regarding our ability to participate in the future. SPP has indicated that they intend to use the WRAP as the model of a Resource Adequacy program for “Markets +” development. However, an entity does not have to be a WRAP participant to join “Markets+” but does need to have an equivalent Resource Adequacy program. WPP filed the tariff for the WRAP at FERC on August 31, 2022. There were some interventions filed by the September 30, 2022, due date. BANC has filed a “plain vanilla” intervention in order to be able to monitor the proceedings. FERC issued a deficiency letter to WPP on November 21, 2022, and WPP submitted a response on December 12, 2022. FERC provided tariff approval on 2/10/23. WPP has issued requests to the WRAP participants for additional funding to continue the effort into 2023 and ~20 parties have agreed to provide funding. The new WPP independent board held its first public meeting on May 31, 2023.

RSG and FRSG Participation

BANC continues to participate in the Reserve Sharing Group and the Frequency Response Sharing Group through the WPP and receive benefits in doing so.

CDWR Delta Pumping Load

BANC is coordinating with SMUD, CDWR, WAPA, and the CAISO regarding how the construction and pumping loads and ancillary services will be provided for this project. The CAISO has reached out to BANC/SMUD/WAPA-SNR regarding contacts for initiating discussions on how CAISO will supply energy for the construction loads in our footprints. With the Governor's announcement that the project will be downsized from two to one tunnel, CDWR has withdrawn the current applications and will be submitting revised environmental documentation. SMUD reported that CDWR has approached them regarding the revised environmental review and updated project schedule and SMUD is initiating updated studies. The current schedule for the project is to initiate construction in 2033 with operations initiated in 2040's.

SB100 Implementation

As part of SB100, the CPUC, CEC, and CARB (Joint Agencies) are required to collaborate with the California BAs to develop a quadrennial report on the status of achieving the goals of SB100. The four POU BAs (BANC, IID, LADWP, and TID) are collaborating on positions and responses. The final, initial report was issued on 3/15/21. The CEC did reach out to the POU BAAs via CMUA in early March 2021 seeking more engagement with the BAAs for the next round of analysis for the SB100 effort. The POU BAAs are coordinating via CMUA on how to engage in this request. A subgroup of the POU BAAs, including BANC, participated in a Joint Agency SB100 workshop on June 2, 2021. We have also had several follow-up discussions with the Joint Agencies. Based upon recent discussions, the POU BAAs have hired a consultant via CMUA to assist in this effort. We are also working on concepts for a reliability analysis effort and providing current known interconnection queue information as well as forecast renewable resource procurement assumptions. The Joint Agencies have also indicated that they will be initiating the next cycle of the SB100 effort to support issuing an update report by the required date of 1/1/25. The CEC has indicated that they intend to reengage in the dialogue on this effort in the near future.

Western Electricity Industry Leaders (WEIL) Group

The WEIL CEOs last met on March 3, 2023, in San Diego, CA. The next meeting of the WEIL group is planned for September 29, 2023, in Portland, OR.

Strategic Initiatives

The 2022/2023 Strategic Initiatives updates are attached to this report.

BANC 2022/2023 Strategic Plan - Routine Initiatives - August 2023 Update

No./Priority	Focus Area	Initiative	Responsibility	Target Due Date	Status
1 Medium	INDEPENDENCE	Effectively oversee the BA operations.	Jim Shetler	Ongoing	See monthly Ops, PC, Compliance, & GM Reports
2 Medium		Maintain long-term succession plan and traits for General Manager	Jim Shetler/Commission	Ongoing as Necessary	On hold for 2023
3 Medium		Develop appropriate policies, procedures, & action tracking	Jim Shetler/BB&W	4th Qtr. 2023	Initiating staff discussions
4 Medium	OUTREACH	Engage in industry forums (WECC, RC West, NWPPA, etc.)	Jim Shetler	Ongoing	Attend RC West, WECC Board, WEIL, & NWPP Exec. Forum meetings
5 Medium		Coordinate with other POU BAs (Ca and regionally)	Jim Shetler	Ongoing	Coordinating with SCL/SRP/LA/TP/TID on EIM/EDAM & SB100
6 Medium		Outreach to regulatory and legislative bodies on key issues	Jim Shetler/BB&W/WEL	Ongoing as Necessary	FERC update discussion on EDAM 1/16
7 Medium		More formal engagement with TID on BA/EIM/EDAM issues	Jim Shetler/BB&W/WEL	Ongoing	Continue periodic discussions on areas of collaboration
8 Medium	ASSETS	Establish BANC criteria for RA	Jim S./Res. Com.	4th Qtr. 2022	Resource Committee and Commission approved in Feb.
9 Low	MEMBER SERVICES	Identify and outreach to potential new BANC members	Jim Shetler	Ongoing as Appropriate	

BANC 2022/2023 Strategic Plan - Focused Initiatives - August 2023 Update

No./Priority	Focus Area	Initiative	Responsibility	Target Due Date	Status
10 High	INDEPENDENCE	Manage EIM Phase 2 Going Forward	Jim Shetler/SMUD	Ongoing	Manage Phase 2 operations including EIM, Tech Anal. & Settlements committees
11 High		EDAM evaluation effort ~ CAISO Stakeholder Process	Jim Shetler/BB&W/WEL	Dec-22	EIM GB/BOG approved 2/1
		~ CAISO Tariff Development ~ BANC EDAM participation decision	Jim Shetler/BB&W/WEL Jim Shetler/BB&W/WEL/ Commission	Mid-2023 4th Qtr. 2023	Comments submitted Recommendation to EIM & Commission on EDAM 8/23
12 Medium	OUTREACH	Evaluate opportunities to engage other entities in market development	Jim Shetler	Ongoing	Coordinating with SCL, SRP, LADWP, TID, & Tacoma
13 Medium		Regional Policy Issues: Monitor/ weigh-in where appropriate	Jim Shetler/Commission	Ongoing	Support letter for EDAM Coordinating on ACR188
14 High		Market Regionalization: ~ Monitor ongoing discussions at WEIL & other venues	Jim Shetler/BB&W/WEL	Ongoing	Participating at WEIL/WMEG
15 High		Coordinate with CA BAs on SB100 effort	Jim Shetler/BB&W	Ongoing	CEC to reengage late summer early fall
16 Medium	ASSETS	~ Evaluate state & federal funding for BANC projects ~ Evaluate future BANC projects	Jim S./BB&W/Res. Com. Jim S./BB&W/Res. Com.	2nd Qtr. 2023 12/1/23	GSCE LOI for aprvl. 8/23; Pursuing Sutter CS Project
17 Medium	MEMBER SERVICES	Evaluate possible support to participants for EIM operations	Jim S.	Ongoing	

Balancing Authority of Northern California

Agenda Item 5A

1. ***Resolution 23-08-01 Concurrence and Authorization in Furtherance of EDAM Participation by BANC.***

**Balancing Authority of Northern California
Resolution 23-08-01**

CONCURRENCE AND AUTHORIZATION IN FURTHERANCE OF EDAM PARTICIPATION BY BANC

WHEREAS, the Balancing Authority of Northern California (“BANC”) was created by a Joint Powers Agreement (“JPA”) to, among other things, acquire, construct, maintain, operate, and finance Projects; and

WHEREAS, BANC members are active participants in Western wholesale energy markets; and

WHEREAS, BANC members historically have traded power products in markets administered by the California Independent System Operator (“CAISO”) and in bilateral markets with trading partners throughout the West; and

