



CC Power Board Meeting

Discussion Slides
April 23, 2025

The background of the slide is a photograph of a wind farm. Several white wind turbines are visible, standing on a grassy hill. The sky is a vibrant blue with scattered white clouds. A semi-transparent blue rectangular box is overlaid on the image, containing the main title text. A thin green vertical bar is on the left side of this box.

6A. Amendment to Tumbleweed PPSA for Coordinated Operations Agreement Approval

Coordinated Operations Agreement Approval

- Approach: amend Tumbleweed PPSA to facilitate enablement of Coordinated Operations Agreement (“COA”)

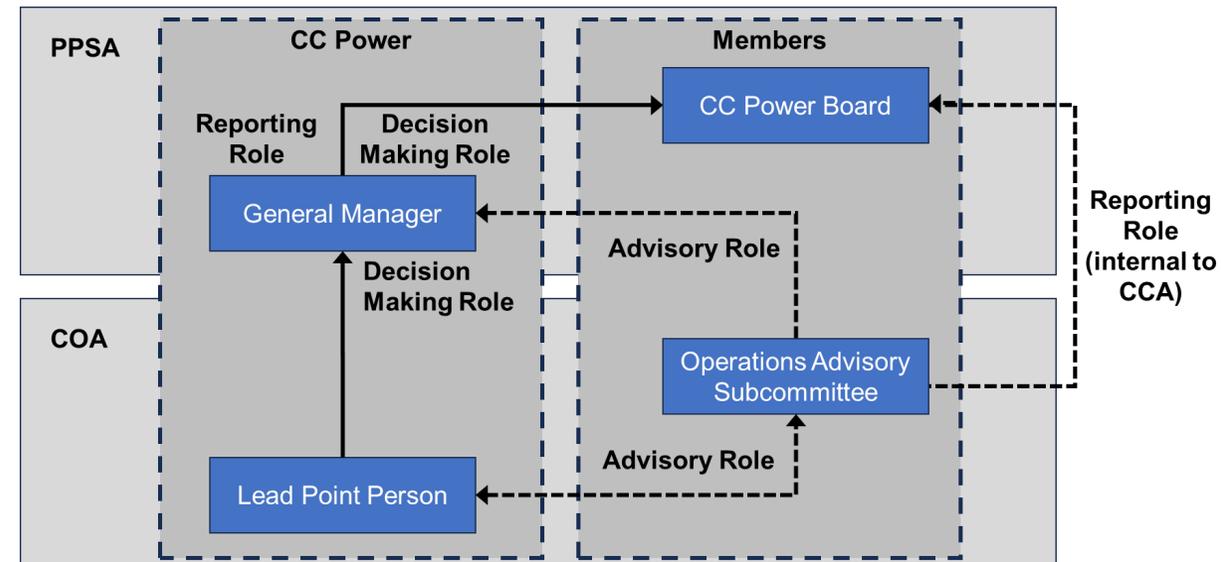
- Board directed COA for determining roles and responsibilities for facilitating operations of the project

- COA Goals:

- Roles and responsibilities for project operations
- Structure for member input
- Enable effective operations

- Approach: CCP point person effectuates operations:

- Project management, use member input, manage Scheduling Coordinator and BESS Optimization Vendor, report out to Operations Advisory Committee
- Advised by Project Participants’ representatives
- Led by Chair / Vice Chair elected among participants
- Advisory votes can guide operating matters



- Given learnings likely to be realized, CCP recommends update to the Board within 21 months for review

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6B. General Manager Report

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Member Forum – Date Change

- New Hold: 10/21 (Tues) - 10/22 (Wed)
- Event Agenda:
 - Day 1: meet by noon – Board activities, special guest(s)
 - Day 2 (Wed): Hetch Hetchy tour, then optional afternoon activity and dinner
- Venue: Rush Creek Lodge

General Manager Activity

- Tumbleweed
 - Consent to Collateral executed and in escrow, pending close of financing
 - Approval of updated letters of credit, being held in escrow, pending close of financing
- Executed Agreements
 - Consulting Engagement Agreement w/ RMS Energy for transmission and distribution consulting services
 - No costs incurred at this time, but enables projects to be authorized under defined terms and conditions

Phase 2s – Launching

Timely to launch these Phase 2s now for various reasons.

