



Northern California Power Agency  
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# BUSINESS PROGRESS REPORT

**2024**

*July*

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# Generation Costs & Reliability

## Combustion Turbine Project

### Unit Operation for June 2024

Unit	Availability		Production			Reason for Run
CT1 Alameda	Unit 1	Unit 2	Unit 1	0.0	MWh	No Runs. / No Runs.
	100.0%	100.00%	Unit 2	0.0	MWh	
Curtailments, Outages, and Comments:						
Unit 1:	6/14 @ 05:00 - 6/17 @ 15:59; AT&T comms issue, 3-hour minimum start enacted, OMS 15974281.					
Unit 2:	6/14 @ 05:00 - 6/17 @ 15:59; AT&T comms issue, 3-hour minimum start enacted, OMS 15974284.					
Unit	Availability		Production			Reason for Run
CT1 Lodi	100.00%		100.5 MWh			CAISO
Curtailments, Outages, and Comments:						
06/20 @ 08:30-12:00; Telemetry-only outage for comms testing, OMS 16010227.						
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	100.0%		8,181 MWh			CAISO
Curtailments, Outages, and Comments:						
Normal Operation.						

**Maintenance Summary – Specific per asset above.**

## Geothermal Facilities

### Availability/Production for June 2024

Unit	Availability		Net Electricity Generated/Water Delivered		Out-of-Service/Descriptors
<b>Unit 1</b>	100	%	29,354	MWh	Unit 1 was in service all 30 Days of June.
<b>Unit 2</b>	0	%	0	MWh	Unit 2 currently in outage with a 7/31/2024 return to service date.
<b>Unit 3</b>	N/A	%	N/A	-	Unit 3 remains out of service.
<b>Unit 4</b>	100	%	26,894	MWh	Unit 4 was in service all 30 days of June.
<b>Southeast Geysers Effluent Pipeline</b>	100	%	194.3	mgallons	Average flow rate: 4,400 gpm
<b>Southeast Solar Plant</b>	N/A		57,568	KWh	Year-to-date KWh: 1,158,168
<b>Bear Canyon Pump Station Zero Solar</b>	N/A		3,790	KWh	Year-to-date KWh: 666,738

\* Accounts for an additional 0 MWh of house load for the 21KV power supply to the effluent pipeline supplied from Unit #2.

## Hydroelectric Project

### Availability/Production for June 2024

Units	Availability	Net Electricity Generated	Out-of-Service
<b>Collierville Unit 1</b>	97.38%	15,650 MWh	OMS 15998169 – CV1 station offline for Aero fire TIGO. TIGO started on 6/17/24 at 1658 and ended on 6/18/24 at 1151.
<b>Collierville Unit 2</b>	97.33%	7,849 MWh	OMS 15998660 – CV2 station offline for Aero fire TIGO. TIGO started on 6/17/24 at 1658 and ended on 6/18/24 at 1151.
<b>Spicer Unit 1</b>	100%	1000 MWh	
<b>Spicer Unit 2</b>	100%	341 MWh	
<b>Spicer Unit 3</b>	100%	248 MWh	

### Operations & Maintenance Activities:

- CMMS work orders
- Crew annual training –92% complete
- Hydro Tech Operator cross training
- NSM campground opened, water line repaired, water system certified
- All USFS identified hazard trees at upper reservoirs mitigated
- 230kv vegetation maintenance -90% complete
- Exploring additional soil relocation locations for McKays Sediment Removal Project
- Oily Water Separator Project: design complete, parts on order
- McKays Water Handling Project: design complete, parts on order, installation in July/August
- Alpine dam handrail project; construction -over 60% complete
- New Spicer Reservoir spillway repairs -40% complete
- Road Maintenance at McKays Point, Union, and Utica access roads - 100% complete
- FERC approved NSM Comprehensive Assessment Inspection Plan
- Publicly bid NSM drinking water tank recoating 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 June.
- 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 June 29, 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.

### **June 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	1,327	369	111	4,356
Work Hours Since Last Recordable	115,921	73,909	27,365	3,107,231
LTA's (this month)	0	0	0	0
LTA's (calendar year)	0	0	0	0
Days without LTA	6,106	388	11,276	7,369
Work Hours without LTA	548,436	74,273	952,807	2,729,246
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 June 29, 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

	June 2024		Calendar Year 2024	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	434.07 6/5 @ 1800	202,419	434.07 6/5 @ 1800	1,141,812
SVP	657.24 6/5 @ 1700	392,571	657.24 6/5 @ 1700	2,306,379
MSSA	1090.48 6/5 @ 1700	594,990	1090.48 6/5 @ 1700	3,448,191

#### Last Year 2023 Data\*

	June 2023		Calendar Year 2023	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	381.08 6/30 @ 1800	178,877	440.7 8/15 @ 1700	1,094,132
SVP	612.72 6/30 @ 1600	374,199	669.22 8/23 @ 1600	2,243,954
MSSA	988.2 6/30 @ 1700	553,076	1103.22 8/23 @ 1700	3,338,086

\*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	434.07 6/5 @ 1800
SVP	687.74 MW on 9/6/22 @ 1300	657.24 6/5 @ 1700
MSSA	1176.20 MW on 9/6/22 @ 1400	1090.48 6/5 @ 1700

- 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		
	June 2024	Calendar Year 2024
MSSA % Within the Band	99.02%	98.73%

**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 June 2024 were 202,420 MWh versus the budget forecast of 199,532 MWh, resulting in a forecast error of 1.43%. The weather outlook for the remainder of July is for above average temperatures and near normal precipitation. The Pool's July load forecast is 212,739 MWh compared with extrapolated actuals of 234,152 MWh as of July 15, 2024.
- Lodi Energy Center (LEC) ran 35 hours and produced 8,183 MWh during June 2024. LEC has already produced 51,004 MWh from July 1, 2024 through July 14, 2024. The plant is expected to run every day over the evening peak through the end of July.
- During June 2024, 0.00" of rain was recorded at the Big Trees gauge. June average rainfall at Big Trees is 0.45".
- The Value of Storage (VOS) of New Spicer Meadow Reservoir (NSMR) has been increased from \$90/MWh to \$100/Mwh. Releases from NSMR ranged from 90cfs up to 300cfs during June.
- New Spicer Meadows storage as of June 30, 2024 was 184,055 acre-feet. The historical average storage at the end of June is 149,112 acre-feet. As of July 10<sup>th</sup>, storage was 178,052 acre-feet (94.2% of capacity of 189,000acft).
- Combined Calaveras Project generation for the Pool in June 2024 totaled 12,469 MWh, down from 52,029 MWh in May 2024.
- Western Base Resource (BR) deliveries for the Pool during June 2024 were 69,484 MWh. The Displacement Program provided an additional hedge of 4,511 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 July 2024 is 87,500 MWh, with 42,377 MWh having been delivered as of July 15, 2024. The WAPA displacement has delivered an additional 134 MWh.
- The PG&E Citygate gas index averaged \$2.15 / MMBtu during the month of June 2024 as compared to an average of \$2.23 for May. PG&E Citygate index has averaged \$2.94 / MMBTUs during the period of July 1 through 15, 2024. PG&E Citygate forward price for August 2024 is \$3.43 / MMBtu.
- Day-Ahead PG&E DLAP electricity prices during June averaged \$29.35 / MWh on-peak and \$25.27 off-peak, with a high of \$85.32 and a low of -\$14.43. For the period of July 1<sup>st</sup> through the 15<sup>th</sup> on-peak prices have averaged \$72.14 on-peak and



\$44.74 off-peak, with a low of \$19.96 and a high of \$648.77. The NP15 forward power prices for August 2024 are \$71.55 on-peak and \$46.80 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 September 2024:
  - Monthly System Resource Adequacy Demonstration (filed July 18, 2024)
  - Monthly Supply Plan (filed July 18, 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:

### Price Formation Enhancements – rules for bidding above the soft offer cap

This initiative will explore several topics related to price formation in the California ISO markets focused on real-time market pricing. Scarcity prices are important to attract supply and incent resources to be available and perform. They are also important to provide appropriate price signals to reduce demand. Recent energy shortages and associated prices in the ISO real-time market have emphasized the need for the ISO to review and enhance its scarcity pricing provisions. Consequently, the ISO plans to consider the following topics in this initiative: (1) enhance real-time market scarcity pricing to better reflect tight supply conditions, (2) consider fast-start pricing, and (3) enhance how the real-time market uses advisory prices to dispatch resources.

The ISO Board of Governors and WEIM Governing Body approved the change to the rules for bidding above the soft offer cap on 5/22/2024

- FERC Order No. 831 allowed resources to submit offers above \$1,000/MWh, and offers up to \$2,000/MWh to set prices, so long as the costs underlying those offers are verified.
- While these provisions apply to all resource types, Order No. 831 and the ISO's cost verification process did not specifically contemplate how to verify the costs of resources with a limited amount of energy, for which the cost of producing in a given hour may be the revenues foregone from not producing in a future hour.
- Resources with intra-day opportunity costs struggle to preserve limited energy for highest price hours.
- These resources may not be able to maintain day ahead market schedules when real-time prices exceed the soft offer cap.

