



Northern California Power Agency
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BUSINESS PROGRESS REPORT

2024

August

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Generation Costs & Reliability

Combustion Turbine Project

Unit Operation for July 2024

Unit	Availability		Production			Reason for Run
CT1 Alameda	Unit 1	Unit 2	Unit 1	463.0	MWh	CAISO / CAISO
	100.0%	100.00%	Unit 2	478.3	MWh	
Curtailments, Outages, and Comments:						
Unit 1: Normal Operation.						
Unit 2: Normal Operation.						
Unit	Availability		Production			Reason for Run
CT1 Lodi	99.27%		1,300.1 MWh			CAISO
Curtailments, Outages, and Comments:						
7/01 @ 19:41-20:11; Fuel gas compressor trip (from contractor leaving valve inadvertently closed), OMS 16091108						
7/06 @ 19:07-20:56; Loss of flame trip, OMS 161220007, 16122221						
7/11 @ 17:03-19:11; Excitation high compartment temp trip, OMS 16156808						
7/20 @ 19:00-20:00; Failed to parallel, OMS 16217000						
Unit	Availability		Production			Reason for Run
CT2 STIG	94.6%		2,314.9 MWh			CAISO
Curtailments, Outages, and Comments:						
7/22 @ 18:50 - 19:40; Gas compressor trip, OMS 15899314						
7/22 @ 20:15 - 7/23 @ 08:42; Injection valve trouble, OMS 16229378 & 16229557						
7/25 @ 16:22 - 7/26 @ 19:26; Hi vibration indication, OMS 16251825						
Unit	Availability		Production			Reason for Run
LEC	99.7%		104,782 MWh			CAISO
Curtailments, Outages, and Comments:						
7/01 @ 16:44 - 18:55; Condensate pump trip caused plant trip, OMS 16090408						

Maintenance Summary – Specific per asset above.

Geothermal Facilities

Availability/Production for July 2024

Unit	Availability		Net Electricity Generated/Water Delivered		Out-of-Service/Descriptors
Unit 1	100	%	30,268	MWh	Unit 1 was in service all 31 Days of July.
Unit 2	0	%	0	MWh	Unit 2 currently in outage with an 8/31/2024 return to service date.
Unit 3	N/A	%	N/A	-	Unit 3 remains out of service.
Unit 4	100	%	25,457	MWh	Unit 4 was in service all 31 days of July.
Southeast Geysers Effluent Pipeline	100	%	135.4	mgallons	Average flow rate: 2,923 gpm
Southeast Solar Plant	N/A		67,715	KWh	Year-to-date KWh: 1,225,883
Bear Canyon Pump Station Zero Solar	N/A		0	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 July 2024

Units	Availability	Net Electricity Generated	Out-of-Service
Collierville Unit 1	100%	17,417 MWh	
Collierville Unit 2	100%	9724 MWh	
Spicer Unit 1	99%	1678 MWh	OMS 16227308– NSM unit 1 station offline PG&E comm testing TIGO. Started on 7/30/24 at 0941 and ended on 7/30/24 at 1640.
Spicer Unit 2	99%	1027 MWh	OMS 16227308– NSM unit 2 station offline PG&E comm testing TIGO. Started on 7/30/24 at 0941 and ended on 7/30/24 at 1640.
Spicer Unit 3	99%	287 MWh	OMS 16227308– NSM unit 3 station offline PG&E comm testing TIGO. Started on 7/30/24 at 0941 and ended on 7/30/24 at 1640.

Operations & Maintenance Activities:

- CMMS work orders
- Crew annual training –92% complete
- Hydro Tech Operator cross training
- 230kv vegetation maintenance -90% complete- 100% on hazard trees
- Exploring additional soil relocation locations for McKays Sediment Removal Project
- Oily Water Separator Project: parts on order
- McKays Water Handling Project: design complete, 50% complete
- Alpine dam handrail project; construction -over 98% complete
- New Spicer Reservoir spillway repairs -75% complete
- FERC approved NSM Comprehensive Assessment Inspection Plan- scheduled Oct 3rd
- Publicly bid NSM drinking water tank recoating project- scheduled Sep 9th
- Bid Collierville tailrace landslide repair project
- Bid McKay's intake debris removal
- Bid and awarded Beaver Creek Reservoir sediment survey
- Completed annual noxious weed removal and survey
- Completed Mountain Yellow Legged Frog awareness training

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

- There were no Lost Time Accidents or vehicle incidents in the month of July. A Cal OSHA Recordable incident occurred at NCPA's Hydro plant on 7/16/2024. A consultant construction manager working on-site fell and lacerated his hand.
- 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 July 27, 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.

July 2024 Generation Services Safety Report

	Hydro	GEO	CT Group *	NCPA HQ **
Cal OSHA Recordable (this month)	1	0	0	0
Cal OSHA Recordable (calendar year)	1	0	1	0
Days since Recordable	12	397	139	4,384
Work Hours Since Last Recordable	1,140	79,965	33,438	3,117,750
LTA's (this month)	0	0	0	0
LTA's (calendar year)	0	0	0	0
Days without LTA	6,134	416	11,304	7,397
Work Hours without LTA	551,106	80,329	958,880	2,739,765
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 July 27, 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

	July 2024		Calendar Year 2024	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	483.54 7/11 @ 1700	232,923	483.54 7/11 @ 1700	1,374,753
SVP	704.79 7/2 @ 1700	425,268	704.79 7/2 @ 1700	2,731,054
MSSA	1176.61 7/11 @ 1700	658,191	1176.61 7/11 @ 1700	4,105,807

Last Year 2023 Data*

	July 2023		Calendar Year 2023	
	Peak MW	MWh	Peak MW	MWh
NCPA Pool	411.56 7/17 @ 1800	208,881	440.7 8/15 @ 1700	1,303,013
SVP	644.24 7/17 @ 1600	398,671	669.22 8/23 @ 1600	2,642,625
MSSA	1052.85 7/17 @ 1700	607,552	1103.22 8/23 @ 1700	3,945,638

*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	483.54 7/11 @ 1700
SVP	704.79 MW on 7/2/24 @ 1700	704.79 7/2 @ 1700
MSSA	1176.61 MW on 7/11/24 @ 1700	1176.61 7/11 @ 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

	July 2024	Calendar Year 2024
MSSA % Within the Band	98.44%	98.69%

- **CAISO Restricted Maintenance Operation (RMO)**

- July 3-11, 2024
- July 15, 2024
- July 25, 2024

- **CAISO Transmission Emergency**

- July 2-11, 2024
- July 15, 2024
- July 18-19, 2024

- **CAISO Energy Emergency Alert (EEA)**

- July 24, 2024

- **PG&E PSPS**

- July 2-3, 2024
- July 5-6, 2024
- July 20-21, 2024

Pooling, Portfolio Planning & Forecasting

- NCPA Pool loads during July 2024 were 232,941 MWh versus the budget forecast of 212,739 MWh, resulting in a forecast error of 8.67%. The above average temperatures during July were the cause of the forecast error. The weather outlook for the remainder of August is for below average temperatures and near normal precipitation. The Pool's August load forecast is 215,367 MWh compared with extrapolated actuals of 225,069 MWh as of August 12, 2024.
- Lodi Energy Center (LEC) ran 464 hours and produced 104,829 MWh during July 2024. LEC has produced 10,091 MWh from August 1, 2024, through August, 12 2024. The plant is not expected to run much over the next 14 days due to the expected below average temperature.
- During July 2024, 0.00" of rain was recorded at the Big Trees gauge. July average rainfall at Big Trees is 0.18".
- The Value of Storage (VOS) of New Spicer Meadow Reservoir (NSMR) has been maintained at \$100/MWh. Releases from NSMR ranged from 160cfs up to 400cfs during July.
- New Spicer Meadows storage as of July 31, 2024, was 166,903 acre-feet. The historical average storage at the end of July is 136,428 acre-feet. As of August 12th, storage was 160,300 acre-feet (84.8% of capacity of 189,000acft).
- Combined Calaveras Project generation for the Pool in July 2024 totaled 15,583 MWh, up from 12,905 MWh in June 2024.
- Western Base Resource (BR) deliveries for the Pool during July 2024 were 88,302 MWh. The Displacement Program provided an additional hedge of 265 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 August 2024 is 77,500 MWh, with 29,821 MWh having been delivered as of August 12, 2024. Once the excessive heat started in July the POOL did not participate in displacement.