WHEREAS, in 2018, BANC executed an Implementation Agreement with the CAISO and became an EIM Entity to facilitate participation in the Western Energy Imbalance Market (“WEIM”) by its members; and

WHEREAS, BANC members entered the WEIM in a phased fashion, with the Sacramento Municipal Utility District (“SMUD”) entering the WEIM in 2019, and the remainder of BANC members and the Western Area Power Administration – Sierra Nevada Region (“WAPA-SNR”) entering into the WEIM in 2020; and

WHEREAS, BANC members have reported economic and reliability benefits from participation in the WEIM, generally exceeding studied estimates of benefits prior to WEIM go-live. Such benefits have included lower production costs, more trading liquidity, reduced emissions, response to system contingencies, and ease of inter-Balancing Authority transfers; and

WHEREAS, BANC has been actively involved in the stakeholder initiative that has culminated in the development of the Extended Day Ahead Market (“EDAM”) service offering, which extends CAISO services from the coordinated real-time offering of the WEIM to add a Day-Ahead market optimization and unit commitment; and

WHEREAS, BANC has taken the approach that developing Western electricity markets are best handled in an evolutionary way that reflects voluntary and organic growth of market size and functionality; and

WHEREAS, BANC desires to leverage its existing investment in WEIM and retain the benefits provided by WEIM participation as it moves into a day ahead market, and

WHEREAS, BANC has also participated in or monitored developments of the Western Resource Adequacy Program and the Southwest Power Pool “Markets+” initiatives; and

WHEREAS, BANC has worked with other WEIM participants and directed a study through a nationally recognized consulting firm of the costs and benefits of an EDAM; and

WHEREAS, BANC has identified potential quantitative benefits, as well as qualitative benefits, through increased awareness of Day Ahead grid conditions and unit commitment, resulting from participation in EDAM; and

WHEREAS, BANC has performed a “gap analysis” to determine the costs for the transition from WEIM to EDAM and participated in a benefit analysis of EDAM participation which showed a net benefit for BANC participation in EDAM; and

WHEREAS, BANC desires to leverage its existing investment in WEIM and retain the benefit provided by WEIM participation as it moves into a day ahead market; and

**Balancing Authority of Northern California
Resolution 23-08-01**

WHEREAS, BANC concurs that the most consumer benefit is derived through a large and diverse market footprint that is inclusive of California; and

WHEREAS, BANC has worked with the EIM Committee at BANC and in conjunction with WAPA-SNR to shape this approach to markets and examine the study assumptions, results, and sensitivities of joining EDAM; and

WHEREAS, the BANC EIM Committee concurs with the recommendations of BANC Staff that BANC take necessary steps to move forward with participation in EDAM, recognizing that individual member EDAM participation, and participation by WAPA-SNR, is within the sole purview of each member and WAPA-SNR, and subject to their respective decisional processes; and

WHEREAS, BANC Staff recommends to the Commission that BANC pursue participation in EDAM as an EDAM Entity, including preparations for systems and technical implementation, market support, contracting, public advocacy, and all necessary steps to enable BANC participation in EDAM at the earliest practical implementation opportunity.

NOW, THEREFORE, BE IT RESOLVED that the Commissioners concur in the recommendation of BANC Staff and authorize the BANC Staff to take all steps in furtherance of EDAM participation by BANC.

PASSED AND ADOPTED by the Commissioners of the Balancing Authority of Northern California this 23rd day of August 2023, by the following vote:

		Aye	No	Abstain	Absent
Modesto ID	Martin Caballero				
City of Redding	Nick Zettel				
City of Roseville	Dan Beans				
City of Shasta Lake	James Takehara				
SMUD	Paul Lau				
TPUD	Paul Hauser				

Paul Hauser
Chair

Attest by: C. Anthony Braun
Secretary

Balancing Authority of Northern California

Agenda Item 5B

1. ***Resolution 23-08-02 Authorization for General Manager to Enter into a Letter of Intent to Develop an Agreement with Golden State Clean Energy.***

**Balancing Authority of Northern California
Resolution 23-08-02**

**AUTHORIZATION FOR GENERAL MANAGER TO ENTER INTO A LETTER OF INTENT TO DEVELOP AN
AGREEMENT WITH GOLDEN STATE CLEAN ENERGY**

WHEREAS, the Balancing Authority of Northern California (“BANC”) was created by a Joint Powers Agreement (“JPA”) to, among other things, acquire, construct, maintain, operate, and finance Projects; and

WHEREAS, BANC has in the past sought to acquire solar/storage projects for the benefit of the BANC members; and

WHEREAS, a majority of the BANC members have expressed an interest in participating in a BANC solar/storage project; and

WHEREAS, a majority of the BANC members have expressed an interest in developing a project purchase power agreement (PPA) template that could form the basis for future procurement of a solar/storage project; and

WHEREAS, BANC staff has determined an interest on the part of Golden State Clean Energy (“GSCE”) to develop a PPA template for solar/storage projects that they are developing; and

WHEREAS, the initiative described herein is specific to BANC procurement on behalf of its members and does not bind individual member procurement activities.

NOW THEREFORE, BE IT RESOLVED that the Commissioners of the Balancing Authority of Northern California hereby authorize the General Manager to enter into a letter of intent to develop a power purchase agreement template with Golden State Clean Energy for a solar/storage project in the Westlands Development Area, attached hereto as Attachment A. Such a template could form the basis for a specific PPA, which would be brought back to the Commission for consideration if sufficient interest is expressed by the members.

PASSED AND ADOPTED by the Commissioners of the Balancing Authority of Northern California this 23rd day of August 2023, by the following vote:

		Aye	No	Abstain	Absent
Modesto ID	Martin Caballero				
City of Redding	Nick Zettel				
City of Roseville	Dan Beans				
City of Shasta Lake	James Takehara				
SMUD	Paul Lau				
TPUD	Paul Hauser				

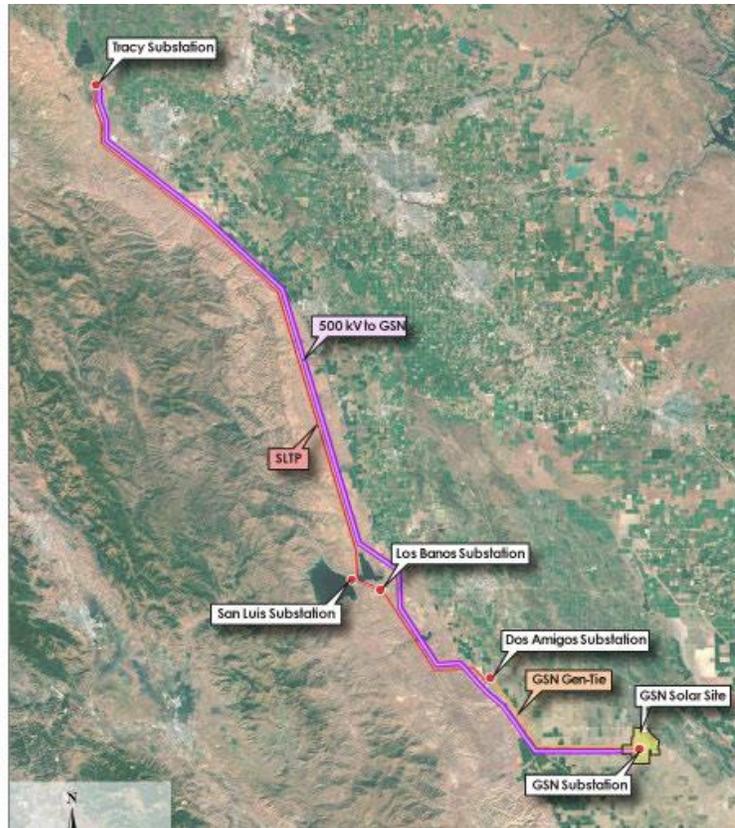
Paul Hauser
Chair

Attest by: C. Anthony Braun
Secretary

LETTER OF INTENT
BY AND BETWEEN
GOLDEN STATE CLEAN ENERGY, LLC
AND
BALANCING AUTHORITY OF NORTHERN CALIFORNIA
DATED AS OF August __, 2023

