Northern California Power Agency
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BUSINESS PROGRESS REPORT

2024

June

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Generation Costs & Reliability

Combustion Turbine Project

Unit Operation for May 2024

Unit	Availability		Production			Reason for Run
CT1 Alameda	Unit 1	Unit 2	Unit 1	17.5	MWh	COMMISSIONING / COMMISSIONING
	1.8%	1.79%	Unit 2	21.4	MWh	

Curtailments, Outages, and Comments:

Unit 1: 5/01 @ 00:00 - 5/31 @ 10:41; Annual maintenance outage and controls upgrade, OMS 14559014

Unit 2: 5/01 @ 00:00 - 5/31 @ 10:41; Annual maintenance outage and controls upgrade, OMS 14559019

Unit	Availability	Production		Reason for Run
CT1 Lodi	100.00%	0.0	MWh	No Runs.

Curtailments, Outages, and Comments:

Normal Operation.

Unit	Availability	Production		Reason for Run
CT2 STIG	100.0%	0.0	MWh	No Runs.

Curtailments, Outages, and Comments:

Normal operation.

Unit	Availability	Production		Reason for Run
LEC	97.2%	4,285	MWh	COMMISSIONING

Curtailments, Outages, and Comments:

5/01 @ 00:00 - 21:50; Annual Outage & Steam Turbine Excitation Upgrade, OMS 14559029
5/09 @ 07:15 - 11:18; ST ONLY - AVR Trouble, derate to 135MW, OMS 15753641

Maintenance Summary – Specific per asset above.

Geothermal Facilities

Availability/Production for May 2024

Unit	Availability		Net Electricity Generated/Water Delivered		Out-of-Service/Descriptors		
Unit 1	96.77	%	29,666	MWh	Unit 1 was in service all 31 Days of May.		
Unit 2	0	%	0	MWh	Unit 2 currently in outage with a 7/31/2024 return to service date.		
Unit 3	N/A	%	N/A	-	Unit 3 remains out of service.		
Unit 4	96.77	%	31,251	MWh	Unit 4 was in service all 31 days of May.		
Southeast Geysers Effluent Pipeline	100	%	135.5	mgallons	Average flow rate:	3,048	gpm
Southeast Solar Plant	N/A		134,600	KWh	Year-to-date KWh:	1,229,214	
Bear Canyon Pump Station Zero Solar	N/A			KWh	Year-to-date KWh:	891,760	

* Accounts for an additional 782 MWh of house load for the 21KV power supply to the effluent pipeline supplied from Unit #2.

Hydroelectric Project

Availability/Production for May 2024

Units	Availability	Net Electricity Generated	Out-of-Service
Collierville Unit 1	99.70%	52,194 MWh	OMS 15740663 – CV1 offline from 1002-1213 for Seal Water cleaning, Collector Ring Brushes, TWD maintenance
Collierville Unit 2	99.68%	49,463 MWh	OMS 15740697 – CV2 offline from 1259-1525 for Seal Water cleaning, Collector Ring Brushes, TWD maintenance
Spicer Unit 1	99.17%	188 MWh	*OMS 15777899 – NSM station offline for PGE TIGO. TIGO started on 5/14/24 at 1052, and ended on 5/15/24 at 0916. **OMS 15870012 – NSM Rapid Response testing on the 48" & 12" HBV's starting on 5/29/24 at 0930 and ending at 1555 same day.
Spicer Unit 2	99.17%	88 MWh	*Same note as NSM 1 **Same note as NSM 1
Spicer Unit 3	96.40%	225 MWh	*Same note as NSM 1 **Same note as NSM 1

Operations & Maintenance Activities:

- CMMS work orders
- Crew annual training –92% complete
- Hydro Tech Operator cross training
- 230kv line vegetation maintenance
- New Spicer Meadows campground opening
- FERC Part 12 IC Conference Call with FERC Regional Engineer
- Oily water separator project
- McKays water handling project
- Alpine hand rail project

Environmental, Health & Safety (EH&S) Projects Incident Reports

- There were no Lost Time Accidents, Cal OSHA Recordable Incidents, or vehicle incidents in the month of May.

- Find below a Safety Report that highlights the following areas: recordable incidents and lost time accidents (LTAs) reported this period and this calendar year; the number of days since last recordable or LTA; the number of work hours since last recordable or LTA; and vehicle accidents reported this month and this calendar year. In September of 2012, Generation Services completed an internal audit of its records with the results reflected in this report and was updated through the payroll period ended May 18, 2024.

- The "CT Group" column reflects the combined safety numbers of all CT employees. Beginning with the November 2009 report, the CT Group Column also includes Lodi Energy Center staff.

May 2024
Generation Services Safety Report

	Hydro	GEO	CT Group *	NCPA HQ **
Cal OSHA Recordable (this month)	0	0	0	0
Cal OSHA Recordable (calendar year)	0	0	1	0
Days since Recordable	1,285	327	69	4,314
Work Hours Since Last Recordable	112,342	65,490	18,194	3,091,817
LTA's (this month)	0	0	0	0
LTA's (calendar year)	0	0	0	0
Days without LTA	6,064	346	11,234	7,327
Work Hours without LTA	544,857	65,854	943,636	2,713,832
Vehicle Incident (month)	0	0	0	0
Vehicle Incident (calendar year)	0	1	0	0

* CT Group: Combines CT-1, CT-2 and LEC Operations

** NCPA HQ: Roseville employees at the Main Office

Data originates from OSHA logs, HR records and payroll information.
Days and Hours are calculated through pay period ended May 18, 2024.

Power Management/NCPA Market Results

Dispatch and Schedule Coordination

- NCPA Dispatch and Schedule Coordination Center safely, reliably, and economically schedules, monitors, and manages NCPA and NCPA member power resources and loads 24 hours per day, 7 days per week on a continuous basis. This process includes balancing MSSA loads and resources on a 5-minute basis, optimizing NCPA resources and minimizing ISO costs.
- NCPA MSSA Load Data:

Current Year 2024 Data

	May 2024		Calendar Year 2024	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	351 5/31 @ 1800	188,864	351 5/31 @ 1800	939,373
SVP	625.21 5/30 @ 1700	395,706	625.21 5/30 @ 1700	1,915,569
MSSA	969.91 5/30 @ 1800	584,570	969.91 5/30 @ 1800	2,854,942

**Last Year 2023 Data*

	May 2023		Calendar Year 2023	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	329.08 5/16 @ 1800	179,822	440.7 8/15 @ 1700	915,146
SVP	667.13 5/19 @ 2200	383,671	669.22 8/23 @ 1600	1,869,746
MSSA	962.76 5/19 @ 1900	563,493	1103.22 8/23 @ 1700	2,784,892

*Last year's data added for comparison purposes only

System Peak Data

	All Time Peak Demand	2024 Peak Demand
NCPA Pool	517.83 MW on 7/24/06 @ 1500	351.0 5/31 @ 1800
SVP	687.74 MW on 9/6/22 @ 1300	625.21 5/30 @ 1700
MSSA	1176.20 MW on 9/6/22 @ 1400	969.91 5/30 @ 1800

- NCPA MSSA has a Deviation Band with the CAISO, which is used as a performance measure by the CAISO. The ability to stay within this Deviation Band is a measure of NCPA Dispatch's ability to balance the MSSA Loads and Resources on a 5-minute basis. The following NCPA Deviation Band Performance table includes all deviations, including deviations from unit forced outages, metering and load outages, COTP, Western, and WECC curtailments.

NCPA Deviation Band Performance		
	May 2024	Calendar Year 2024
MSSA % Within the Band	98.23%	98.67%

CAISO Real-time Contingency Dispatches (RTCD):

- None

CAISO Energy Emergency Alerts (EEA):

- None

PG&E Public Safety Power Shut-off (PSPS)

- None

Pooling, Portfolio Planning & Forecasting

- NCPA Pool loads during May 2024 were 188,885 MWh versus the budget forecast of 191,727 MWh, resulting in a forecast error of 1.50%. The weather outlook for the remainder of June is for above average temperatures and below average precipitation. The Pool's June load forecast is 199,532 MWh compared with extrapolated actuals of 208,775 MWh as of June 17, 2024.

- Lodi Energy Center (LEC) ran 28 hours and produced 4,282 MWh during May 2024.

- During May 2024, 1.48" of rain was recorded at the Big Trees gauge. May average rainfall at Big Trees is 1.26".

- The Value of Storage (VOS) of New Spicer Meadow Reservoir (NSMR) has been maintained at $90/MWh. Releases from NSMR ranged from near minimum of 22cfs up to 300cfs during May.

- New Spicer Meadows storage as of May 31, 2024 was 180,588 acre-feet. The historical average storage at the end of May is 140,689 acre-feet. As of June 17th, storage was seasonally peaking at ~188,250 acre-feet (99.6% of capacity of 189,000acft).

- Combined Calaveras Project generation for the Pool in May 2024 totaled 52,029 MWh, down slightly from 54,639 MWh in April 2024.

- Western Base Resource (BR) deliveries for the Pool during May 2024 were 69,267 MWh. The Displacement Program provided an additional hedge of 8,080 MWh in the form of an NP15 Inter-Schedule Coordinator Trade (IST). The Pool's share of expected total delivery from the Western Base Resource for June 2024 is 64,300 MWh, with 36,436 MWh having been delivered as of June 17, 2024. The WAPA displacement has delivered an additional 2,597 MWh.

- The PG&E Citygate gas index averaged $2.23 / MMBtu during the month of May 2024 as compared to an average of $2.27 for April. PG&E Citygate index has averaged $1.88 / MMBTUs during the period of June 1 through 17, 2024. PG&E Citygate forward price for July 2024 is $2.64 / MMBtu.

- Day-Ahead PG&E DLAP electricity prices during May averaged $20.86 / MWh on-peak and $23.56 off-peak, with a high of $28.36 and a low of -$27.67. For the period June 1st through the 17th on-peak prices have averaged $25.40 on-peak and $24.02

off-peak, with low -$14.43 and a high of $85.32. The NP15 forward power price for July 2024 are $49.03 on-peak and $42.20 off-peak.

Industry Restructuring, Contracts and Interconnection Affairs

Resource Adequacy Compliance Filings

- NCPA made the following Resource Adequacy compliance filings with the CAISO for the compliance period of August 2024:
  - Monthly System Resource Adequacy Demonstration (filed June 17, 2024)
  - Monthly Supply Plan (filed June 17, 2024)

Industry Restructuring

NCPA is actively participating in a number of CAISO stakeholder initiatives on behalf of the Members. The following is a brief description of key active initiatives:

Day-Ahead Sufficiency

This initiative will focus on ensuring the ISO balancing authority area (BAA) can accurately calculate its Extended Day-Ahead Market (EDAM) resource sufficiency evaluation (RSE) position with enough time to take action if there is a projected shortfall. To that end, this initiative will focus on three topics: (1) quantifying day-ahead volumes expected from resource adequacy resources to complement advisory RSE results; (2) accounting for demand response resources; and (3) accounting for strategic reliability reserve resources.