- The PG&E Citygate gas index averaged \$3.12 / MMBtu during the month of July 2024 as compared to an average of \$2.15 for June. PG&E Citygate index has averaged \$3.21 / MMBTUs during the period of August 1 through 12, 2024. PG&E Citygate forward price for September 2024 is \$2.86 / MMBtu.
- Day-Ahead PG&E DLAP electricity prices during July averaged \$63.48 / MWh on-peak and \$44.15 off-peak, with a high of \$648.77 and a low of \$15.93. For the period August 1st through the 12th on-peak prices have averaged \$60.48 on-peak and \$44.87 off-peak, with low of \$18.79 and a high of \$334.02. The NP15 forward power prices for September 2024 are \$53.15 on-peak and \$42.08 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 October 2024:
 - Monthly System Resource Adequacy Demonstration (filed August 17, 2024)
 - Monthly Supply Plan (filed August 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:

West-Wide Governance Pathways Initiative (WWGPI)

- The West-Wide Governance Pathways Initiative (Pathways Initiative) was launched last summer by a coalition of regulators from five Western states, including California, who helped form a Launch Committee representing a diverse group of Western stakeholders. The Launch Committee has been working since the fall of 2023 to develop a proposal for continued evolution of governance over Western EIM and EDAM.
- On June 5, 2024, the Launch Committee of the Pathways Initiative submitted for consideration its Step 1 Recommendation to the ISO Board Chair Jan Schori and the WEM Governing Body Chair Andrew Campbell. The Chairs have now accepted receipt of the report, and have directed management to initiate a stakeholder process to consider the recommendation and to bring a proposal to the Board and Governing Body to consider for a vote in the mid to late summer of 2024.
- WWGPI presented the Step 1 Recommendation to CAISO stakeholders on 6/18/2024.
 - Step 1 – Elevate WEIM/EDAM Governing Body authority in the governance of existing CAISO energy markets

- Step 2 - Transfer governance authority over existing energy markets from CAISO to a new Regional Organization
- Step 3 Continue expanding the scope of regionalized functions and services offered by the Regional Organization
- Step 1 Elevates WEIM Governing Body's "Joint Authority with CAISO Board to "Primary Authority"
 - **Initial Decisions** - WEIM Governing Body makes the initial decision on proposals resulting from the stakeholder process if they fall within its decision-making scope (meets the existing "apply to" test)
 - **"Jump Ball" Filings** – Unresolved disputes over tariff changes between WEIM Governing Body and CAISO Board require CAISO to use Section 205 filing rights to present both proposals, without preference, to the FERC for decision.
 - **Public Interest** – WEIM Governing Body adds new provisions to its Charter to reduce customer costs, preserve state and local policies, and maximize resources available to support reliability.
- ISO Board/WEM GB Approval scheduled for 8/13/2024.

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.
- July 26, 2024, RAMPD Revised Discussion Paper and Final Recommendation Plan
- CAISO proposing to move topics from working group discussions to policy development in three parallel tracks with update paths forward
 - Track 1: Modeling, Defaults, and Accreditation
 - The ISO plans to conduct a probabilistic assessment of the adequacy of the ISO BAA to meet a 0.1 LOLE target, based on contracted supply
 - The ISO will then apply counting rules to determine the PRM of the portfolio that meets a 0.1 LOLE metric. This will provide a basis for updating the ISO's default PRM.
 - The ISO will open a parallel policy track to update default counting rules (and associated default PRM), to consider the development of a UCAP performance framework, and to account for ambient derates due to temperature.
 - Track 2: Outage and Substitution & Availability and Incentive Mechanisms
 - The ISO plans to provide suggested analysis, review current outage types, brainstorm improvements to transparency, and discuss the pros and cons of pathways for improved outage and substitution, such as a daily planned outage substitution pool, a planned outage buffer, and revisiting the granularity of showings.

- For availability and incentive mechanisms, the ISO plans to provide analysis as a starting point to assess the health of RAIM and illuminate areas of potential improvement.
- The ISO plans to also investigate to what extent RAIM is needed, with updated default counting rules, and if it is warranted to develop a performance incentive or penalty pricing
- Lastly the ISO will re-visit the 24-hour must offer obligation and bid insertion rules as a part of reforming the ISO’s availability and performance incentives.
- Track 3: Backstop Reform
 - The ISO proposes to consider long-term alternatives for curing RSE shortfalls and the cost allocation methodology for RSE failure surcharges as part of a single policy initiative alongside the broader backstop procurement issues in the former Track 3.
- Issues for Further Refinement and Discussion
 - Requirements for RA Capacity (energy sufficiency, Flex RA)
 - Deliverability
 - Continued assessment of interoperability with existing and emerging RA programs
- Next Steps:
 - The ISO plans to publish issue papers for Tracks 1, 2, and 3 in September 2024 for stakeholder review and input. The publication of these issue papers will be accompanied by a stakeholder meeting. This meeting will focus on discussing the contents of the issue papers and also allow Stakeholders to present their proposals.

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-24	90,799	88,567	(2,232)	\$956,420	\$ 10.80	\$ 0.20	\$ 15.62
Aug-24	67,332	-		\$956,420	\$ 14.20	\$ -	\$ 15.15
Sep-24	50,640	-		\$1,087,493	\$ 21.47	\$ -	\$ 14.61
Oct-24	26,102	-		\$716,700	\$ 27.46	\$ -	\$ 15.33
Nov-24	16,200	-		\$716,700	\$ 44.24	\$ -	\$ 15.72
Dec-24	961	-		\$716,700	\$ 745.79	\$ -	\$ 16.30
Jan-25	12,152	-		\$716,700	\$ 58.98	\$ -	\$ 16.76
Feb-25	18,340	-		\$716,700	\$ 39.08	\$ -	\$ 19.02
Mar-25	12,710	-		\$716,700	\$ 56.39	\$ -	\$ 21.44
Apr-25	40,440	-		\$1,636,555	\$ 40.47	\$ -	\$ 23.67
May-25	72,726	-		\$1,636,555	\$ 22.50	\$ -	\$ 25.04
Jun-25	77,220	-		\$1,636,555	\$ 21.19	\$ -	\$ 26.11

1/ As forecasted in NCPA 24/25 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 88,567 MWh of Base Resource (BR) energy in July 2024. This includes displaced energy of 265 MWh. The estimated MEEA savings is about \$17,300 and \$1,400 for displacement savings.
- Re-initiation of Consultation of the Long-Term Operations (ROC on LTO)
 - 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.
 - There have been ongoing coordination activities between WAPA, Reclamation and Power Customers since last year. Participating Cooperating Agencies (including NCPA, WAPA and other power customers) submitted comments to the cooperating agency draft Environmental Impact Statement (EIS).
 - The primary focus was on emissions impact related to volume and timing of hydro and grid reliability.
 - Public Draft EIS was published on July 26 and comments are due by September 9, 2024.
 - Reclamation is still targeting Record of Decision by end of 2024.
- 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.
 - Latest update: WAPA plans to check with CAISO about whether the existing RA rules allows CVP resources to be claimed for RA.
- WAPA has held three EDAM customer meetings so far. There is one more meeting scheduled for this Summer (August 22, 2024). WAPA will schedule additional meetings if needed.
- 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

- 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 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

PG&E and SCE RY2025 Annual Updates

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

- 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) rose 2.9% in July putting the 12-month rate below 3% in more than three years. This should pave the way for the Federal Reserve to cut rates next month after a year's long battle with inflation that sent rates spiking to a 23-year high. The economy is showing signs of stress, and now that inflation appears under control, the Fed can reduce borrowing costs to try to get job growth booming again.
- At their July meeting, the Federal Reserve held the federal funds rate in a range of 5.25% to 5.50% leaving it at its highest level in 23 years. The rate has been parked at this level since July 2023. While the Fed described inflation as "somewhat elevated", this was a change from last month's "elevated" position. Powell indicated the time for a rate cut was approaching with most market analysts predicting a Q3 rate reduction.
- The Finance Committee provided NCPA staff with feedback creating a Decommissioning Reserve Policy that will help set the parameters for which an emergency loan could be used to fund a large, unplanned expense. Staff plans to bring the policy at the October meeting for approval.

Schedule Coordination Goals

Network

- IS Ops and Support team is performing a needs assessment and evaluating new products for potentially upgrading or transitioning to a new SCADA solution for the Dispatch Control Center. Work is being performed in preparation for budgeting for the FY2026 Budget.
- IS continues the work toward preparing the HQ and DRC Control Centers to be compliant with the NERC CIP Medium standards. Currently working with NovaSync to implement a new Compliance repository and change management solution designed specifically for NERC CIP. A kick off meeting was recently held with anticipation of the project being completed sometime in Spring of 2025.
- 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 later this summer.
- The network team worked closely with Lodi Generation Services staff to implement a redundant wireless ECN network for real-time SCADA telemetry at Lodi CT. This will enhance the resiliency of the communications in the event the primary circuit fails.

Software Development

- Scheduling and bidding applications support activities:
 - Enhancements to support the various co-located BESS and PV resources to streamline SC functions shared by NCPA SC and 3rd Party Optimizers. These include any combination of resource optimization and bid submission tasks. Switches were implemented to control who's responsible for any of those scheduling tasks.
 - Automated the Lodi Strategic Reserve resource scheduling and bidding.
 - New resource integrations are 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 IS proposing to replace its legacy Timekeeping applications for both Unpresented and Union employees.