Golden State Clean Energy, LLC via itself or its affiliated entit(ies) (“**GSCE**”) is pleased to submit this non-binding, indicative letter of intent (“**Letter**”) to the Balancing Authority of Northern California (“**BANC**” or the “**Customer**”) to set forth certain agreements with respect to the development, financing, construction and operation of a solar photovoltaic and bulk energy storage system (the “**Project**”), as well as a high voltage transmission line and other transmission facilities. GSCE is proposing to develop, construct, and own the Project (subject to the Customer’s ownership option as described below), which will be located on property west of the City of Firebaugh in northern Fresno County. The Customer is interested in purchasing the output from the Project (or purchasing the actual Project, subject to its ownership option). Pursuant to this Letter, GSCE and the Customer agree to work towards the shared goal of successful development and energization of the Project. Each of GSCE and the Customer may be individually referred to as a “party,” a “Party,” or, collectively, as the “parties” or the “Parties”.

1. **Project:** GSCE proposes that the Project will include 1,600 MW of solar photovoltaic (“**PV**”), 960 MW of 4-hour battery energy storage system (“**BESS**”) (3,840 MWh) and a 500-kV substation at the Project site. Additionally, GSCE has the bi-directional transmission service rights for a new 500-kV transmission line from the Project site to a proposed new Western Area Power Administration (“**WAPA**”) substation near WAPA’s existing Tracy Substation (“**Tracy-2 Substation**”). GSCE has secured site control over sufficient land to build the Project for BANC.



2. **Purpose:** The purpose of the Project is to provide the Customer with zero-carbon electricity and energy storage for delivery from the new 500-kV substation at the Project site delivered to BANC Members, as well as to provide the opportunity to expand BANC’s balancing authority area (“BAA”) footprint to access in-state energy resources and additional potential markets.
3. **Offer to BANC:** From the Project, GSCE is offering the Customer 400-800 MW of solar PV, 240-480 MW of BESS and firm transmission service between the Project site and the new Tracy-2 Substation.
4. **Benefits:** The Project aims to provide as many benefits as possible to BANC, including the following: (1) competitive, fixed-price clean energy supply; (2) grid support from both the addition of new renewable energy resources and BESS that can serve load during critical reliability hours; (3) renewable energy and BESS directly tied to the BANC BAA; (4) an expanded BAA footprint that increases the Customer’s access to resources such as solar that are land-intensive but may struggle to be developed within the Customer’s current footprint; (5) development on drainage impaired agricultural land that is being retired from production, using a tested permitting strategy that has strong support from non-governmental organization (“NGOs”), labor, and local stakeholders and thus avoids

some of the environmental concerns typically associated with resource development; and (6) a utility-scale project that creates additional certainty (via a physical asset) for the long-term viability of BANC.

5. **Pricing:** GSCE agrees to provide indicative pricing to the Customer on a regular basis,¹ which will be determined by the Parties but will occur no less often than every six months until the execution of a power purchase agreement. The pricing will be on a \$/MWh basis for the solar PV, and a \$/kw-month basis for the BESS and the firm transmission service rights. If the Customer expresses interest, GSCE is willing to work with the Customer on a financing arrangement to improve the overall Project economics (i.e., a pre-pay).
6. **Ownership Options:** The Customer will have the option (“**Option**”) to purchase the Project from GSCE at various points during Project development and operation. The Parties will work together to develop the appropriate timeframes and pricing considerations relevant to the Option. The passage of the Inflation Reduction Act by Congress may provide the Customer with additional opportunities to own the Project prior to the expiration of the investment tax credit period tied to the Project. Option periods may include but will not necessarily be limited to: (1) prior to the commercial operation date; (2) at the end of the investment tax credit period; and (3) other times that provide mutual benefits to the Parties.
7. **Schedule:** Primary milestones for the development of the Project include: (1) completion of WAPA’s generation interconnection and transmission studies; (2) receipt of environmental and development permits; (3) negotiation and finalization of the definitive documents evidencing the power purchase agreement; (4) engagement with other generation and transmission offtakers; (5) financial close; and (6) Project construction and energization. The Parties acknowledge that the completion of steps one (1) through six (6), inclusive, is expected to take at least seven to ten years from the date of this Letter.
8. **Coordination:** The Parties agree to coordinate on matters relevant to development of any needed transmission required to deliver energy and/or capacity from the Project to the BANC Balancing Authority Area.
9. **Exclusivity:** After the Parties fully execute this Letter, the Parties will initiate negotiations for a purchased power Agreement for the off-take of the Project. During the first one hundred and eighty (180) day period, BANC agrees that it will not enter into any negotiations with any other person or entity to develop resources in the Westlands Area that are proposed to interconnect to transmission facilities of the WAPA. For the purposes

¹ **Note:** Parties should discuss current pricing parameters and the nature of the updates that would be of benefit to the Customer.

of this Section, the Westlands Area is as depicted in the map included in Section 1 of this Letter, running roughly parallel to Interstate 5. For the purpose of clarity, this Section does not bind Members of BANC acting on procurement matters in their individual capacity.

10. **Counterparts:** This Letter may be executed in any number of counterparts, each of which will be original, but all of which together will constitute one instrument. The Parties agree that this Letter will be considered signed when the signature of a party is delivered by facsimile or electronic mail, which signature will be treated in all respects as having the same effect as an original signature.
11. **Confidentiality:** The contents of this Letter and of the negotiations related thereto will be confidential, and neither Party will disclose or permit the disclosure of any information regarding this Letter except (1) as required by law or (2) as of the time of disclosure, the information disclosed is already public knowledge without the fault of the disclosing party. In addition, the Parties may disclose such contents to their respective boards of directors, officers, employees, agents, representatives, and lenders, as applicable.
12. **Non-Binding:** Except for the provisions of the paragraphs herein with the headings “**Exclusivity**,” “**Counterparts**,” “**Confidentiality**” and “**Non-Binding**,” this Letter represents a statement of the Parties’ general intent only and does not purport to be and does not constitute a binding agreement among the parties, and, none of the Parties will have any legal obligation under this Letter, including any obligation to negotiate in good faith, unless and until the power purchase agreement is executed and delivered by each of GSCE and the Customer. The Parties further agree and acknowledge that (1) this Letter does not contain the essential terms necessary to constitute an enforceable agreement with respect to the transaction described herein; (2) significant and essential terms remain to be agreed upon during the course of producing the power purchase agreement; and (3) no Party should take any action in reliance upon this Letter or with the expectation that this Letter constitutes any binding agreement.

IN WITNESS WHEREOF, the Parties agree to the terms of this Letter and execute it effective upon execution of both Parties.