- Changes:
  - 1) CAISO will remove the \$1,000/MWh cap on default energy bids for all resources in both the DAM and RTM. Particularly relevant for resources using Hydro DEBs.
  - 2) Modify real-time bid cap for energy storage resources to provide additional bidding flexibility
    - Allow bidding up to higher of 4th-highest hourly maximum import bid price value and highest cost verified bid, when either value rises above \$1,000/MWh.

CAISO to implement changes as soon as possible later this summer following structured market simulations that NCPA will participate in.

### 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.

### June 18, 2024 RAMPD Working Group:

- CAISO proposing to move topics from working group discussions to policy development in three parallel tracks:
  - Track 1: Modeling, Defaults, and Accreditation
    - Loss of Load Expectation (LOLE) modeling
    - Default Planning Reserve Margin (PRM) and default counting rules
    - Development of unforced capacity (UCAP) RA qualifying capacity counting mechanism, in collaboration with the CPUC and other LRAs.
    - Ambient derates due to temperature
  - Track 2: Outage and Substitution & Availability and Incentive Mechanisms
    - Outage and substitution processes
    - Availability and performance incentives
    - Overlapping existing must-offer obligation (MOO) and bid insertion rules
  - Track 3: Backstop Reform
    - ISO's visibility into available backstop capacity
    - Transparency to stakeholders on backstop decision making
    - Enhanced backstop product and processes
    - Longer term solutions to the ISO BAA RSE in curing deficiencies and assigning costs
  - Continued Working Group Topics:
    - Requirements for RA Capacity (energy sufficiency, Flex RA)
    - Deliverability
    - Continued assessment of interoperability with existing and emerging RA programs
- NCPA submitted comments generally in support of moving items to policy development while others remain in the working group stage, with caveats, primarily preservation of the jurisdictional rights of municipalities and other non-CPUC jurisdictional entities.

## Western

Western Base Resource Tracking - NCPA Pool							
	Actual			Costs & Rates			
	BR Forecast <sup>1</sup> (MWh)	BR Delivered (MWh)	Difference (MWh)	Base Resource & Restoration Fund (\$)	Monthly Cost of BR <sup>2</sup> (\$/MWh)	CAISO LMP Differential <sup>3</sup> (\$/MWh)	12-Mo Rolling Avg. Cost of BR <sup>4</sup> (\$/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	10,582	\$1,252,357	\$ 16.19	\$ 2.65	\$ 18.23
Jun-24	70,929	73,995	3,066	\$1,252,357	\$ 16.92	\$ 2.12	\$ 18.10

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 73,995 MWh of Base Resource (BR) energy in June 2024. This includes displaced energy of 4,511 MWh. The estimated MEEA savings is about \$146,960 and \$24,811 of displacement savings.
- 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) submitted the 2024 Annual Update IRP report to WAPA on June 24, 2024 and the report was accepted by WAPA the same day.
- 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). Bid into EDAM and schedules into CAISO directly, rather than import.
        - 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 has held two EDAM customer meetings so far. There are two more meeting scheduled for this Summer (July 31, 2024 and August 22, 2024).
- WAPA noted that they would need customer input for Displacement program. WAPA and customers to have a separate call to discuss the Displacement program later this year.

## **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; awaiting FERC decision.

### **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 Settlement Phase**

- July 25 and 26 (9-3PT) – technical conference with PG&E
- Aug 16 – JIs and Trial Staff are to provide offers to PG&E
- Aug 27 – settlement conference
- Aug 30 – PG&E will provide JIs and Trial Staff with a counteroffer
- Sept 3 – Status report to Settlement Judge
- Sept 17 and 18 – potential in person Settlement in DC, at FERC

### **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 9<sup>th</sup> 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

	2024 Rate	2025 Est Rate	Rate Change (%)
HV TAC	\$ 11.62	\$ 13.71	18%
LV TAC	\$ 18.47	\$ 21.67	17%

### **PG&E and SCE RY2025 Annual Updates**

- Next steps in PG&E and SCE RY2025 Annual Updates
  - NCPA cost of service consultant is tasked with performing a technical analysis to determine major contributing factors to the rate increases.
  - Numbers are subject to change especially since PG&E and SCE have not filed their 2025 Transmission Revenue Balancing Accounts.
  - Joint Interveners (including NCPA) will engage in the 2025 TRR review process to negotiate with PG&E and SCE over amounts found to be excessive or unsupported.

### **Debt and Financial Management**

- The Consumer Price Index (CPI) declined 0.1% in June putting the 12-month rate at 3%. This marked the lowest level in more than three years providing further cover for the Federal Reserve to start lowering interest rates later this year.
- Following the CPI report, Federal Reserve Chair Jerome Powell provided testimony on Capitol Hill where he said the Fed viewed the risks between rising inflation and a slowing economy to be more balanced now. He also said the bank did not need to wait for inflation to reach its 2% target before cutting rates.
- The Federal Reserve has a policy meeting at the end of July, but a rate cut is seen as unlikely at that time. Traders have instead focused on the September meeting as a potential cut.

## **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. Recently the following SCADA integrations have been completed within the last month:
  - Lodi Strategic Reserve
  - NID Deer Creek Controls
  - Scarlett 1A BESS
  - YellowPine 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 this summer.
- The IS team replaced the old T1 circuit at the Biggs 60 metering site with a new cellular communications network. This has increased reliability and visibility to the site.
- Operations and Support worked with CT staff to upgrade the LodiCT Internet circuitry to effectively double their speed. Additionally, new firewalls were installed as the old ones were no longer supported.

### **Software Development**

- Scheduling and bidding applications support activities:
  - Yellow Pine Co-located PV Resource Integrations for San Jose to begin bidding in the DA/RT market at the end of July 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)
  -
- The IS team continues to provide technical support and coordination for Accounting on the major GL Code Restructuring project.
- IS staff are assisting in cooperation with Accounting in gathering FY 2024 audit info/reports for the auditors.

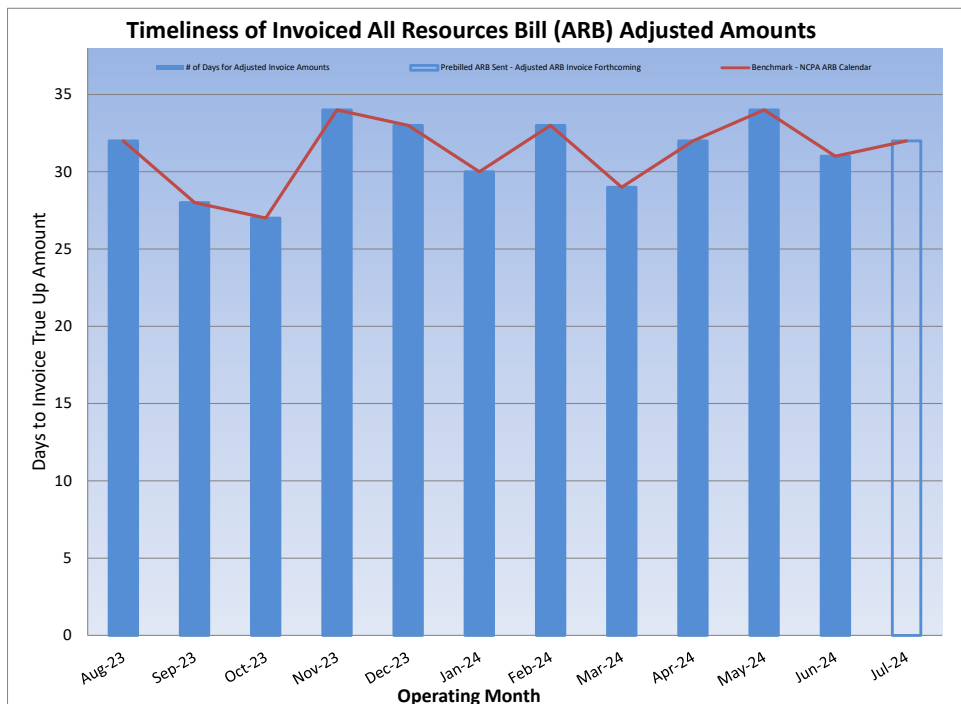
## **NCPA Bills & Settlements**

### **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 July 2024 NCPA All Resources Bill (ARB) monthly invoice sent to members on June 25, 2024 contains:

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





## **Legislative & Regulatory**

### **Legislative Update:**

- NCPA hosted a Legislative Staff Tour for both Federal and State staffers on July 15-18, 2024. The tour started with a focused day for three Federal staffers to discuss California's energy agenda and hydrogen policy at the State Capitol, CAISO, and LEC. The following three days of the tour included both Federal and State staffers on a tour of Redding Electric Utility, Shasta Lake, Plumas-Sierra Rural Electric Co-op, Truckee Donner Public Utilities District, and Roseville's Utility Exploration Center. The tour highlighted public power's unique role in providing clean reliable power for its communities, and provided information on relevant issues pertaining to federal hydropower, hydrogen, wildfire, electrification, and regional markets. We are so grateful for the NCPA Commissioners, Utility Directors, and utility staff representatives who dedicated their time to make this year's tour a success!