NCPA comments for May 13, 2024 straw-proposal call:

- NCPA understands CAISO wishes to see 100% of Day-Ahead submitted by 9AM advisory Resource Sufficiency Evaluation run. NCPA will strive to achieve that but does not guarantee it. NCPA does not support CAISO inserting missing bids.
- If 75% of bids are typically submitted in time for 9AM advisory RSE run then CAISO should assume the rest of the bids will follow. Only claim deficiency if less than 75% of bids are submitted by 9AM.
- CAISO must not try to resolve deficiencies “at any/all cost”.

Resource Adequacy Modeling and Program Design

The Resource Adequacy Working Group will explore reforms needed to the ISO’s resource adequacy rules, requirements, and processes to ensure the future reliability and operability of the grid. The working group structure aims to give stakeholders a more active role in forming problem statements, identifying potential areas for analysis and supporting data, and scoping necessary market rule changes. Working group discussions will help inform the scope of a formal stakeholder initiative.

NCPA Comments for April 29-30 RAMPD Stakeholder Working Group:

- NCPA continues to strongly support the current policy whereby LRAs retain the jurisdictional authority to establish and set the PRM and resource QC counting conventions for their respective LSEs. CAISO should continue to respect the jurisdictional rights of LRAs to establish standards for their LSEs, especially in the absence of any evidence that the current system has created material reliability concerns.

- NCPA is not yet convinced that a 0.1 LOLE study methodology is appropriate for establishing a default PRM. Over time, many variations of the study methodology have been discussed (producing variable results), and NCPA believes it is important to establish a study methodology that produces stable planning standard targets to support efficient commercial transactions.

- NCPA believes that less time and effort should be committed to discussing concerns with use of the CPM to cure RA deficiency at future workshops; historically, CPM has rarely been needed and used to cure RA deficiency, so NCPA believes this topic should be assigned a lower priority in future discussions.

- EDAM was designed to enable efficient economic displacement across the WECC. EDAM is not intended to be a guarantor of RA sufficiency for any BAA, beyond ensuring that BAAs participating in the EDAM at any point in time are not leaning on others.

- NCPA supports the addition of the following outage types:
  - "Planned Medium Notice Opportunity RA Outages" whereby SCs could submit requests between T-30 and T-7 days for discretionary outages limited to five days or less in duration without a substitution obligation.
  - "Advanced notice forced outages" where a generator knows in advance of the forced outage window that vital repairs must be made to ensure the unit stays operational for future critical periods. This type of outage would allow SCs to signal CAISO when a particular planned outage is necessary to preserve the unit.

- NCPA opposes the proposal to require LSEs to show 100% of RA Capacity one year in advance and to eliminate the monthly showings. The monthly updates provide an important opportunity to fine tune portfolios and address any gaps in the most economical way for ratepayers.

Western

Western Base Resource Tracking - NCPA Pool							
	Actual			Costs & Rates			
	BR Forecast[1] (MWh)	BR Delivered (MWh)	Difference (MWh)	Base Resource & Restoration Fund ($)	Monthly Cost of BR[2] ($/MWh)	CAISO LMP Differential[3] ($/MWh)	12-Mo Rolling Avg. Cost of BR[4] ($/MWh)
Jul-23	35,526	63,713	28,187	$1,275,846	$ 20.02	$ (2.07)	$ 39.84
Aug-23	26,389	61,247	34,858	$1,275,846	$ 20.83	$ (0.99)	$ 33.28
Sep-23	12,488	36,612	24,124	$1,257,599	$ 34.35	$ 0.12	$ 29.81
Oct-23	7,510	36,999	29,489	$461,542	$ 12.47	$ 0.03	$ 27.47
Nov-23	12,128	14,426	2,298	$461,542	$ 31.99	$ 0.11	$ 26.42
Dec-23	721	7,349	6,628	$461,542	$ 62.80	$ 0.14	$ 25.82
Jan-24	11,160	12,919	1,759	$461,542	$ 35.73	$ 0.07	$ 24.98
Feb-24	16,835	77,334	60,499	$461,542	$ 5.97	$ 0.17	$ 20.91
Mar-24	11,662	61,865	50,203	$461,542	$ 7.46	$ (0.18)	$ 18.41
Apr-24	37,152	58,054	20,902	$1,252,357	$ 21.57	$ 0.30	$ 17.76
May-24	66,765	77,347		$1,252,357	$ 16.19	$ 2.65	$ 18.23
Jun-24	70,929	-		$1,252,357	$ 17.66	$ -	$ 18.05
1/	As forecasted in NCPA 23/24 Budget						
2/	= (Western Cost + Restoration Fund)/BR Delivered, for Pool Participants only.						
3/	= (MEEA LMP - PG&E LAP LMP) using public market information (i.e. not settlement quality).						
4/	Based on BR Delivered (Actual) when available and BR Forecast in all other cases. Includes CAISO LMP impact.						

- NCPA Pool received 77,347 MWh of Base Resource (BR) energy in May 2024.This includes displaced energy of 8,080 MWh. The estimated MEEA savings is about $183,370 and displacement savings of 44,440.

- 2024 Integrated Resource Plan (IRP)
  - Pursuant to the Base Resource Contract, NCPA (on behalf of the Pool Members) is required to file a 5-year prospective IRP every five years. And every year, to file an annual progress update. The most recent 5-year plan was filed last year so this year, we only need to prepare and file an annual update for 2023 activities by July 1, 2024.
  - Guy Nelson (Consultant) has been coordinating with NCPA and the Pool Members to complete the IRP Report.

- Re-initiation of Consultation of the Long-Term Operations (ROC on LTO) – Trinity Component
  - In September 2021, Bureau of Reclamation and California Department of Water Resources requested a new Endangered Species Act (ESA) with National Marine Fisheries Service (NMFS) and US Fish & Wildlife (USFWS). The ESA requires formal consultation of the CVP operation's impact on the species. As part of the National Environmental Policy Act (NEPA) requirement, Reclamation is required to provide three or four alternatives to compare against baseline operations and analyze the effect in an Environmental Impact Statement for public comment. As a final step, Reclamation publishes a Record of Decision adopting its preferred operational alternative. On February 28, 2022,

Reclamation published a Notice of Intent in the Federal Register, for the preparation of an Environmental Impact Statement (EIS).
  - Reclamation provided the preliminary four alternatives for the Trinity portion for the EIS early June and comments were due mid-July 2023.
  - Per Reclamation's request, Power Customers/WAPA provided final description for Alternative 5 late September 2023 for "Low Emissions with Flexible Management".
  - Reclamation provided the Cooperating Agencies the Draft Cooperating Agency Environmental Impact Statement (EIS) mid-September 2023.
    - NCPA as a participating cooperating agency submitted comment to the draft EIS. Our comments were primarily focused on emissions impact related to volume, timing of CVP hydro generation and grid reliability.
    - WAPA/customers provided emissions footprint methodology
  - Projected Timeline:
    - Publish Public draft EIS in Summer 2024 (July)
    - Publish Final EIS in November 2024
    - Record of Decision by end of December 2024
  - New updates on Trinity Consultation:
    - Reclamation is evaluating alternatives of the CVP including potential changes to the Trinity operations. They have included the Low Emissions with Flexible Management Alternative per Power Customer's feedback. The Trinity Consultation may require supplemental EIS and additional subsequent ROD.
    - Projected Timeline:
      - Modeling expected in September 2024
      - Public draft NEPA in Spring 2025
      - NEPA Decision late 2025
      - May require supplemental EIS and/or additional subsequent ROD.

- Extended Day-Ahead Market (EDAM)
  - WAPA SNR has been participating in the EDAM discussions with CAISO and BANC. They have not officially announced the decision to join EDAM. Pending decision and approval by WAPA's Administrator. Their initial considerations include:
    - Integration with the existing Power Marketing Plan.
      - CVP generators will bid into EDAM and receive payment by Locational Marginal Price (LMP) at their respective locations (Shasta, Folsom, and New Melones).
      - They plan to create a CVP Trading Hub. The price will be the weighted average of the hourly LMPs at the three CVP generation aggregates weighted by the EDAM schedules.
      - WAPA will transfer energy to preference customers by Inter-SC Trade (IST) at the CVP Trading Hub.
  - Transmission Loss Revenue Recovery
    - WAPA will continue to recover transmission losses according to its rate schedule. The CVP generation covering the losses for non-preference power will be paid the LMP in EDAM; and WAPA will collect the balance from the transmission customers when the CVP generation cost is greater than the LMP.

        - Preference customers will continue to pay transmission losses for delivering Preference Power through the power revenue requirements.
    - Resource Adequacy
        - Based on preliminary discussions with the CAISO staff, CVP can be recognized in EDAM as Use Limited Resource (ULR) and Conditionally Available Resource (CAR). As such CVP generation will not be subject to "must offer" obligation.
        - If CVP generators can be treated as ULR and CAR, WAPA plans to offer System Resource Adequacy to its preference customers after joining EDAM. The details have yet to be worked out.
        - WAPA has transmission rights to deliver preference power in BANC. Preference customers (Load Serving Entities) in the CAISO must obtain Maximum Import Capability (MIC) in the CAISO BAA through the CAISO's allocation process.
    - WAPA is looking to start the customer meetings this Summer. Currently four meetings scheduled between June and August. First meeting will be held on June 20, 2024.

Interconnection Affairs

Rate Case Update – TO18; TO19, and TO20 Refunds
PG&E proposed a settlement offer. NCPA and Joint Interveners have reached a settlement in principle with PG&E. Settlement has been filed at FERC.

TO Rate Case Program Update

- Program Agreement
    - March 28 – NCPA Commission approved the Program Agreement
    - April 22 – Staff requested participants to seek approval and to execute Program Agreement
    - Once all participants have executed the Program Agreement by signature, NCPA will sign the Program Agreement to make it effective

- Rate Case Activities
    - PG&E TO-21 – In Discovery Phase
        - Consultants are working on 3rd set of data request
        - Preliminary PG&E issues list has been complied by joint intervenors. Next settlement conference is scheduled for June 20th.
        - Legal team tasked with finding PG&E legal cost related to wildfire activities

- PG&E RTO Adder
    - FERC rejected PG&E adder of 50 basis ($40M decrease in TRR for rate year 2024)
    - PG&E, SCE, EEI requested rehearing on RTO Adder ruling
    - FERC denied IOU request for rehearing
    - Current Status
        - PG&E appealed the FERC decision in 9th circuit court
        - NCPA will intervene in this proceeding
        - FERC trial staff to litigate

- SDG&E RTO Adder
  - NCPA and JI exploring ways to remove SDG&E adder (potential savings of ~$20M from TRR)
    - $391K NCPA savings annually
  - Compliant filed at FERC

Debt and Financial Management

- The Consumer Price Index (CPI) continued to cool with prices rising 3.3% from a year earlier, slowing from April's 3.4% rate. Economists were expecting a 0.1% increase but prices held flat for the first time since July 2022 led by falling gas prices.

- Following the CPI report, the Fed also announced after its two-day meeting that they voted to keep its benchmark interest rate unchanged and in a range of 5.25%-5.50% while scaling back its estimate of rate cuts this year to one from three previously. The fed funds rate has been in this range since July 2023.

