





BUSINESS PROGRESS REPORT

May 2023

Table of Contents

Generation Costs & Reliability	1
Environmental, Health & Safety Projects	4
Power Management/NCPA Market Results	5
Debt & Financial Management	11
Schedule Coordination Goals	12
NCPA Bills & Settlements	13
Political Arena State/Federal/Western Programs	14
Human Resources	15
Annual Budget FY to Date	17
Budget vs. Actual by Major Area	18
Generation Resources Analysis by Source	19
Management Services Analysis by Source	20
Third Party Revenue Analysis by Source	22
Generation Detail Analysis by Plant	24

Generation Costs & Reliability

Combustion Turbine Project

Unit Operation for April 2023

Unit	Availa	Availability Production		Reason for Run		
CT1 Alameda	Unit 1	Unit 2	Unit 1	465.8	MWh	CAISO / CAISO
CTTAlameda	99.9%	99.9%	Unit 2	424.2	MWh	CAISO / CAISO

Curtailments, Outages, and Comments:

Unit 1: 4/08 @ 23:57 - 4/09 @ 00:37; Loss of comms, OMS 13381828

Unit 2: 4/08 @ 23:57 - 4/09 @ 00:37; Loss of comms, OMS 13381828

Unit	Availability	Production	Reason for Run
CT1 Lodi	65.38%	0.0 MWh	CAISO

Curtailments, Outages, and Comments:

4/20 @ 14:43; Ground fault on station service underground cable, OMS 13441657. ETA 5/15.

Unit	Availability	Production	Reason for Run
CT2 STIG	0.0%	0.0 MWh	CAISO

Curtailments, Outages, and Comments:

4/01 @ 00:00 - 4/30 @ 23:59; Annual maintenance, OMS 12421602

Unit	Availability	Production	Reason for Run
LEC	0.0%	41 MWh	CAISO

Curtailments, Outages, and Comments:

4/01 @ 00:00 - 4/30 @ 23:59; Annual maintenance, OMS 12421611

Maintenance Summary – Specific per asset above.

Geothermal Facilities

Availability/Production for April 2023

Unit	Ava	ilability	Generat	ectricity ed/Water vered	Out-of-Service/Descriptors
Unit 1	0	%	0	MWh	U1 down for outage
Unit 2	100	%	22,480.00	MWh	U2 in service
Unit 3	N/A	%	N/A	-	Unit 3 remains out of service.
Unit 4	100	%	30,797aa	MWh	U 4 in service
Southeast Geysers Effluent Pipeline	100	%	234.5	mgallons	Average flow 5,427 gpm rate:
Southeast Solar Plant	N/A		125,559	KWh	Year-to-date KWh: 1,693,481
Bear Canyon Pump Station Zero Solar	N/A		108,329	KWh	Year-to-date KWh: 1,259,724

^{*} Accounts for an additional 2,273 MWh of house load for the 21KV power supply to the effluent pipeline supplied from Unit #2.

Hydroelectric Project

Availability/Production for April 2023

Units	Availability	Net Electricity Generated	Out-of-Service
Collierville Unit 1	99.22%	76084 MWh	CV Unit 1 – Out of Service on 4/3/23 from 1056 to 1630 for TWD System Trouble.
Collierville Unit 2	100%	75489 MWh	CV Unit 2 – No Outages
Spicer Unit 1	88.49%	919 MWh	NSM1- Out of Service on 4/11/23 to 4/13/23 from 0727 to 1741 for PGE work at Tiger Creek and on 4/13/23 to 4/14/23 from 1741 to 2359 for Unit Failed to Remote Start and on 4/18/23 from 1417 to 1637 for Testing
Spicer Unit 2	88.85%	900 MWh	NSM2- Out of Service on 4/11/23 to 4/13/23 from 0727 to 1741 for PGE work at Tiger Creek and on 4/13/23 to 4/14/23 from 1741 to 1547 for Unit Failed to Remote Start
Spicer Unit 3	88.79%	166 MWh	NSM3- Out of Service on 4/11/23 to 4/14/23 from 0736 to 1617 for PGE work at Tiger Creek

Operations & Maintenance Activities:

- CMMS work orders
- Winter Access Issues

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

- There were no vehicle, Lost Time, or Cal OSHA Recordable accidents in the month of April.
- 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 April 22, 2023.
- 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.

April 2023
Generation Services Safety Report

Constation	Hydro	GEO	CT Group *	NCPA HQ **
Cal OSHA Recordable (this month)	0	0	0	0
Cal OSHA Recordable (calendar year)	0	1	0	0
Days since Recordable	893	82	2,938	3,922
Work Hours Since Last Recordable	78,294	17,694	443,606	2,940,426
LTA's (this month)	0	0	0	0
LTA's (calendar year)	0	0	0	0
Days without LTA	5,672	2,801	10,842	6,935
Work Hours without LTA	510,863	280,668	855,150	2,562,444
Vehicle Incident (month)	0	0	0	0
Vehicle Incident (calendar year)	0	1	1	0

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

Data originates from OSHA logs, HR records and payroll information. Days and Hours are calculated through pay period ended April 22, 2023.

^{**} NCPA HQ: Roseville employees at the Main Office

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 2023 Data

	April 2023		Calendar Year 2023		
	Peak MW	MWh	Peak MW	MWh	
NCPA Pool	323 4/27 @ 1800	170,705	331.16 2/27 @ 1200	735,324	
SVP	602.26 4/27 @ 1700	367,214	602.26 4/27 @ 1700	1,486,063	
MSSA	922.39 4/27 @ 1800	537,919	922.39 4/27 @ 1800	2,221,387	

Last Year 2022 Data*

	April 2022		Calendar Year 2022		
	Peak MW	MWh	Peak MW	MWh	
NCPA Pool	327.03 4/7 @ 1800	170,663	511.56 9/6 @ 1600	711,432	
SVP	585.86 4/7 @ 1800	359,569	687.74 9/6 @ 1300	1,428,862	
MSSA	912.89 4/7 @ 1800	530,232	1176.2 9/6 @ 1400	2,140,294	

^{*}Last year's data added for comparison purposes only

System Peak Data

	All Time Peak Demand	2023 Peak Demand
NCPA Pool	517.83 MW on 7/24/06 @ 1500	331.16 2/27 @ 1200
SVP	687.74 MW on 9/6/22 @ 1300	602.26 4/27 @ 1700
MSSA	1176.20 MW on 9/6/22 @ 1400	922.39 4/27 @ 1800

 NCPA MSSA has a Deviation Band with the CAISO, which is used as a performance measure by the CAISO. The ability to stay within this Deviation Band is a measure of NCPA Dispatch's ability to balance the MSSA Loads and Resources on a 5minute 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						
April 2023 Calendar Year 2023						
MSSA % Within the Band	98.8%	98.79%				

CAISO Grid Test Notice 2023-04-03 08:14:00

- This is the monthly test of the California ISO Alert, Warning & Emergency (AWE) Notification System.
- This is only a test NO ACTION REQUIRED.