GSCE:

Golden State Clean Energy, LLC

By: _____

Name: Robert Dowds

Title: Manager

Customer:

Balancing Authority of Northern California

By: _____

Name: James R. Shetler

Title: General Manager

Balancing Authority of Northern California

Agenda Item 5C

1. **Resolution 23-08-03 Approval of Revised 2023 Annual Budget for BANC.**
2. **Attachment A to Resolution 23-08-03: BANC 2023 Budget – Amended 8/23/23.**
3. **BANC 2024 Budget – DRAFT – August 2023.**

**Balancing Authority of Northern California
Resolution 23-08-03**

APPROVAL OF REVISED 2023 ANNUAL BUDGET FOR BANC

WHEREAS, the Balancing Authority of Northern California (“BANC”) Joint Powers Agreement (“JPA”) Section 11.4 describes both the responsibilities and the non-delegable duties of the BANC Commission which include approving an annual budget and approving assessments to each Member; and

WHEREAS, JPA Section 12 provides that the BANC Commission may assess each Member for its respective Participation Percentage share of funds required to carry out BANC’s purposes as specified in the annual budget; and

WHEREAS, BANC Resolution 12-02-03 established a process whereby Member assessments shall be required no less than two times per year; and

WHEREAS, the General Manager has developed a revised budget for PA-4: EDAM and Other Market Opportunities Evaluation and 2023 BANC Member Assessments; and

WHEREAS, the 2023 budget is being amended to update the participant funding allocation amounts in PA-4 and the 2023 BANC Member Assessments, specifically for PA-4, resulting in a revised total BANC 2023 Budget of \$8,114,399.81; and

WHEREAS, the General Manager has prepared a revised budget incorporating these revisions for consideration and possible adoption by the Commission.

NOW, THEREFORE, BE IT RESOLVED that the Commissioners of the Balancing Authority of Northern California hereby:

1. Approve the Amended 2023 Annual Budget for BANC in the form attached hereto as Attachment A.
2. Direct the BANC Treasurer to assess each BANC Member in accordance with Resolution 12-02-03 and WAPA in accordance with the existing agreement (20-SNR-02422) between BANC and WAPA.
3. Authorizes the General Manager to execute an extension of the Utilicast support contract through December 31, 2023.

PASSED AND ADOPTED by the Commissioners of the Balancing Authority of Northern California this 23rd day of August, 2023, by the following vote:

		Aye	No	Abstain	Absent
Modesto ID	Martin Caballero				
City of Redding	Nick Zettel				
City of Roseville	Dan Beans				
City of Shasta Lake	James Takehara				
SMUD	Paul Lau				
TPUD	Paul Hauser				

Paul Hauser
Chair

Attest by: C. Anthony Braun
Secretary

BANC 2023 Budget Amended – 8/23/23

1. Base Budget

- a. General Manager Expenses = **\$378,000**
 - i. Scope: General Manager retainer (@\$30,000/mo.) and expenses (@\$1,500/mo.)
 - ii. Assumptions: Increase in retainer from 2020-2022 and increase travel expenses with expectation of more in-person regional meetings

- b. Legal Services = **\$575,000**
 - i. Assumptions: Increase in base legal services from 2022 of 8% for BB&W, keep WEL at \$16,000/month, with the notation that additional legal services may be required based on the level of activity in overall engagement. The proposed increase reflects several factors. Salary and other business cost pressures have increased substantially. Also, based on discussions with the General Manager, we anticipate tackling policy and delegation matters for the agency this year. Finally, given the pace of overall activity, such as ongoing state legislation, summer reliability initiatives, and similar matters, it seems reasonable to anticipate considerable non-project specific work. We believe additional travel is likely and, therefore, adding allowance for expenses (@\$1,500/mo.) split 2/3 BB&W; 1/3 WEL
 - ii. BB&W = \$365,000 (retainer) + \$12,000 (expenses) = \$377,000
 - iii. WEL = \$192,000 (retainer) + \$6,000 (expenses) = \$198,000

- c. WPP Membership Payments = **\$105,000**
 - i. Scope: Covers NWPP charges to BANC as an NWPP member, including RSG, FRSG, and Executive Forum.

- d. Resource Committee Support = **\$150,000**
 - i. Scope: Potential consultant support for evaluating IRP recommendations and coordination with members, potential resource evaluation, and potential consultant support for SB100 report engagement at \$100,000. For 2022, BANC is currently engaged with the POU BAAs to support SB 100 activities, including legal and administrative support and a contract with The Brattle Group on grid modeling and reliability assessment. That budget is likely to be exhausted during calendar year 2022. We expect the SB 100 activities to ramp up in 2023, and that the POU BAAs to

ATTACHMENT A TO RESOLUTION 23-08-03

continue engagement through working groups with the joint energy agencies and the CAISO. While a rough estimate, historical expenditures would support a \$120,000 administrative and legal support budget, and the BANC NEL share of that is approximately \$50,000.

- e. Asset Valuation = **\$1,025,908**
 - i. Energy Management System
 - 1. Assumptions:
 - a. Amortized capital cost, excluding EIM module (BANC share) = \$517,238
 - b. Annual Siemens support cost (BANC share) = \$113,470
 - c. Revised to reflect latest capitalization amount for Siemens EMS upgrade (\$5,508,835) and annual support services (\$263,883) both excluding EIM module. Assumes capital investment is amortized over 5 years @ 3%/year. BANC share of EMS capital and support services costs is 43%.
 - 2. Total = \$630,708
 - ii. Energy Management Center/Backup Control Center
 - 1. Assumptions:
 - a. Total estimated amount for EMC+BCC= \$~1,300,000/year
 - b. TOP/BA share is 76% = \$988,000
 - 2. BANC share of TOP/BA= 40% = \$395,200
- f. Administrative Expenses = **\$10,500**
 - i. Annual Audit Fees = \$8,500
 - ii. Bank Charges = \$2,000
- g. Sub-total = **\$2,244,408**
- h. Contingency: **\$100,000**

Total = **\$2,344,408**

ATTACHMENT A TO RESOLUTION 23-08-03

Member Breakdown Comparison of 2023 vs. 2022 Base Budgets (based upon 2021 Retail Sales):

MEMBER ALLOCATION	2023	2022
SMUD (69.2%)	\$ 1,605,030.34	\$ 1,518,461.14
MID (16.9%)	\$ 391,979.95	\$ 370,838.05
ROSEVILLE (7.7%)	\$ 178,594.42	\$ 168,961.72
REDDING (4.9%)	\$ 113,650.99	\$ 107,521.09
SHASTA LAKE (1.3%)	\$ 30,152.30	\$ 28,526.00
Subtotal	\$ 2,319,408.00	\$ 2,194,308.00
TPUD (fixed)	\$ 25,000.00	\$ 25,000.00
TOTAL	\$ 2,344,408.00	\$ 2,219,308.00

APPROVED DRAFT

ATTACHMENT A TO RESOLUTION 23-08-03

2. Participation Agreement #1 (PA-1) – PC Services

a. Assumptions:

- i. SMUD to provide contract PC services to BANC
- ii. Total Base Cost to BANC = \$309,879
 - 1. Main PC evaluation labor = \$271,824
 - 2. \$38,055 for labor to perform an overview assessment of full BANC footprint
 - 3. Includes a 3.5% labor rate adjustment for 2023
- iii. WAPA-SNR does not participate, TPUD and Shasta Lake embedded within WAPA-SNR; all other members participate
- iv. Cost to be allocated based upon 50% to SMUD and 50% to remaining members prorated by share of generation/60kV and above buses among the remaining members:
 - 1. SMUD = (50%)
 - 2. MID = (30%)
 - 3. Redding = (9.5%)
 - 4. Roseville = (10.5%)

b. Estimated costs by member:

MEMBER	PA-1 ASSESMENT
SMUD (50%)	\$ 154,939.50
MID (30%)	\$ 92,963.70
REDDING (9.5%)	\$ 29,438.51
ROSEVILLE (10.5%)	\$ 32,537.30
TOTAL	\$ 309,879.00

ATTACHMENT A TO RESOLUTION 23-08-03

3. Participation Agreement #2 (PA-2) – RC Funding

a. Assumptions

- i. BANC transitioned from Peak RC to RC West (CAISO) for RC services on 7/1/19 and going forward.
- ii. RC West Funding
 - 1. TPUD and Shasta Lake embedded within WAPA-SNR, which becomes a TOP Funding Party under CAISO RC West tariff
 - 2. MID, Redding, and SMUD become TOP Funding Parties under CAISO tariff
 - 3. BANC pays the remaining amount allocated to the BA footprint per CAISO tariff for Roseville
 - 4. Assumed RC West 2023 charge-out rates = \$0.03/MWH
 - 5. 2021 NEL for remaining BANC footprint:
 - a. Roseville = 1,190,727 MWH

b. Estimated costs under PA-2 based upon RC West proposed rates for Roseville:

4. Participation Agreement #3 (PA-3) – EIM Implementation (Phase 1) - CLOSED

MEMBER	2021 NEL - MWH	2023 ASSESSMENT
ROSEVILLE	1,190,727	\$ 35,721.81
TOTAL	1,190,727	\$ 35,721.81

ATTACHMENT A TO RESOLUTION 23-08-03

5. Participation Agreement #4 (PA-4) – Extended Day-Ahead Market (EDAM) and Other Market Opportunities Evaluation - **REVISED**
- a. Assumptions
- i. BANC EIM Participants elect to move forward with participation in CAISO EDAM. It is expected that 2023 will be a transition year with the focus on finalizing market design, development of CAISO tariff, scoping out BANC/participant tariff and business practices impacts, and finalizing BANC/participant decision-making on joining EDAM. EDAM implementation will be transitioned to a separate PA in 2024. We believe that continued engagement is expected for SPP Markets+ and WPP WRAP. This likely will include FERC filings, at least with respect to EDAM, and also possible FERC meetings and technical conferences. Also, RTO discussions will likely ramp up as reflected in recent Studies performed by various advocacy groups. We assume in this budget estimate the current legal resource commitment rate through the end of 2023. **Based upon staff recommendation, BANC will initiate efforts in August 2023 to support a potential EDAM implementation in Spring 2026.** Total monthly legal services budget would be \$25,950, allocated \$9950/month BB&W, \$16,000/month WEL (**NOTE: No WEL charges are expected for July and August 2023.**)
- ii. It is assumed that all Participating Resources (SMUD, MID, WAPA-SNR, Roseville, and Redding) participate in this effort. (**NOTE: Shasta Lake loads assumed part of Redding load for this allocation.**) Cost allocation based upon 2023 3-year rolling average NEL as follows:
1. SMUD – 64.4%
 2. MID – 15.3%
 3. WAPA-SNR – 7.8%
 4. Roseville – 6.8%
 5. Redding – 5.7%
- b. Estimated costs for monitoring day-ahead market development reflect that, while the character of the engagement will change, focus and extensive effort will continue through the year, including EDAM support. **Actual Utilicast expenditures were less than budgeted and there is expected to be sufficient funds remaining to cover Advisory Support for the rest of 2023.** It is assumed that EDAM benefit analysis will carry over into 2023; **however, actual expenditures were \$~40,000 more than budgeted due to delays in both the EDAM benefit analysis effort and WMEG efforts.** Allowance is also being made for SMUD project management support during the Advisory Support phase in the last five months of 2023 in the amount of \$40,000. **The net impact is an \$~50,000 increase in the budget for PA-4.**

ATTACHMENT A TO RESOLUTION 23-08-03

IMPLEMENTATION CATEGORY	ORIGINAL COST ESTIMATE	REVISED COST ESTIMATE	SMUD	MID	WAPA-SNR	ROSEVILLE	REDDING
Legal Support							
~ BB&W Retainer	\$ 119,400.00	\$ 119,400.00					
~ WEL Retainer	\$ 192,000.00	\$ 160,000.00					
Legal Support Total	\$ 311,400.00	\$ 279,400.00	\$ 179,933.60	\$ 42,748.20	\$ 21,793.20	\$ 18,999.20	\$ 15,925.80
Consultant Support							
~ Utilicast Support	\$ 60,000.00	\$ 60,000.00	\$ 38,640.00	\$ 9,180.00	\$ 4,680.00	\$ 4,080.00	\$ 3,420.00
~ EDAM Benefits Anal.	\$ 60,000.00	\$ 100,000.00	\$ 64,400.00	\$ 15,300.00	\$ 7,800.00	\$ 6,800.00	\$ 5,700.00
~ SMUD PM SUPPORT	\$ -	\$ 40,000.00	\$ 25,760.00	\$ 6,120.00	\$ 3,120.00	\$ 2,720.00	\$ 2,280.00
~ Market Dev, Spt. (CES)	\$ 24,000.00	\$ 24,000.00	\$ 15,456.00	\$ 3,672.00	\$ 1,872.00	\$ 1,632.00	\$ 1,368.00
~ Consultant Support Total	\$ 144,000.00	\$ 224,000.00	\$ 144,256.00	\$ 34,272.00	\$ 17,472.00	\$ 15,232.00	\$ 12,768.00
Total Estimate	\$ 455,400.00	\$ 503,400.00	\$ 324,189.60	\$ 77,020.20	\$ 39,265.20	\$ 4,231.20	\$ 28,693.80
Contingency (~5%)	\$ 22,770.00	\$ 25,170.00	\$ 16,209.48	\$ 3,851.01	\$ 1,963.26	\$ 1,711.56	\$ 1,434.69
TOTAL for 2023	\$ 478,170.00	\$ 528,570.00	\$ 340,399.08	\$ 80,871.21	\$ 41,228.46	\$ 35,942.76	\$ 30,128.49

APPROVAL DRAFT

ATTACHMENT A TO RESOLUTION 23-08-03

6. Participation Agreement #5 (PA-5) – EIM Participation
- c. Assumptions
 - i. BANC serves as EIM Entity
 - ii. SMUD/MID/Roseville/Redding/WAPA-SNR participate as PRSCs for full year
 - iii. Costs allocated in accordance with 2023 3-year rolling average NEL for all five participants as follows:
 - 1. SMUD – 64.4%
 - 2. MID – 15.3%
 - 3. WAPA-SNR – 7.8%
 - 4. Roseville – 6.8%
 - 5. Redding – 5.7%
 - d. Cost estimates based on EIM Services Agreement, and latest estimates, including software charges per contracts. Includes 5% adjustment for SMUD EIM Operator labor, 3.5% adjustment for other labor, and 3% adjustment for software contracts. SMUD labor for EIM Desk, SME/Oversight, and Settlements will be charged out based upon actual hours expended. Charges for all other SMUD labor will be allocated based upon the estimate provided.
 - e. Allocation of TPUD load settlement charges assigned to SMUD/MID/Redding/Roseville per original agreement. Load based settlement charges assumed at \$30,000 for EIM operation in 2023.