- It was a close call on the revised median of rate cuts predicted for this year. Eight officials estimated 2 cuts this year, while 7 officials predicted 1 cut. Four officials saw no cuts happening this year. At the same time, Fed officials boosted their collective forecast for the number of cuts expected next year now seeing a median of 4 additional rate cuts. That is up from a prior forecast of 3.

Schedule Coordination Goals

Network

- SCADA and Networking team is currently working with a number of stakeholders to bring a variety of different generation projects online this summer. This includes the following resources:
  - Lodi Strategic Reserve
  - Yuba Strategic Reserve
  - NID Deer Creek Controls
  - Scarlett 1A BESS
  - Yellow Pine BESS

- IS continues the work toward preparing the HQ and DRC Control Centers to be compliant with the NERC CIP Medium standards. Currently working on a number of CIP-010 ports and services inventory to help meet compliance with R1.1.

- Operations and Support is working to backfill a vacant Oracle DBA position since Chuck Coon retired after 30 years with the Agency. We are anticipating filling the position by this summer.

- The IS team coordinated with Generation Services to help upgrade the Alameda and Lodi CT control and PI Historical systems.

Software Development

- Scheduling and bidding applications support activities:
  - Yellow Pine Co-located PV+BESS Resource Integrations for San Jose successfully rolled out into production at the beginning of this month of June 2024
  - New resource integrations coming up for AVA/EBCE (Tumbleweed Energy Storage), SCP and SJCE (Fish Lake Geothermal), and SJCE (Middle River and West Tambo projects)
- NCPA IS team continues to provide technical support and coordination for Accounting on the major GL Code Restructuring project.

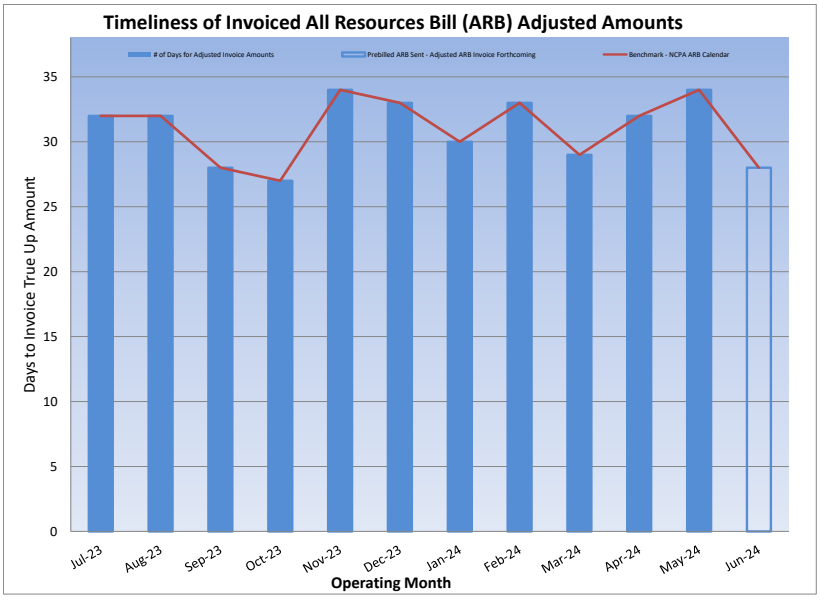
NCPA Bills & Settlements

Progress Against the Strategic Plan

Adjusted Power bills, which include CAISO transactions, invoiced to members the following month subsequent to the monthly pre-billed ARB month. Timely ARB settlements adjustments help improve members' cash flow and reconciliation of their budget performance.

The June 2024 NCPA All Resources Bill (ARB) monthly invoice sent to members on May 26, 2024 contains:

- June 2024 monthly pre-billed budget/forecast amounts;
- April 2024 (1st Adjustment) NCPA Project and CAISO Initial settlement true-ups;
- March 2024 (2nd Adjustment) NCPA Project settlement true-up and T+20 business day recalculated CAISO settlement true-up allocations;
- January 2024 (3rd Adjustment) T+70 business day recalculated CAISO settlement true-up allocations and NCPA Projects true-up;
- May 2023 (4th Adjustment) T+11-month recalculated CAISO settlement true-up allocations;
- July 2022 (5th Adjustment) T+21-month recalculated CAISO settlement true-up;
- April 2022 (6th Adjustment) T+24-month recalculated CAISO settlement true-up.



Legislative & Regulatory

Legislative Update:

- More than a dozen members of the NCPA delegation traveled to San Diego this year from June 9-12 to join more than a thousand attendees celebrating public power at the American Public Power Association (APPA) National Conference. Two dozen informational sessions were available to conference attendees throughout the event, addressing many important topics to NCPA and its members. As part of the official welcome to the conference, CMUA Executive Director Barry Moline offered a video highlighting the innovation of California's public power utilities, including: 1) work being done by NCPA to incorporate hydrogen at the Lodi Energy Center, and 2) continued efforts by Roseville Electric to provide energy education to community members as part of its Utility Exploration Center.

- NCPA and Silicon Valley Power (SVP) spoke at three breakout sessions during the conference. In addition, NCPA co-sponsored two policy resolutions that were adopted during the conference: 1) Resolution 24-11: In Support of Flexible Clean Hydrogen Credits, and 2) 24-13: In Support of the Fire Safe Electrical Corridors Act. APPA's adopted resolutions set the foundation for APPA's advocacy efforts on Capitol Hill.

Human Resources

Hires:

Nicolas Potter joined NCPA's Hydroelectric Facility as a Supervisor III, Chief Dam Safety Engineer, effective June 3, 2024. Nicolas joined NCPA from the U.S. Bureau of Reclamation where he was a Senior Geotechnical Engineer. In this role, he was responsible for risk analysis, dam safety activities, dam safety programs, geotechnical engineering design projects, and conducting material control studies of dams and other structures under construction to determine the adequacy of construction procedures and construction support. Previously, Nicolas worked for the Federal Aviation Administration where he was a Civil Engineer responsible for the Program Management of civil infrastructure projects through the FAA Airports Improvement Program. Nicolas holds a Bachelor of Science in Civil Engineering from the University of Colorado, a Master of Science in Civil Engineering from the Colorado School of Mines, and is a registered P.E. in the state of CO.

Taniya Kar joined NCPA's Geothermal Facility as a Reservoir Engineer, effective June 10, 2024. Taniya joined NCPA from the Reservoir Engineering Research Institute, where she was a Lead Research Scientist. In this role, she was responsible for the transportation of hazardous chemicals and gases in wet-chemistry lab facilities, forecasting probable interruptions and recommending innovative solutions, implementing instrumentation and data analyses, leading high-complexity projects, and presenting research proposals to stakeholders to initiate the funding of new projects. Previously, Taniya worked for Texas A&M University as a Research Assistant in Petroleum Engineering, where she designed and built experimental setups for chemically enhanced steam flooding and steam-assisted gravity drainage, conducted detailed molecular-level investigations of water-oil emulsions, and delivered optimum emulsion treatment methods. Taniya holds a Bachelor of Technology in Chemical Engineering from the National Institute of Technology and a Master of Science and Doctor of Philosophy in Petroleum Engineering from Texas A&M University. Taniya brings 10+ years of experience in reservoir engineering, process engineering & research experience in the chemical industry.

Intern Hires:

Lauren Rogan joined NCPA's Lodi Energy Center on May 13, 2024, as a Student Assistant IV.

The Agency welcomed Lauren Kalsbeek, Student Assistant II, on May 15, 2024. Lauren will spend the summer interning with the City of Redding.

The Agency welcomed Jeweliette Pearson, Student Assistant III, on May 21, 2024. Jeweliette will spend the summer interning with the City of Palo Alto.

The Agency welcomed Lang Cheng, Student Assistant IV, on June 3, 2024. Lang will spend the summer interning with the City of Palo Alto.

Alyssa McClendon joined NCPA Headquarters on June 3, 2024, as a Student Assistant III (Human Resources).

Promotions:
None.

Separations:
Lauren Giordano resigned from her position as Engineer I at NCPA Headquarters on May 16, 2024, after 1 year of service.

Chuck Coon retired from his position as Database Administrator at NCPA Headquarters on May 31, 2024, after 30 years of service.

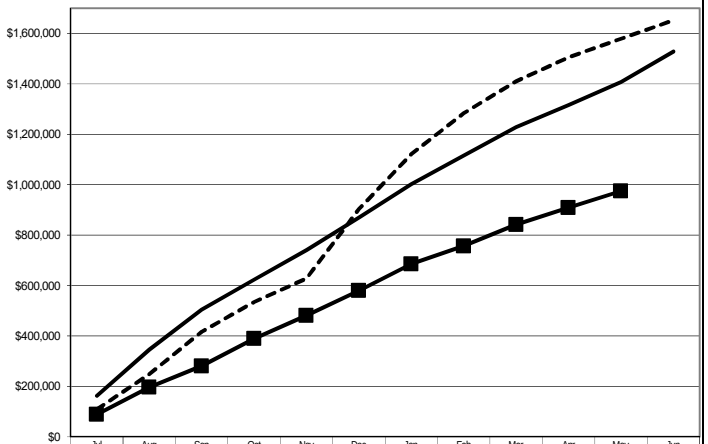
Annual Budget
2023-2024 Fiscal Year To Date
As of May 31, 2024

In Thousands

	Program			
	Budget	Actual	Under(Ovr) Budget	YTD % Remaining
GENERATION RESOURCES				
NCPA Plants				
Hydroelectric	57,650	52,766	$ 4,884	8%
Geothermal Plant	50,009	43,396	6,613	13%
Combustion Turbine No. 1	6,932	4,736	2,196	32%
Combustion Turbine No. 2 (STIG)	9,217	7,596	1,621	18%
Lodi Energy Center	136,797	102,518	34,279	25%
	260,605	211,012	49,593	19%
Member Resources - Energy	70,125	75,328	(5,203)	-7%
Member Resources - Energy (Customer)	359	98	261	73%
Member Resources - Natural Gas	2,510	4,686	(2,175)	-87%
Western Resource	25,839	14,132	11,708	45%
Market Power Purchases	37,309	36,892	417	1%
Gross Load Costs	691,439	353,577	337,863	49%
Gross Load Costs (Customer)	220,937	112,655	108,282	49%
Net GHG Obligations	1,363	3,066	(1,703)	-125%
Net GHG Obligations (Customer)	-	1,003	(1,003)	
Preliminary Surveys and Investigations	300	-	300	100%
	1,310,786	812,448	498,338	38%
TRANSMISSION				
Independent System Operator	195,762	130,805	64,957	33%
Independent System Operator - Customer	-	11,267	(11,267)	
	195,762	142,073	53,689	27%
MANAGEMENT SERVICES				
Legislative & Regulatory				
Legislative Representation	2,250	1,774	477	21%
Regulatory Representation	763	760	3	0%
Western Representation	768	374	394	51%
Customer Programs	649	490	159	24%
	4,429	3,397	1,032	23%
Judicial Action	1,064	624	440	41%
Power Management				
System Control & Load Dispatch	7,900	6,843	1,057	13%
Forecasting & Prescheduling	2,891	2,573	318	11%
Industry Restructuring	392	368	25	6%
Contract Admin, Interconnection Svcs & Ext. Affairs	1,176	1,060	117	10%
Gas Purchase Program	79	56	23	29%
Market Purchase Project	113	74	39	35%
	12,552	10,973	1,579	13%
Energy Risk Management	144	154	(9)	-6%
Settlements	1,076	672	403	37%
Integrated System Support	772	592	180	23%
Participant Pass Through Costs	1,765	1,417	348	20%
Support Services	-	2,397	(2,397)	
	21,802	20,226	1,576	7%
TOTAL ANNUAL BUDGET COST	1,528,350	974,747	553,603	36%
LESS: THIRD PARTY REVENUE				
Plant ISO Energy Sales	244,824	128,708	116,116	47%
Member Resource ISO Energy Sales	74,477	51,534	22,943	31%
Member Owned Generation ISO Energy Sales	179,429	116,616	62,813	35%
Revenue from Customers	70,212	34,833	35,379	50%
Customer Owned Generation ISO Energy Sales	154,466	1,198	153,268	99%
NCPA Contracts ISO Energy Sales	45,275	18,039	27,235	60%
Western Resource ISO Energy Sales	31,463	27,860	3,603	11%
Load Aggregation Energy Sales	-	78,324	(78,324)	
Ancillary Services Sales	9,295	1,731	7,564	81%
Transmission Sales	110	101	9	8%
Western Credits, Interest & Other Income	44,090	73,214	(29,124)	-66%
	853,641	532,159	321,482	38%
NET ANNUAL BUDGET COST TO PARTICIPANTS	674,709	442,588	$ 232,121	34%