## **Human Resources**

### **Hires:**

- Tim Holley joined NCPA's Geothermal Facility as an Operator Technician III (Steam Field), effective July 8, 2024. Tim joins us from Calpine, where he was an IC&E Technician III. In this role, he was responsible for the steam turbine power plant, wiring, installing scaling pressure transmitters, and maintaining relays. Previously, Tim worked at Calpine as an Operator Technician III and Senior Console Operator II, where he performed lock-out tag out, managed steam production wells, performed plant troubleshooting and inspections of injection pumps, and operated a distributed control system. Tim brings 19 years of experience.
- Ryan Mooney joined NCPA's Geothermal Facility as Plant Engineer III, effective July 15, 2024. Ryan joins us from Calpine where he was a Plant Engineer. In this role, he was responsible for plant improvement opportunities and led initiatives to enhance efficiency, collaborating with vendors and stakeholders to develop reliability improvement projects, managing major maintenance projects to repair or replace critical plant equipment, leading root cause analyses, and ensuring compliance with environmental and safety regulations. Previously, Ryan worked at the U.S. Army DEVCOM Armaments Center where he was a Project Engineer. Ryan holds a Bachelor of Science degree in Chemistry from Stockton University and a Bachelor of Science degree in Chemical Engineering from Rutgers University. Ryan brings 4 years of experience.

### **Intern Hires:**

- Katy Kasparian joined NCPA Headquarters on June 24, 2024, as a Student Assistant III (Accounting).

### **Promotions:**

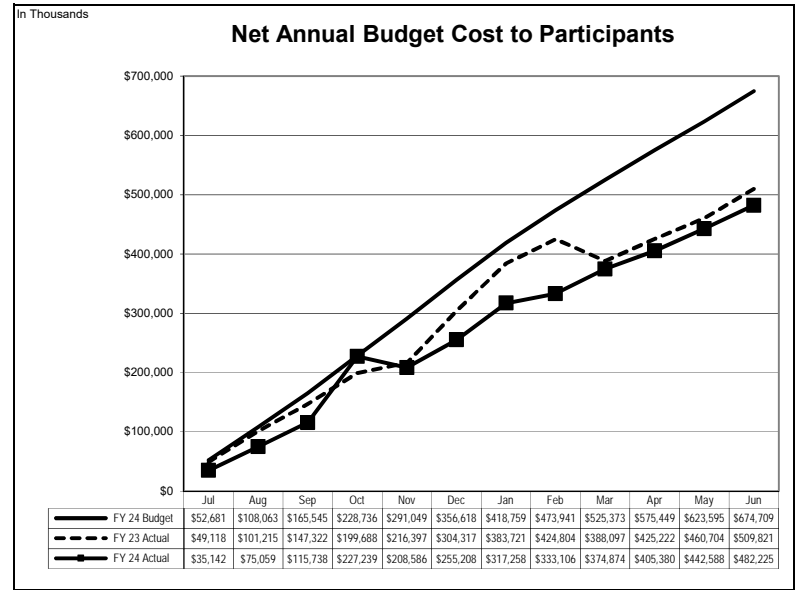
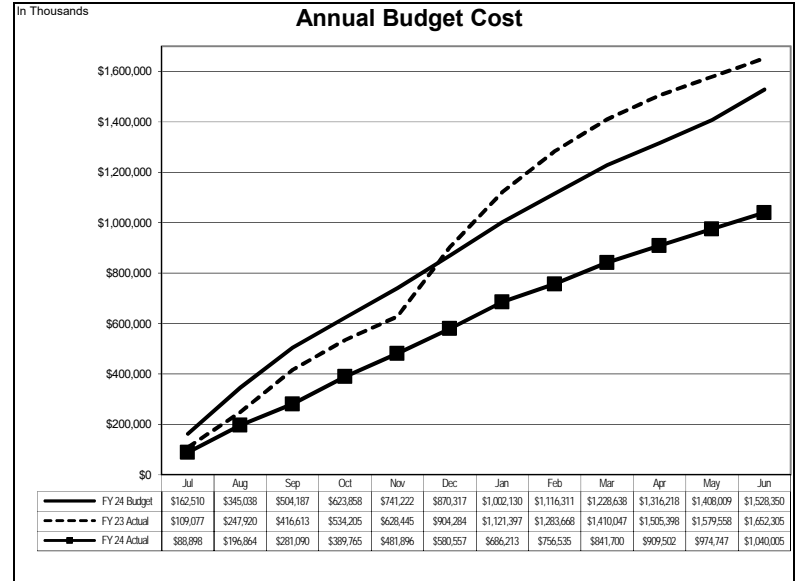
- None.

### **Separations:**

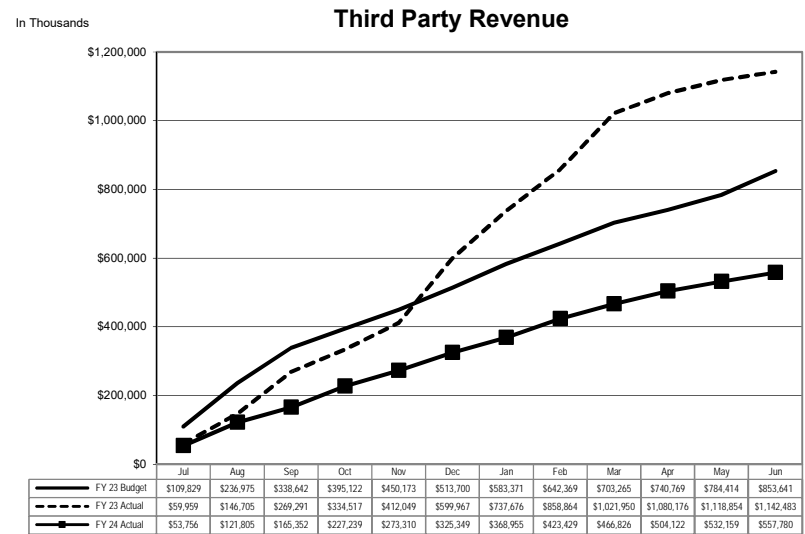
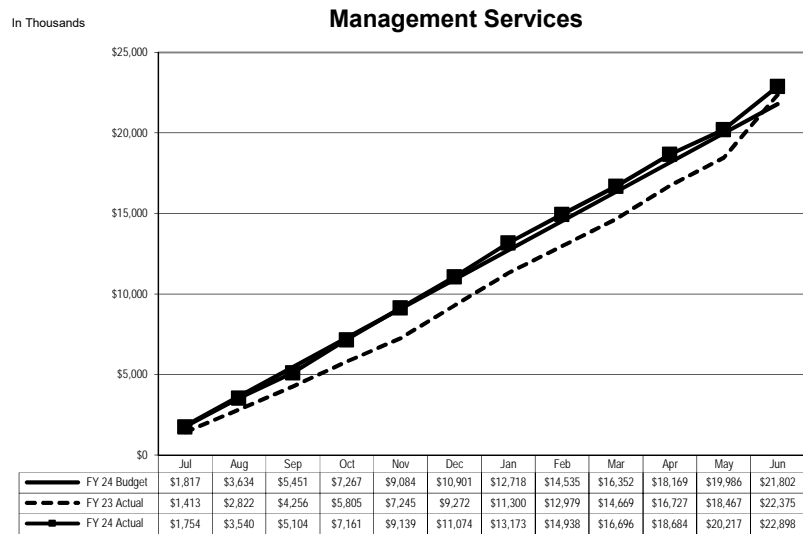
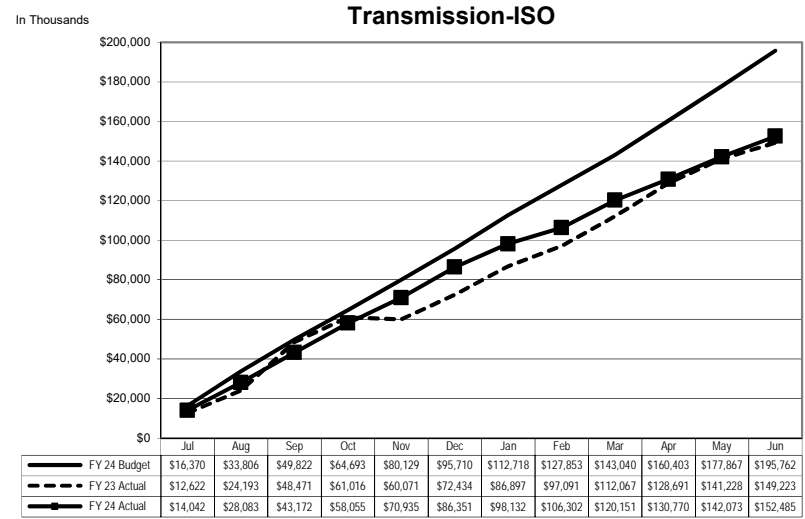
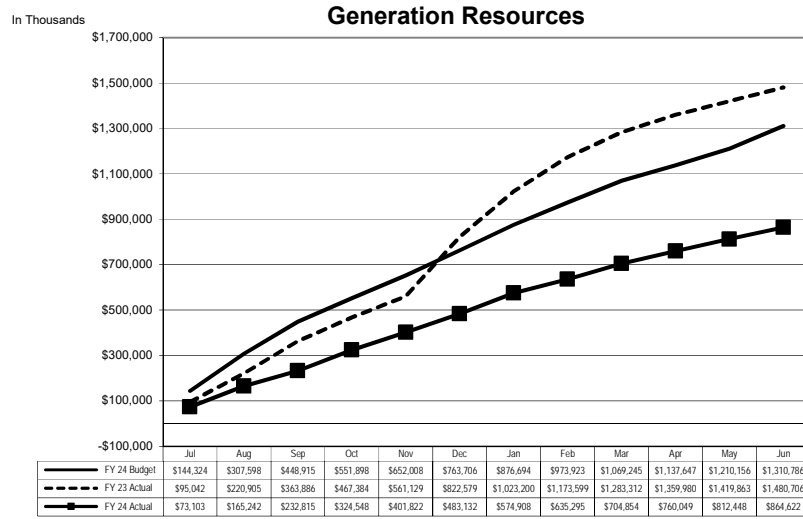
- Vicki Johnson retired from her position as Accountant/Analyst III at NCPA Headquarters on July 10, 2024, after 13 years of service.