Phase 2s – confirming participation this week

- Additional Long-Duration Storage
- Geothermal Strategic Pursuits
- CADEMO Diligence (Phase 2a)

*Each Phase 2
detailed on
subsequent slides*

Phase 2s – Funding Authorization

- Members must opt in to participate and be invoiced.
- 2024-2025 Budget: Phase 2 authorizations:

Table 1: Approved Authorizations (Phase 2)

Costs (in 000s)	3CE	Ava	CPSF	PCE	RCEA	SCP	SJCE	SVCE	VCE	Total
2024-2025 Budget: Approved Phase 2 Amounts	\$237	\$271	\$215	\$226	\$141	\$201	\$213	\$237	\$162	\$1,903

- Note: Some of these authorized funds already applied to “info projects”

Incremental LDS Phase 2B Authorization

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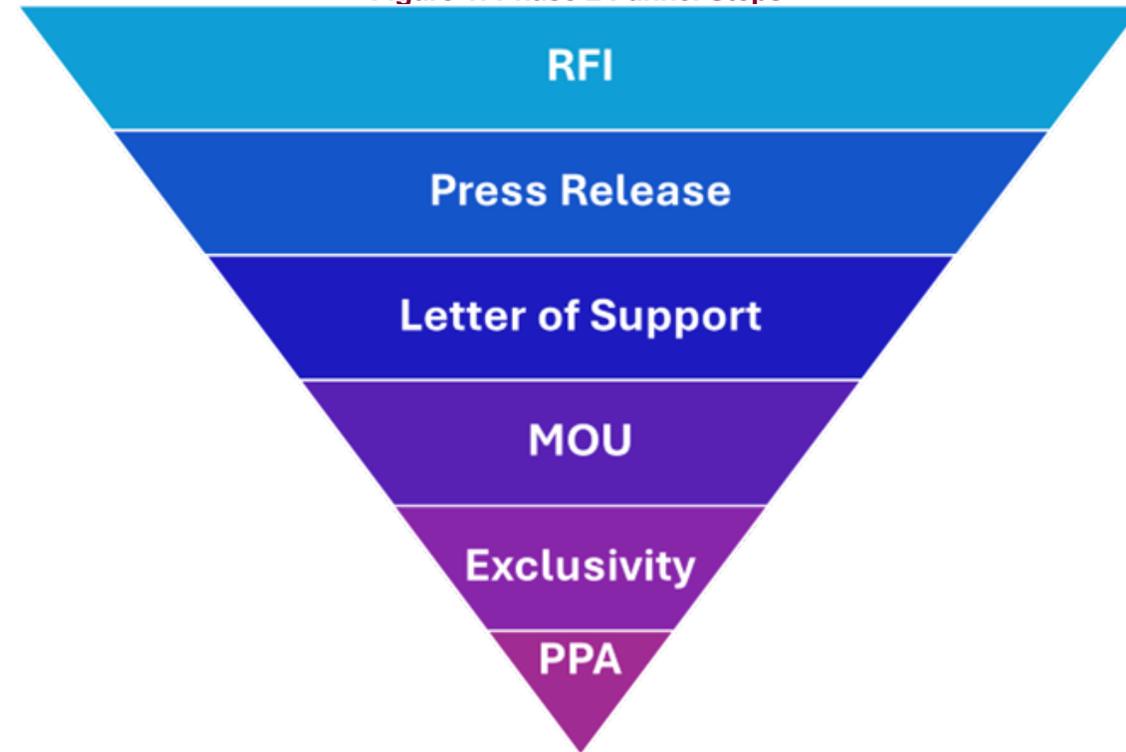
- Participating members will support and fund negotiations and diligence for offtake from non-lithium-ion technology, long-duration storage developer, who participated in CCP's 2024 RFP
 - Estimate 6 participants
- Anticipated Phase 2B costs: NTE \$150,800
 - Non-Discretionary Costs* (staff / opex): \$88,800
 - Discretionary Costs (counsel, contingency): \$62,000
- CCP to seek Phase 3 authorization upon completion of negotiations to execute offtake agreement

* Budget authorizes costs for up to fourteen months of work, which presumes the contract is executed per Phase 3 authorization and progresses to contract management workstream.

