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Generation Costs & Reliability

Combustion Turbine Project

Unit Operation for January 2021

Unit	Unit Availability Production		Reason for Run			
CT1 Alameda	Unit 1 100.0	Unit 2	Unit 1	0.0	MWh	CAISO / CAISO
	%	%	Unit 2	0.0	MWh	

Curtailments, Outages, and Comments:

Unit 1: Normal operation.

Unit 2: Normal operation.

Unit	Availability	Production	Reason for Run
CT1 Lodi	100.0%	0.0 MWh	CAISO

Curtailments, Outages, and Comments:

Normal operation.

Unit	Availability	Production	Reason for Run
CT2 STIG	100.0%	0.0 MWh	CAISO

Curtailments, Outages, and Comments:

Normal operation.

Unit	Availability	Production	Reason for Run
LEC	99.5%	27,121 MWh	CAISO

Curtailments, Outages, and Comments:

1/15 @ 13:06 - 17:06: Cooling tower trouble, OMS 9667117

Maintenance Summary - Specific per asset above.

Geothermal Facilities

Availability/Production for January 2021

Unit	Availability	Net Electricity Generated/Water Delivered	Out-of-Service/Descriptors	
Unit 1	100 %	21,335 MWh	U1 had no outages for the month	
Unit 2	99.06 %	*21,948 MWh	U2 was OOS 1/31 0600 until 1/31 1245 for 2B circ pp repair.	
Unit 3	N/A %	N/A	Unit 3 remains out of service.	
Unit 4	82.33 %	22,126 MWh	U4 was OOS 1/25 0300 until 1/30 1440 due to PG&E line outage and inner condenser tube cleaning/PG&E line back 1/26 @ 1715.	
Southeast Geysers Effluent Pipeline	65 %	78.3 mgallons	Average flow rate: 1,717 gpm	
Southeast Solar Plant	N/A	27,205 KWh	Year-to-date KWh: 3,211,864	
Bear Canyon Pump Station Zero Solar	N/A	68,109 KWh	Year-to-date KWh: 4,666,805	

^{*} Accounts for an additional 732 MWh of house load for the 21KV power supply to the effluent pipeline supplied from Unit #2.

Hydroelectric Project

Availability/Production for January 2021

Units	Availability	Net Electricity Generated	Out-of-Service
Collierville Unit 1	100%	6691 MWh	CV Unit 1 – No Outages
Collierville Unit 2	100%	250 MWh	CV Unit 2 – No Outages
Spicer Unit 1	91.99%	28 MWh	NSM1 was out of service on 1/28/21 to 1/30/21 from 0808 to 1944 due to PGE 21kV line outage
Spicer Unit 2	88.19%	563 MWh	NSM2 was out of service on 1/28/21 to 1/30/21 from 0808 to 1913 due to PGE 21kV line outage and on 1/30/21 to 3/31/21 from 1913 to 2359 due to site access issues.
Spicer Unit 3	88.19%	112 MWh	NSM3 was out of service on 1/28/21 to 1/30/21 from 0808 to 1913 due to PGE 21kV line outage and on 1/30/21 to 3/31/21 from 1913 to 2359 due to unit being islanded supplying house power only.

Operations & Maintenance Activities:

- CMMS work orders
- Winter Snow Removal Site access work
- Utica Dam Low Level Outlet Valve Stem Guide repair
- One in 5 year Adit 2 Tunnel Inspection

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

- There were no Cal OSHA Recordable, Lost Time, or vehicle accidents in the month of January.
- 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 January 30, 2021.
- 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.

January 2021
Generation Services Safety Report

Generation dervices datety Report				
	Hydro	GEO	CT Group *	NCPA HQ **
Cal OSHA Recordable (this month)	0	0	0	0
Cal OSHA Recordable (calendar year)	0	0	0	0
Days since Recordable	111	921	2,126	3,110
Work Hours Since Last Recordable	9,262	190,972	317,870	2,633,366
LTA's (this month)	0	0	0	0
LTA's (calendar year)	0	0	0	0
Days without LTA	4,860	1,989	10,030	6,123
Work Hours without LTA	441,833	407,947	728,414	2,255,384
Vehicle Incident (month)	0	0	0	0
Vehicle Incident (calendar year)	0	0	0	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 January 30, 2021.