**Annual Budget  
2023-2024 Fiscal Year To Date  
As of June 30, 2024**

In Thousands	Program			
	Budget	Actual	Under(Ovr) Budget	YTD % Remaining
<b>GENERATION RESOURCES</b>				
<b>NCPA Plants</b>				
Hydroelectric	57,650	58,738	\$ (1,088)	-2%
Geothermal Plant	50,009	48,547	1,462	3%
Combustion Turbine No. 1	6,932	5,182	1,750	25%
Combustion Turbine No. 2 (STIG)	9,217	8,303	914	10%
Lodi Energy Center	136,797	107,060	29,737	22%
	260,605	227,830	32,775	13%
<b>Member Resources - Energy</b>	70,125	83,914	(13,789)	-20%
<b>Member Resources - Energy (Customer)</b>	359	97	261	73%
<b>Member Resources - Natural Gas</b>	2,510	5,082	(2,572)	-102%
<b>Western Resource</b>	25,839	16,133	9,707	38%
<b>Market Power Purchases</b>	37,309	39,242	(1,933)	-5%
<b>Gross Load Costs</b>	691,439	372,483	318,956	46%
<b>Gross Load Costs (Customer)</b>	220,937	115,772	105,165	48%
<b>Net GHG Obligations</b>	1,363	3,066	(1,703)	-125%
<b>Net GHG Obligations (Customer)</b>	-	1,003	(1,003)	-
<b>Preliminary Surveys and Investigations</b>	300	-	300	100%
	1,310,786	864,622	446,164	34%
<b>TRANSMISSION</b>				
Independent System Operator	195,762	141,548	54,214	28%
Independent System Operator - Customer	-	10,937	(10,937)	-
	195,762	152,485	43,277	22%
<b>MANAGEMENT SERVICES</b>				
<b>Legislative &amp; Regulatory</b>				
Legislative Representation	2,250	2,182	68	3%
Regulatory Representation	763	886	(123)	-16%
Western Representation	768	524	244	32%
Customer Programs	649	522	127	20%
	4,429	4,114	316	7%
<b>Judicial Action</b>	1,064	815	249	23%
<b>Power Management</b>				
System Control & Load Dispatch	7,900	7,749	151	2%
Forecasting & Prescheduling	2,891	2,859	32	1%
Industry Restructuring	392	399	(7)	-2%
Contract Admin, Interconnection Svcs & Ext. Affairs	1,176	1,200	(23)	-2%
Gas Purchase Program	79	66	13	16%
Market Purchase Project	113	89	24	21%
	12,552	12,363	189	2%
<b>Energy Risk Management</b>	144	139	6	4%
<b>Settlements</b>	1,076	830	246	23%
<b>Integrated System Support</b>	772	374	398	52%
<b>Participant Pass Through Costs</b>	1,765	1,674	91	5%
<b>Support Services</b>	-	2,590	(2,590)	-
	21,802	22,898	(1,096)	-5%
<b>TOTAL ANNUAL BUDGET COST</b>	1,528,350	1,040,005	488,345	32%
<b>LESS: THIRD PARTY REVENUE</b>				
<b>Plant ISO Energy Sales</b>	244,824	131,973	112,851	46%
<b>Member Resource ISO Energy Sales</b>	74,477	54,662	19,815	27%
<b>Member Owned Generation ISO Energy Sales</b>	179,429	123,234	56,194	31%
<b>Revenue from Customers</b>	70,212	32,944	37,269	53%
<b>Customer Owned Generation ISO Energy Sales</b>	154,466	1,205	153,261	99%
<b>NCPA Contracts ISO Energy Sales</b>	45,275	18,943	26,332	58%
<b>Western Resource ISO Energy Sales</b>	31,463	30,439	1,024	3%
<b>Load Aggregation Energy Sales</b>	-	82,566	(82,566)	-
<b>Ancillary Services Sales</b>	9,295	1,881	7,413	80%
<b>Transmission Sales</b>	110	110	-	0%
<b>Western Credits, Interest &amp; Other Income</b>	44,090	79,822	(35,732)	-81%
	853,641	557,780	295,861	35%
<b>NET ANNUAL BUDGET COST TO PARTICIPANTS</b>	674,709	482,225	\$ 192,484	29%

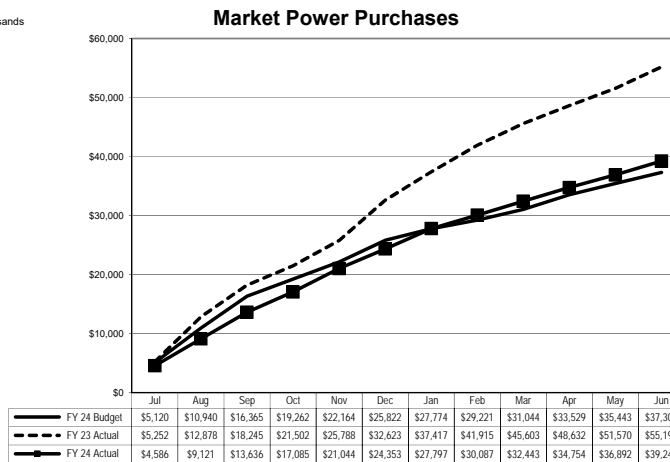
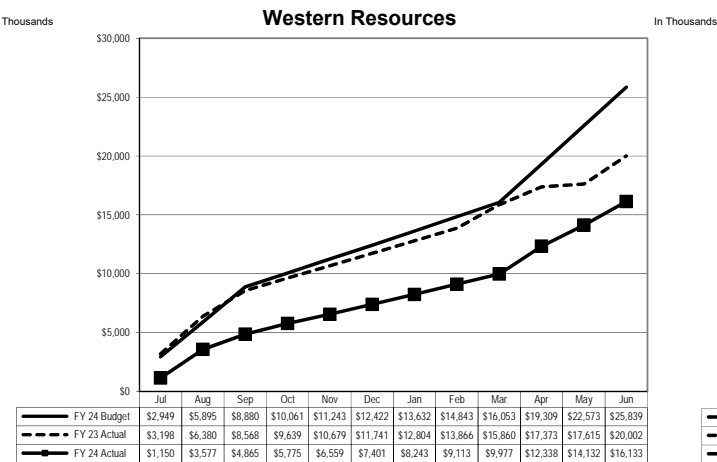
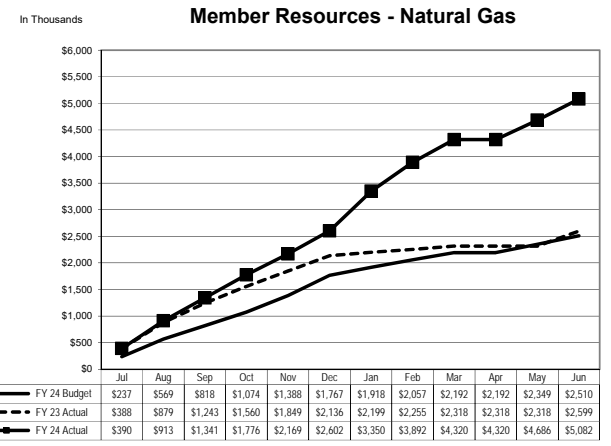
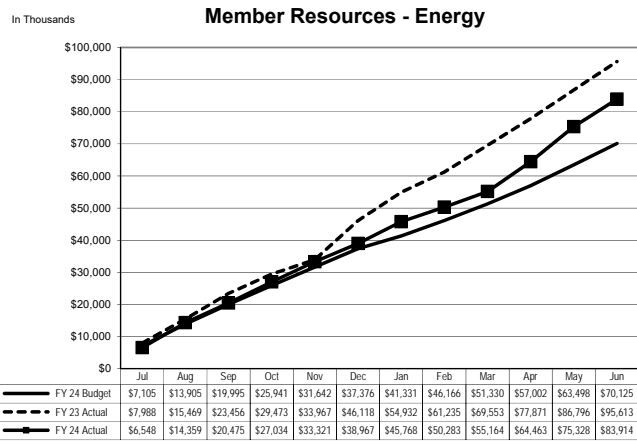
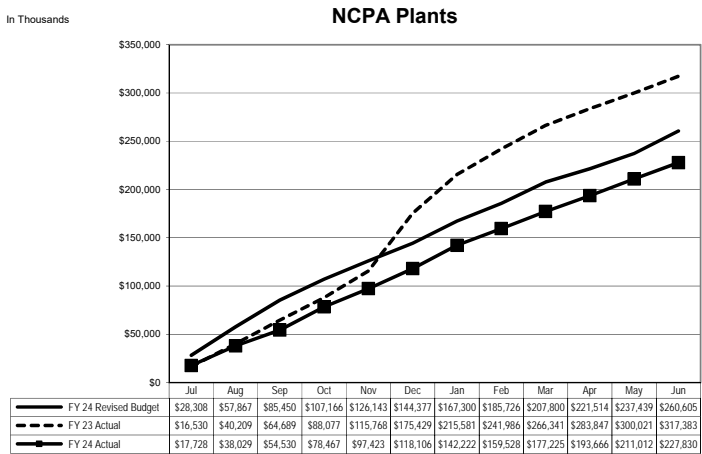