Pooling, Portfolio Planning & Forecasting

- NCPA Pool loads during April 2023 were 170,706 MWh versus the budget forecast
 of 178,444 MWh, resulting in a forecast error of 4.53%. The current weather outlook
 for May 2023 is for above normal temperatures and above normal rainfall. The
 Pool's May load forecast is 188,355 MWh compared with extrapolated actuals of
 189,284 MWh as of May 16, 2023.
- Lodi Energy Center (LEC) ran 1 test hour during its annual outage.
- During April 2023, 0.39" of rain was recorded at the Big Trees gauge. April average rainfall at Big Trees is 3.98". New Spicer Meadows storage increased by just over 17,100 acre feet in April.
- The Value of Storage (VOS) of New Spicer Meadow Reservoir (NSMR) has been maintained at \$90/MWh. Releases from NSMR have been increased to make room for the substantially above average snowpack. The Central Sierra snowpack peaked ~237% of April 1st average.
- New Spicer Meadows storage as of April 30, 2023 was 68,895 acre feet. The historical average storage at the end of April is 101,343 acre feet. As of May 16^{th,} storage was 92,390 acre feet.
- Combined Calaveras Project generation for the Pool in April 2023 totaled 77,913MWh, up from 69,637MWh in March 2023.
- Western Base Resource (BR) deliveries for the Pool during April 2023 were 34,291 MWh. Displacement program energy totaled 6,148 MWh. The Pool's share of expected total delivery from the Western Base Resource for May 2023 is 81,500 MWh, with 50,062 MWh having been delivered through May 16, 2023.
- The PG&E Citygate gas index averaged \$5.57 / MMBtu during the month of April as compared to an average of \$7.88 for March. May 2023 average price is \$4.28 through the 16th. The June 2023 PG&E Citygate forward price is \$4.29 / MMBtu.
- Day-Ahead PG&E DLAP electricity prices for April averaged \$63.56 / MWh On-Peak and \$59.81 Off-Peak, with a high of \$195.64 and a low of -\$5.95. DLAP prices have averaged \$22.91 On-Peak and \$20.23 Off-Peak for the period May1st through the 16th, with a low price of -\$19.51. The forward power prices for June are \$53.29 On-Peak and \$42.77 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 July 2023:
 - Monthly System Resource Adequacy Demonstration (filed May 17, 2023)
 - Monthly Supply Plan (filed May 17, 2023)

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:

Extended Day-Ahead Market ISO Balancing Authority Area Participation Rules

Through this initiative, the ISO will address ISO Balancing Authority Area (BAA)-specific elements required for Extended Day-Ahead Market (EDAM) participation, including how to allocate ISO BAA EDAM resource sufficiency evaluation (RSE) failure surcharges and revenues, and options for curing ISO BAA EDAM advisory RSE shortfalls.

- Track A1 July 2023 Board Decision
 - Criteria to set the ISO BAA's net EDAM export transfer constraint and introduction of "Reliability Margin" and "Confidence Factor" inputs.
 - o Transfer resource settlement and transfer revenue distribution.
 - o Process for recovering historical wheeling access charge revenues
 - Process to allocate RSE failure surcharges and revenues
- Track A2 Finish policy in 2023. Board approval not required
 - Avoiding RSE failures by utilizing existing ISO tariff authority.
- Track B
 - Avoiding RSE failures by utilizing new ISO tariff authority.
 - Long term solution to allocate RSE failure surcharges and revenues.

NCPA Comment summary:

NCPA supports the proposed scope however feels the timeline may be too aggressive. NCPA will request moving Track A1 to a board meeting taking place later in Q4 2023 in order to give stakeholders more time to work through details in transfer resource settlement and transfer revenue distribution and a process for recovering historical wheeling access charge revenues.

NCPA advises against excessive hold-backs or biasing in the Reliability Margin input of ISO BAA's net EDAM export transfer constraint. NCPA agrees that EDAM export transfer constraint inputs, reasons for the inputs, and the resulting outputs require transparency.

NCPA believes CAISO should not issue calls for additional offers or procure additional capacity due to advisory RSE failures. CAISO states that it generally does not have complete information available until the market closes, and it seems highly probable that there would be instances where CAISO procured additional capacity unnecessarily. It would be undesirable for these shortfall notices to disrupt the market. NCPA does not support adjusting market timelines to facilitate this. NCPA does not support CAISO acting as a centralized procurement entity for RSE products.

Western

	Western Base Resource Tracking - NCPA Pool																									
		Actual	Costs & Rates																							
	BR	BR		Base Resource &	Мо	Monthly		Monthly		Monthly		Monthly		Monthly		Monthly		SO LMP	12-	Mo Rolling						
	Forecast ¹	Delivered	Difference	Restoration Fund	Cost	of BR ²	Diffe	erential ³	Avg	. Cost of BR ⁴																
	(MWh)	(MWh)	(MWh)	(\$)	(\$/1	(\$/MWh)		(\$/MWh)		(\$/MWh)		(\$/MWh)		(\$/MWh)		(\$/MWh)		(\$/MWh)		(\$/MWh)		(\$/MWh)		/MWh)	(\$/MWh)	
Jul-22	51,082	26,633	(24,449)	\$1,733,503	\$	65.09	\$	(0.41)	\$	68.38																
Aug-22	33,542	18,632	(14,910)	\$1,733,503	\$	93.04	\$	2.72	\$	80.68																
Sep-22	20,613	7,893	(12,720)	\$1,605,598	\$	203.42	\$	(0.55)	\$	92.15																
Oct-22	8,931	10,637	1,706	\$609,688	\$	57.32	\$	0.67	\$	100.68																
Nov-22	-	4,164	4,164	\$609,688	\$	146.42	\$	0.04	\$	102.78																
Dec-22	-	3,591	3,591	\$609,688	\$	169.78	\$	0.28	\$	99.99																
Jan-23	12,388	4,782	(7,606)	\$609,688	\$	127.50	\$	(0.03)	\$	96.36																
Feb-23	18,712	1,578	(17,134)	\$609,688	\$	386.37	\$	0.13	\$	98.51																
Mar-23	12,955	2,721	(10,234)	\$609,688	\$	224.07	\$	0.26	\$	103.34																
Apr-23	41,280	40,439	(841)	\$1,349,908	\$	33.38	\$	1.05	\$	84.31																
May-23	74,195	-	0	\$1,349,908	\$	18.19	\$	-	\$	61.97																
Jun-23	78,807	-	0	\$1,349,908	\$	17.13	\$	-	\$	47.51																

- 1/ As forecasted in NCPA 22/23 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 40,439 MWh of Base Resource (BR) energy in April 2023. This
 includes displaced energy of 6,148 MWh. Estimated MEEA savings is \$36,163 and
 estimated displacement savings is \$28,400.