In Thousands

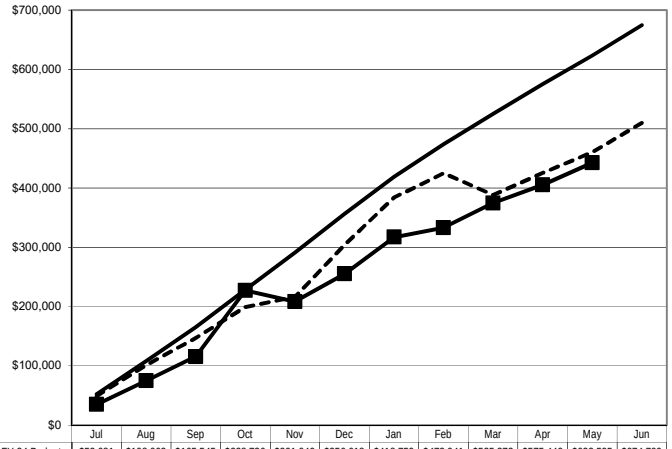
Annual Budget Cost



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$162,510	$345,038	$504,187	$623,858	$741,222	$870,317	$1,002,130	$1,116,311	$1,228,638	$1,316,218	$1,408,009	$1,528,350
FY 23 Actual	$109,077	$247,920	$416,613	$534,205	$628,445	$904,284	$1,121,397	$1,283,668	$1,410,047	$1,505,398	$1,579,558	$1,652,305
FY 24 Actual	$88,898	$196,864	$281,090	$389,765	$481,896	$580,557	$686,213	$756,535	$841,700	$909,502	$974,747	

In Thousands

Net Annual Budget Cost to Participants

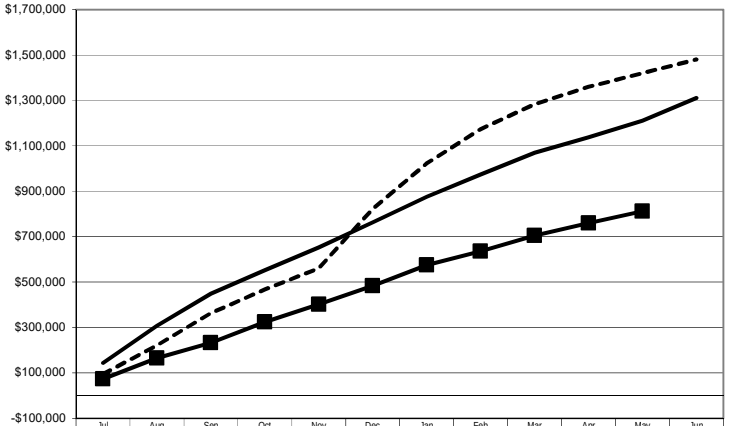


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$52,681	$108,063	$165,545	$228,736	$291,049	$356,618	$418,759	$473,941	$525,373	$575,449	$623,595	$674,709
FY 23 Actual	$49,118	$101,215	$147,322	$199,688	$216,397	$304,317	$383,721	$424,804	$388,097	$425,222	$460,704	$509,821
FY 24 Actual	$35,142	$75,059	$115,738	$227,239	$208,586	$255,208	$317,258	$333,106	$374,874	$405,380	$442,588	

Annual Budget
Budget vs. Actual By Major Area
As of May 31, 2024

Generation Resources

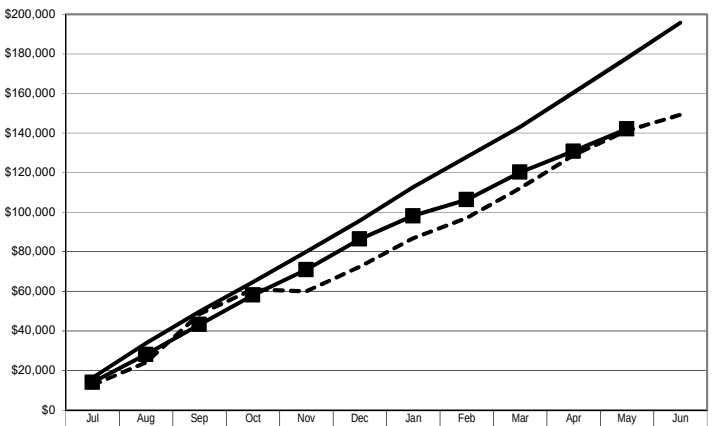
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$144,324	$307,598	$448,915	$551,898	$652,008	$763,706	$876,694	$973,923	$1,069,245	$1,137,647	$1,210,156	$1,310,786
FY 23 Actual	$95,042	$220,905	$363,886	$467,384	$561,129	$822,579	$1,023,200	$1,173,599	$1,283,312	$1,359,980	$1,419,863	$1,480,706
FY 24 Actual	$73,103	$165,242	$232,815	$324,548	$401,822	$483,132	$574,908	$635,295	$704,854	$760,049	$812,448	

Transmission-ISO

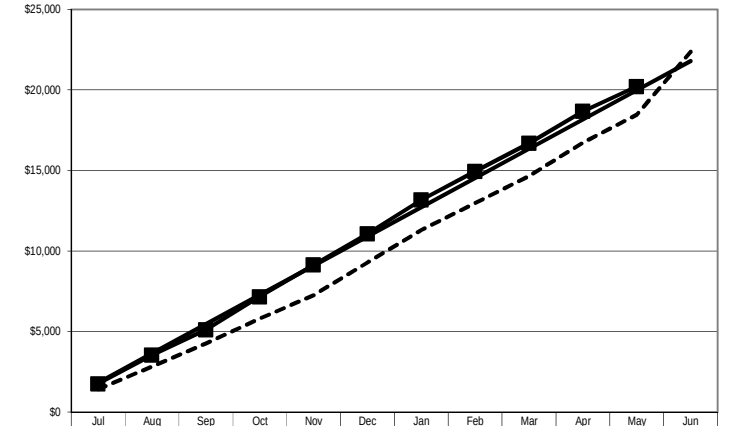
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$16,370	$33,806	$49,822	$64,693	$80,129	$95,710	$112,718	$127,853	$143,040	$160,403	$177,867	$195,762
FY 23 Actual	$12,622	$24,193	$48,471	$61,016	$60,071	$72,434	$86,897	$97,091	$112,067	$128,691	$141,228	$149,223
FY 24 Actual	$14,042	$28,083	$43,172	$58,055	$70,935	$86,351	$98,132	$106,302	$120,151	$130,770	$142,073	

Management Services

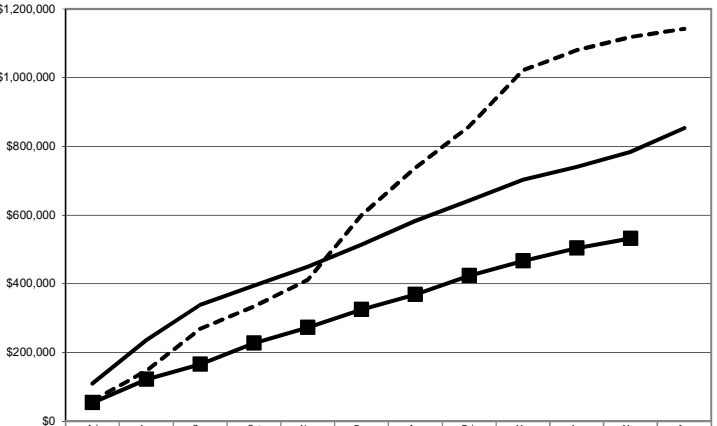
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$1,817	$3,634	$5,451	$7,267	$9,084	$10,901	$12,718	$14,535	$16,352	$18,169	$19,986	$21,802
FY 23 Actual	$1,413	$2,822	$4,256	$5,805	$7,245	$9,272	$11,300	$12,979	$14,669	$16,727	$18,467	$22,375
FY 24 Actual	$1,754	$3,540	$5,104	$7,161	$9,139	$11,074	$13,173	$14,938	$16,696	$18,684	$20,217	

Third Party Revenue

In Thousands



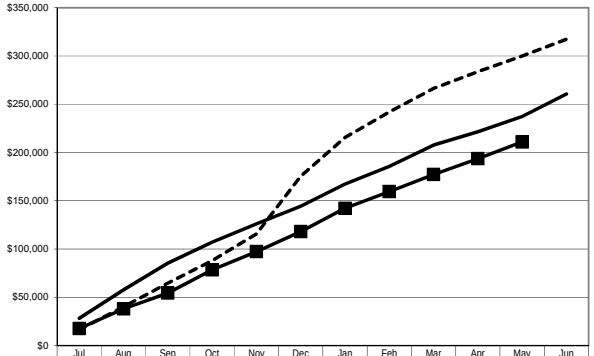
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 23 Budget	$109,829	$236,975	$338,642	$395,122	$450,173	$513,700	$583,371	$642,369	$703,265	$740,769	$784,414	$853,641
FY 23 Actual	$59,959	$146,705	$269,291	$334,517	$412,049	$599,967	$737,676	$858,864	$1,021,950	$1,080,176	$1,118,854	$1,142,483
FY 24 Actual	$53,756	$121,805	$165,352	$227,239	$273,310	$325,349	$368,955	$423,429	$466,826	$504,122	$532,159	

Footnote: Transmission is solely reflective of Independent System Operator (ISO) costs