## Annual Budget Budget vs. Actual By Major Area As of June 30, 2024

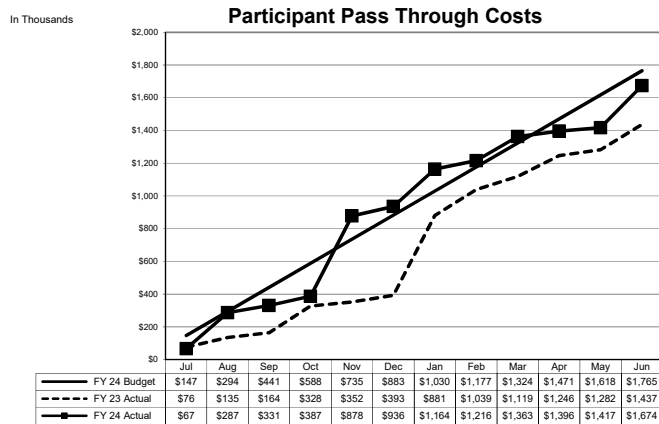
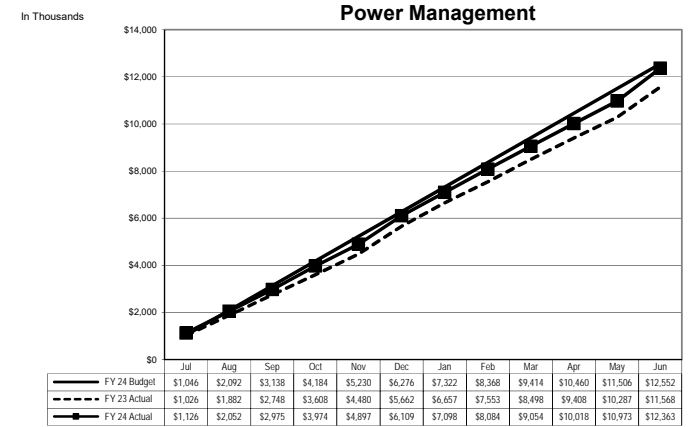
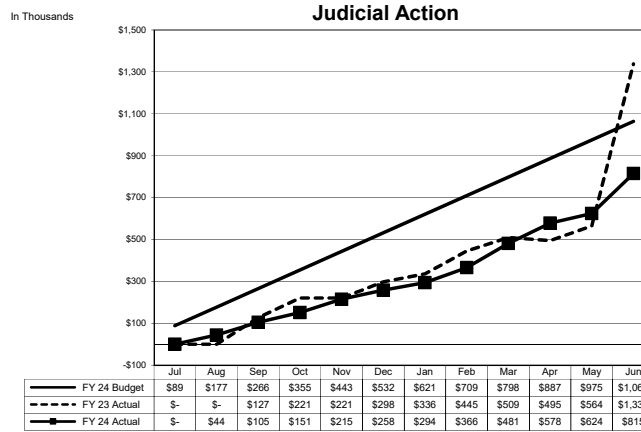
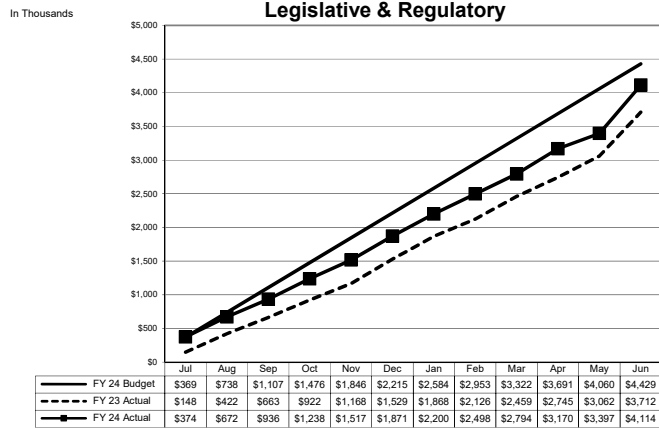


Footnote: Transmission is solely reflective of Independent System Operator (ISO) costs

## Annual Budget Cost Generation Resources Analysis By Source As of June 30, 2024



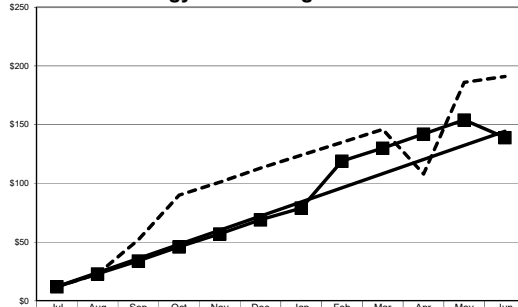
**Annual Budget Cost  
Management Services Analysis By Source  
As of June 30, 2024**



## Annual Budget Cost Management Services Analysis By Source As of June 30, 2024

In Thousands

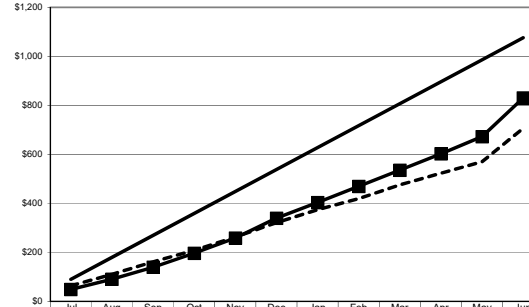
### Energy Risk Management



	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	\$139

In Thousands

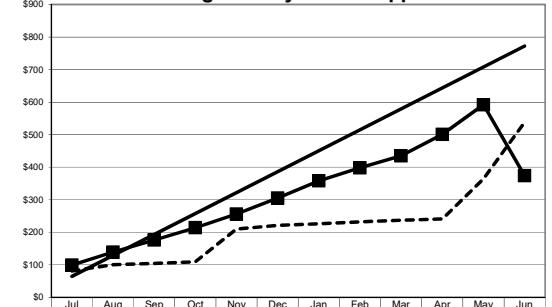
### Settlements



	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	\$830

In Thousands

### Integrated Systems Support

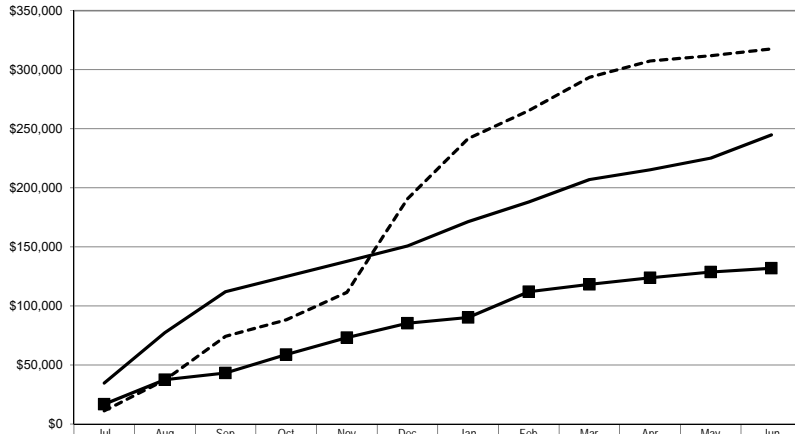


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 24 Budget	\$64	\$129	\$193	\$257	\$322	\$386	\$451	\$515	\$579	\$644	\$708	\$772
FY 23 Actual	\$81	\$100	\$104	\$109	\$210	\$221	\$226	\$232	\$237	\$241	\$364	\$538
FY 24 Actual	\$99	\$139	\$176	\$214	\$256	\$305	\$358	\$398	\$435	\$501	\$592	\$374