APPROVALS

ATTACHMENT A TO RESOLUTION 23-08-03

IMPLEMENTATION CATEGORY	ESTIMATE	Participant			Cost		Allocations		TOTAL
		SMUD	MID	WAPA-SNR	ROSEVILLE	REDDING			
Personnel - EIM Desk (5)	\$ 1,834,306.00								
Personnel - Settlements (1.5)	\$ 651,425.00								
Personnel - Outage Mgmt (0.4)	\$ 140,096.00								
Personnel - Netwk Model (1)	\$ 295,528.00								
Personnel - Meter Data Mgmt (0.5)	\$ 43,746.00								
Personnel - SME/Oversight (0.4)	\$ 188,873.00								
Personnel - IT Support (0.25)	\$ 61,626.00								
Personnel Total (9.05)	\$ 3,215,600.00								
EIM Software Support									
- OATI	\$ 95,480.00								
- Power Settlements	\$ 469,873.00		\$ 53,045.00			\$ 53,045.00		\$ 575,963.00	
- ITOA	\$ 20,600.00								
- Allowance for SW Upgrades	\$ 50,000.00								
- WebEIM	\$ 41,200.00								
EIM Software Support Total	\$ 677,153.00								
EMS EIM Module									
- Amortized Capital	\$ 52,978.00								
- O&M Support	\$ 10,000.00								
EMS EIM Module Total	\$ 62,978.00								
EIM OPERATOR TOTAL	\$ 3,955,731.00	\$ 2,547,490.76	\$658,271.84	\$308,547.02	\$ 268,989.71	\$ 278,521.67	\$ 4,061,821.00		
Miscellaneous Support									
- Legal Support	\$ 30,000.00								
- EIM Stakeholder Support (CES)	\$ 24,000.00								
- Utilicast Support	\$ -								
Miscellaneous Support Total	\$ 54,000.00								
CAISO Charges									
- Fees	\$ 250,000.00								
- Uplifts	\$ 500,000.00								
CAISO Charges Total	\$ 750,000.00								
TOTAL EIM Operations for 2023	\$ 4,759,731.00	\$ 3,065,266.76	\$781,283.84	\$371,259.02	\$ 323,661.71	\$ 324,349.67	\$ 4,865,821.00		
TPUD Load Charges	\$ 30,000.00	\$ 20,880.000	\$ 5,040.000	\$ -	\$ 2,220.000	\$ 1,860.000			
TOTAL EIM FOR 2023	\$ 4,789,731.00	\$ 3,086,146.76	\$786,323.84	\$371,259.02	\$ 325,881.71	\$ 326,209.67	\$ 4,895,821.00		

ATTACHMENT A TO RESOLUTION 23-08-03

7. Participation Agreement #6 (PA-6) – EIM Phase 2 Preparation (Revision 1 – 5/15/19) – CLOSED
8. Participation Agreement # 7 (PA-7) – EIM Phase 2 Implementation – CLOSED
9. Participation Agreement # 8 (PA-8) – EDAM Implementation – Hold for future implementation decision
10. 2023 BANC Member Assessments

MEMBER	BASE BUDGET	PA-1: PA/PC	PA-2: RC West	PA-4: EDAM	PA-5: EIM Part.	PA-8: EDAM Imp.	Amended 2023 TOTAL	Amended 2022 TOTAL
SMUD	\$ 1,605,030.34	\$ 154,939.50	\$ -	\$ 340,399.08	\$ 3,086,146.76	\$ -	\$ 5,186,515.68	\$ 5,125,533.20
MID	\$ 391,979.95	\$ 92,963.70	\$ -	\$ 80,871.21	\$ 786,323.84	\$ -	\$ 1,352,138.71	\$ 1,296,140.33
ROSEVILLE	\$ 178,594.42	\$ 32,537.30	\$ 35,721.81	\$ 35,942.76	\$ 325,881.71	\$ -	\$ 608,677.99	\$ 599,573.65
REDDING	\$ 113,650.99	\$ 29,438.51	\$ -	\$ 30,128.49	\$ 326,209.67	\$ -	\$ 499,427.65	\$ 490,504.83
SHASTA LAKE	\$ 30,152.30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,152.30	\$ 28,526.00
TPUD	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000.00	\$ 25,000.00
BANC TOTAL	\$ 2,344,408.00	\$ 309,879.00	\$ 35,721.81	\$ 487,341.54	\$ 4,524,561.98	\$ -	\$ 7,701,912.33	\$ 7,565,278.01
WASN	\$ -	\$ -	\$ -	\$ 41,228.46	\$ 371,259.02	\$ -	\$ 412,487.48	\$ 455,305.92
GRAND TOTAL	\$ 2,344,408.00	\$ 309,879.00	\$ 35,721.81	\$ 528,570.00	\$ 4,895,821.00	\$ -	\$ 8,114,399.81	\$ 8,020,583.93

APPROVED

BANC 2024 Budget

DRAFT – August 2023

1. Base Budget

a. General Manager Expenses = **\$378,000**

- i. Scope: General Manager retainer (@\$30,000/mo.) and expenses (@\$1,500/mo.)
- ii. Assumptions: No increase in retainer or expenses from 2023

b. Legal Services = **\$597,470**

- i. Assumptions: Increase in base legal services from 2023 of 3% for BB&W and 6% for WEL, with the notation that additional legal services may be required based on the level of activity in overall engagement. The proposed increase reflects several factors, including salary and other business cost pressures, expected policy and delegation matters for the agency, and increased activity in such areas as ongoing state legislation, summer reliability initiatives, and similar matters, it seems reasonable to anticipate considerable non-project specific work. Allowance for travel expenses @\$1,500/mo. split 2/3 BB&W; 1/3 WEL
- ii. BB&W = \$375,950 (retainer) + \$12,000 (expenses) = \$387,950
- iii. WEL = \$203,520 (retainer) + \$6,000 (expenses) = \$209,520

c. WPP Membership Payments = **\$105,000**

- i. Scope: Covers NWPP charges to BANC as an NWPP member, including RSG, FRSG, and Executive Forum.

d. Resource Committee Support = **\$150,000**

- i. Scope: Potential consultant support for evaluating IRP recommendations and coordination with members, potential resource evaluation, and potential consultant support for SB100 report engagement at \$100,000. BANC is currently engaged with the POU BAAs to support SB 100 activities, including legal and administrative support and a contract with The Brattle Group on grid modeling and reliability assessment. We expect the SB 100 activities to ramp up in 2023 through 2024, and that the POU BAAs to continue engagement through working groups with the joint energy agencies and the CAISO. While a rough estimate, historical expenditures would support a \$120,000 administrative and legal support budget, and the BANC NEL share of that is approximately \$50,000.