WAPA Integrated Resource Plan (IRP)

Pursuant to the Base Resource Contract, NCPA (on behalf of the Pool Members) are required to file an IRP of a 5-Year Prospective Plan every five years and to file an annual progress update every year.

This year, Base Resource Customers are required to file the 5-Year Plan (2024-2028) and annual progress update for 2023. The reports are due on July 1, 2023. NCPA and consultant Guy Nelson is coordinating with the Pool Members to complete this report.

Displacement Agreement Update

The existing Displacement Agreement has an end date of December 31, 2024. WAPA will send out Amendment 1 of the Displacement Agreement to extend the Displacement Contract Term for 2 years, through December 31, 2026, for customer's execution. The CVP Corp contract will also need to be amended to extend for an additional 2 years.

CVP Rate Case (Rate Order No. WAPA-207) Update

WAPA intends to file a 5-Year Power Formula Rate under Rate Order No. WAPA-207 for Central Valley Project (CVP) Power, Transmission, and Ancillary Services; and the California-Oregon Transmission Project (COTP) Transmission. This is for rate schedules that are set to expire on September 30, 2024 and December 31, 2024. A separate rate case will be conducted for the Pacific Alternating Current Intertie (PACI) rate schedule as the Transmission Exchange Agreement (TEA) is set to expire on December 31, 2024.

WAPA has held four informal meetings. Next Steps: Federal Register Notice will be published in June 2023. Formal Customer Public Information and Comment Forum in July 2023. NCPA will coordinate with the members to formulate comments.

- Key points: No changes to the existing formula rate. No material changes to the redlined rate schedules. WAPA is proposing one rate period for COTP, current rate schedule has four rates, one for each season.
- WAPA will conduct a separate rate case for PACI. This rate case will kick-off late 2023-early 2024.

Interconnection Affairs

<u>CAISO Initiative - Subscriber Participating Transmission Owner Model – NCPA Comments Summary</u>

- Supported the SPTO model for the subscribers to pay for the transmission, energy, losses, and congestion up to the point where the SPTO line connects to the CAISO grid
 - Endorsed the concept of not increasing TAC
- Opposed out of state Interconnection Customers being reimbursed for network upgrades on the CAISO system
- Supported out of state projects being part of the cluster interconnection process
- Opposed CAISO approving projects which expand the grid for out of state wind in
- the TPP process

<u>CAISO Initiative – 2023 Interconnection Process Enhancements – NCPA Comments Summary</u>

Opposed delaying the cluster process by one year

- Noted non-CPUC jurisdictional LSE's should have portfolio needs considered in the TPP
- Opposed considering specific generation such as offshore wind only

Meter Maintenance Program Development

Background

- In the past, NCPA administered a Meter Maintenance Program on behalf of select members
- The program is now expired
- CAISO Certified Meters must be certified and repaired in short order
- NCPA staff has been experiencing growing number of challenges without Meter Maintenance Program
- Staff received bids from two (2) vendors
 - Trimark Associates, Inc. Final Bid \$247K Annually
 - Ulteig Engineers, Inc. Final Bid \$148K Annually
- Scope Capability

	Trimark	Ulteig
Provide Routine Preventative Meter Maintenance	Yes	Yes
Provide Unplanned Emergency Repair/Replacement (both metering and telecomm equipment)	Included	T&M
Oversee ISP Repairs	Included	T&M
Able to Travel and Service 49 Total Meters throughout Northern CA	Yes	Yes

- September 2022 Facilities Meeting
 - Staff recommended and Committee directed developing a General Services Agreement with Ulteig Engineers, Inc.
- April 2023 Facilities Meeting
 - Committee directed moving Pooling Schedule 14 (payment by Members for Meter Maintenance) of the Second Amended and Restated Pooling Agreement to Commission

Next Steps

 Present both the Ulteig Engineers, Inc. GSA and Pooling Schedule 14 for approval at the April Commission meeting

NERC Standard TOP-003-5 Data Required by CAISO Generator Owners

 California ISO has issued a data request to incorporate cold weather data required by NERC Standard TOP-003-5.

- Generator Owners or their designees shall provide requested data via a CIDI ticket or by submitting the raw data in the CAISO website under Contact Us by July 1, 2023.
- Data request can be provided by using the Extreme Weather Template posted on the CAISO website under Market & Operations > Network and Resource and Modeling > Resource Data Submission section
- Generating unit(s) minimum:
 - 1. Design temperature; or
 - 2. Historical operating temperature; or
 - 3. Current cold weather performance temperature determined by an engineering analysis.
- Temperatures will be communicated in degrees Fahrenheit (F).
- NCPA can submit on Members behalf
 - NCPA Generator cold weather data was accepted by the CAISO on April 12, 2023

Rate Case Update – TO18 Refunds

Background

- PG&E calculated refund amount to be \$234M
- PG&E's compliance filing stated ISO is responsible for administering the refunds
- JI protested the refunds calculation citing three issues
- ISO stated it will not issue refunds until there is a FERC Order on PG&E's compliance filing

Current Status

JI and PG&E have settled two of the three outstanding issues

Next Steps

 Mid October – JI and PG&E make a joint filing describing the settlement of two of the three remaining issues and ask FERC to issue an order. This hopefully should allow ISO to issue refunds.

Debt and Financial Management

 On May 3rd, the Federal Reserve approved its 10th interest rate increase in just over a year and finally dropped a hint that the current tightening cycle is likely at an end. The widely expected decision, which takes the fed funds rate to a target range of 5% - 5.25%, was unanimous. The target rate is the highest since August 2007.