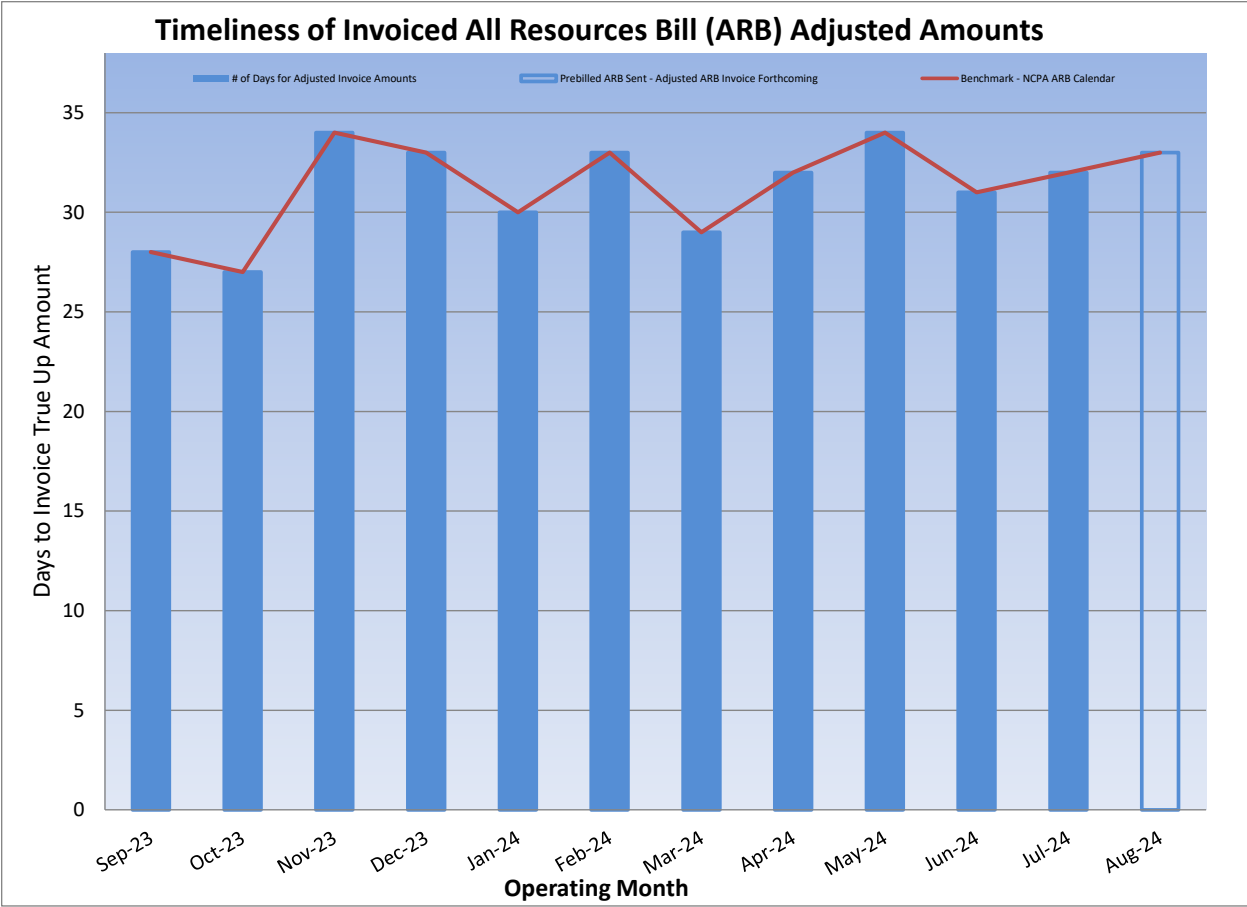
NCPA Bills & Settlements

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 August 2024 NCPA All Resources Bill (ARB) monthly invoice sent to members on July 23, 2024 contains:

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



Legislative & Regulatory

State Legislative Update

- The Assembly Select Committee on Building a Zero-Carbon Hydrogen Economy held a hearing on August 6, 2024, to gather stakeholder insights on boosting hydrogen production and offtake, and requested ideas for potential legislation to address barriers. NCPA’s Lodi Energy Center was a centerpiece of discussion, and General Manager Randy Howard spoke to the Committee about the many advantages of the LEC hydrogen project. He emphasized how the project can rely on curtailed renewable energy to produce hydrogen, if the market structure could recognize the use of renewable resources off the grid and provide appropriate credit to those looking to reduce their carbon footprint. Additional discussion during the panel focused on opportunities to create hydrogen-focused jobs and training programs in low-income communities, emphasizing the importance of setting up hydrogen fuel cell infrastructure for clean and sustainable energy. The Select Committee plans to meet again in the Fall to discuss legislative proposals related to hydrogen.

Human Resources

Hires:

- Mason Jones joined NCPA Headquarters as an Engineer I, effective July 22, 2024. Mason previously worked as a Field Operations Engineering Intern with PG&E. In this role, he worked with field engineers and construction coordinators to organize and streamline electric field operations in the construction and repair of electric transmission and distribution lines. He also interacted with and communicated work plans and timelines with customers and contractors on job sites and recorded and analyzed data in SAP and Excel. Mason recently graduated from California Polytechnic State University with a Bachelor of Science degree in Mechanical Engineering.
- Daniel Dixon joined NCPA's Geothermal Facility as an Operator Technician III (Relief Crew), effective July 29, 2024. Danny joins us from Calpine, where he was an Operator Technician III. In this role, he was responsible for maintaining and updating plant procedures, leading plant outages, and training other plant operators. Previously, Danny worked with Sun Technician Services, Inc. at Calpine as an Auxiliary Technician and assistant Power Plant Operator, where he assisted in the maintenance of the steam field and performed various plant work. Danny graduated from Yuba Community College and brings 16 years of experience.

Intern Hires:

- None

Promotions:

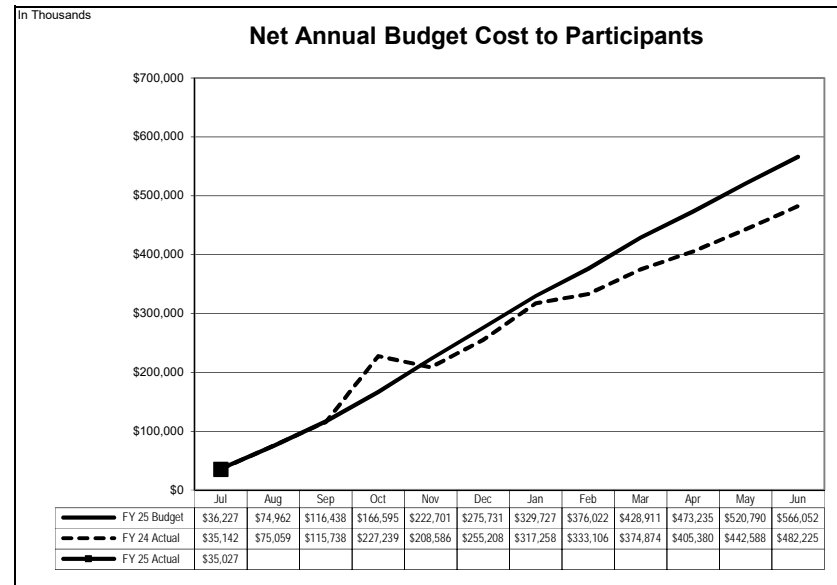
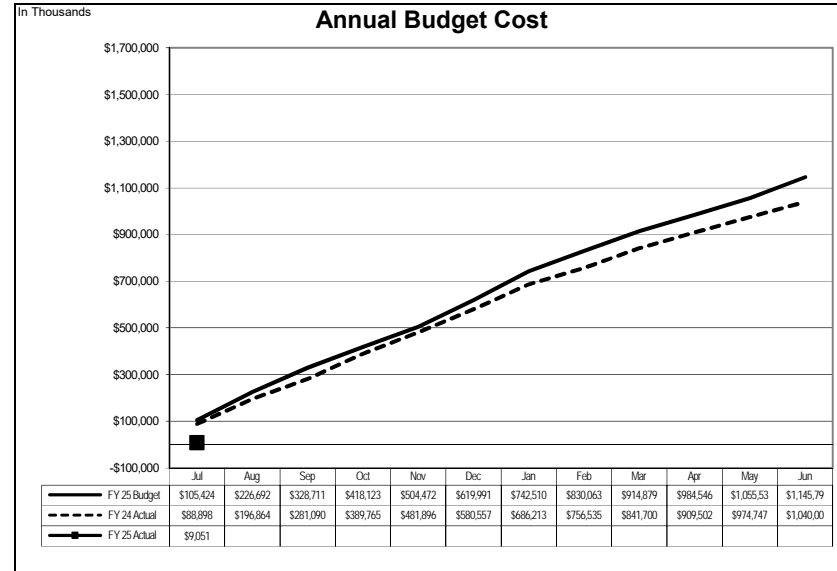
- Aaron Socey was promoted to Combustion Turbine (CT) Specialist – Lead Relief at NCPA's Lodi Energy Center, effective July 14, 2024. Aaron joined NCPA in 2023 as a CT Specialist III and was most recently a CT Specialist IV. As a Lead Relief Operator, Aaron will assist the O&M Supervisors, provide operations shift coverage support, and manage special projects. Aaron has over 20 years of experience in the power industry as an Operator and Supervisor. Aaron's experience and industry knowledge will be vital in his new role, ensuring the continued success of our plant operations.

Separations:

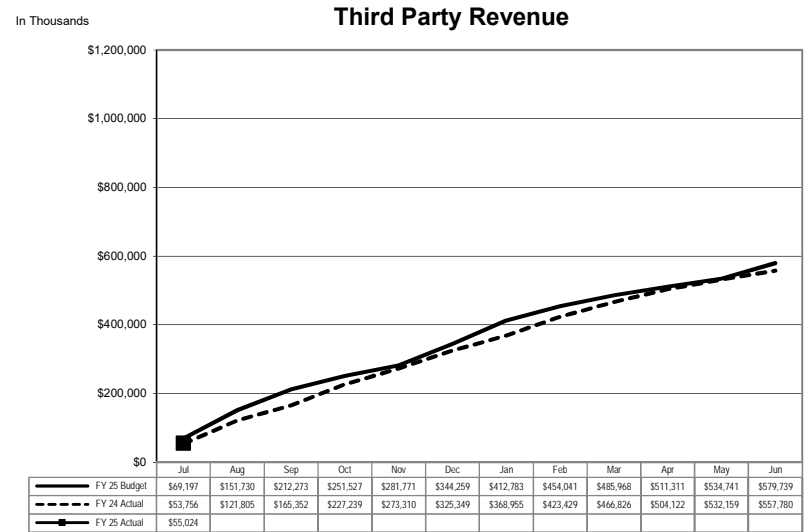
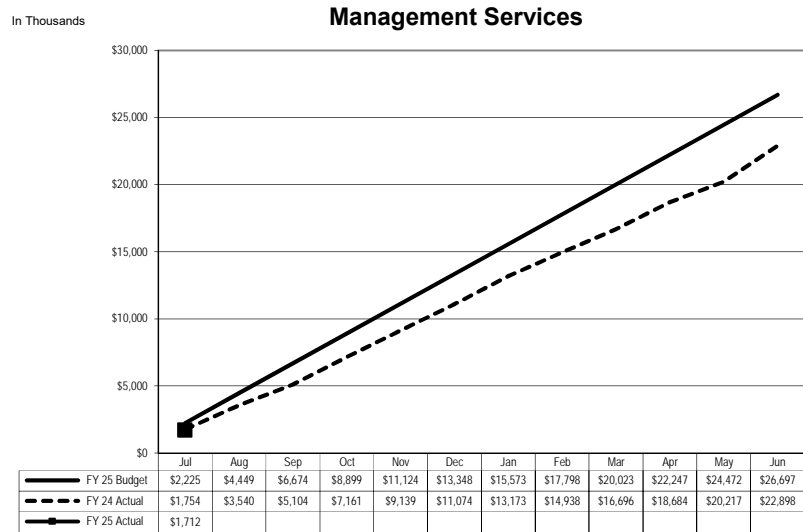
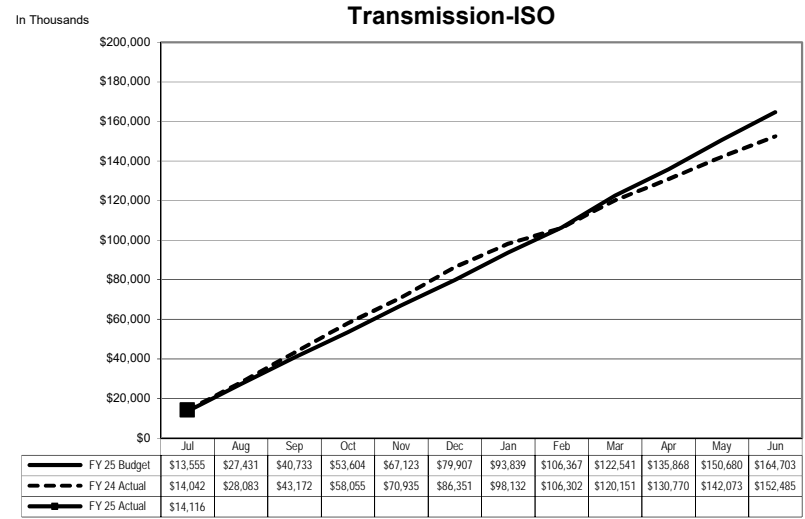
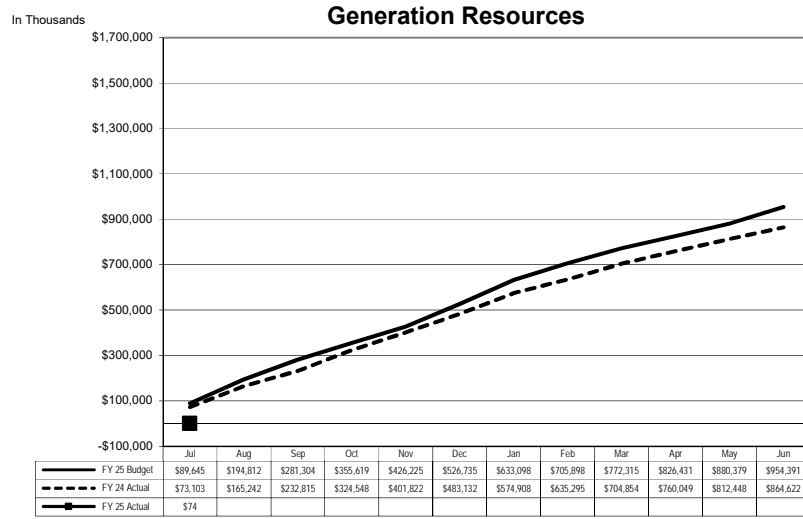
- None

**Annual Budget
2024-2025 Fiscal Year To Date
As of July 31, 2024**

In Thousands	Program			
	Budget	Actual	Under(Ovr) Budget	YTD % Remaining
GENERATION RESOURCES				
NCPA Plants				
Hydroelectric	58,647	4,502	\$ 54,145	92%
Geothermal Plant	47,043	3,573	43,470	92%
Combustion Turbine No. 1	5,451	536	4,915	90%
Combustion Turbine No. 2 (STIG)	6,696	874	5,821	87%
Lodi Energy Center	158,252	7,828	150,425	95%
	276,090	17,313	258,777	94%
Member Resources - Energy	53,766	9,082	44,683	83%
Member Resources - Energy (Customer)	-	0	(0)	
Member Resources - Natural Gas	5,432	633	4,799	88%
Western Resource	23,246	2,050	21,196	91%
Market Power Purchases	48,566	2,573	45,992	95%
Gross Load Costs	545,184	37,547	507,637	93%
Gross Load Costs (Customer)	-	5,024	(5,024)	
Net GHG Obligations	2,108	-	2,108	100%
	954,391	74,223	880,168	92%
TRANSMISSION				
Independent System Operator	164,703	13,221	151,481	92%
Independent System Operator - Customer	-	894	(894)	
	164,703	14,116	150,587	91%
MANAGEMENT SERVICES				
Legislative & Regulatory				
Legislative Representation	2,361	176	2,186	93%
Regulatory Representation	829	37	792	96%
Western Representation	599	24	576	96%
Customer Programs	666	36	631	95%
	4,456	272	4,184	94%
Judicial Action	1,240	-	1,240	100%
Power Management				
System Control & Load Dispatch	11,750	894	10,856	92%
Forecasting & Prescheduling	3,243	225	3,018	93%
Industry Restructuring	428	23	405	95%
Contract Admin, Interconnection Svcs & Ext. Affairs	1,305	104	1,201	92%
Gas Purchase Program	86	5	81	94%
Market Purchase Project	124	7	117	94%
	16,936	1,259	15,677	93%
Energy Risk Management	176	11	165	94%
Settlements	1,217	67	1,151	95%
Integrated System Support	705	34	671	95%
Participant Pass Through Costs	1,968	55	1,912	97%
Support Services	-	15	(15)	
	26,697	1,712	24,985	94%
TOTAL ANNUAL BUDGET COST	1,145,791	90,051	1,055,740	92%
LESS: THIRD PARTY REVENUE				
Plant ISO Energy Sales	217,597	14,660	202,937	93%
Member Resource ISO Energy Sales	44,227	7,047	37,179	84%
Member Owned Generation ISO Energy Sales	156,158	12,457	143,700	92%
Customer Owned Generation ISO Energy Sales	1,469	(869)	2,339	159%
NCPA Contracts ISO Energy Sales	50,552	1,754	48,798	97%
Western Resource ISO Energy Sales	41,305	4,523	36,781	89%
Load Aggregation Energy Sales	-	2,986	(2,986)	
Ancillary Services Sales	6,817	477	6,340	93%
Transmission Sales	110	9	101	92%
Western Credits, Interest & Other Income	61,504	11,978	49,527	81%
	579,739	55,024	524,715	91%
NET ANNUAL BUDGET COST TO PARTICIPANTS	566,052	35,027	\$ 531,025	94%