Annual Budget Cost
Generation Resources Analysis By Source
As of May 31, 2024

NCPA Plants

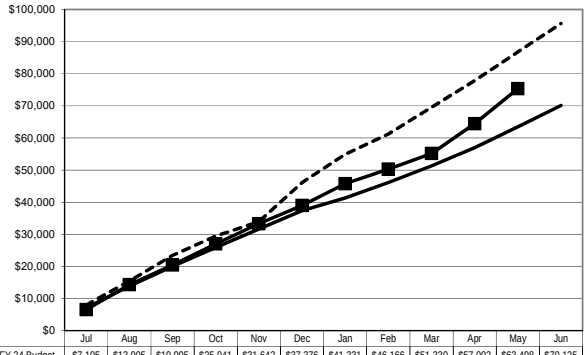
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Revised Budget	$28,308	$57,867	$85,450	$107,166	$126,143	$144,377	$167,300	$185,726	$207,800	$221,514	$237,439	$260,605
FY 23 Actual	$16,530	$40,209	$64,689	$88,077	$115,768	$175,429	$215,581	$241,986	$266,341	$283,847	$300,021	$317,383
FY 24 Actual	$17,728	$38,029	$54,530	$78,467	$97,423	$118,106	$142,222	$159,528	$177,225	$193,666	$211,012	

Member Resources - Energy

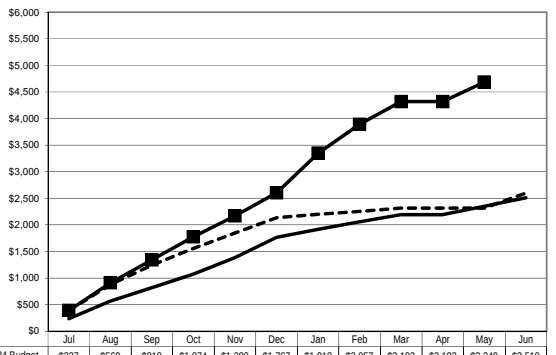
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$7,105	$13,905	$19,995	$25,941	$31,642	$37,376	$41,331	$46,166	$51,330	$57,002	$63,498	$70,125
FY 23 Actual	$7,988	$15,469	$23,456	$29,473	$33,967	$46,118	$54,932	$61,235	$69,553	$77,871	$86,796	$95,613
FY 24 Actual	$6,548	$14,359	$20,475	$27,034	$33,321	$38,967	$45,768	$50,283	$55,164	$64,463	$75,328	

Member Resources - Natural Gas

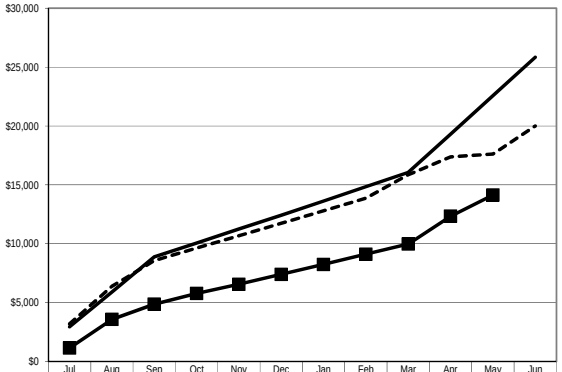
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$237	$569	$818	$1,074	$1,388	$1,767	$1,918	$2,057	$2,192	$2,192	$2,349	$2,510
FY 23 Actual	$388	$879	$1,243	$1,560	$1,849	$2,136	$2,199	$2,255	$2,318	$2,318	$2,318	$2,599
FY 24 Actual	$390	$913	$1,341	$1,776	$2,169	$2,602	$3,350	$3,892	$4,320	$4,320	$4,686	

Western Resources

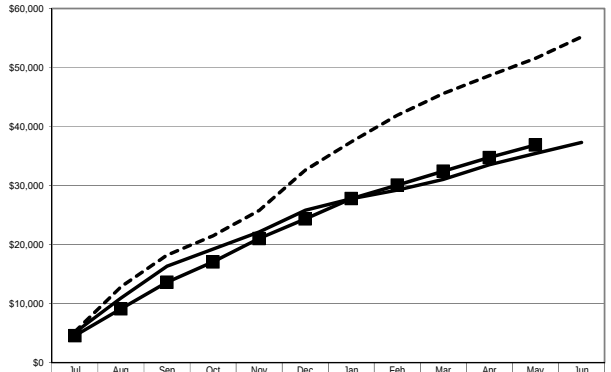
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$2,949	$5,895	$8,880	$10,061	$11,243	$12,422	$13,632	$14,843	$16,053	$19,309	$22,573	$25,839
FY 23 Actual	$3,198	$6,380	$8,568	$9,639	$10,679	$11,741	$12,804	$13,866	$15,860	$17,373	$17,615	$20,002
FY 24 Actual	$1,150	$3,577	$4,865	$5,775	$6,559	$7,401	$8,243	$9,113	$9,977	$12,338	$14,132	

Market Power Purchases

In Thousands

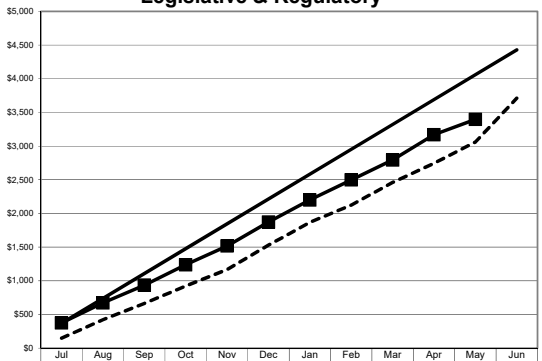


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$5,120	$10,940	$16,365	$19,262	$22,164	$25,822	$27,774	$29,221	$31,044	$33,529	$35,443	$37,309
FY 23 Actual	$5,252	$12,878	$18,245	$21,502	$25,788	$32,623	$37,417	$41,915	$45,603	$48,632	$51,570	$55,193
FY 24 Actual	$4,586	$9,121	$13,636	$17,085	$21,044	$24,353	$27,797	$30,087	$32,443	$34,754	$36,892	

Annual Budget Cost
Management Services Analysis By Source
As of May 31, 2024

In Thousands

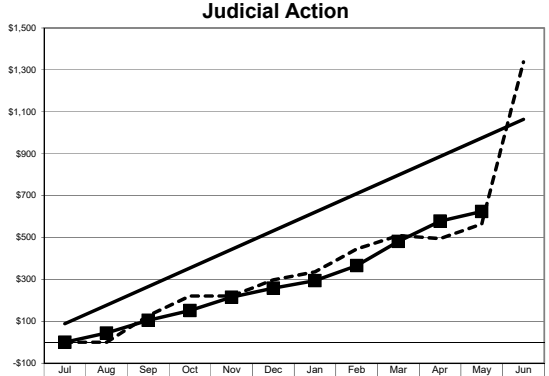
Legislative & Regulatory



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$369	$738	$1,107	$1,476	$1,846	$2,215	$2,584	$2,953	$3,322	$3,691	$4,060	$4,429
FY 23 Actual	$148	$422	$663	$922	$1,168	$1,529	$1,868	$2,126	$2,459	$2,745	$3,062	$3,712
FY 24 Actual	$374	$672	$936	$1,238	$1,517	$1,871	$2,200	$2,498	$2,794	$3,170	$3,397	

In Thousands

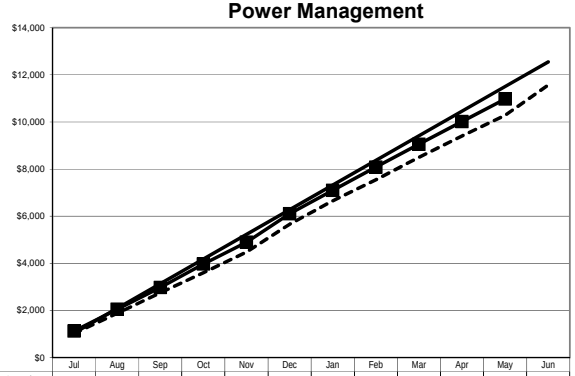
Judicial Action



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$89	$177	$266	$355	$443	$532	$621	$709	$798	$887	$975	$1,064
FY 23 Actual	$-	$-	$127	$221	$221	$298	$336	$445	$509	$495	$564	$1,338
FY 24 Actual	$-	$44	$105	$151	$215	$258	$294	$366	$481	$578	$624	

In Thousands

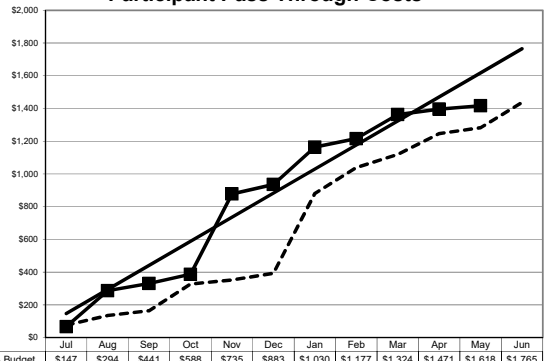
Power Management



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$1,046	$2,092	$3,138	$4,184	$5,230	$6,276	$7,322	$8,368	$9,414	$10,460	$11,506	$12,552
FY 23 Actual	$1,026	$1,882	$2,748	$3,608	$4,480	$5,662	$6,657	$7,553	$8,498	$9,408	$10,287	$11,568
FY 24 Actual	$1,126	$2,052	$2,975	$3,974	$4,897	$6,109	$7,098	$8,084	$9,054	$10,018	$10,973	

In Thousands

Participant Pass Through Costs

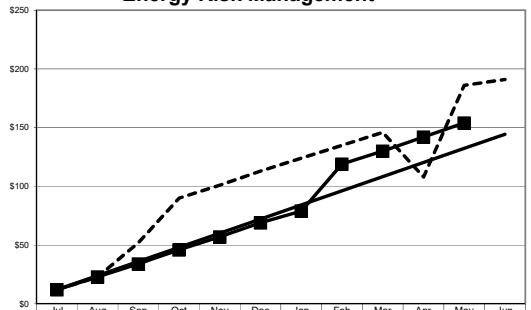


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$147	$294	$441	$588	$735	$883	$1,030	$1,177	$1,324	$1,471	$1,618	$1,765
FY 23 Actual	$76	$135	$164	$328	$352	$393	$881	$1,039	$1,119	$1,246	$1,282	$1,437
FY 24 Actual	$67	$287	$331	$387	$878	$936	$1,164	$1,216	$1,363	$1,396	$1,417	

Annual Budget Cost
Management Services Analysis By Source
As of May 31, 2024

In Thousands

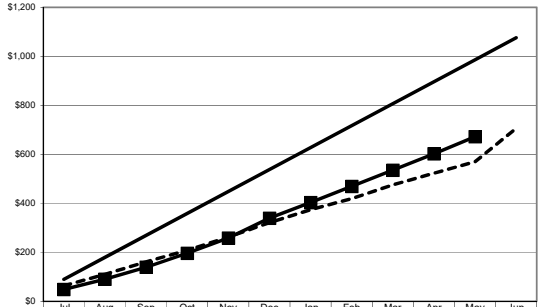
Energy Risk Management



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$12	$24	$36	$48	$60	$72	$84	$96	$108	$120	$132	$144
FY 23 Actual	$12	$23	$52	$90	$101	$113	$124	$135	$146	$108	$186	$191
FY 24 Actual	$12	$23	$34	$46	$57	$69	$79	$119	$130	$142	$154	