- e. Asset Valuation = **\$1,025,908**
 - i. Energy Management System
 - 1. Assumptions:
 - a. Amortized capital cost, excluding EIM module (BANC share) = \$517,238
 - b. Annual Siemens support cost (BANC share) = \$113,470
 - c. Revised to reflect latest capitalization amount for Siemens EMS upgrade (\$5,508,835) and annual support services (\$263,883) both excluding EIM module. Assumes capital investment is amortized over 5 years @ 3%/year. BANC share of EMS capital and support services costs is 43%.
 - 2. Total = \$630,708
 - ii. Energy Management Center/Backup Control Center
 - 1. Assumptions:
 - a. Total estimated amount for EMC+BCC= \$~1,300,000/year
 - b. TOP/BA share is 76% = \$988,000
 - 2. BANC share of TOP/BA= 40% = \$395,200
- f. Administrative Expenses = **\$10,500**
 - i. Annual Audit Fees = \$8,500
 - ii. Bank Charges = \$2,000
- g. Sub-total = **\$2,266,878**
- h. Contingency: **\$100,000**

Total = **\$2,366,878**

Member Breakdown Comparison of 2023 vs. 2024 Base Budgets (based upon 2022 Retail Sales for 2024):

MEMBER ALLOCATION (2024 %s)	2023	2024
SMUD (69.7%)	\$ 1,605,030.34	\$ 1,632,288.97
MID (16.7%)	\$ 391,979.95	\$ 391,093.63
ROSEVILLE (7.6%)	\$ 178,594.42	\$ 177,982.73
REDDING (4.7%)	\$ 113,650.99	\$ 110,068.27
SHASTA LAKE (1.3%)	\$ 30,152.30	\$ 30,444.41
Subtotal	\$ 2,319,408.00	\$ 2,341,878.00
TPUD (fixed)	\$ 25,000.00	\$ 25,000.00
TOTAL	\$ 2,344,408.00	\$ 2,366,878.00

2. Participation Agreement #1 (PA-1) – PC Services

a. Assumptions:

- i. SMUD to provide contract PC services to BANC
- ii. Total Base Cost to BANC = \$319,175
 - 1. Main PC evaluation labor = \$279,978
 - 2. \$39,197 for labor to perform an overview assessment of full BANC footprint
 - 3. Includes a 3.0% labor rate adjustment for 2024
- iii. WAPA-SNR does not participate, TPUD and Shasta Lake embedded within WAPA-SNR; all other members participate
- iv. Cost to be allocated based upon 50% to SMUD and 50% to remaining members prorated by share of generation/60kV and above buses among the remaining members:
 - 1. SMUD = (50%)
 - 2. MID = (30%)
 - 3. Roseville = (10.5%)
 - 4. Redding = (9.5%)

b. Estimated costs by member:

MEMBER	PA-1 ASSESMENT
SMUD (50%)	\$ 159,587.50
MID (30%)	\$ 95,752.50
ROSEVILLE (10.5%)	\$ 33,513.38
REDDING (9.5%)	\$ 30,321.63
TOTAL	\$ 319,175.00

3. Participation Agreement #2 (PA-2) – RC Funding

a. Assumptions

- i. BANC transitioned from Peak RC to RC West (CAISO) for RC services on 7/1/19 and going forward.
- ii. RC West Funding
 - 1. TPUD and Shasta Lake embedded within WAPA-SNR, which becomes a TOP Funding Party under CAISO RC West tariff
 - 2. MID, Redding, and SMUD become TOP Funding Parties under CAISO tariff
 - 3. BANC pays the remaining amount allocated to the BA footprint per CAISO tariff for Roseville
 - 4. Assumed RC West 2024 charge-out rates = \$0.03/MWH
 - 5. 2022 NEL for remaining BANC footprint:
 - a. Roseville = 1,207,800 MWH

b. Estimated costs under PA-2 based upon RC West proposed rates for Roseville:

MEMBER	2022 NEL - MWH	2022 ASSESSMENT
ROSEVILLE	\$ 1,207,800.00	\$ 36,234.00
TOTAL	\$ 1,207,800.00	\$ 36,234.00

4. Participation Agreement #3 (PA-3) – EIM Implementation (Phase 1) - CLOSED

5. Participation Agreement #4 (PA-4) –Market Alternatives Evaluation

a. Assumptions

- i. BANC EIM Participants elect to move forward with participation in CAISO EDAM. EDAM implementation will be transitioned to a separate PA in 2024. We believe that continued monitoring of SPP Markets+ and WPP WRAP is warranted. This likely will include FERC filings and also possible FERC meetings and technical conferences. Also, RTO discussions will likely ramp up as reflected in recent Studies performed by various advocacy groups. We assume in this budget estimate the current legal resource commitment rate through the end of 2023. Total monthly legal services budget would be \$13,605, allocated \$5,125/month BB&W, \$8,480/month WEL.
- ii. It is assumed that all Participating Resources (SMUD, MID, WAPA-SNR, Roseville, and Redding) participate in this effort. (NOTE: Shasta Lake loads assumed part of Redding load for this allocation). Cost allocation based upon 2024 3-year rolling average NEL as follows:
 - 1. SMUD – 64.6%
 - 2. MID – 15.5%
 - 3. WAPA-SNR – 7.3%
 - 4. Roseville – 6.9%
 - 5. Redding – 5.7%

- b. Estimated costs for monitoring day-ahead market development reflect that, while the character of the engagement will change, focus and extensive effort will continue through the year. Consultant support will be limited to part of the contract support from CES.

IMPLEMENTATION CATEGORY	COST ESTIMATE	SMUD	MID	WAPA-SNR	ROSEVILLE	REDDING
Legal Support						
~ BB&W Retainer	\$ 61,500.00					
~ WEL Retainer	\$ 101,760.00					
Legal Support Total	\$ 163,260.00	\$ 105,465.96	\$ 25,305.30	\$ 11,917.98	\$ 11,264.94	\$ 9,305.82
Consultant Support						
~ Market Dev, Spt. (CES)	\$ 24,000.00	\$ 15,504.00	\$ 3,720.00	\$ 1,752.00	\$ 1,656.00	\$ 1,368.00
~ Consultant Support Total	\$ 24,000.00	\$ 15,504.00	\$ 3,720.00	\$ 1,752.00	\$ 1,656.00	\$ 1,368.00
Total Estimate	\$ 187,260.00	\$ 120,969.96	\$ 29,025.30	\$ 13,669.98	\$ 12,920.94	\$ 10,673.82
Contingency (~5%)	\$ 9,363.00	\$ 6,048.50	\$ 1,451.27	\$ 683.50	\$ 646.05	\$ 533.69
TOTAL for 2024	\$ 196,623.00	\$ 127,018.46	\$ 30,476.57	\$ 14,353.48	\$ 13,566.99	\$ 11,207.51

6. Participation Agreement #5 (PA-5) – EIM Participation

- a. Assumptions
 - i. BANC serves as EIM Entity
 - ii. SMUD/MID/Roseville/Redding/WAPA-SNR participate as PRSCs for full year
 - iii. Costs allocated in accordance with 2024 3-year rolling average NEL for all five participants as follows:
 - 1. SMUD – 64.6%
 - 2. MID – 15.5%
 - 3. WAPA-SNR – 7.3%
 - 4. Roseville – 6.9%
 - 5. Redding – 5.7%
- b. Cost estimates based on EIM Services Agreement, and latest estimates, including software charges per contracts. Includes 3% adjustment for SMUD labor and 3% adjustment for software contracts. SMUD labor for EIM Desk, SME/Oversight, and Settlements will be charged out based upon actual hours expended. Charges for all other SMUD labor will be allocated based upon the estimate provided.
- c. Allocation of TPUD load settlement charges assigned to SMUD/MID/Redding/Roseville per original agreement. Load based settlement charges assumed at \$25,000 for EIM operation in 2024.

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Participation Agreement #5 (PA-5) – EIM Participation (cont.)