- The consumer price index rose 4.9% in April 2023 which was the smallest increase in two years. This is the 10th consecutive month that inflation was weakened from its peak in June 2022 as costs for household staples appear to be in retreat.
- At the May Finance Committee meeting, staff received recommendations for Commission approval regarding updates and revisions both the Investment Policy and Debt & Interest Rate Management Policy.
- The Investment Policy is now ready to submit to the California Municipal Treasurer's Association (CMTA) Investment Policy Certification Program. The benefits of having the policy certified will reflect the trust, confidence, and verification to NCPA's Commission that the policy has been reviewed by a professional organization and fellow CMTA members validating that it's meeting industry best practices for California's public sector agencies.
- With the potential of new projects (Geo BESS, LEC Hydrogen, STIG repower, etc.)
 on the horizon, the revised Debt Policy is now updated providing the Agency with
 clearer guidelines for the implementation and management of the issuance of bonds
 to finance necessary land acquisitions, construction, equipment, and/or other capital
 requirements.

Schedule Coordination Goals

Software Development

- Applications and Enhancements under development
 - Development of the Renewable Portfolio Standards application continues and data validation continues. Rollout delayed pending completion of other higher priority projects
 - North Spicer Meadows water release schedule automation currently being tested, anticipated rollout by end of May 2023
 - Development of a prototype for a Logging application for Dispatch and Scheduling is underway. Pause in development, a project team will be formed to develop a project plan and evaluate viable options.
 - Low Carbon Fuel Standards (LCFS) implemented into the core Bid-to-Bill applications
 - Systems configuration for EBCE's RA Import beginning July 2023
- Integrations
 - Anticipating various new resource integrations for EBCE, the Pool, and SJCE for end of Q2 COD
- IS currently working in collaboration with Accounting and the consultants to streamline the agency's Budgeting Process and Accounting Reports. Project team consisting of Accounting, IS and consultants are working on a project plan.

Network

- SCADA and Networking team is currently working with EBCE and consultants to configure and integrate Daggett Solar and Battery resource into the power portfolio. Go live is expected in Spring of 2023.
- IS continues the work toward preparing the HQ and DRC Control Centers to be compliant with the NERC CIP Medium standards. Working with AESI to review draft CIP-007, CIP-009 and CIP-010 procedures.
- IS has advertised for a SCADA Analyst position to backfill the vacancy. Anticipate interviews and candidate selection to be completed by May.
- Operations and Support has successfully finalized the migration to the new VOIP system after cutting over the Hydro plant sites this May.
- IS has purchased new Firewalls to replace hardware that will soon be off support.
 Firewalls are scheduled to be put in place at HQ/DRC and the plants over the next few months.

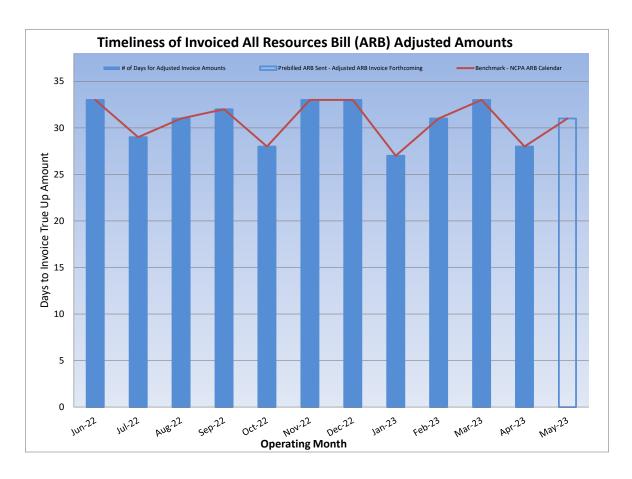
NCPA Bills & Settlements

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 May 2023 NCPA All Resources Bill (ARB) monthly invoice sent to members on April 25, 2023 contains:

- May 2023 monthly pre-billed budget/forecast amounts;
- March 2023 (1st Adjustment) NCPA Project and CAISO Initial settlement true-ups;
- February 2023 (2nd Adjustment) NCPA Project settlement true-up and T+20 business day recalculated CAISO settlement true-up allocations;
- December 2022 (3rd Adjustment) T+70 business day recalculated CAISO settlement true-up allocations and NCPA Projects true-up;
- April 2022 (4th Adjustment) T+11-month recalculated CAISO settlement true-up allocations;
- March 2021 (6th Adjustment) T+24-month recalculated CAISO settlement true-up;
- May 2020 (6th Adjustment) T+33-month recalculated CAISO settlement true-up;
- February 2020 (7th Adjustment) T+36-month CAISO settlement true-up;



Legislative & Regulatory

Customer Programs Update:

• The California Air Resources Board (CARB) adopted the Advanced Clean Fleets regulation on April 28, 2023, with a commitment from CARB staff to work with fleets on implementation and regularly update the Board. The regulation will go into effect on January 1, 2024, starting with a 50% purchase requirement for public agency fleets within high-population counties. Starting on January 1, 2027, 100% of public agency fleet purchases will be required to be ZEV. There are a number of exemptions to address unavailability of vehicles, duty cycle, infrastructure delays, and mutual aid needs - but they are limited in scope and are unlikely to address every issue faced by utility fleets. The NCPA Fleets Task Force will shift its focus to understanding the new ACF requirements, discussion of potential pathways for compliance, and will elevate regulatory questions and issues as they arise.

NCPA and a coalition of utility representatives strongly advocated against the regulation citing reliability and safety concerns. While improvements were made as a result of the advocacy effort, there are still several provisions of concern in the final regulation. The coalition is now focused on addressing these matters in the State Legislature.

Legislative Update:

 Members of the Northern California Power Agency (NCPA) and the Northwest Public Power Association (NWPPA) in Washington, DC on April 30th, 2023 for our joint 19th Annual Federal Policy Conference. The conference portion of the event featured congressional and agency representatives as well as other thought leaders focusing on climate policy, the congressional energy agenda, implementation of key tax provisions from the Inflation Reduction Act, and opportunities to address energy priorities in the Farm Bill. Over the following three days, NCPA and NWPPA members participated in over 32 meetings with representatives from federal regulatory and other agencies and congressional offices to advocate for policies that support public power's key federal policy priorities, which include hydrogen integration at the Lodi Energy Center, addressing supply chain challenges facing the electricity industry, and direct pay for public power systems, among others. Working together with our partners in the Pacific Northwest, we collectively shared our policy objectives with Members of Congress covering nine states, including several who sit on key committees of jurisdiction over energy, tax, and natural resource issues.