Geothermal Strategic Origination Phase 2A Authorization

- Includes: Phase 2A and Cost Sharing Agreement w/ 8 participating members
- Phase 2A costs: NTE \$414,500
 - Non-Discretionary* (staff / CCP opex): \$208,600
 - Discretionary (counsel, consultants, travel, conferences, lobbyist, etc.): \$203,500
- Phase 2B: TBD – will depend on # of PPA negotiations
 - Estimated at \$37k/PPA for 3 PPAs = \$111k (all Discretionary)
- Phase 2A + 2B = \$525,500
- Staff costs included w/in Phase 2A authorization
- Project funding may involve advocacy/lobbyist for exploring CA geothermal challenges

Figure 1: Phase 2 Funnel Steps



* Includes up to 14 months budget, reflecting how Phase 2A will involve on-going relationship development and efforts thru 2025-26 fiscal year

CADEMO Diligence

- Phase 2A 'lite' focused on project diligence for est. 7 members. Tees up more robust Phase 2s expected in 2025-2026 budget
 - CC Power helps members demo various technologies
 - Critical to start diligence and exploration of potential 'buy-down' funding
- Proposed Phase 2A NTE Budget: \$83,600
 - Non-Discretionary (staff / opex): \$20,100
 - Discretionary (diligence consultants, counsel, project funding exploration): \$63,500
- Follow-on work: Phase 2B for negotiation, 2C for consideration of material support to project developer, and/or Phase 3 go/no-go for entering into PPA
- Project funding exploration efforts may involve use of lobbyist for exploring if CA budget or agencies may help with above-market costs

Expected Participation

Participation based on prelim. member input. Final confirmation still needed.

Project Participation	3CE	Ava	CPSF	PCE	RCEA	SCP	SJCE	SVCE	VCE	Total
Phase 2										
LDS	0.00%	0.00%	23.00%	30.00%	6.20%	0.00%	24.00%	11.40%	5.40%	100.00%
Geothermal Origination	22.57%	0.00%	13.08%	15.98%	2.45%	9.33%	16.36%	17.01%	3.24%	100.00%
CADEMO Diligence	29.17%	12.50%	12.50%	16.67%	12.50%	0.00%	12.50%	0.00%	4.17%	100.00%

Next Steps

- Circulate final SOWs and CSAs for these Phase 2s
- Members Opt In
- Invoicing – based on participation;
 - 2024-2025 Authorized Phase 2 budgets sufficient
- Additional Geothermal Project Phase 2s expected for May