**Annual Budget Cost  
Third Party Revenue Analysis By Source  
As of June 30, 2024**

In Thousands

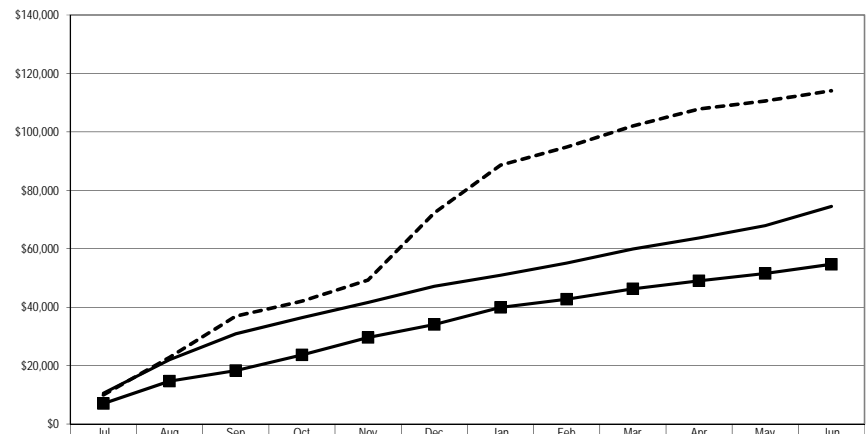
**Plant ISO Energy Sales**



	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	\$131,973

In Thousands

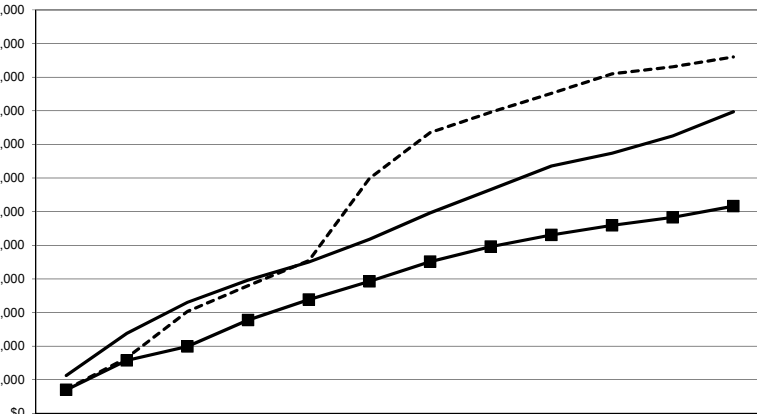
**Member Resource ISO Energy Sales**



	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	\$54,662

In Thousands

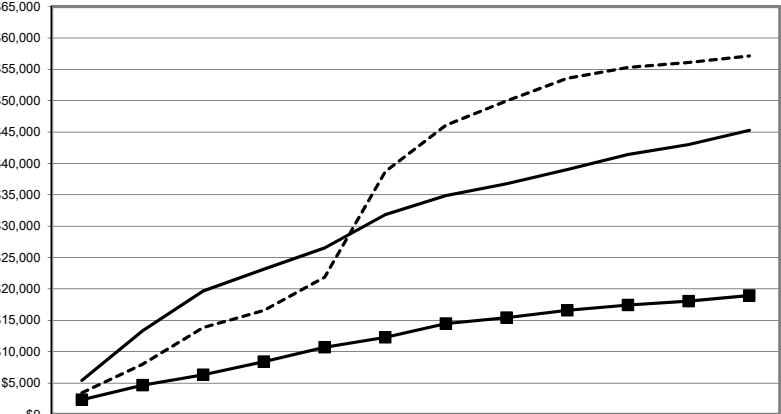
**Member Owned Generation ISO Energy Sales**



	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	\$123,234

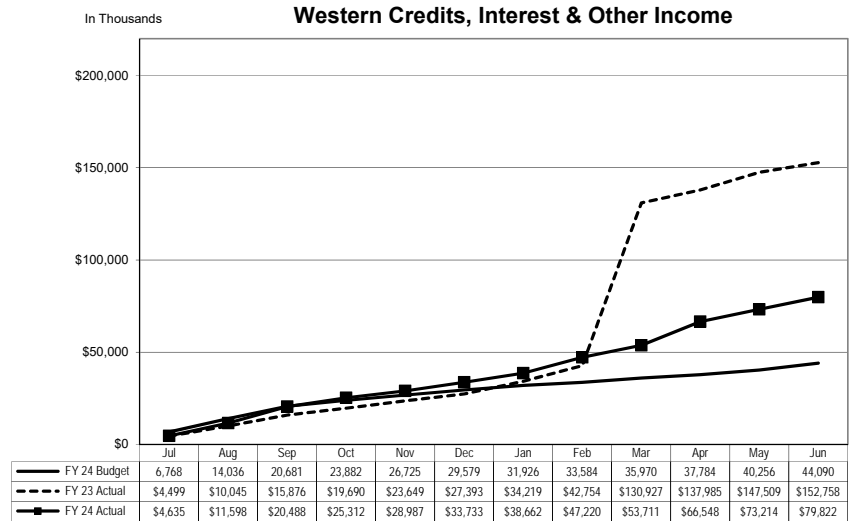
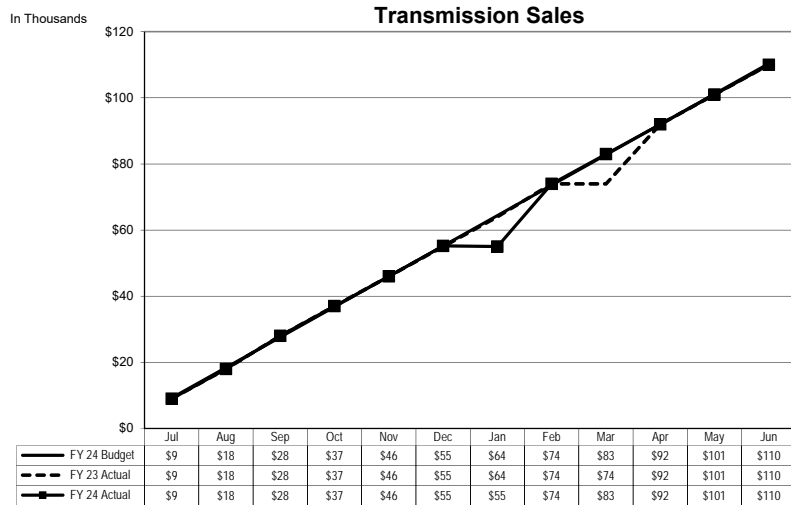
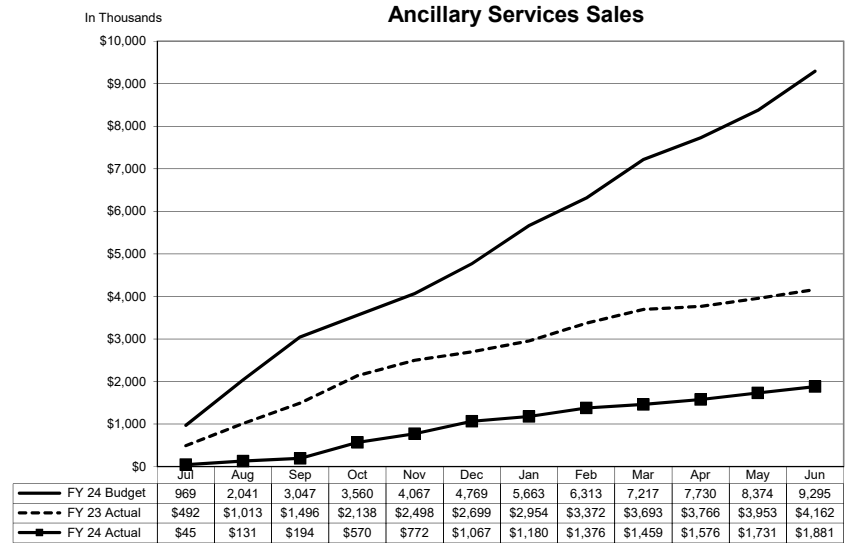
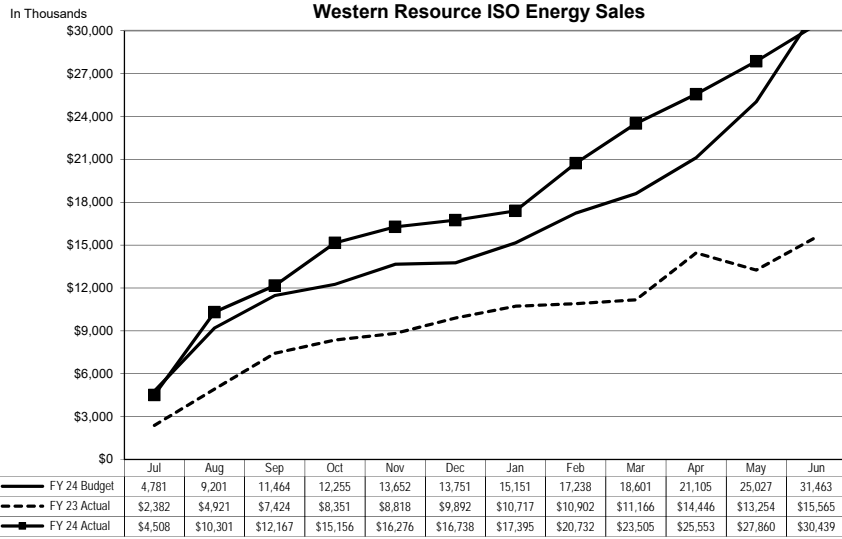
In Thousands