^{**} 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 2021 Data

	January 2021		Calendar Year 2021		
	Peak MW	MWh	Peak MW	MWh	
NCPA Pool	329.69 1/26 @1900	190,970	329.69 1/26 @1900	190,970	
SVP	482.41 1/28 @1300	329,492	482.41 1/28 @1300	329,492	
MSSA	804.83 1/27 @ 1900	520,462	804.83 1/27 @ 1900	520,462	

Last Year 2020 Data*

	January 2020		Calendar Year 2020		
	Peak MW	MWh	Peak MW	MWh	
NCPA Pool	336.72 1/16 @1900	197,528	467.45 8/14 @ 1700	197,528	
SVP	472.32 1/16 @1200	316,398	586.3 8/14 @ 1700	316,398	
MSSA	804.23 1/16 @ 1200	513,926	1053.75 8/14 @ 1700	513,926	

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

System Peak Data

- Joseph Found					
	All Time Peak Demand	2021 Peak Demand			
NCPA Pool	517.83 MW on 7/24/06 @ 1500	326.69 1/26 @ 1900			
SVP	587.78 MW on 6/11/19 @ 1600	482.41 1/28 @ 1300			
MSSA	1070.79 MW on 9/1/17 @ 1700	804.83 1/27 @ 1900			

 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						
January 2021 Calendar Year 2						
MSSA % Within the Band	98.89%	98.89%				

- NCPA continues to operate in a split operation with the SC's working out of the backup control center and the system dispatchers working out of the primary control center due to COVID-19.
- CAISO issued an Operating Instruction for all VER resources to not exceed their DOT until further notice at 1245, 1/25/2021.
- CAISO terminates the previous Operating Instruction for all VER resources not to exceed their DOT at 1341, 1/25/2021.

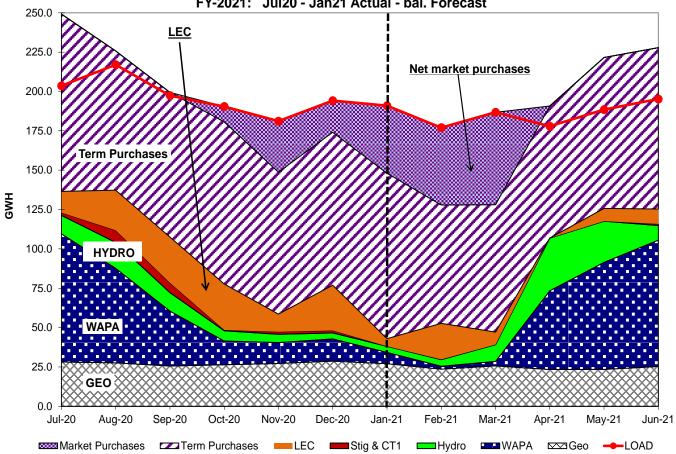
Pooling, Portfolio Planning & Forecasting