In Thousands

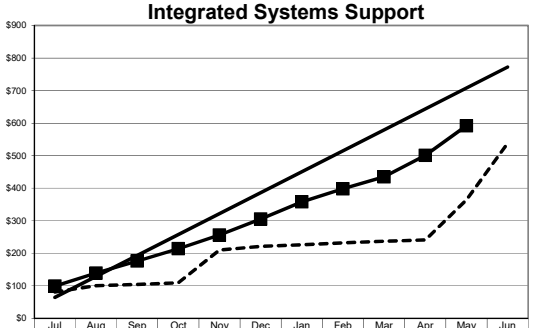
Settlements



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$90	$179	$269	$359	$448	$538	$627	$717	$807	$896	$986	$1,076
FY 23 Actual	$63	$110	$161	$208	$262	$321	$374	$419	$475	$523	$570	$706
FY 24 Actual	$48	$90	$139	$196	$258	$339	$403	$469	$535	$602	$672	

In Thousands

Integrated Systems Support

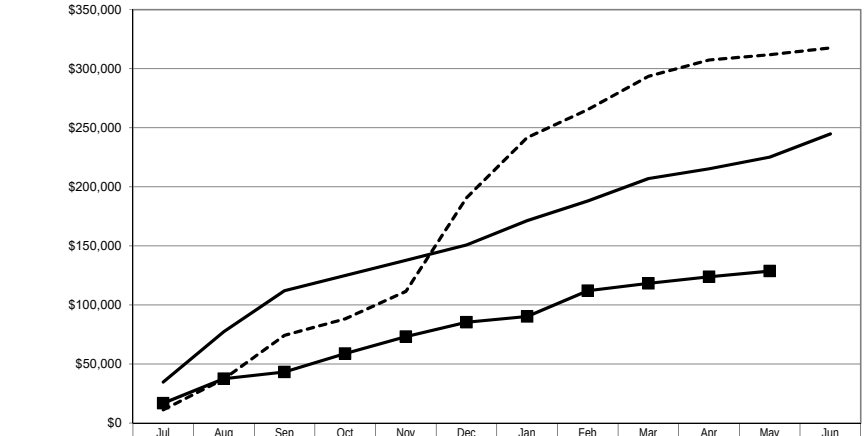


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$64	$129	$193	$257	$322	$386	$451	$515	$579	$644	$708	$772
FY 23 Actual	$81	$100	$104	$109	$210	$221	$226	$232	$237	$241	$364	$538
FY 24 Actual	$99	$139	$176	$214	$256	$305	$358	$398	$435	$501	$592	

Annual Budget Cost
Third Party Revenue Analysis By Source
As of May 31, 2024

Plant ISO Energy Sales

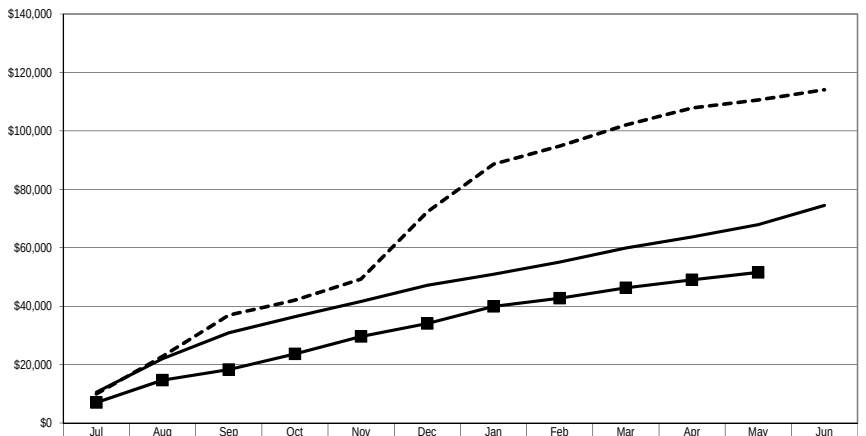
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	34,712	77,333	112,071	124,958	137,841	150,800	171,422	188,009	207,059	215,266	225,199	244,824
FY 23 Actual	$11,193	$37,232	$74,267	$88,244	$111,556	$190,712	$241,677	$265,470	$293,646	$307,459	$311,908	$317,660
FY 24 Actual	$16,818	$37,544	$43,279	$58,890	$73,180	$85,382	$90,245	$112,046	$118,334	$123,898	$128,708	

Member Resource ISO Energy Sales

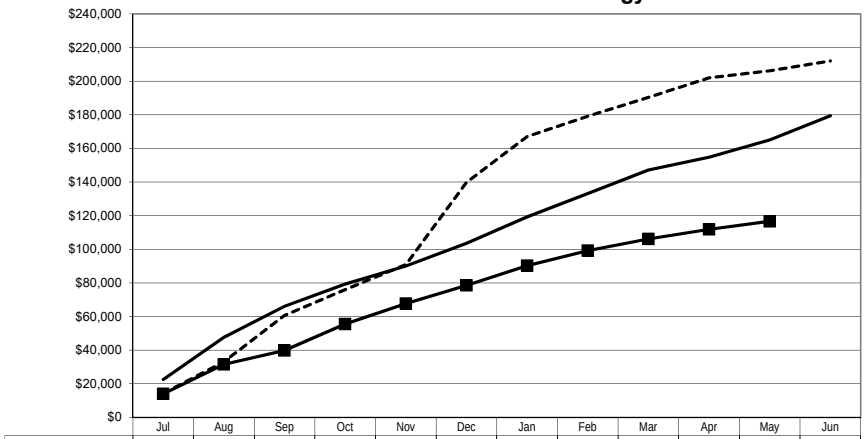
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	10,566	22,030	30,895	36,399	41,620	47,135	50,929	55,089	59,902	63,657	67,914	74,477
FY 23 Actual	$9,959	$22,848	$36,898	$42,054	$49,294	$72,296	$88,592	$94,791	$102,041	$107,842	$110,573	$114,062
FY 24 Actual	$6,996	$14,695	$18,304	$23,636	$29,636	$34,040	$39,909	$42,722	$46,297	$49,020	$51,534	

Member Owned Generation ISO Energy Sales

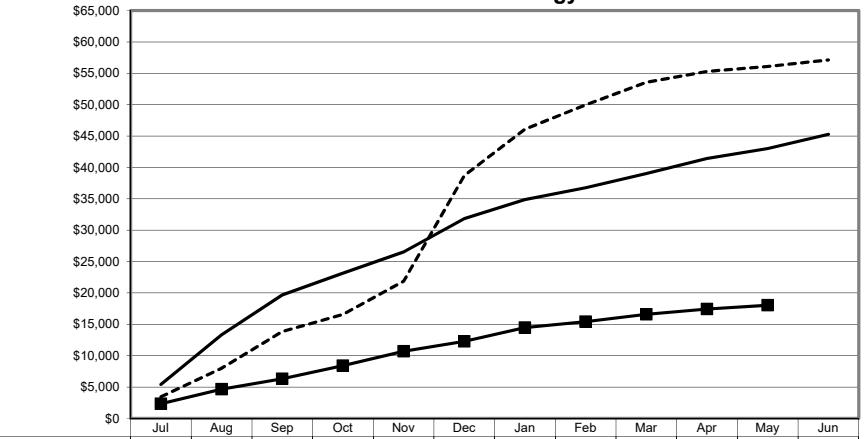
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	22,523	47,578	66,042	79,291	90,096	103,545	119,299	133,138	147,158	154,802	165,021	179,429
FY 23 Actual	$14,212	$33,017	$60,686	$76,006	$90,898	$139,840	$167,094	$179,158	$190,425	$202,003	$206,169	$212,044
FY 24 Actual	$13,963	$31,475	$39,795	$55,497	$67,642	$78,555	$90,260	$99,221	$106,097	$111,870	$116,616	

NCPA Contracts ISO Energy Sales

In Thousands

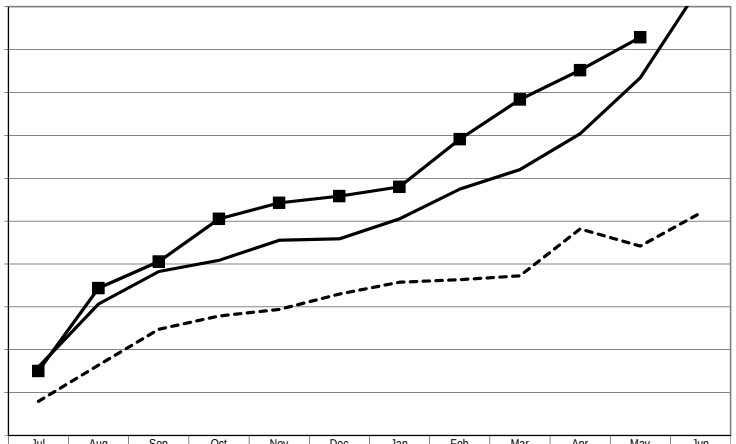


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	5,423	13,335	19,664	23,141	26,530	31,834	34,869	36,751	39,027	41,420	43,013	45,275
FY 23 Actual	$3,439	$8,003	$13,845	$16,565	$21,872	$38,699	$46,089	$49,968	$53,573	$55,306	$56,083	$57,130
FY 24 Actual	$2,329	$4,660	$6,314	$8,406	$10,704	$12,270	$14,469	$15,420	$16,604	$17,428	$18,039	

Annual Budget Cost
Third Party Revenue Analysis By Source
As of May 31, 2024

In Thousands

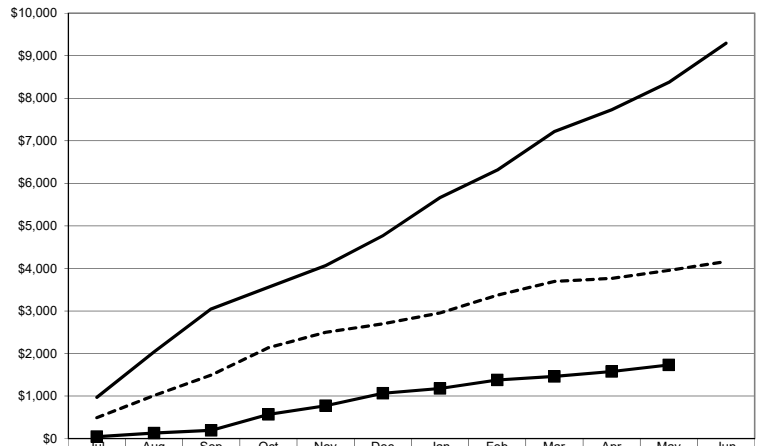
Western Resource ISO Energy Sales



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	4,781	9,201	11,464	12,255	13,652	13,751	15,151	17,238	18,601	21,105	25,027	31,463
FY 23 Actual	$2,382	$4,921	$7,424	$8,351	$8,818	$9,892	$10,717	$10,902	$11,166	$14,446	$13,254	$15,565
FY 24 Actual	$4,508	$10,301	$12,167	$15,156	$16,276	$16,738	$17,395	$20,732	$23,505	$25,553	$27,860	