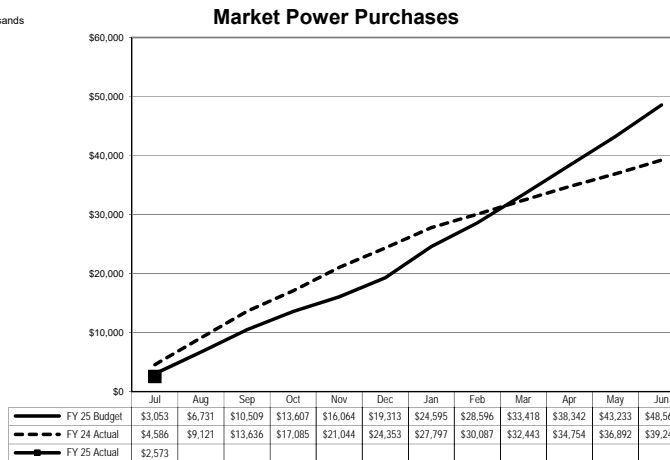
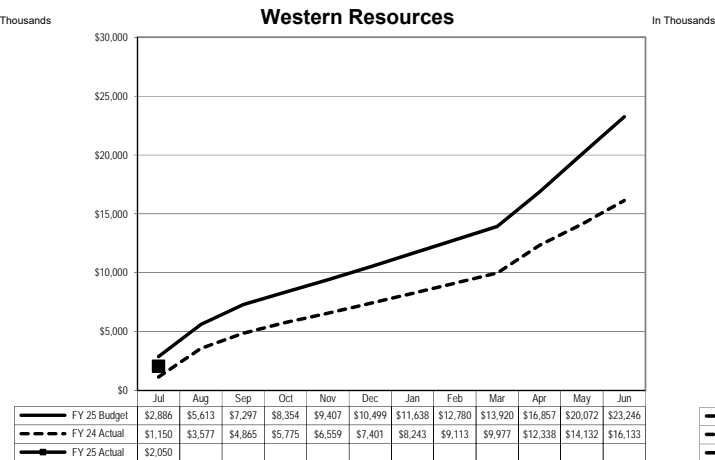
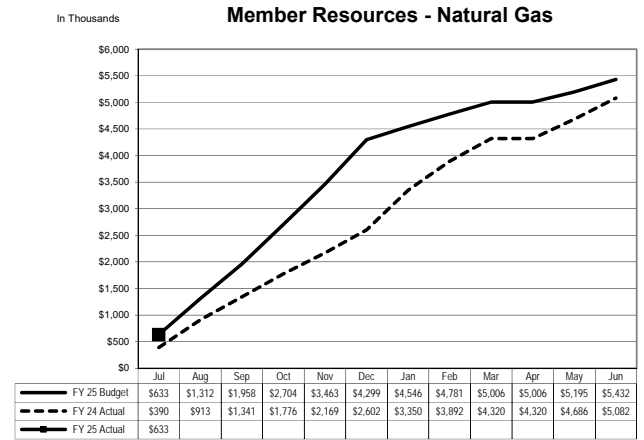
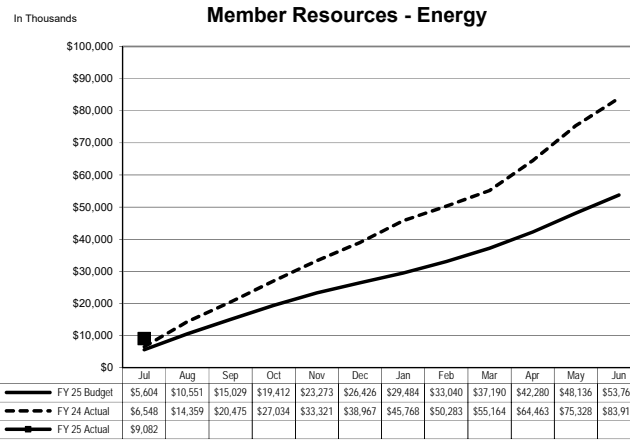
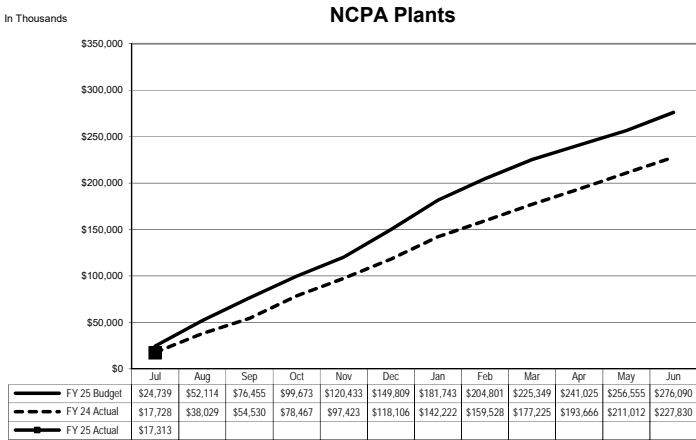


Annual Budget Budget vs. Actual By Major Area As of July 31, 2024

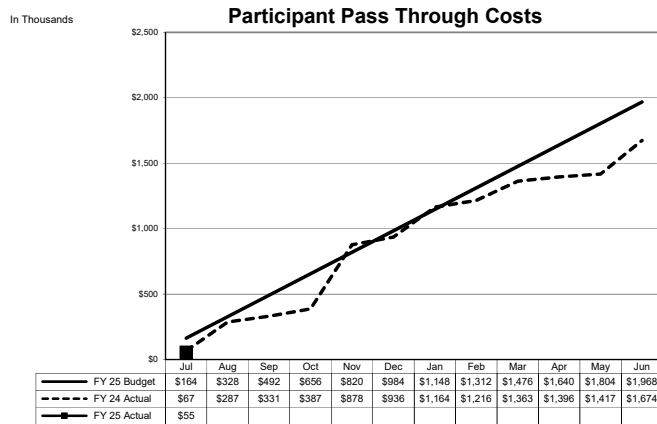
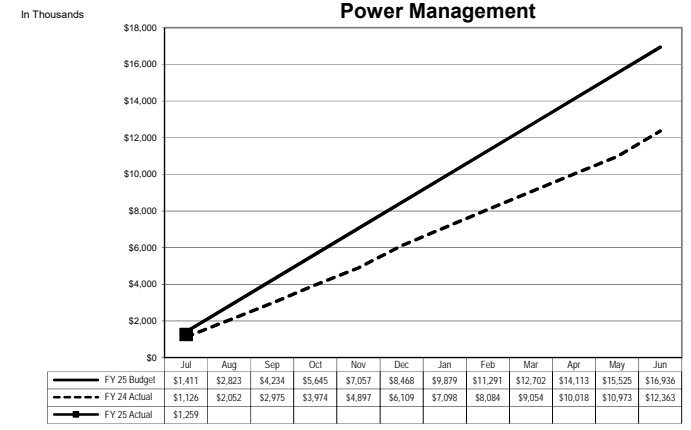
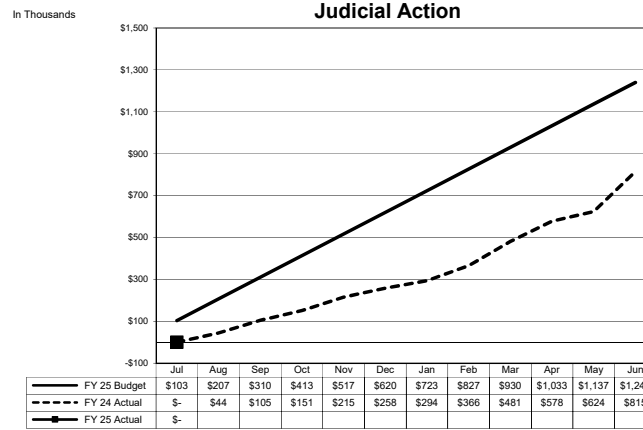
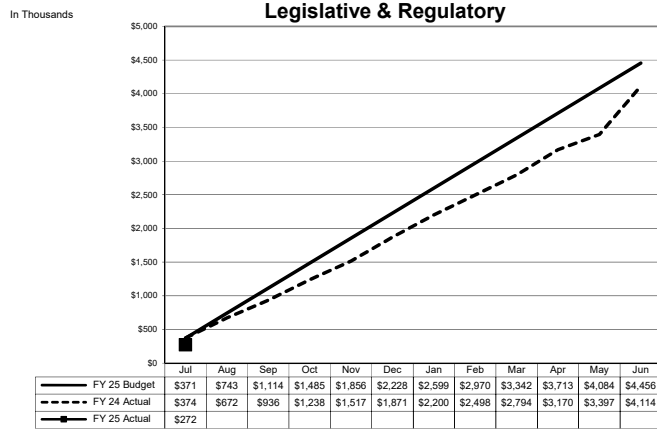


Footnote: Transmission is solely reflective of Independent System Operator (ISO) costs

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



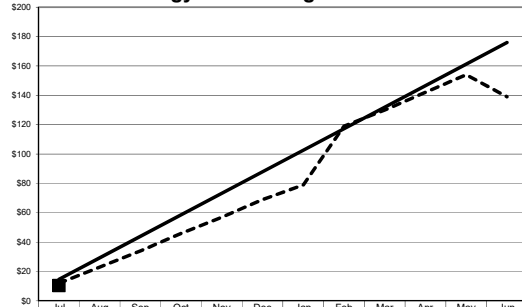
**Annual Budget Cost
Management Services Analysis By Source
As of July 31, 2024**



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

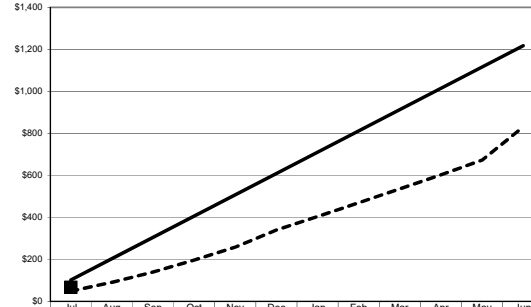
In Thousands

Energy Risk Management



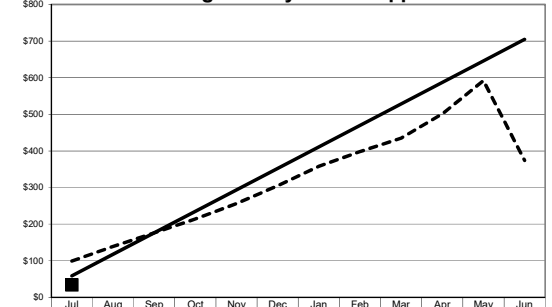
In Thousands

Settlements



In Thousands

Integrated Systems Support



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 25 Budget	\$15	\$29	\$44	\$59	\$73	\$88	\$103	\$117	\$132	\$147	\$161	\$176
FY 24 Actual	\$12	\$23	\$34	\$46	\$57	\$69	\$79	\$119	\$130	\$142	\$154	\$139
FY 25 Actual	\$11											

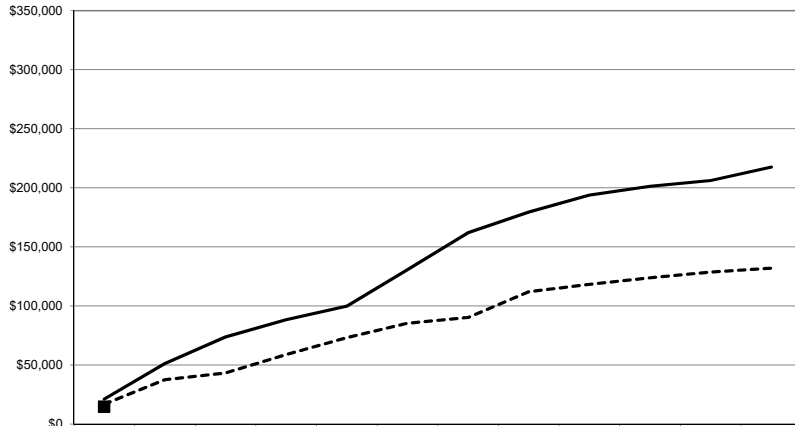
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 25 Budget	\$101	\$203	\$304	\$406	\$507	\$609	\$710	\$811	\$913	\$1,014	\$1,116	\$1,217
FY 24 Actual	\$48	\$90	\$139	\$196	\$258	\$339	\$403	\$469	\$535	\$602	\$672	\$830
FY 25 Actual	\$67											