- NCPA Pool load during January 2021 was 190,971 MWh, or 96.5% of forecast due
 to temperature variations and continuing uneven demand resulting from Covid
 mandates and restrictions. Pool load during February 2021 may continue slightly
 below normal compared to the same period a year ago, despite weather-related
 heating demand fairly high during the first week of the month.
- Lodi Energy Center (LEC) produced 4,878 MWh for the pool during January, or about a quarter of the forecasted generation. The unit was committed 12 of the 31 days. Despite the current volatile market pricing structure, LEC was projected to generate 22,875 MWh for the pool during February 2021, though rising gas prices may serve to reduce economic generation from this forecast by again shortening daily run times.
- During January 2021, 12.29" of rain was recorded at the Big Trees gauge. Average January Big Trees precipitation is 10.24".
- The Value of Storage (VOS) of New Spicer Meadow Reservoir (NSMR) has been maintained at \$150/MWh.
- NSMR storage as of January 31, 2021 was at 66,755 acre feet. The historical average NSMR storage at the end of January is 76,373 acre feet. As of February 16, 2021 NSMR storage is 65,282 acre feet. The current NCPA Pool share of NSMR storage is 33,518 acre feet.
- Combined Calaveras Project generation for the Pool in January 2021 totaled 3.9 GWh, slightly up from 3.8 GWh in December 2020. The Pool's 3.9 GWh in January 2021 was less than the pre-month forecast of 5.6 GWh.
- Western Base Resource (BR) deliveries for the Pool during January 2021 were well above the forecasted 1,888 MWh at 7,174 MWh, with Displacement program energy still on pause. Western's forecast for the pool's share of February 2021 generation drops back again to 1,888 MWh.
- The PG&E Citygate gas index averaged \$3.785/MMBtu for delivery on February 8, 2021, well above the average PG&E gas price during January of \$3.525/MMBtu. Gas prices have generally increased this month as production lags due to cold temperatures causing well freeze-offs, upstream usage reduces pipe flows, and power burn and LNG feed gas demand have grown. The February 2021 PG&E Citygate Bidweek price is \$3.55/MMBtu, down 12.5 cents from the January 2021 Bidweek price and far different from February 2020's \$2.73 as the era of gas oversupply appears to be over.
- Day-Ahead NP15 electricity prices averaged \$35.46/MWh (HLH) and \$31.46 (LLH) during January 2021, with evening ramp hour prices reaching only as high as \$65.91 on one occasion at TH_NP15.

	NCPA Pool Loads & Resources Value Summary												
	Pea	ak and Energ	y Summary		Estimated Pro	duction Costs	Cost of Serving Demand						
	Jan-21												
			Pre-Month										
	Coincident		Forecast										
	Peak (MW)	Total MWh	Values	Avg. MW	NCPA	Pool							
	Jan-26-21 Hour 19				Cost/Revenue (Estimate)	Variable Cost (\$/MWh)	Totals	Avg (\$/MWh)					
Demand	329.7	190,971	197,990	256.7	N/A	N/A							
							at Market Clearing Price						
WAPA	-	7,174	1,888	9.6	\$ 909,162	\$ 126.73	\$ 6,693,112	\$ 35.0					
Geothermal	-	27,075	26,172	36.4	514,426	19.00							
Hydro	-	3,900	5,572	5.2	23,400	6.00							
Stig & CTs	-	-	-	-	-	14.10	at Variable Cost	of Pool Generatio					
LEC	-	4,878	20,128	6.6	157,953	32.38							
Contracts	-	105,039	99,059	141.2	5,471,441	52.09	\$ 9,126,892	\$ 47.7					
Market - Net (Net Sales = Negative)	329.7	42,905	45,171	57.7	1,482,291	34.55							
Net Total	329.7	190,971	197,990	256.7	\$ 8,558,673	\$ 47.79							