In Thousands

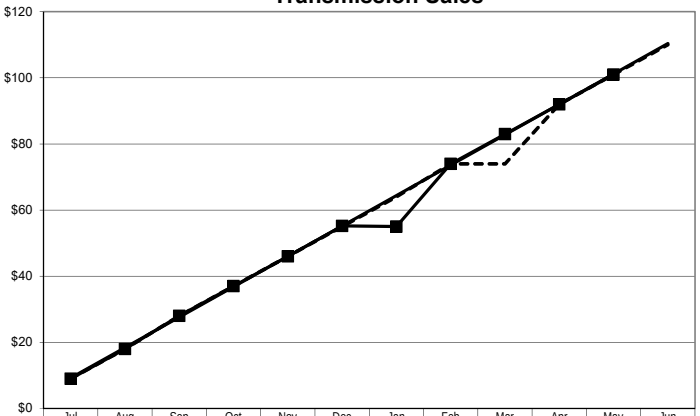
Ancillary Services Sales



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	969	2,041	3,047	3,560	4,067	4,769	5,663	6,313	7,217	7,730	8,374	9,295
FY 23 Actual	$492	$1,013	$1,496	$2,138	$2,498	$2,699	$2,954	$3,372	$3,693	$3,766	$3,953	$4,162
FY 24 Actual	$45	$131	$194	$570	$772	$1,067	$1,180	$1,376	$1,459	$1,576	$1,731	

In Thousands

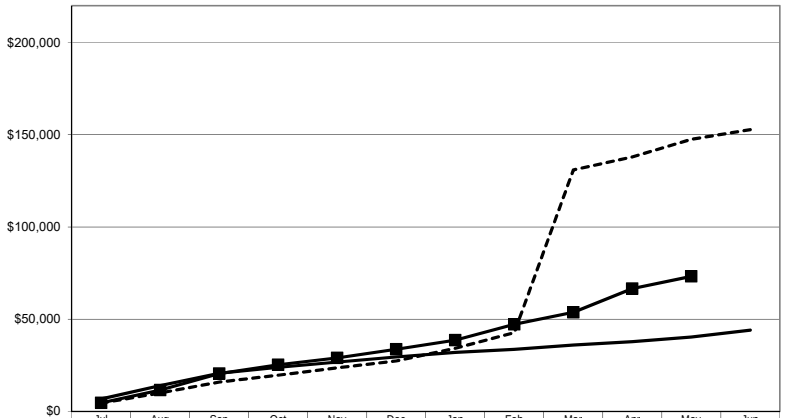
Transmission Sales



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$9	$18	$28	$37	$46	$55	$64	$74	$83	$92	$101	$110
FY 23 Actual	$9	$18	$28	$37	$46	$55	$64	$74	$74	$92	$101	$110
FY 24 Actual	$9	$18	$28	$37	$46	$55	$55	$74	$83	$92	$101	

In Thousands

Western Credits, Interest & Other Income



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	6,768	14,036	20,681	23,882	26,725	29,579	31,926	33,584	35,970	37,784	40,256	44,090
FY 23 Actual	$4,499	$10,045	$15,876	$19,690	$23,649	$27,393	$34,219	$42,754	$130,927	$137,985	$147,509	$152,758
FY 24 Actual	$4,635	$11,598	$20,488	$25,312	$28,987	$33,733	$38,662	$47,220	$53,711	$66,548	$73,214	

Annual Budget
NCPA Generation Detail Analysis By Plant
As of May 31, 2024

Generation Cost Analysis

$ in thousands

	Geothermal				
	Budget	Actual	$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	$ 18,513	$ 21,551	$ 44.28	$ (3,038)	-16%
Capital Assets/Spare Parts Inventories	14,032	7,260	14.92	6,772	48%
Other Costs	12,998	10,458	21.49	2,539	20%
CA ISO Charges	984	934	1.92	49	5%
Debt Service	3,482	3,192	6.56	290	8%
Annual Budget	50,009	43,396	89.17	6,613	13%
Less: Third Party Revenue					
Interest Income	150	693	1.42	(543)	-362%
ISO Energy Sales	65,632	25,148	51.68	40,485	62%
Ancillary Services Sales	-	-	-	-	0%
Effluent Revenues	750	1,296	2.66	(546)	-73%
Misc	113	6,273	12.89	(6,160)	-5447%
	66,646	33,410	68.65	33,236	50%
Net Annual Budget Cost to Participants	$ (16,637)	$ 9,986	$ 20.52	$ (26,623)	160%
Net Generation--MWh @ Meter	732,872	486,650			
$/MWh (A)	$ (27.45)	$ 13.96			

	Hydroelectric				
	Budget	Actual	$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	$ 10,555	$ 8,013	$ 13.65	$ 2,542	24%
Capital Assets/Spare Parts Inventories	6,445	5,350	9.12	1,094	17%
Other Costs	4,706	3,876	6.60	830	18%
CA ISO Charges	1,298	3,767	6.42	(2,470)	-190%
Debt Service	34,646	31,759	54.12	2,887	8%
Annual Budget	57,650	52,766	89.91	4,884	8%
Less: Third Party Revenue					
Interest Income	150	751	1.28	(601)	-401%
ISO Energy Sales	47,892	35,303	60.15	12,590	26%
Ancillary Services Sales	4,579	793	1.35	3,786	83%
Misc	-	727	1.24	(727)	0%
	52,622	37,574	64.02	15,047	29%
Net Annual Budget Cost to Participants	$ 5,029	$ 15,192	$ 25.89	$ (10,163)	
Net Generation--MWh @ Meter	412,142	586,870			
$/MWh (A)	$ (71.86)	$ (28.23)			

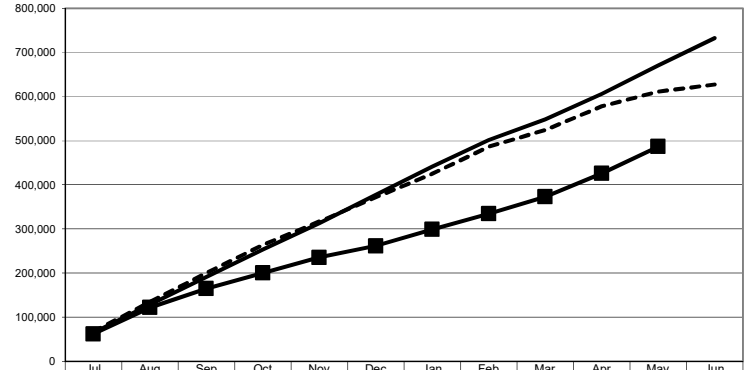
Footnotes:

(A) Aggregate fiscal year generation in $/MWh (excluding debt service)

MWhs Generated

In MWh

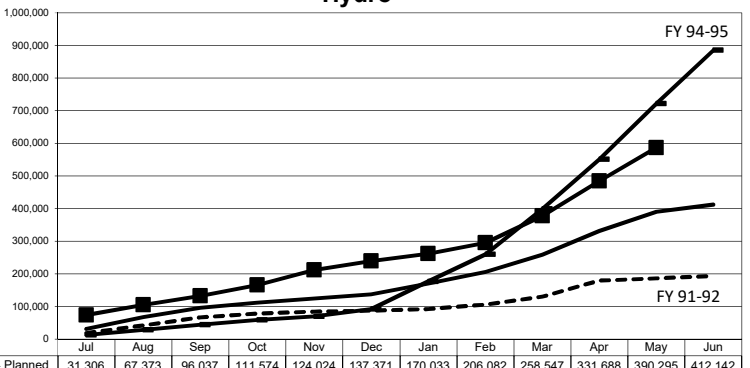
Geothermal



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Planned	64,647	129,252	191,732	253,662	313,140	377,579	441,976	502,179	548,058	606,611	670,752	732,872
FY 23 Actual	67,305	135,145	200,448	264,123	316,898	372,364	425,256	486,356	524,497	577,769	611,088	627,442
FY 24 Actual	62,077	122,167	164,579	200,326	235,368	261,538	298,887	334,519	372,761	425,652	486,650	

In MWh

Hydro



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Planned	31,306	67,373	96,037	111,574	124,024	137,371	170,033	206,082	258,547	331,688	390,295	412,142
Wet	12,676	28,667	44,047	58,599	69,461	91,796	176,896	259,973	398,950	551,071	721,320	885,279
Dry	18,574	41,592	66,527	78,750	84,000	87,598	91,693	105,353	130,546	179,718	185,948	193,288
FY 24 Actual	73,887	104,669	132,421	165,958	212,083	239,329	261,734	295,159	377,452	484,713	586,870	

Annual Budget
NCPA Generation Detail Analysis By Plant
As of May 31, 2024

Generation Cost Analysis

	Lodi Energy Center				
	Budget	Actual	$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	$ 10,580	$ 10,397	$ 11.32	$ 183	2%
Fuel	71,518	38,390	41.81	33,128	46%
GHG Allowance Costs	13,985	14,490	15.78	(505)	-4%
CA ISO Charges and Energy Purchases	1,364	2,964	3.23	(1,601)	-117%
Capital Assets/Spare Parts Inventories	3,913	4,702	5.12	(790)	-20%
Other Costs	9,445	7,748	8.44	1,697	18%
Debt Service	25,992	23,826	25.95	2,166	8%
Annual Budget	136,797	102,518	111.66	34,279	25%
Less: Third Party Revenue					
Interest Income	250	1,222	1.33	(972)	-389%
ISO Energy Sales	123,919	65,941	71.82	57,978	47%
Ancillary Services Sales	2,011	822	0.90	1,188	59%
Transfer Gas Credit	-	-	-	-	0%
GHG Allowance Credits	13,612	14,194	15.46	(582)	-4%
Misc	-	1	0.00	(1)	0%
	139,791	82,179	89.51	57,612	41%
Net Annual Budget Cost to Participants	$ (2,994)	$ 20,338	$ 22.15	$ (23,332)	779%
Net Generation--MWh @ Meter	1,303,566	918,095			
$/MWh (A)	$ (22.24)	$ (3.80)			

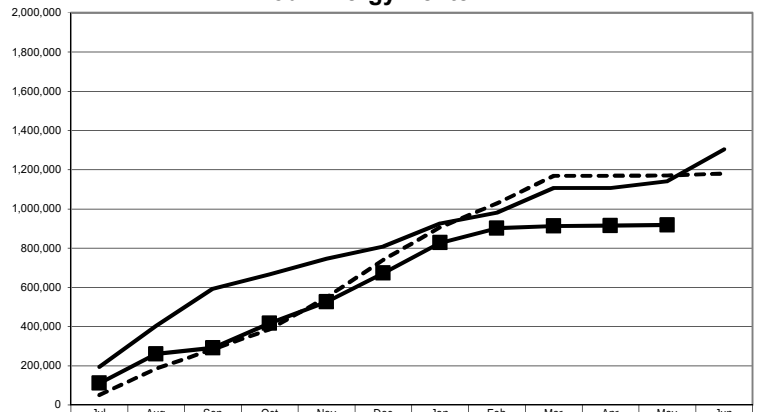
	Combustion Turbine No. 2 (STIG)				
	Budget	Actual	$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	$ 1,674	$ 1,477	$ 223.27	$ 197	12%
Fuel and Pipeline Transport Charges	1,177	279	42.25	898	76%
GHG Allowance Costs	171	-	-	171	100%
Capital Assets/Spare Parts Inventories	390	153	23.09	237	61%
Other Costs	728	520	78.57	209	29%
CA ISO Charges	19	57	8.65	(38)	-199%
Debt Service	5,058	4,637	700.97	422	8%
Annual Budget	9,217	7,123	1,076.80	2,094	23%
Less: Third Party Revenue					
Interest Income	42	213	32.17	(171)	-407%
ISO Energy Sales	2,828	1,074	162.41	1,754	62%
Ancillary Service Sales	-	-	-	-	0%
Fuel and Pipeline Transport Credits	951	1,134	171.46	(183)	-19%
GHG Allowance Credits	171	-	-	171	100%
Misc	-	0	0.02	(0)	0%
	3,992	2,421	366.05	1,570	39%
Net Annual Budget Cost to Participants	$ 5,226	$ 4,701	$ 710.75	$ 524	10%
Net Generation--MWh @ Meter	9,663	6,615			
$/MWh (A)	$ 17.30	$ 9.77			