Human Resources

Hires:

- Benjamin Guy joined NCPA's Hydroelectric Facility as Hydro Compliance Engineer, effective April 17, 2023. Ben joined us most recently from COWI and Mott MacDonald as a project manager. In this role, he provided a range of services that supported the planning, design, and construction of various projects. Ben brings 10 years of engineering experience and holds a Bachelor of Science in Environmental Engineering from the University of California, Merced.
- Richard Ennis joined NCPA's Hydroelectric Facility as Hydro Tech, effective April 24, 2023. Rich joined us from the Tri-Dam Project, where he was the lead maintenance worker. In this role, he was responsible for scheduling, assigning, and supervising the work of staff in the skilled maintenance and repair of hydroelectric power plants, dams, canals, roads, micro-wave/radio sites, and related facilities. Rich brings 17 years of experience in power generation operations and maintenance.
- Julie Kenkel joined NCPA's Lodi Energy Center as a Facility Office Administrator, effective May 8, 2023. Julie joins us from BAC Community Bank, where she was a Compliance Specialist. In this role, she was a Certified Community Banking Compliance Officer and reviewed and monitored all departments for compliance with laws and regulations, created action plans, and administered the training program. Julie holds an Associate's degree in Accounting from San Joaquin Delta College and brings over 25 years of administrative experience.
- Ryan Dunisch joined NCPA's Lodi Energy Center as a CT Specialist III (Operator), effective May 15, 2023. Ryan joins us from the Campbell Soup Cogeneration Plant, where he was a Lead Operations and Maintenance Technician. In this role, he operated the power plant, performed maintenance, and served as a safety committee Chairperson, and PI Process book System Administrator. Ryan holds a Bachelor of Science degree in Mechanical Engineering from California State University, Sacramento, and previously served in the United States Navy.
- Jack "Ryan" Yarrish joined NCPA's Lodi Energy Center as a CT Specialist III
 (Operator), effective May 15, 2023. Ryan joins us from Calpine's Delta Energy
 Center, where he was a Power Plant Operator. In this role, he operated and
 maintained systems associated with a 3x1 combined cycle power plant. Jack
 previously served in the United States Marine Corps, holds a Grade 2 Waste Water

Operator license with the State of California, and brings 11 years of power plant operations experience.

 Aaron Socey joined NCPA's Lodi Energy Center as a CT Specialist III (Operator), effective May 15, 2023. Aaron joins us from Ethos Energy Group, where he was an Operations and Maintenance Technician II at the Cosumnes Power Plant. In this role, he operated and maintained systems associated with a 2x1 combined cycle power plant, which included a zero liquid discharge water treatment system. Aaron previously served in the United States Navy and brings over 15 years of experience in the power industry.

Intern Hires:

- Gabriel Oliver joined NCPA's Hydroelectric Operations on May 8, 2023, as a Student Assistant II.
- The Agency welcomed Abigail Goss, Student Assistant III, on May 8, 2023. Abbie will spend the summer interning with the City of Redding.

Promotions:

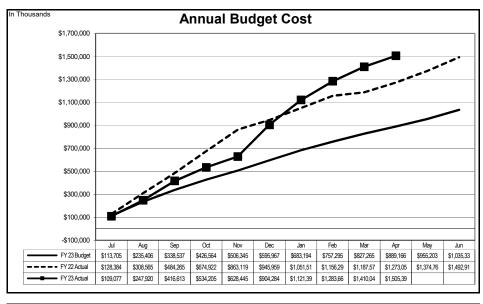
James Holton was promoted to Supervisor II, Operations (Geo), effective April 23, 2023. Jim joined NCPA in 2010 as a Technician Operator III and most recently has been in the role of Technician Operator – Lead Person. During his time at NCPA, Jim has continued to develop his professional skills and demonstrates a high level of professionalism and willingness to take on new assignments. In this new role, Jim's knowledge and expertise will be vital in supporting NCPA's Geothermal project to meet our strategic goals.

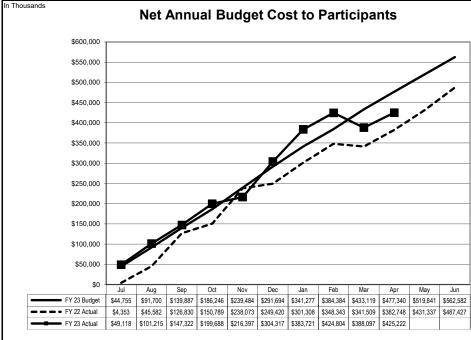
Separations:

 Scott Aistrup retired from his position as a CT Specialist V at NCPA's Lodi Energy Center on May 1, 2023, after 21 years of service.

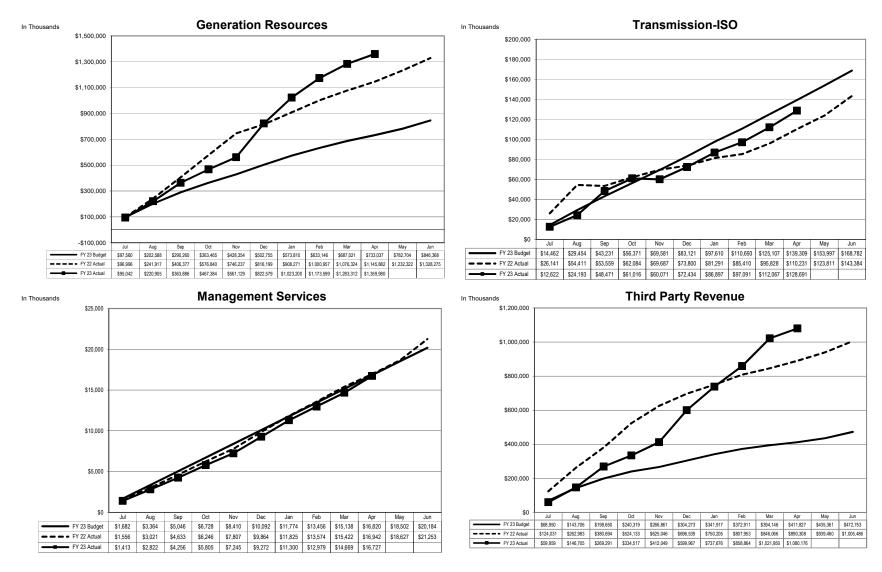
Annual Budget 2022-2023 Fiscal Year To Date As of April 30, 2023