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
FY 25 Budget	\$59	\$117	\$176	\$235	\$294	\$352	\$411	\$470	\$528	\$587	\$646	\$705
FY 24 Actual	\$99	\$139	\$176	\$214	\$256	\$305	\$358	\$398	\$435	\$501	\$592	\$374
FY 25 Actual	\$34											

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

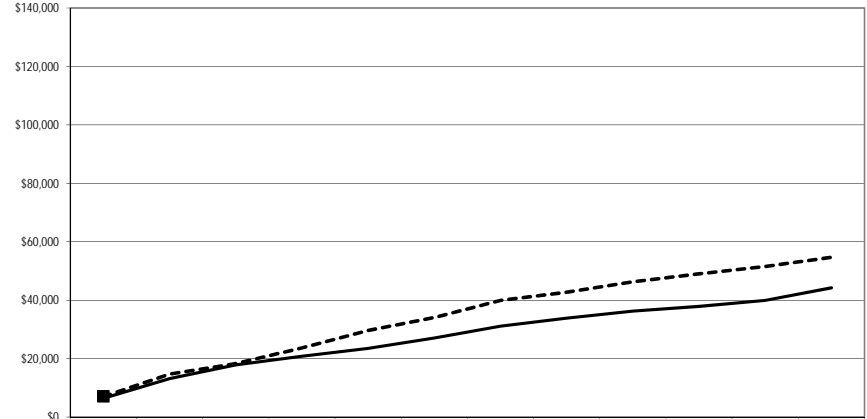
In Thousands

Plant ISO Energy Sales



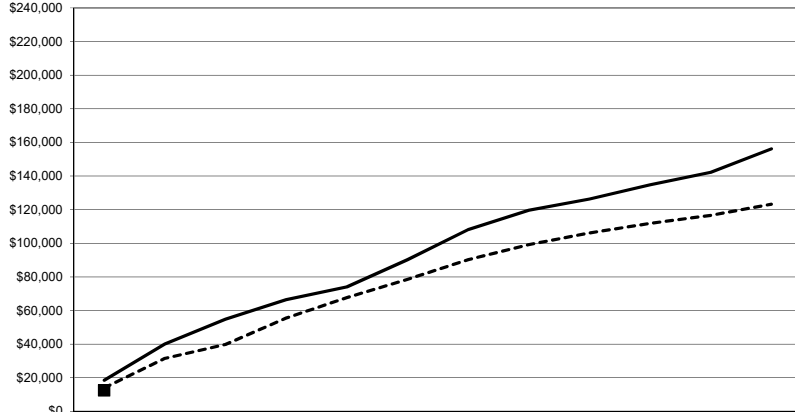
In Thousands

Member Resource ISO Energy Sales



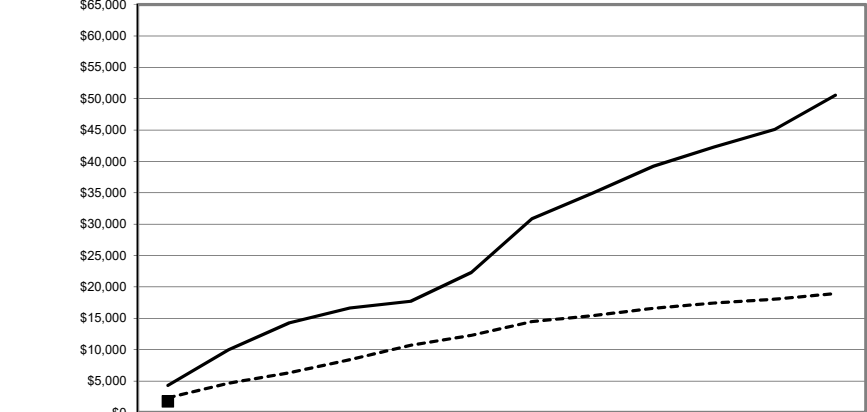
In Thousands

Member Owned Generation ISO Energy Sales

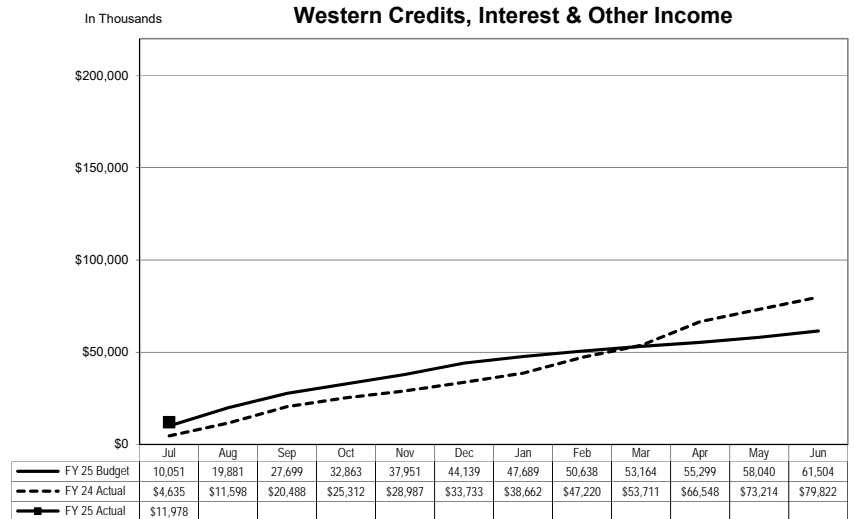
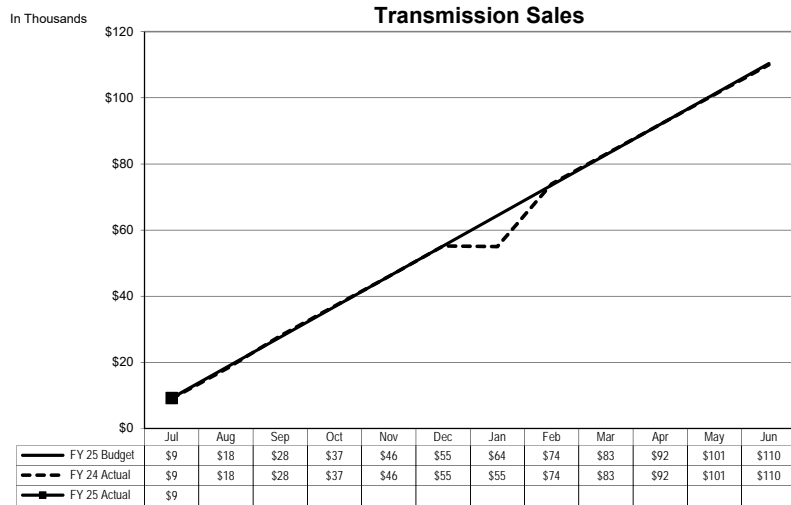
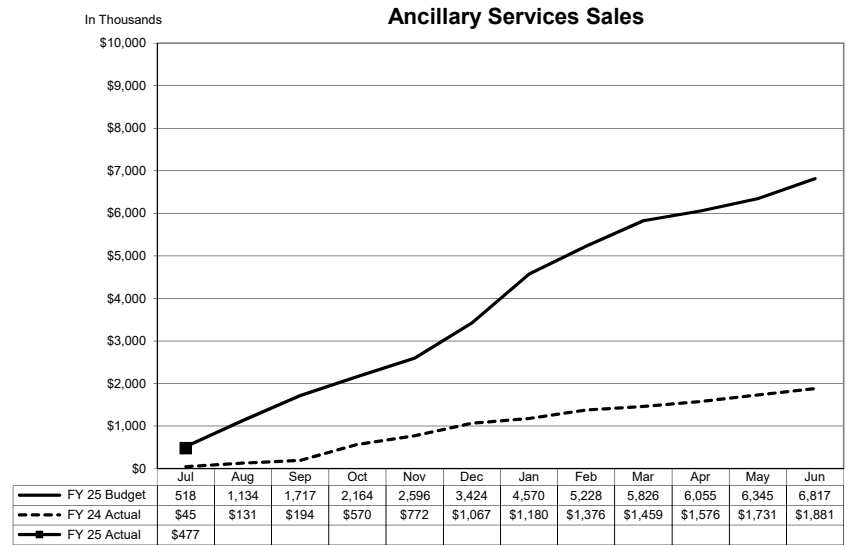
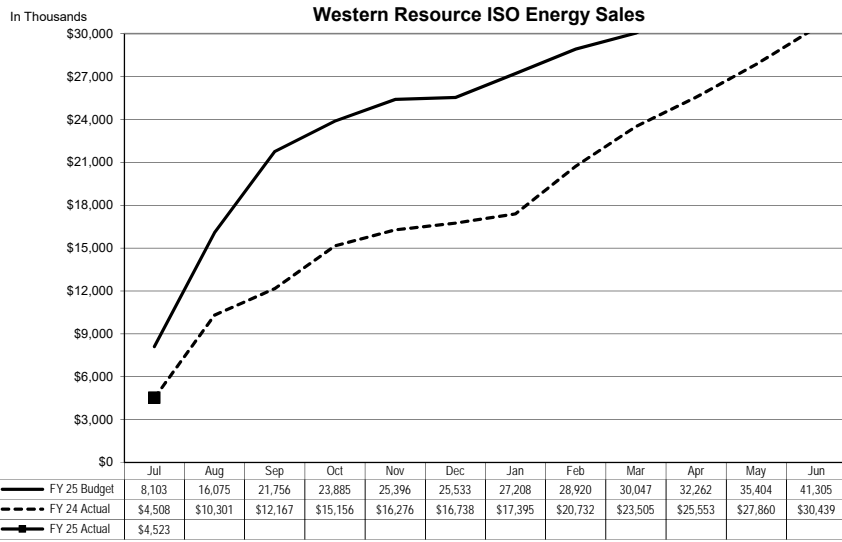