6C. 2025-2026 – Draft Budget Discussion

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Budget Ad Hoc Committee

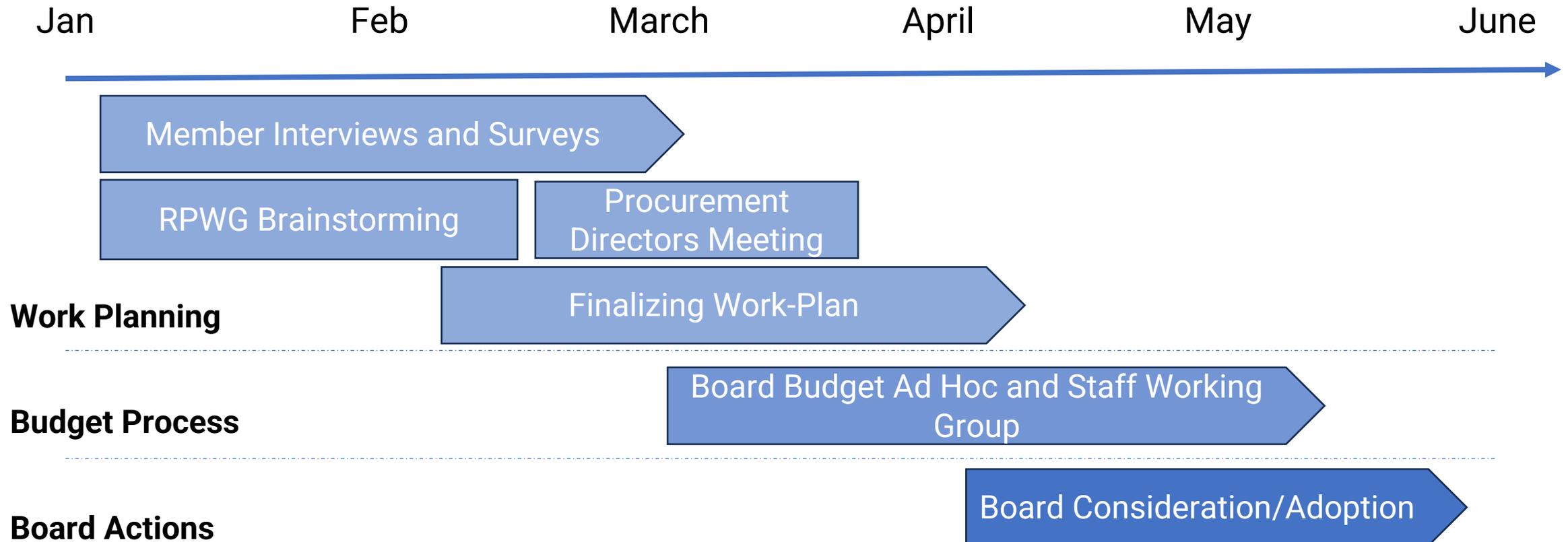
Thank You Committee Members

- Lori Mitchell, SJCE (CC Power Board Chair)
- Mitch Sears, VCE (CC Power Treasurer)
- Monica Padilla, SVCE
- Shawn Marshall, PCE

- Staff Support:
 - Alex Morris
 - Philippe Gerretsen

Work-Planning and Budgeting Timeline

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2025-2026: Work Plan (Draft)

Key:
[Blue Box] Already Authorized
[White Box] To Be Authorized (Budget)

Overall plan includes already authorized and incremental work.*

Phase 1

- Working Groups
- Whitepapers/Explorations:
 - Transmission Education and Joint-Action Strategies
 - Alt Tech Exploration
 - Roadmaps for supporting Scheduling Coordinator needs
 - Equipment bulk-buy test case
- Deal-Flow Origination (All Members)
 - Annual Solicitation
 - Mega Project Identification and Tee-Up

Potential Phase 2's

- Geothermal Strategic Origination
 - Additional Long-Duration Storage
 - Additional Geothermal Project(s)
 - CADEMO – Viability Diligence
-
- CADEMO Remaining Phase 2
 - Pumped Hydro Storage
 - Wind/Other Pursuits

Phase 3

- Tumbleweed
 - Goal Line
 - Ormat
 - Fish Lake
-
- Joint pre-pay consideration
 - Recurring Project execution (Information Services, Computer-Based Trainings)

*This work-plan does not show ongoing Board, events, nor admin functions

Already Approved Vs. New Items

- Already approved Phase 2s and Phase 3s – *no reauthorization of this spending needed*
 - Phase 3: Tumbleweed, Goal Line, Ormat, Fish Lake
 - Phase 2: Geothermal Origination, Incremental LDS, two (2) geothermal negotiations
- Not Previously Authorized Work – *authorization via budget approval*
 - Authorization by Phase
 - Members must still opt-in for Phase 2 and Phase 3
 - Project-level Phase 2 and Phase 3 final amounts will depend on participation
 - Members advised to plan accordingly

Invoicing Plan

Phases/Projects have distinct invoicing approaches.