Į				Mon	thly	y Market	Summai	ry				
					•	g Variable ost of Pool	Forwa	rd P	rices (EOX NP15	HL	H Ask Prices)	NOTES TO SUMMARY TABLE:
		Pool Energy	HL	•	G	eneration		N	IP15 1/4/2021	2	/8/2021 (\$/MWh)	
		(MWh)		(\$/MWh)		(\$/MWh)			(\$/MWh)			Peak and Energy Summary:
	Jul-20	203,610	\$	27.80	\$	37.25	Feb-21	\$	40.91	\$	46.00	* Monthly generation summary of Coincidental Peak (hour in which pool demand peaked),
	Aug-20	216,986	\$	59.74	\$	41.08	Mar-21		35.37		34.49	total MWH for the month, and pre-month forecasted values for report period.
	Sep-20	195,756	\$	46.66	\$	45.40	Apr-21		28.81		30.19	* Generation totals are for POOL SHARE of the projects.
	Oct-20	216,986	\$	59.74	\$	45.47	Q2 2021	\$	32.81	\$	32.62	* Hydro totals include Collierville and Spicer generation.
	Nov-20	181,145	\$	40.43	\$	44.27	Q3 2021		60.30		62.99	Estimated Production Costs:
	Dec-20	194,203	\$	42.06	\$	44.17	Q4 2021		47.82		46.96	* Fixed project costs not included except for WAPA, where total month's project costs
	Jan-21	190,971	\$	35.05	\$	47.79	CY2021	\$	45.04	\$	46.20	are used to calculate the average unit cost.
	Feb-21						CY2022		43.40		42.59	 STIG and CT costs include forward natural gas and basis hedge transactions.
	Mar-21						CY2023		39.09		38.37	* STIG & CT costs reflect \$2.60 and \$1.62/MWH variable O&M costs per 6-12-06 GSCA.
	Apr-21						CY2024		36.94		36.76	Cost of Serving Demand:
	May-21						CY2025		35.99		35.55	Compares price of meeting total monthly demand with (1) Hourly pool market clearing price;
L	Jun-21						CY2026		35.66		34.79	(2) Variable cost of pool gen. Pool Gen is sum of estimated costs divided by sum of generation

NCPA POOL RESOURCES FY-2021: Jul20 - Jan21 Actual - bal. Forecast



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 April 2021:
 - Monthly System Resource Adequacy Demonstration (filed February 15, 2021)
 - Monthly Supply Plan (filed February 15, 2021)

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:

Market Enhancements for Summer 2021 Needs Initiative

- This continues to be the focus of CAISO efforts. The initiative is rapidly evolving and has been fast tracked for March 2021 Board of Governors' approval. The straw proposal was published on January 29, 2021 in Power Point format. The draft final proposal will be made available on February 17, 2021. The latest updates were presented at the February 11, 2021 Department of Market Surveillance Committee meeting. Key provisions include:
 - Price Taker Exports contracted with non-RA capacity, Wheel Throughs, and internal Load will share top priority in CAISO Day Ahead and Read Time market runs.
 - Provide real-time market imports with a make whole payment during system warnings and alerts
 - Expand Reliability Demand Response Resources bid dispatchable option from 5 minutes to 5, 15, and 60 minutes and incorporate into load forecast.
 - State of charge requirement for storage during to be determined "critical hours".

Extended Day-Ahead Market

- This initiative has been put on hold pending Day Ahead Market Enhancements initiative development.
- CAISO published Bundle 1 Straw Proposal and held stakeholder meeting. Bundle consists of Resource Sufficiency Evaluations (RSE), Congestion and Transfer revenue allocation, and Transmission cost allocation.
- RSE is relatively uncontroversial and is similar in concept to ISO/CPUC RA program in that it is intended to ensure that EDAM participants have sufficient capacity, transmission, flexibility, and reserves to serve own loads and prevent leaning on other participants. RSE is currently active in EIM. Congestion and Transfer revenue allocations relatively uncontroversial as well. Congestion is intra-BAA and allocated to load that pays for transmission. Transfers occur inter-BAA and will be allocated to transmission owners. The controversial topic is transmission cost allocation. CAISO proposes to declare most transmission costs as sunk and only apply usage fee to incremental exports and EIM wheeling transfers. NCPA and others are concerned that those paying for transmission will not be fairly compensated.
- This initiative will develop an approach to extend participation in the Day-Ahead market to the Western Energy Imbalance Market (EIM) entities in a framework similar to the existing EIM approach for the real-time market, rather than requiring full integration into the CAISO balancing area. The extended Day-Ahead market

(EDAM) will improve market efficiency by integrating renewable resources using Day-Ahead unit commitment and scheduling across a larger area.