In Thousands

NCPA Contracts ISO Energy Sales



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



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

Generation Cost Analysis

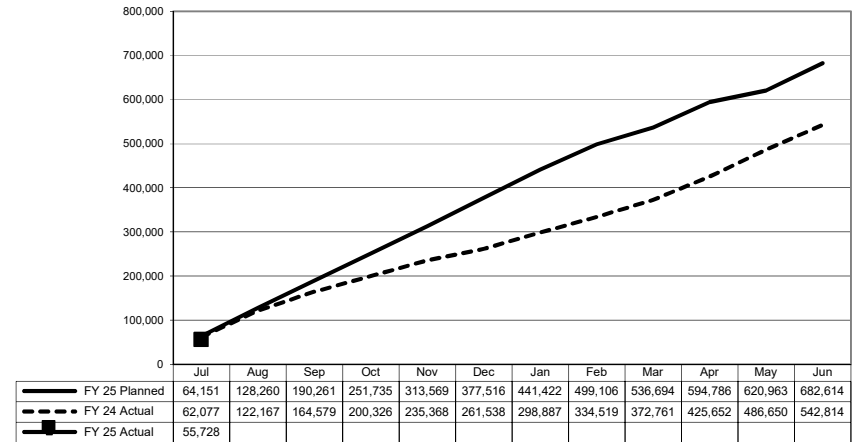
\$ in thousands

	Geothermal				
	Budget	Actual	\$/MWh	Under(Over)	YTD %
			Actual	Budget	Remaining
Routine O & M	\$ 19,906	\$ 1,602	\$ 28.75	\$ 18,304	92%
Capital Assets/Spare Parts Inventories	11,182	822	14.74	10,361	93%
Other Costs	14,932	1,077	19.33	13,855	93%
CA ISO Charges	1,022	72	1.29	950	93%
Debt Service	-	-	-	-	#DIV/0!
Annual Budget	47,043	3,573	64.12	43,470	92%
Less: Third Party Revenue					
Interest Income	150	66	1.18	84	56%
ISO Energy Sales	51,498	3,050	54.72	48,448	94%
Ancillary Services Sales	-	-	-	-	0%
Effluent Revenues	750	47	0.84	703	94%
Misc	113	9	0.17	104	92%
	52,511	3,171	56.91	49,340	94%
Net Annual Budget Cost to Participants	\$ (5,468)	\$ 402	\$ 7.21	\$ (5,870)	107%
Net Generation--MWh @ Meter	682,614	55,728			
\$/MWh (A)	\$ (8.01)	\$ 7.21			

MWhs Generated

In MWh

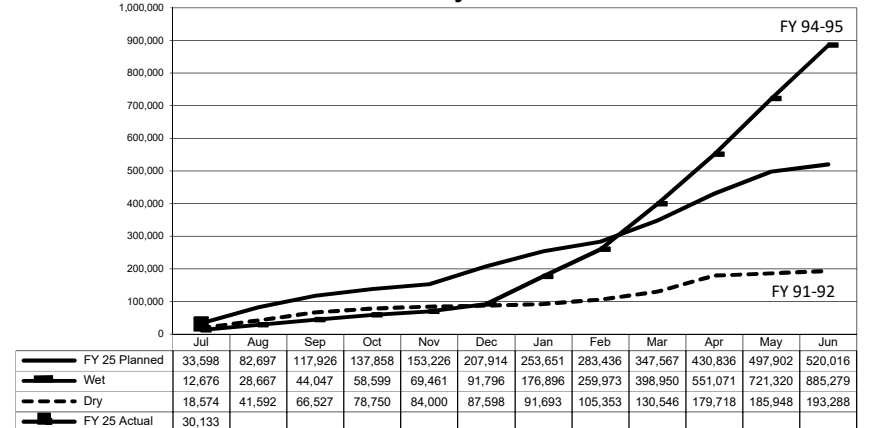
Geothermal



	Hydroelectric				
	Budget	Actual	\$/MWh	Under(Over)	YTD %
			Actual	Budget	Remaining
Routine O & M	\$ 10,998	\$ 743	\$ 24.65	\$ 10,255	93%
Capital Assets/Spare Parts Inventories	22,349	1,430	47.47	20,918	94%
Other Costs	5,395	385	12.77	5,010	93%
CA ISO Charges	1,490	409	13.58	1,081	73%
Debt Service	18,416	1,535	50.93	16,881	92%
Annual Budget	58,647	4,502	149.39	54,145	92%
Less: Third Party Revenue					
Interest Income	150	12	0.41	138	92%
ISO Energy Sales	50,167	3,414	113.29	46,753	93%
Ancillary Services Sales	4,788	172	5.72	4,595	96%
Misc	-	-	-	-	0%
	55,085	3,599	119.43	51,486	93%
Net Annual Budget Cost to Participants	\$ 3,562	\$ 903	\$ 29.97	\$ 2,659	
Net Generation--MWh @ Meter	520,016	30,133			
\$/MWh (A)	\$ (28.56)	\$ (20.96)			

In MWh

Hydro



Footnotes:

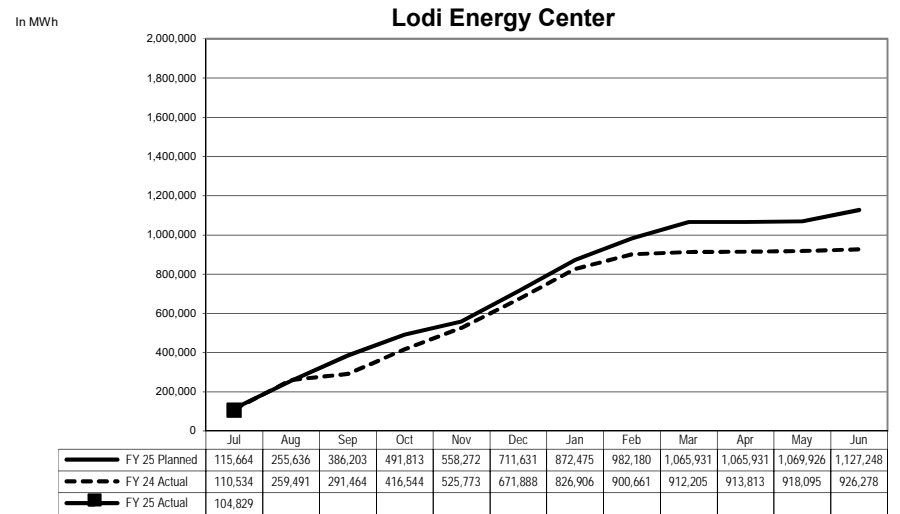
(A) Aggregate fiscal year generation in \$/MWh (excluding debt service)

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

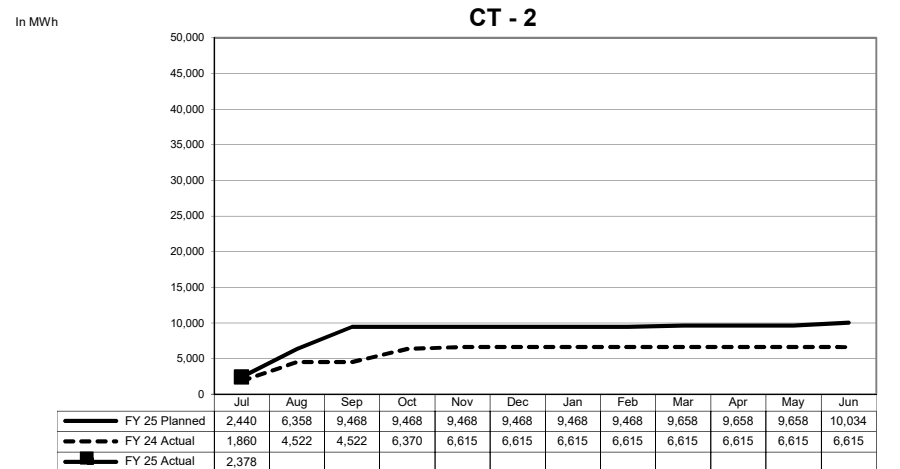
Generation Cost Analysis

	Lodi Energy Center				
	Budget	Actual	\$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	\$ 11,263	\$ 939	\$ 8.96	\$ 10,324	92%
Fuel	77,590	2,887	27.54	74,702	96%
GHG Allowance Costs	18,130	71	0.67	18,060	100%
CA ISO Charges and Energy Purchases	3,553	692	6.60	2,861	81%
Capital Assets/Spare Parts Inventories	10,858	488	4.66	10,369	96%
Other Costs	10,841	582	5.55	10,259	95%
Debt Service	26,018	2,168	20.68	23,850	92%
Annual Budget	158,252	7,828	74.67	150,425	95%
Less: Third Party Revenue					
Interest Income	250	63	0.60	187	75%
ISO Energy Sales	113,367	7,146	68.17	106,222	94%
Ancillary Services Sales	2,049	260	2.48	1,789	87%
Transfer Gas Credit	-	-	-	-	0%
GHG Allowance Credits	17,646	71	0.67	17,576	100%
Misc	-	1	0.01	(1)	0%
	133,313	7,541	71.93	125,772	94%
Net Annual Budget Cost to Participants	\$ 24,939	\$ 287	\$ 2.74	\$ 24,652	99%
Net Generation--MWh @ Meter	1,127,248	104,829			
\$/MWh (A)	\$ (0.96)	\$ (17.95)			