Type	Invoice Amount	Expected Timing	Notes
G&A	Full Amount	Following Budget approval	Annual one-time dues payment
Phase 1	Full Amount	Following Budget Approval	Annual lump-sum payment
Phase 2	TBD: budget-level authorization OR per authorized project/cost-share	TBD	Project Account Balances. Updates every quarter
Phase 3	Per authorized project or contracts	TBD – Tumbleweed operating account infusion expected in Q1 2026	Project account balances. Update quarterly, but move to monthly for operational projects

Incremental Authorizations

Excludes: Tumbleweed, Goal Line, Ormat, Fish Lake, Geothermal Origination (MOUs and 2 PPAs), and LDS Additional Capacity

Summary Table Excluding Authorized Projects	Total	G&A	Project
<u>Revenues</u>			
Dues	\$1,550,289	\$1,550,289	\$-
Phase 1 Collections	\$789,771	\$-	\$789,771
Phase 2 Collections	\$3,199,615	\$-	\$3,199,615
Phase 3 Collections	\$278,365	\$-	\$278,365
Total Revenues	\$5,818,041	\$1,550,289	\$4,267,751
<u>Expenses</u>			
G&A	\$(1,500,289)	\$(1,500,289)	\$-
Phase 1 Costs	\$(789,771)	\$-	\$(789,771)
Phase 2 Costs	\$(3,199,615)	\$-	\$(3,199,615)
Phase 3 Costs	\$(278,365)	\$-	\$(278,365)
Total Expenses	\$(5,768,041)	\$(1,500,289)	\$(4,267,751)
<u>Balances/Net Income</u>			
Balances/Net Income	\$50,000	\$50,000	\$-
<u>Reserves</u>			
G&A Reserves	\$50,000	\$50,000	\$-
Contributions to Reserves	\$50,000	\$50,000	\$-

Incremental Authorizations by Member

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Excludes: Tumbleweed, Goal Line, Ormat, Fish Lake, Geothermal Origination (MOUs and 2 PPAs), and LDS Additional Capacity

Summary Table Excluding Authorized Projects	3CE	Ava	CPSF	PCE	RCEA	SCP	SJCE	SVCE	VCE	Total
Dues	\$(172,254)	\$(172,254)	\$(172,254)	\$(172,254)	\$(172,254)	\$(172,254)	\$(172,254)	\$(172,254)	\$(172,254)	\$(1,550,289)
Phase 1 Costs	\$(120,321)	\$(147,535)	\$(82,577)	\$(94,104)	\$(40,307)	\$(67,651)	\$(95,633)	\$(98,212)	\$(43,431)	\$(789,771)
Phase 2 Costs	\$(846,928)	\$(339,191)	\$(417,468)	\$(547,878)	\$(353,864)	\$(22,929)	\$(437,115)	\$(101,804)	\$(132,438)	\$(3,199,615)
Phase 3 Costs	\$(12,222)	\$(12,222)	\$(37,427)	\$(37,427)	\$(37,427)	\$(29,360)	\$(37,427)	\$(37,427)	\$(37,427)	\$(278,365)
Net Benefit (Expense)	\$(1,151,726)	\$(671,202)	\$(709,726)	\$(851,663)	\$(603,852)	\$(292,195)	\$(742,429)	\$(409,697)	\$(385,550)	\$(5,818,041)

Participation Levels (may change)

Project Participation	3CE	Ava	CPSF	PCE	RCEA	SCP	SJCE	SVCE	VCE	Total
Phase 3										
Tumbleweed	0.00%	0.00%	16.06%	19.69%	3.62%	12.95%	22.28%	21.25%	4.15%	100.00%
Goal Line	0.00%	0.00%	21.50%	0.00%	4.00%	17.36%	24.22%	28.42%	4.50%	100.00%
Fish Lake	18.60%	0.00%	14.50%	17.80%	2.80%	11.70%	17.40%	14.00%	3.20%	100.00%
Ormat	17.90%	0.00%	13.90%	17.10%	3.20%	11.20%	19.60%	13.40%	3.70%	100.00%
Computer Based Trainings	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	100.00%
Data Set and Reports Bulk Buy	0.00%	0.00%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	100.00%
Phase 2										
CADEMO Phase 2B	29.17%	12.50%	12.50%	16.67%	12.50%	0.00%	12.50%	0.00%	4.17%	100.00%
CADEMO Phase 2C	29.17%	12.50%	12.50%	16.67%	12.50%	0.00%	12.50%	0.00%	4.17%	100.00%
Pumped Hydro Storage	22.57%	0.00%	13.08%	15.98%	2.45%	9.33%	16.36%	17.01%	3.24%	100.00%
Wind / Other rOrigination	0.00%	0.00%	19.20%	23.46%	3.60%	0.00%	24.02%	24.97%	4.75%	100.00%
Phase 1										
Mega Project	17.44%	22.72%	10.11%	12.34%	1.89%	7.21%	12.64%	13.14%	2.50%	100.00%
Annual Solicitation	17.44%	22.72%	10.11%	12.34%	1.89%	7.21%	12.64%	13.14%	2.50%	100.00%
T&D Education	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	100.00%
T&D Strategy Exploration	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	100.00%
In-House SC Roadmap	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	100.00%
Emerging Tech Exploration	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	100.00%
Bulk Buy Whitepaper	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	11.11%	100.00%