In Thousands		Program		
	Annual		Under(Ovr)	YTD %
GENERATION RESOURCES	Budget	Actual	Budget	Remaining
NCPA Plants				
Hydroelectric	55,514	51,878	\$ 3,636	7%
Geothermal Plant	41,633	36,074	5,559	13%
Combustion Turbine No. 1	5,602	5,077	524	9%
Combustion Turbine No. 2 (STIG)	10,361	7,895	2,466	24%
Lodi Energy Center	137,737	182,922	(45,186)	-33%
Mambau Bassurasa - Francis	250,847	283,847	(33,000)	-13%
Member Resources - Energy Member Resources - Natural Gas	63,024	77,871	(14,847)	-24%
Western Resource	2,474	2,318	156	6%
Market Power Purchases	26,100	17,373	8,727	33% -37%
Load Aggregation Costs - ISO	35,533	48,632	(13,098)	-
Net GHG Obligations	467,469	926,434	(458,966)	-98%
Net Grid Obligations	921 846,368	3,505 1,359,980	(2,584) (513,612)	-281% -61%
TRANSMISSION	040,300	1,359,960	(513,012)	-01%
Independent System Operator	168,782	128,691	40,091	24%
MANAGEMENT SERVICES				
Legislative & Regulatory				
Legislative Representation	2,231	1,530	702	31%
Regulatory Representation	715	576	139	19%
Western Representation	723	226	496	69%
Customer Programs	615	413	202	33%
	4,284	2,745	1,539	36%
Judicial Action	460	495	(35)	-8%
Power Management				
System Control & Load Dispatch	7,504	5,875	1,629	22%
Forecasting & Prescheduling	3,044	2,278	766	25%
Industry Restructuring	438	378	61	14%
Contract Admin, Interconnection Svcs & Ext. Affairs	1,032	767	264	26%
Gas Purchase Program	77	45	32	41%
Market Purchase Project	112	65	47	42%
	12,208	9,408	2,799	23%
Energy Risk Management	150	108	42	28%
Settlements Integrated System Support	1,012	523	489	48%
Participant Pass Through Costs	405	241	164	40%
Support Services	1,666	1,246 1,960	419 (1,960)	25%
Support Services	20,184	16,727	3,457	17%
TOTAL ANNUAL BUDGET COST	1,035,334	1,505,398	(470,064)	-45%
TOTAL ANNUAL BUDGET COST	1,033,334	1,303,390	(470,004)	4070
LESS: THIRD PARTY REVENUE				
Plant ISO Energy Sales	193,457	307,459	(114,002)	-59%
Member Resource ISO Energy Sales	49,954	107,842	(57,888)	
Member Owned Generation ISO Energy Sales	118,709	202,003	(83,294)	-70%
Revenue from Customers	-	83,933	(83,933)	
Customer Owned Generation ISO Energy Sales	24.044	1,954	(1,954)	E00/
NCPA Contracts ISO Energy Sales Western Resource ISO Energy Sales	34,944	55,306	(20,362)	-58% 46%
Load Aggregation Energy Sales	26,527	14,446 165,391	12,081 (165,391)	4070
Ancillary Services Sales	5.514	3.766	1.748	32%
Transmission Sales	110	92	1,740	17%
Western Credits, Interest & Other Income	43.537	137,985	(94.447)	-217%
	472,753	1,080,176	(607,423)	-128%
-				
NET ANNUAL BUDGET COST TO PARTICIPANTS	562,582	425,222	\$ 137,360	24%



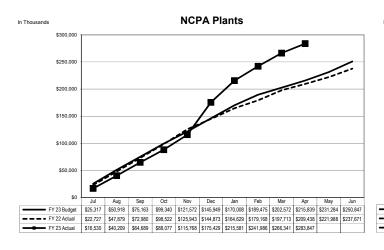


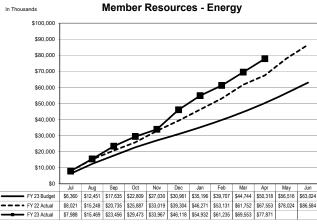
Annual Budget Budget vs. Actual By Major Area As of April 30, 2023

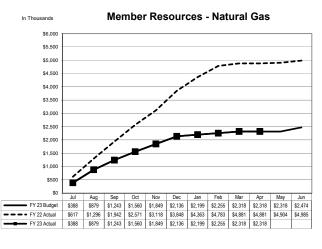


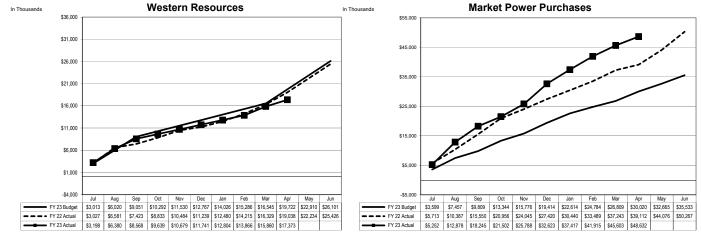
Footnote: Transmission is solely reflective of Independent System Operator (ISO) costs

Annual Budget Cost Generation Resources Analysis By Source As of April 30, 2023



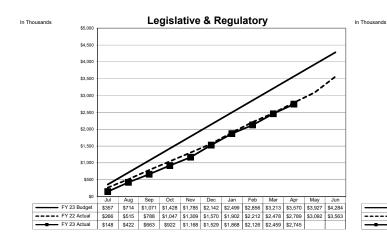


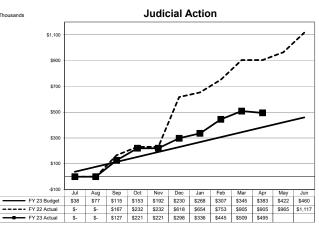


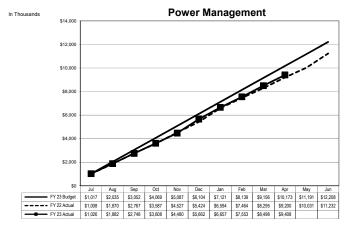


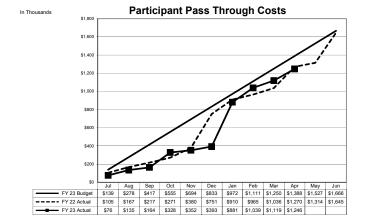
Footnote: Other Resources (Graeagle, BART PV, Gridley PV) are included in Market Power Purchases