**NCPA Contracts ISO Energy Sales**



	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	\$18,943

**Annual Budget Cost  
Third Party Revenue Analysis By Source  
As of June 30, 2024**





**Annual Budget  
NCPA Generation Detail Analysis By Plant  
As of June 30, 2024**

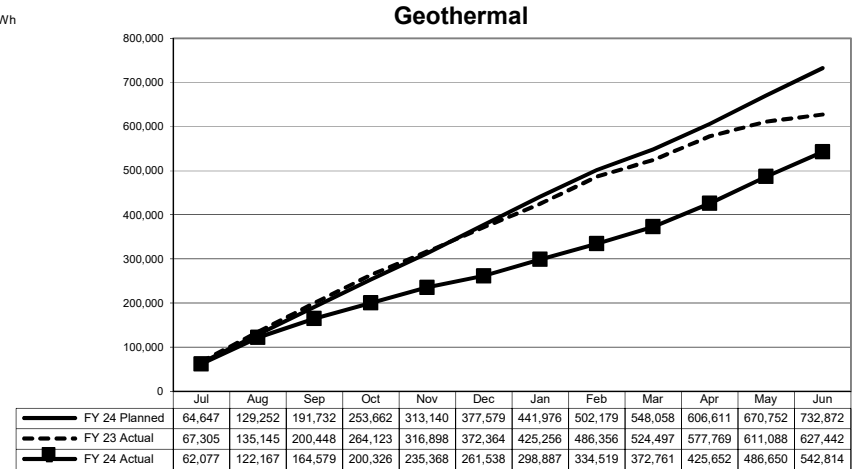
**Generation Cost Analysis**

\$ in thousands

	Geothermal				
	Budget	Actual	\$/MWh	Under(Over)	YTD %
			Actual	Budget	Remaining
Routine O & M	\$ 18,513	\$ 21,332	\$ 39.30	\$ (2,819)	-15%
Capital Assets/Spare Parts Inventories	14,032	11,283	20.79	2,750	20%
Other Costs	12,998	11,445	21.08	1,553	12%
CA ISO Charges	984	1,005	1.85	(22)	-2%
Debt Service	3,482	3,482	6.42	-	0%
Annual Budget	50,009	48,547	89.44	1,462	3%
Less: Third Party Revenue					
Interest Income	150	775	1.43	(625)	-416%
ISO Energy Sales	65,632	26,854	49.47	38,779	59%
Ancillary Services Sales	-	-	-	-	0%
Effluent Revenues	750	1,238	2.28	(488)	-65%
Misc	113	6,303	11.61	(6,190)	-5474%
	66,646	35,169	64.79	31,476	47%
Net Annual Budget Cost to Participants	\$ (16,637)	\$ 13,378	\$ 24.64	\$ (30,014)	180%
Net Generation--MWh @ Meter	732,872	542,814			
\$/MWh (A)	\$ (27.45)	\$ 18.23			

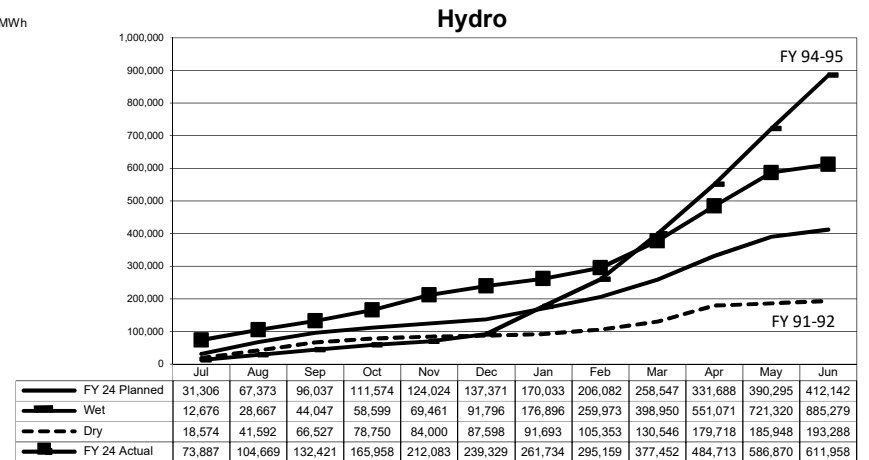
**MWhs Generated**

In MWh



	Hydroelectric				
	Budget	Actual	\$/MWh	Under(Over)	YTD %
			Actual	Budget	Remaining
Routine O & M	\$ 10,555	\$ 9,420	\$ 15.39	\$ 1,136	11%
Capital Assets/Spare Parts Inventories	6,445	6,602	10.79	(157)	-2%
Other Costs	4,706	4,136	6.76	570	12%
CA ISO Charges	1,298	3,935	6.43	(2,637)	-203%
Debt Service	34,646	34,646	56.62	-	0%
Annual Budget	57,650	58,738	95.98	(1,088)	-2%
Less: Third Party Revenue					
Interest Income	150	874	1.43	(724)	-483%
ISO Energy Sales	47,892	36,387	59.46	11,506	24%
Ancillary Services Sales	4,579	908	1.48	3,671	80%
Misc	-	728	1.19	(728)	0%
	52,622	38,897	63.56	13,725	26%
Net Annual Budget Cost to Participants	\$ 5,029	\$ 19,842	\$ 32.42	\$ (14,813)	
Net Generation--MWh @ Meter	412,142	611,958			
\$/MWh (A)	\$ (71.86)	\$ (24.19)			

In MWh



Footnotes:

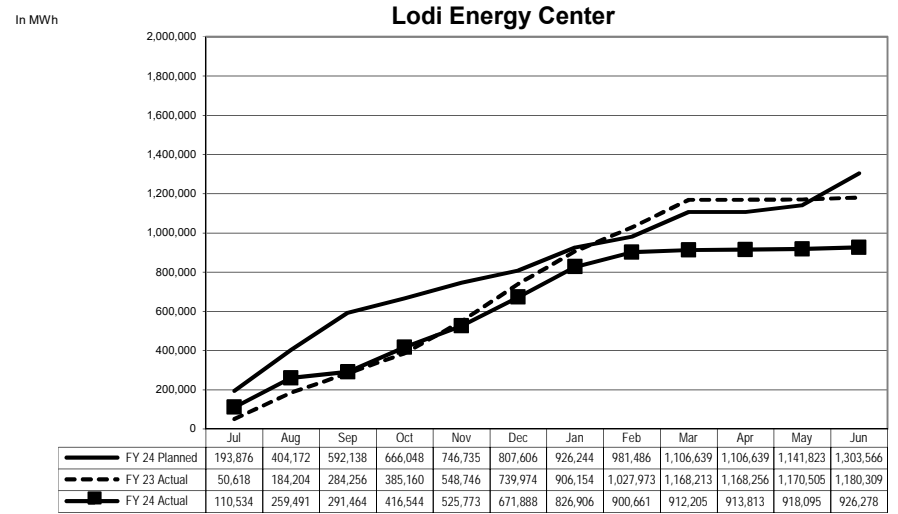
(A) Aggregate fiscal year generation in \$/MWh (excluding debt service)

**Annual Budget  
NCPA Generation Detail Analysis By Plant  
As of June 30, 2024**

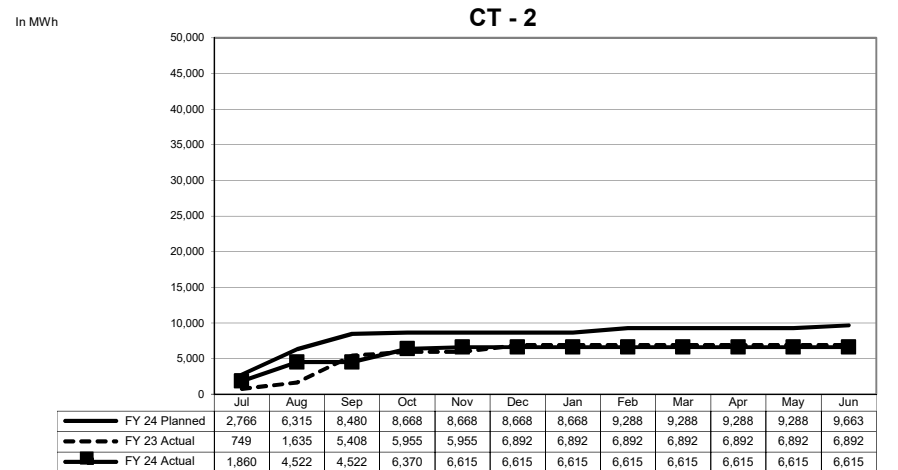
**Generation Cost Analysis**

	Lodi Energy Center				
	Budget	Actual	\$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	\$ 10,580	\$ 11,463	\$ 12.38	\$ (883)	-8%
Fuel	71,518	39,026	42.13	32,492	45%
GHG Allowance Costs	13,985	14,533	15.69	(548)	-4%
CA ISO Charges and Energy Purchases	1,364	3,013	3.25	(1,650)	-121%
Capital Assets/Spare Parts Inventories	3,913	5,132	5.54	(1,220)	-31%
Other Costs	9,445	7,900	8.53	1,545	16%
Debt Service	25,992	25,992	28.06	0	0%
<b>Annual Budget</b>	<b>136,797</b>	<b>107,060</b>	<b>115.58</b>	<b>29,737</b>	<b>22%</b>
Less: Third Party Revenue					
Interest Income	250	1,257	1.36	(1,007)	-403%
ISO Energy Sales	123,919	66,374	71.66	57,545	46%
Ancillary Services Sales	2,011	836	0.90	1,175	58%
Transfer Gas Credit	-	-	-	-	0%
GHG Allowance Credits	13,612	14,236	15.37	(625)	-5%
Misc	-	1	0.00	(1)	0%
	<b>139,791</b>	<b>82,704</b>	<b>89.29</b>	<b>57,087</b>	<b>41%</b>
<b>Net Annual Budget Cost to Participants</b>	<b>\$ (2,994)</b>	<b>\$ 24,355</b>	<b>\$ 26.29</b>	<b>\$ (27,350)</b>	<b>913%</b>
Net Generation--MWh @ Meter	1,303,566	926,278			
<b>\$/MWh (A)</b>	<b>\$ (22.24)</b>	<b>\$ (1.77)</b>			