Color coding represents higher, medium, and lower participation shares

Next Steps

- Feedback from the Board Today
 - Discuss new approach for Phase 1 & 2
- Ad-hoc Committee approves Final Budget – early May
- Board Approval Final Budget May 21, subject to CCA Board and City Council approvals
- Invoicing July / Aug 2025

The background of the slide is a photograph of a wind farm. Two large white wind turbines are visible, one on the left and one on the right, both with their blades extending upwards. They are situated on a grassy hillside. The sky is a vibrant blue with scattered white clouds. A semi-transparent blue rectangular overlay covers the middle portion of the image, and a bright green vertical bar is on the far left edge.

Appendix

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Draft 2025-2026 Budget: Overall Rev. and Spend. Plan

- Totals:
 - Revenues: \$21M
 - Expenses: \$15.8M

- Excess:
 - \$5M: Tumbleweed Operating Account
 - \$50k: reserves

Summary Table	Total	G&A	Project
<u>Revenues</u>			
Dues	\$1,550,289	\$1,550,289	\$-
Phase 1 Collections	\$789,771	\$-	\$789,771
Phase 2 Collections	\$3,907,817	\$-	\$3,907,817
Phase 3 Collections	\$3,509,045	\$-	\$3,509,045
Phase 3 CAISO / Contract Revenues	\$6,135,848	\$-	\$6,135,848
Phase 3 Deposits	\$5,062,500	\$-	\$5,062,500
Total Revenues	\$20,955,270	\$1,550,289	\$19,404,981
<u>Expenses</u>			
G&A	\$(1,500,289)	\$(1,500,289)	\$-
Phase 1 Costs	\$(789,771)	\$-	\$(789,771)
Phase 2 Costs	\$(3,907,817)	\$-	\$(3,907,817)
Phase 3 Costs	\$(5,232,919)	\$-	\$(5,232,919)
Project Distributions (expected)	\$(4,411,975)	\$-	\$(4,411,975)
Total Expenses	\$(15,842,770)	\$(1,500,289)	\$(14,342,481)
Balances/Net Income	\$5,112,500	\$50,000	\$5,062,500
<u>Retained Reserves</u>			
G&A Reserves	\$50,000	\$50,000	\$-
Project Reserves	\$5,062,500	\$-	\$5,062,500

Incremental: Year-Over-Year

Drivers of change include more mature operations/staff.

Incremental Budget (<i>already approved cost-items removed</i>): Draft '25-'26 vs '24-'25	Draft 2025-2026	2024-2025*	Notes
<i>This shows the budget/cost growth in a helpful way</i>			
G&A	\$1,550,289	\$911,684	Increases: Staffing, operating expenses, updated allocations between G&A and projects
Phase 1	\$789,771	\$150,000	25-'26 includes >\$500k for mega project exploration and an all-member solicitation
Phase 2	\$910,115 <i>(or \$3,199,615 with TBD material support for CADEMO)</i>	\$1,359,103	Revised approach vs. '24-'25 which had numerous Phase 2s but fewer all-member Phase 1s. Outlier: optional \$2.3M Material Support for CADEMO to be assessed by Project Advisory Subcommittee
Phase 3	\$278,365	\$206,820	
Total	\$3,528,541 <i>(or \$5,818,041 with TBD material support for CADEMO)</i>	\$2,627,607	Delta = \$900,934 (or \$3,528,541 with material support item)

*Categorizes costs for apples to apples comparisons