Annual Budget Cost Management Services Analysis By Source As of April 30, 2023

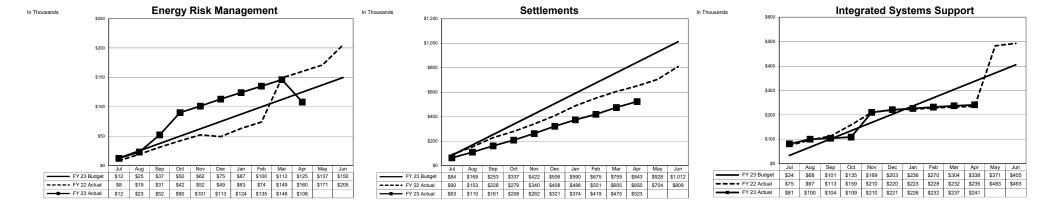




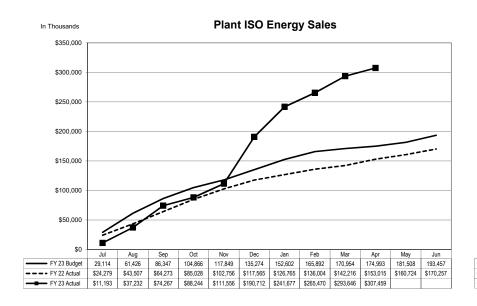


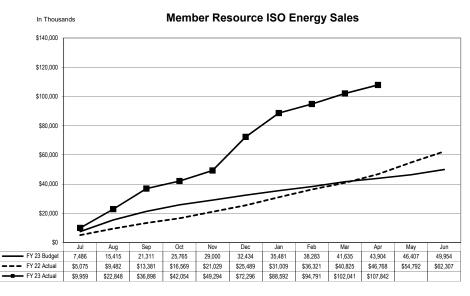


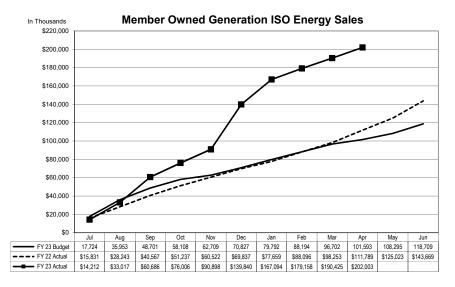
Annual Budget Cost Management Services Analysis By Source As of April 30, 2023

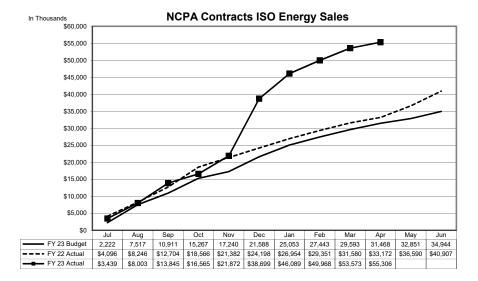


Annual Budget Cost Third Party Revenue Analysis By Source As of April 30, 2023

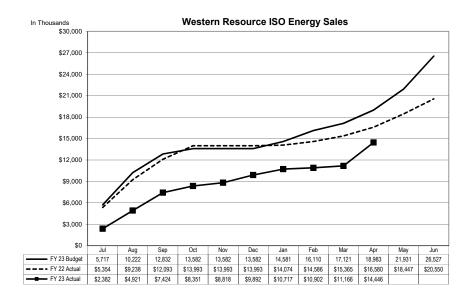


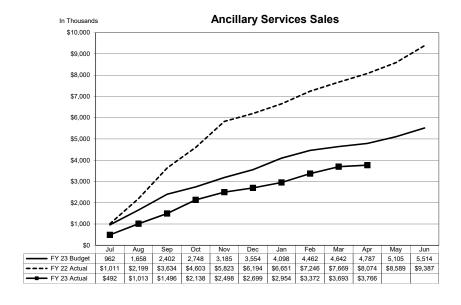


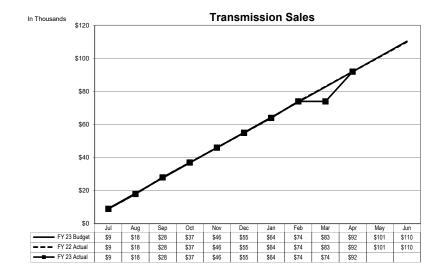


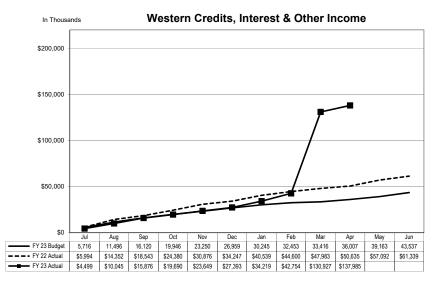


Annual Budget Cost Third Party Revenue Analysis By Source As of April 30, 2023









Annual Budget NCPA Generation Detail Analysis By Plant As of April 30, 2023

Generation Cost Analysis

\$ in thousands

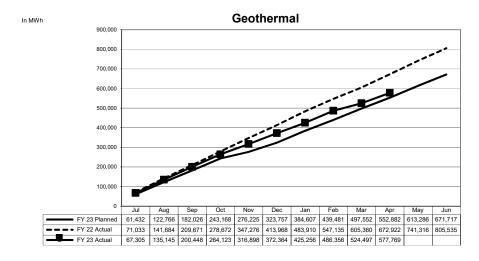
_			Ge	othermal			
				\$/MWh	Unde	r(Over)	YTD %
	Budget	Actual		Actual	Bu	dget	Remaining
Routine O & M	\$ 17,798	\$ 17,814	\$	30.83	\$	(17)	0%
Capital Assets/Spare Parts Inventories	7,401	3,573		6.18		3,828	52%
Other Costs	12,357	10,658		18.45		1,700	14%
CA ISO Charges	604	1,135		1.96		(531)	-88%
Debt Service	3,473	2,894		5.01		579	17%
Annual Budget	41,633	36,074		62.44		5,559	13%
ess: Third Party Revenue							
Interest Income	150	234		0.40		(84)	-56%
ISO Energy Sales	42,271	63,247		109.47		(20,976)	-50%
Ancillary Services Sales	-	-		-		-	0%
Effluent Revenues	750	920		1.59		(170)	-23%
Misc	113	95		0.16		18	16%
	43,284	64,496		111.63		(21,212)	-49%
Net Annual Budget Cost to Participants	\$ (1,651)	\$ (28,422)	\$	(49.19)	\$	26,771	-1621%
Net GenerationMWh @ Meter	671,717	577,769					
S/MWh (A)	\$ (7.63)	\$ (54.20)					