MWhs Generated



	Combustion Turbine No. 2 (STIG)				
	Budget	Actual	\$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	\$ 1,747	\$ 127	\$ 53.31	\$ 1,620	93%
Fuel and Pipeline Transport Charges	1,181	-	-	1,181	100%
GHG Allowance Costs	227	-	-	227	100%
Capital Assets/Spare Parts Inventories	92	-	-	92	100%
Other Costs	2,946	239	100.60	2,707	92%
CA ISO Charges	81	80	33.73	1	1%
Debt Service	421	421	177.18	-	0%
Annual Budget	6,696	867	364.82	5,828	87%
Less: Third Party Revenue					
Interest Income	42	29	11.99	14	32%
ISO Energy Sales	1,742	416	175.15	1,325	76%
Ancillary Service Sales	-	-	-	-	0%
Fuel and Pipeline Transport Credits	-	-	-	-	#DIV/0!
GHG Allowance Credits	227	-	-	227	100%
Misc	-	-	-	-	0%
	2,011	445	187.13	1,566	78%
Net Annual Budget Cost to Participants	\$ 4,684	\$ 423	\$ 177.69	\$ 4,262	91%
Net Generation--MWh @ Meter	10,034	2,378			
\$/MWh (A)	\$ 424.86	\$ 0.51			



Footnotes:

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

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

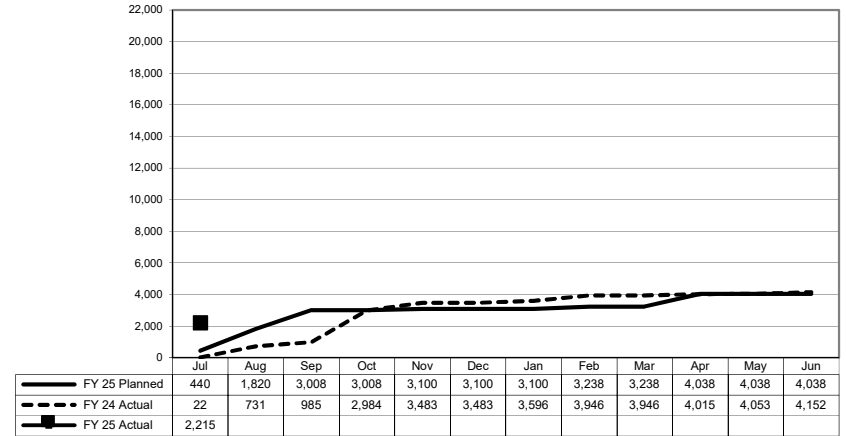
Generation Cost Analysis

	Combustion Turbine No. 1				
	Budget	Actual	\$/MWh Actual	Under(Over) Budget	YTD % Remaining
Routine O & M	\$ 2,640	\$ 283	\$ 127.57	\$ 2,358	89%
Fuel and Pipeline Transport Charges	718	15	6.86	703	98%
Capital Assets/Spare Parts Inventories	1,162	61	27.43	1,102	95%
Other Costs	906	75	33.82	831	92%
CA ISO Charges	25	103	46.53	(78)	-319%
Debt Service	-	-	-	-	
Annual Budget	5,451	536	242.21	4,915	90%
Less: Third Party Revenue					
Interest Income	55	10		45	81%
ISO Energy Sales	823	635	286.56	189	23%
Ancillary Services Sales	-	-	-	-	0%
Misc	-	-	-	-	0%
	878	645	286.56	233	27%
Net Annual Budget Cost to Participants	\$ 4,573	\$ (109)	\$ (49.02)	\$ 4,682	102%
Net Generation--MWh @ Meter	4,038	2,215			
\$/MWh (A)	\$ 1,132.56	\$ (49.02)			

MWhs Generated

In MWh

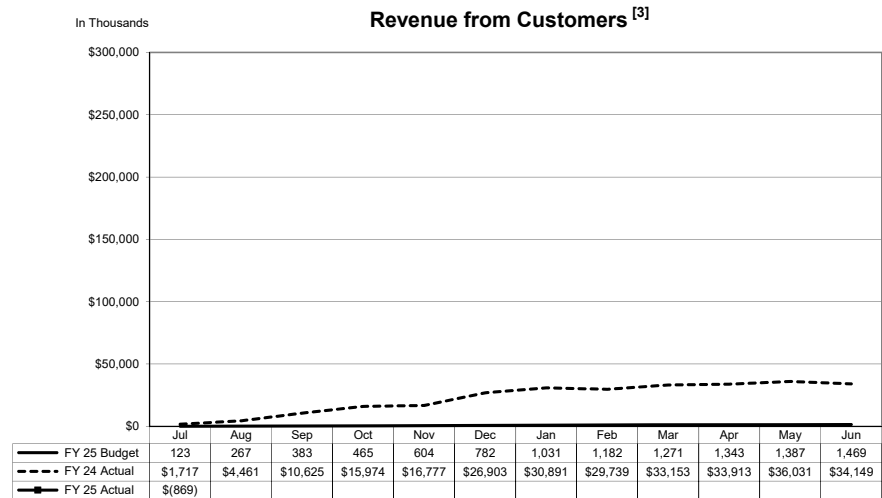
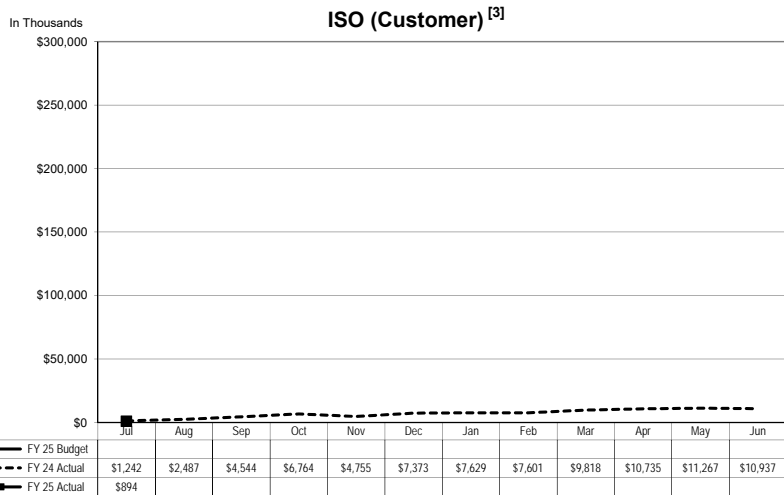
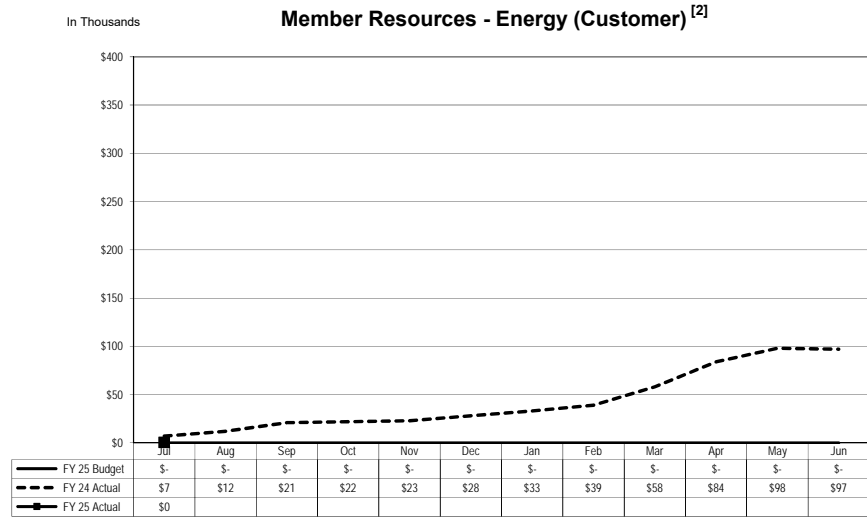
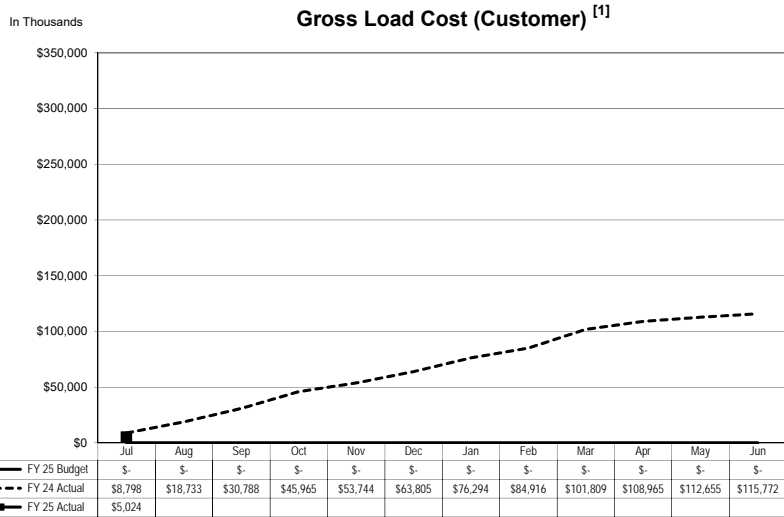
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Footnotes:

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

**Annual Budget Cost
NCPA Customers
As of July 31, 2024**



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