Resource Adequacy Enhancements

- Phase 1 final proposal will be published mid to late February.
- Phase 2A draft final proposal and Phase 2B seventh revised straw proposal will be published in April 2021.
- CAISO held four stakeholder meetings in early January to cover the content.
 - o The initiative has been split into two phases. Phase 1 will include planned outage process enhancements, RA Import requirements, operationalizing storage, and backstop capacity procurement focused on CPM for local energy sufficiency. All changes planned outage process enhancement are scheduled to become effective June 2021 while the others are slated to go live in time for the 2022 RA year (Jan. 2022). The primary outage process enhancement is requiring generators to submit substitution up front for all planned outages submitted after T-45 day RA filings. NCPA will object to that change and begrudgingly support status quo. RA Import enhancements focus on determining the source of an RA import. Western is sufficiently covered under the new definition of resource specific since it includes a "system of resources" such as CVP. We are still reviewing the operationalizing storage and CPM proposals.
 - o Phase 2 includes unforced capacity evaluations, determining system RA requirements, system RA showing and sufficiency testing individual assessments, must offer obligations and bid insertion modifications, UCAP for local studies, backstop capacity procurement, more planned outage process enhancements, system RA showings and sufficiency testing portfolio assessment. Issues with this phase include counting rules being taken from the LRA and handed to the CPUC or other LRAs. However, CAISO is maintaining MSS exemptions to bid insertion and must offer obligations.

Day-Ahead Market Enhancements

- This initiative has been delayed due to the Summer 2021 Readiness Initiative taking priority.
- CAISO delayed publication of next straw proposal and announced that it will propose enhancements to RUC. NCPA seeking clarity for if new Reliability Capacity product remains.
- CAISO responded to NCPA's proposed redlines regarding Load Following Metered Sub-system treatment but we will need to see how they fit in with the next proposal which is due for publication on Dec. 7, 2020.
 - Rejected language exempting LFMSS from reliability cost allocations
 - Accepted IRP Tier 1 proposal to base cost on LFMSS net portfolio deviations
 - Rejected IRP Tier 2 proposal to base cost on LFMSS net portfolio deviations and countered by proposing to base cost on net metered demand
 - Rejected NCPA tariff redlines.
- This initiative will explore new Day-Ahead products that will address ramping needs between intervals and uncertainty that can occur between the Day-Ahead and realtime markets.
- CAISO reviewed the need for new products along with data supporting uncertainty concerns:

- Uncertainty between Day-Ahead and real-time market has increased from 2017 to 2019 and CAISO operators are addressing this development with out of market actions which disrupts market efficiency
- Historically, generators had higher certainty to know if they would be scheduled in real-time
- Due to uncertainty and changing resource fleet, commitment decisions are no longer necessarily known
- Gas, hydro, storage, and imports need to cover costs to be available for dispatch in real-time – this will be accomplished with imbalance reserves

• Two new products:

- Imbalance Reserve Product (IRP) will be designed to address granularity and uncertainty between Day-Ahead and real-time markets:
 - Hourly product;15-minute dispatchable; Biddable; Covers granularity difference and uncertainty between DAM and FMM; All awards are cooptimized and settled simultaneously; DAM has no energy price formation issue because the market solves all hours in a single optimization; Stepped relaxation parameters (proposed)
- Reliability Capacity: replaces RUC process used to address gaps between bid in demand and forecast demand.
- Implementation is set to fall 2022.