Footnotes:
(A) Aggregate fiscal year generation in $/MWh (excluding debt service)

MWhs Generated

In MWh

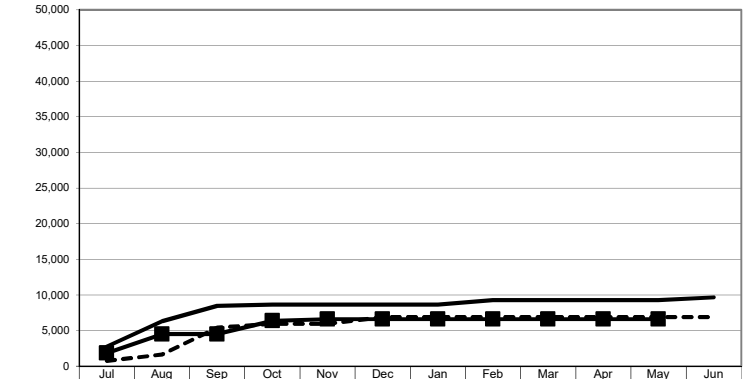
Lodi Energy Center



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Planned	193,876	404,172	592,138	666,048	746,735	807,606	926,244	981,486	1,106,639	1,106,639	1,141,823	1,303,566
FY 23 Actual	50,618	184,204	284,256	385,160	548,746	739,974	906,154	1,027,973	1,168,213	1,168,256	1,170,505	1,180,309
FY 24 Actual	110,534	259,491	291,464	416,544	525,773	671,888	826,906	900,661	912,205	913,813	918,095	

In MWh

CT - 2



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Planned	2,766	6,315	8,480	8,668	8,668	8,668	8,668	9,288	9,288	9,288	9,288	9,663
FY 23 Actual	749	1,635	5,408	5,955	5,955	6,892	6,892	6,892	6,892	6,892	6,892	6,892
FY 24 Actual	1,860	4,522	4,522	6,370	6,615	6,615	6,615	6,615	6,615	6,615	6,615	

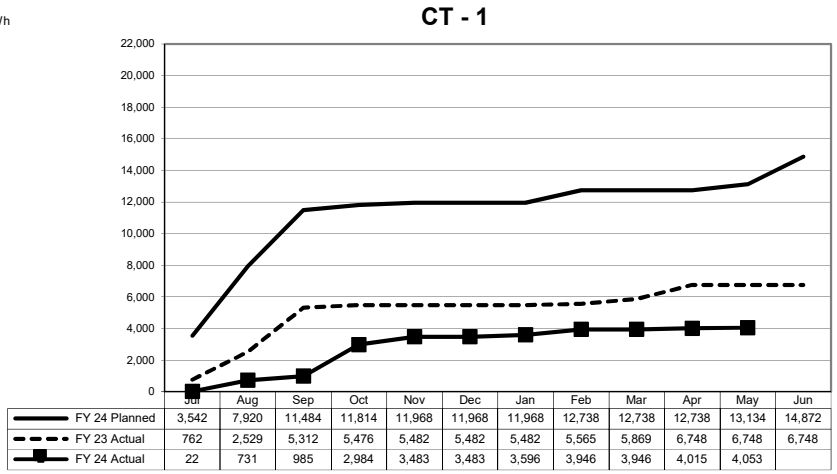
Annual Budget
NCPA Generation Detail Analysis By Plant
As of May 31, 2024

Generation Cost Analysis

	Combustion Turbine No. 1				
	Budget	Actual	$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	$ 2,597	$ 2,267	$ 559.41	$ 330	13%
Fuel and Pipeline Transport Charges	2,388	554	136.64	1,834	77%
Capital Assets/Spare Parts Inventories	1,045	877	216.37	168	16%
Other Costs	852	728	179.71	124	15%
CA ISO Charges	50	310	76.44	(260)	-518%
Debt Service	-	-		-	
Annual Budget	6,932	4,736	1,168.57	2,196	32%
Less: Third Party Revenue					
Interest Income	55	142		(87)	-157%
ISO Energy Sales	4,552	1,242	306.54	3,310	73%
Ancillary Services Sales	-	-	-	-	0%
Misc	-	-	-	-	0%
	4,607	1,384	306.54	3,223	70%
Net Annual Budget Cost to Participants	$ 2,325	$ 3,352	$ 827.09	$ (1,027)	-44%
Net Generation--MWh @ Meter	14,872	4,053			
$/MWh (A)	$ 156.32	$ 827.09			

Footnotes:
(A) Aggregate fiscal year generation in $/MWh (excluding debt service)

MWhs Generated

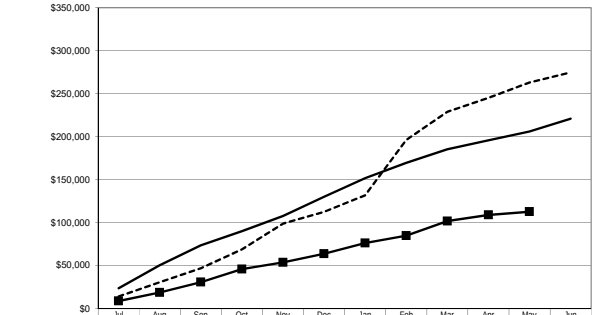


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Planned	3,542	7,920	11,484	11,814	11,968	11,968	11,968	12,738	12,738	12,738	13,134	14,872
FY 23 Actual	762	2,529	5,312	5,476	5,482	5,482	5,482	5,565	5,869	6,748	6,748	6,748
FY 24 Actual	22	731	985	2,984	3,483	3,483	3,596	3,946	3,946	4,015	4,053	

Annual Budget Cost
NCPA Customers
As of May 31, 2024

Gross Load Cost (Customer) [1]

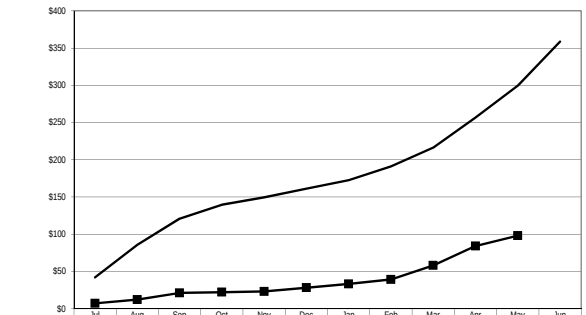
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$23,656	$50,503	$73,460	$90,071	$107,843	$130,190	$151,699	$169,554	$185,336	$195,749	$206,080	$220,937
FY 23 Actual	$14,115	$30,757	$46,824	$68,935	$98,803	$112,541	$131,831	$196,155	$228,974	$245,076	$262,923	$274,700
FY 24 Actual	$8,798	$18,733	$30,788	$45,965	$53,744	$63,805	$76,294	$84,916	$101,809	$108,965	$112,655	

Member Resources - Energy (Customer) [2]

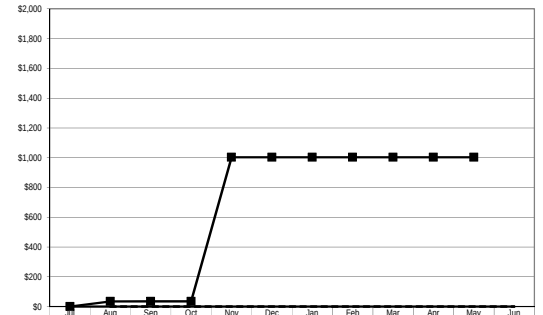
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$42	$86	$121	$139	$149	$161	$173	$191	$216	$257	$299	$359
FY 23 Actual												
FY 24 Actual	$7	$12	$21	$22	$23	$28	$33	$39	$58	$84	$98	

Net GHG (Customer) [2]

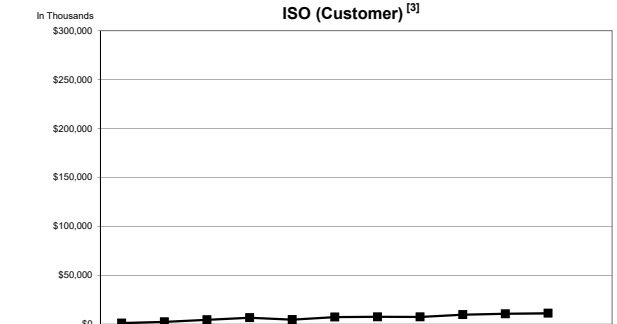
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
FY 23 Actual		$-	$-	$-	$-	$-	$-	$-	$-	$-	$-	$-
FY 24 Actual	$-	$35	$35	$35	$1,003	$1,003	$1,003	$1,003	$1,003	$1,003	$1,003	

ISO (Customer) [3]

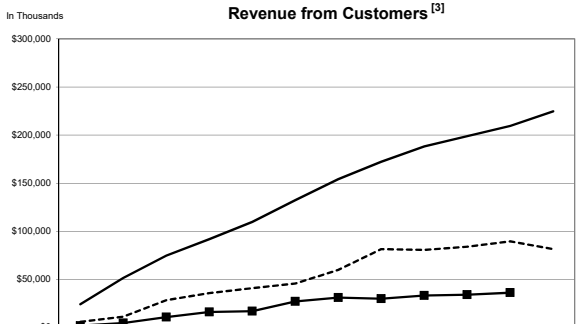
In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 23 Budget												
FY 23 Actual												
FY 24 Actual	$1,242	$2,487	$4,544	$6,764	$4,755	$7,373	$7,629	$7,601	$9,818	$10,735	$11,267	

Revenue from Customers [3]

In Thousands



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	24,077	51,403	74,751	91,599	109,596	132,231	154,046	172,176	188,249	198,913	209,508	224,678
FY 23 Actual	$5,761	$11,073	$28,247	$35,514	$40,697	$45,507	$59,685	$81,387	$80,589	$83,933	$89,429	$81,385
FY 24 Actual	$1,717	$4,461	$10,625	$15,974	$16,777	$26,903	$30,891	$29,739	$33,153	$33,913	$36,031	

Notes: 1 Energy purchased by customers
2 Power generators and customer owned resources
3 Pertains to all customers