IMPLEMENTATION CATEGORY	ESTIMATE	Participant			Cost		Allocations		TOTAL
		SMUD	MID	WAPA-SNR	ROSEVILLE	REDDING			
Personnel - EIM Desk (5)	\$ 1,889,335.00								
Personnel - Settlements (1.5)	\$ 670,968.00								
Personnel - Outage Mgmt (0.4)	\$ 144,299.00								
Personnel - Netwk Model (1)	\$ 304,394.00								
Personnel - Meter Data Mgmt (0.5)	\$ 45,058.00								
Personnel - SME/Oversight (0.4)	\$ 194,539.00								
Personnel - IT Support (0.25)	\$ 63,475.00								
Personnel Total (9.05)	\$ 3,312,068.00								
EIM Software Support									
- OATI	\$ 98,344.00								
- Power Settlements	\$ 483,969.00		\$ 54,636.00			\$ 54,636.00		\$ 593,241.00	
- ITOA	\$ 21,218.00								
- Allowance for SW Upgrades	\$ 50,000.00								
- WebEIM	\$ 42,436.00								
EIM Software Support Total	\$ 695,967.00								
EMS EIM Module									
- Amortized Capital	\$ 52,978.00								
- O&M Support	\$ 10,000.00								
EMS EIM Module Total	\$ 62,978.00								
EIM OPERATOR TOTAL	\$ 4,071,013.00	\$ 2,629,874.40	\$ 685,643.02	\$ 297,183.95	\$ 280,899.90	\$ 286,683.74	\$ 4,180,285.00		
Miscellaneous Support									
- Legal Support	\$ 30,000.00								
- EIM Stakeholder Support (CES)	\$ 24,000.00								
- Utilicast Support	\$ -								
Miscellaneous Support Total	\$ 54,000.00								
CAISO Charges									
- Fees	\$ 250,000.00								
- Uplifts	\$ 500,000.00								
CAISO Charges Total	\$ 750,000.00								
TOTAL EIM Operations for 2024	\$ 4,875,013.00	\$ 3,149,258.40	\$ 810,263.02	\$ 355,875.95	\$ 336,375.90	\$ 332,511.74	\$ 4,984,285.00		
TPUD Load Charges	\$ 25,000.00	\$ 16,150.00	\$ 3,875.00	\$ 1,825.00	\$ 1,725.00	\$ 1,425.00	\$ 25,000.00		
TOTAL EIM FOR 2024	\$ 4,900,013.00	\$ 3,165,408.40	\$ 814,138.02	\$ 357,700.95	\$ 338,100.90	\$ 333,936.74	\$ 5,009,285.00		

7. Participation Agreement #6 (PA-6) – EIM Phase 2 Preparation (Revision 1 – 5/15/19)
– CLOSED
8. Participation Agreement # 7 (PA-7) – EIM Phase 2 Implementation – CLOSED

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9. Participation Agreement # 8 (PA-8) – EDAM Implementation

a. Assumptions

- i. BANC serves as EDAM Entity
- ii. SMUD/MID/Roseville/Redding/WAPA-SNR intend to participate in EDAM
- iii. Target is for go-live date for EDAM participation in 4/1/26
- iv. Costs allocated in accordance with 2024 3-year rolling average NEL for all five participants as follows:
 - 1. SMUD – 64.6%
 - 2. MID – 15.5%
 - 3. WAPA-SNR – 7.3%
 - 4. Roseville – 6.9%
 - 5. Redding – 5.7%

b. Cost estimates based upon Utilicast EDAM “Gap Analysis”; discussions with SMUD, BBW, and WEL; and the EDAM implementation options developed by BANC staff. Based upon a Spring 2026 go-live, activity levels are as follows:

- i. Advisory support from 8/23 – 8/24
- ii. Pre-implementation support from 9/24 – 3/25
- iii. Implementation support from 4/25 – 4/26
- iv. Go-live – April 2026
- v. Post go-live support from 5/26 – 6/26

c. For 2024, the estimate will be 8 months of Advisory level support and 4 months of Pre-implementation level support:

IMPLEMENTATION CATEGORY	Option 2 Spring 2026 Go-Live	SMUD 64.6%	MID 15.5%	WAPA-SNR 7.3%	ROSEVILLE 6.9%	REDDING 5.7%
Advisory Effort (8 months)	\$ 185,409.00	\$ 119,774.21	\$ 28,738.40	\$ 13,534.86	\$ 12,793.22	\$ 10,568.31
~Utilicast Support	\$ 75,076.00					
~Legal Support	\$ 52,000.00					
~BBW Retainer	\$ 20,000.00					
~WEL Retainer	\$ 32,000.00					
~SMUD Project Support	\$ 58,333.00					
~Operations	\$ 16,667.00					
~Market/Trading	\$ 41,666.00					
Pre-Implementation Effort (4 mo)	\$ 260,620.00	\$ 168,360.52	\$ 40,396.10	\$ 19,025.26	\$ 17,982.78	\$ 14,855.34
~Utilicast Support	\$ 150,286.00					
~Legal Support	\$ 52,000.00					
~BBW Retainer	\$ 20,000.00					
~WEL Retainer	\$ 32,000.00					
~SMUD Project Support	\$ 58,334.00					
~Operations	\$ 16,667.00					
~Market/Trading	\$ 41,667.00					
Total Estimate	\$ 446,029.00	\$ 288,134.73	\$ 69,134.50	\$ 32,560.12	\$ 30,776.00	\$ 25,423.65
Contingency @~10%	\$ 44,602.90	\$ 28,813.47	\$ 6,913.45	\$ 3,256.01	\$ 3,077.60	\$ 2,542.37
TOTAL	\$ 490,631.90	\$ 316,948.21	\$ 76,047.94	\$ 35,816.13	\$ 33,853.60	\$ 27,966.02

10. 2024 BANC Member Assessments

MEMBER	BASE BUDGET	PA-1: PA/PC	PA-2: RC West	PA-4: MKT MONITORING	PA-5: EIM Part.	PA-8: EDAM Imp.	Proposed 2024 TOTAL	Amended 2023 TOTAL (w/ 8/23/23 proposed changes)
SMUD	\$ 1,632,288.97	\$ 159,587.50	\$ -	\$ 127,018.46	\$ 3,165,408.40	\$ 316,948.21	\$ 5,401,251.53	\$ 5,186,515.68
MID	\$ 391,093.63	\$ 95,752.50	\$ -	\$ 30,476.57	\$ 814,138.02	\$ 76,047.94	\$ 1,407,508.65	\$ 1,352,138.71
ROSEVILLE	\$ 177,982.73	\$ 33,513.38	\$ 36,234.00	\$ 13,566.99	\$ 338,100.90	\$ 35,816.13	\$ 635,214.12	\$ 608,677.99
REDDING	\$ 110,068.27	\$ 30,321.63	\$ -	\$ 11,207.51	\$ 333,936.74	\$ 35,816.13	\$ 521,350.27	\$ 499,427.65
SHASTA LAKE	\$ 30,444.41	\$ -	\$ -	\$ -	\$ -	\$ 33,853.60	\$ 64,298.02	\$ 30,152.30
TPUD	\$ 25,000.00	\$ -	\$ -	\$ -	\$ -	\$ 27,966.02	\$ 52,966.02	\$ 25,000.00
BANC TOTAL	\$ 2,366,878.00	\$ 319,175.00	\$ 36,234.00	\$ 182,269.52	\$ 4,651,584.05	\$ 526,448.03	\$ 8,082,588.60	\$ 7,701,912.33
WASN	\$ -	\$ -	\$ -	\$ 14,353.48	\$ 357,700.95	\$ -	\$ 372,054.43	\$ 412,487.48
GRAND TOTAL	\$ 2,366,878.00	\$ 319,175.00	\$ 36,234.00	\$ 196,623.00	\$ 5,009,285.00	\$ 526,448.03	\$ 8,454,643.03	\$ 8,114,399.81

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