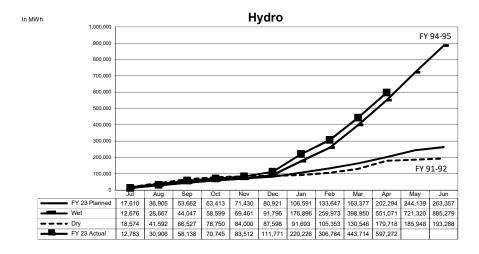
			Hy	droelectric	;		
			Ĺ	\$/MWh	U	nder(Over)	YTD %
	Budget	Actual		Actual		Budget	Remaining
Routine O & M	\$ 10,203	\$ 7,248	\$	12.13	\$	2,955	29%
Capital Assets/Spare Parts Inventories	4,270	3,656		6.12		614	14%
Other Costs	3,993	3,948		6.61		45	1%
CA ISO Charges	1,237	7,184		12.03		(5,947)	-481%
Debt Service	35,811	29,843		49.96		5,969	17%
Annual Budget	55,514	51,878		86.86		3,636	7%
ess: Third Party Revenue							
Interest Income	150	174		0.29		(24)	-16%
ISO Energy Sales	22,182	72,346		121.13		(50,164)	-226%
Ancillary Services Sales	1,224	2,985		5.00		(1,761)	-144%
Misc	-	6		0.01		(6)	0%
	23,556	75,510		126.43		(51,955)	-221%
Net Annual Budget Cost to Participants	\$ 31,958	\$ (23,632)	\$	(39.57)	\$	55,590	
Net GenerationMWh @ Meter	263,357	597,272					
S/MWh (A)	\$ (14.63)	\$ (89.53)					

Footnotes:

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

MWhs Generated





Annual Budget NCPA Generation Detail Analysis By Plant As of April 30, 2023

Generation Cost Analysis

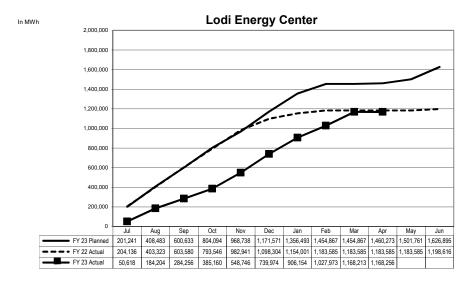
	Lodi Energy Center									
						\$/MWh		nder(Over)	YTD %	
		Budget		Actual		Actual		Budget	Remaining	
Routine O & M	\$	9,826	\$	8,821	\$	7.55	\$	1,005	10%	
Fuel		64,819		120,733		103.34		(55,914)	-86%	
GHG Allowance Costs		20,250		12,268		10.50		7,982	39%	
CA ISO Charges and Energy Purchases		2,970		8,722		7.47		(5,751)	-194%	
Capital Assets/Spare Parts Inventories		3,631		2,359		2.02		1,273	35%	
Other Costs		10,244		8,356		7.15		1,888	18%	
Debt Service		25,996		21,664		18.54		4,333	17%	
Annual Budget		137,737		182,922		156.58		(45,186)	-33%	
Less: Third Party Revenue Interest Income Interest Income So Energy Sales Ancillary Services Sales Transfer Gas Credit GHG Allowance Credits Misc		250 121,620 2,318 - 19,710 - 143,897		1,016 165,433 523 - 12,268 10 179,250		0.87 141.61 0.45 - 10.50 0.01 153.43		(766) (43,814) 1,794 - 7,441 (10) (35,353)	-306% -36% 77% 0% 38% 0% -25%	
Net Annual Budget Cost to Participants	\$	(6,160)	\$	3,673	\$	3.14	\$	(9,832)	160%	
Net GenerationMWh @ Meter		1,626,895		1,168,256		_				
\$/MWh (A)	\$	(19.77)	\$	(15.40)						

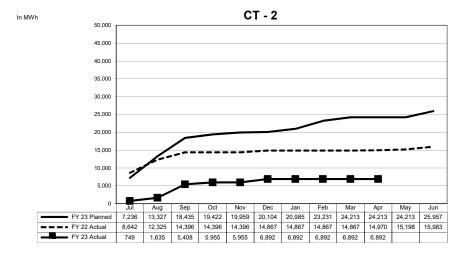
	Combustion Turbine No. 2 (STIG)								
						\$/MWh	ι	Inder(Over)	YTD %
		Budget		Actual		Actual		Budget	Remaining
Routine O & M	\$	1,616	\$	1,087	\$	157.73	\$	529	33%
Fuel and Pipeline Transport Charges		2,227		6,603		958.17		(4,377)	-197%
GHG Allowance Costs		424		-		-		424	100%
Capital Assets/Spare Parts Inventories		220		-		-		220	100%
Other Costs		643		(4,032)		(585.06)		4,675	727%
CA ISO Charges		148		-		-		148	100%
Debt Service		5,084		4,237		614.73		847	17%
Annual Budget		10,361		7,895		1,145.58		2,466	24%
Less: Third Party Revenue									
Interest Income		42		111		16.04		(69)	-163%
ISO Energy Sales		4,331		2.540		368.54		1,791	41%
Ancillary Service Sales		-		-		-			0%
Fuel and Pipeline Transport Credits		1.775		7,680		1.114.32		(5,905)	-333%
GHG Allowance Credits		424		-		, <u>-</u>		424	100%
Misc		-		3		0.37		(3)	0%
		6,572		10,333		1,499.27		(3,760)	-57%
Net Annual Budget Cost to Participants	\$	3,789	\$	(2,438)	\$	(353.69)	\$	6,227	164%
Net GenerationMWh @ Meter		25,957		6,892					
\$/MWh (A)	\$	(49.88)	\$	(968.43)					

Footnotes:

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

MWhs Generated





Annual Budget NCPA Generation Detail Analysis By Plant As of April 30, 2023

Generation Cost Analysis

	Combustion Turbine No. 1								
		Budget		Actual		\$/MWh Actual		nder(Over) Budget	YTD % Remaining
Routine O & M	\$	2,530	\$	2,024	\$	300.01	\$	506	20%
Fuel and Pipeline Transport Charges		1,214		1,114		165.16		99	8%
Capital Assets/Spare Parts Inventories		800		529		78.32		271	34%
Other Costs		882		763		113.09		119	13%
CA ISO Charges		176		647		95.81		(471)	-268%
Debt Service		-		-				-	
Annual Budget		5,602		5,077		752.39		524	9%
Less: Third Party Revenue									
Interest Income		55		66				(11)	-20%
ISO Energy Sales		3,053		3,893		576.96		(840)	-28%
Ancillary Services Sales		-		-		-		-	0%
Misc		-		-		-		-	0%
		3,108		3,959		576.96		(851)	-27%
Net Annual Budget Cost to Participants	\$	2,493	\$	1,118	\$	165.64	\$	1,375	55%
Net GenerationMWh @ Meter		11,514		6,748					
\$/MWh (A)	\$	216.54	\$	165.64					

Footnotes:

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

MWhs Generated