**MWhs Generated**



	Combustion Turbine No. 2 (STIG)				
	Budget	Actual	\$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	\$ 1,674	\$ 1,679	\$ 253.88	\$ (5)	0%
Fuel and Pipeline Transport Charges	1,177	279	42.25	898	76%
GHG Allowance Costs	171	-	-	171	100%
Capital Assets/Spare Parts Inventories	390	180	27.25	209	54%
Other Costs	728	568	85.92	160	22%
CA ISO Charges	19	57	8.65	(38)	-199%
Debt Service	5,058	5,058	764.70	-	0%
<b>Annual Budget</b>	<b>9,217</b>	<b>7,823</b>	<b>1,182.64</b>	<b>1,394</b>	<b>15%</b>
Less: Third Party Revenue					
Interest Income	42	240	36.35	(198)	-473%
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%
	<b>3,992</b>	<b>2,449</b>	<b>370.24</b>	<b>1,543</b>	<b>39%</b>
<b>Net Annual Budget Cost to Participants</b>	<b>\$ 5,226</b>	<b>\$ 5,374</b>	<b>\$ 812.40</b>	<b>\$ (148)</b>	<b>-3%</b>
Net Generation--MWh @ Meter	9,663	6,615			
<b>\$/MWh (A)</b>	<b>\$ 17.30</b>	<b>\$ 47.70</b>			



Footnotes:

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

**Annual Budget  
NCPA Generation Detail Analysis By Plant  
As of June 30, 2024**

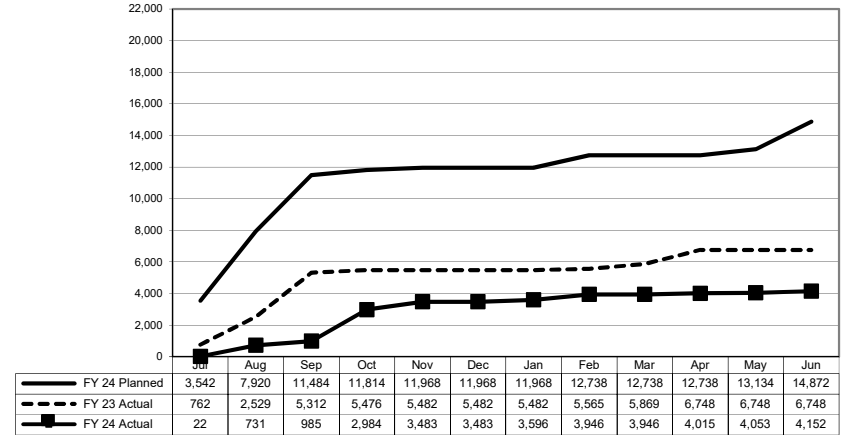
**Generation Cost Analysis**

	Combustion Turbine No. 1				
	Budget	Actual	\$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	\$ 2,597	\$ 2,544	\$ 612.73	\$ 53	2%
Fuel and Pipeline Transport Charges	2,388	564	135.79	1,824	76%
Capital Assets/Spare Parts Inventories	1,045	933	224.73	112	11%
Other Costs	852	783	188.55	69	8%
CA ISO Charges	50	358	86.20	(308)	-614%
Debt Service	-	-	-	-	-
Annual Budget	6,932	5,182	1,248.01	1,750	25%
Less: Third Party Revenue					
Interest Income	55	153		(98)	-178%
ISO Energy Sales	4,552	1,285	309.42	3,267	72%
Ancillary Services Sales	-	-	-	-	0%
Misc	-	-	-	-	0%
	4,607	1,438	309.42	3,169	69%
Net Annual Budget Cost to Participants	\$ 2,325	\$ 3,744	\$ 901.74	\$ (1,419)	-61%
Net Generation--MWh @ Meter	14,872	4,152			
\$/MWh (A)	\$ 156.32	\$ 901.74			

**MWhs Generated**

In MWh

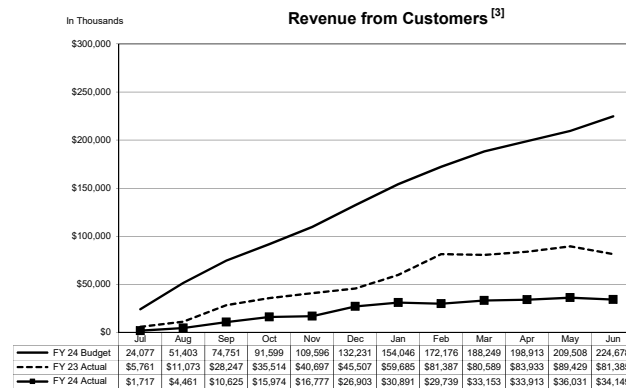
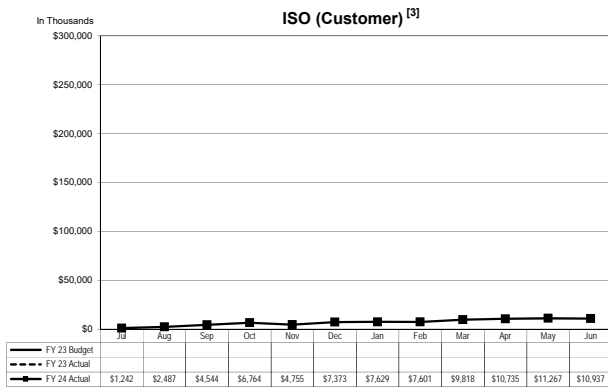
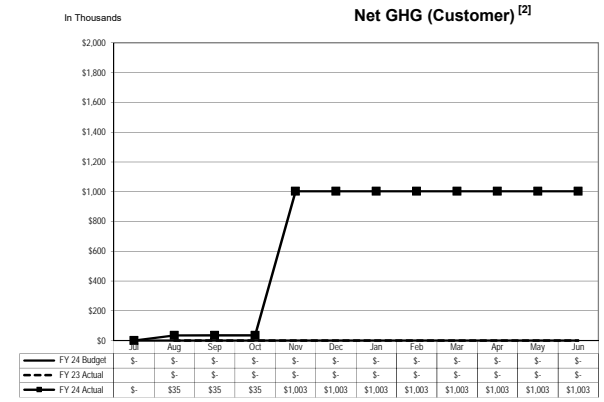
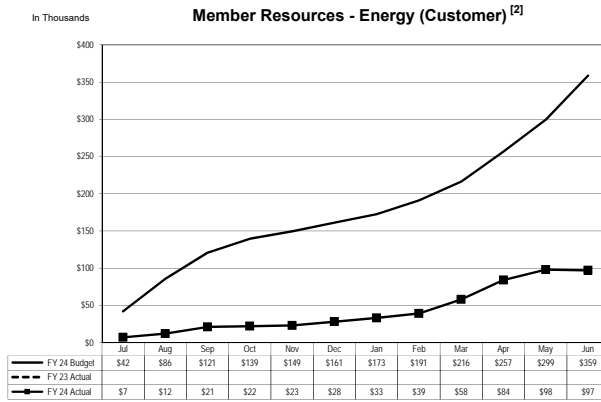
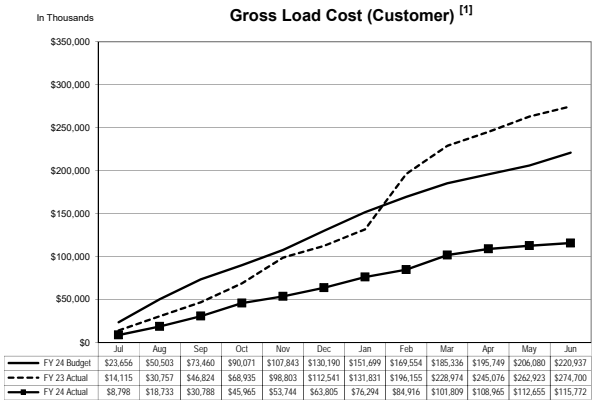
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Footnotes:

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

**Annual Budget Cost  
NCPA Customers  
As of June 30, 2024**



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