Transmission Access Charge Structure Enhancements

- CAISO has pushed the initiative back to Q4 2022 in the latest Policy Roadmap and Annual Plan. NCPA is drafting comments to request that it be brought back into 2021.
- Initiative is currently on hold pending developments from EDAM initiative.
- This initiative considers changes to the CAISO's current volumetric Transmission Access Charge (TAC) structure for recovering participating transmission owners' costs of owning, operating and maintaining transmission facilities under CAISO operational control. The CAISO will consider stakeholder input on the initiative scope, which will include possible changes to reflect the benefits of distributed resources in reducing future transmission needs.
- CAISO's draft final proposal includes a hybrid billing determinant consisting of volumetric and peak demand functions at an approximately 50/50 split in order to address costs shifts as well as the full impact of high coincident peak demand, low load factor UCD areas that have relatively lower volumetric use compared to high load factor areas. It received general support from the market and will be presented to the CAISO Board in 2021 and will be implemented at a to be determined point thereafter. The CAISO is working to align the TAC Board consideration with the Extended Day-Ahead Market (EDAM) process so they are aligned to the extent possible. The TAC proposal may possibly need to be updated if the EDAM proposal aspects related to transmission issues drive changes to the TAC initiative.
- NCPA performed an impact analysis and determined that NCPA members would mostly benefit or be indifferent to the new billing determinant so long as certain LFMSS benefits remain in place.

Western

Western Base Resource Tracking (NCPA Pool)

		West	ern Base R	esource Tracking	g - NCPA Po	ool								
		Actual			Costs & Rates									
	BR	BR		Base Resource &	Monthly	CAISO LMP	12-Mo Rolling							
	Forecast ¹	Delivered	Difference	Restoration Fund	Cost of BR ²	Differential ³	Avg. Cost of BR ⁴							
	(MWh)	(MWh)	(MWh)	(\$)	(\$/MWh)	(\$/MWh)	(\$/MWh)							
Jul-20	83,801	81,392	(2,409)	\$1,825,459	\$ 22.43	\$ 0.13	\$ 27.37							
Aug-20	61,985	59,998	(1,987)	\$1,826,020	\$ 30.43	\$ (0.23)	\$ 27.68							
Sep-20	41,023	41,391	368	\$1,811,655	\$ 43.77	\$ 0.60	\$ 27.62							
Oct-20	30,317	22,596	(7,721)	\$909,162	\$ 40.24	\$ 11.76	\$ 29.62							
Nov-20	14,598	13,280	(1,318)	\$909,162	\$ 68.46	\$ 0.10	\$ 30.44							
Dec-20	13,128	14,102	974	\$909,162	\$ 64.47	\$ 0.79	\$ 31.48							
Jan-21	6,278	7,174	896	\$909,162	\$ 126.73	\$ 1.02	\$ 32.15							
Feb-21	16,372	-	(16,372)	\$909,162	\$ 55.53	\$ -	\$ 32.65							
Mar-21	26,497	-	(26,497)	\$909,162	\$ 34.31	\$ -	\$ 33.10							
Apr-21	41,629	-	(41,629)	\$1,982,665	\$ 47.63	\$ -	\$ 34.58							
May-21	74,036	-	(74,036)		\$ 26.78	\$ -	\$ 35.36							
Jun-21	93,177	-	(93,177)	\$1,982,665	\$ 21.28	\$ -	\$ 35.44							
1/	As forecaste	d in NCPA 20	/21 Budget											
2/	= (Western (Cost + Restora	ation Fund)/B	R Delivered, for Pool	Participants of	only.								
3/	= (MEEA LMI	P - PG&E LAP	LMP) using pu	ublic market informat	tion (i.e. not s	ettlement qua	ality).							
	Based on BR impact.	Delivered (A	ctual) when a	available and BR Fore	cast in all oth	er cases. Inclu	des CAISO LMP							

- NCPA Pool received 7,174 MWh Base Resource (BR) energy in January 2021 for an estimated savings of \$7,300. There was zero MWh of Displacement Energy as the program is temporary suspended through March 31, 2021 due to limited base resource availability forecast.
- Pool Members' total savings under Market Efficiency Enhancement Agreement (MEEA) for Pool Members was approximately \$7,300 in January 2021.
 The cumulative net MEEA savings for NCPA FY 2021 is about \$248,400 for July 2020 through January 2021.

2025 Base Resource Contract

 The contract service period beings January 1, 2025 and shall remain in effect through December 31, 2054, subject to prior termination. WAPA sent out the BR Contract electronically on September 15, 2020. Each entity will have six months to execute and return to WAPA by March 16, 2021.

Interconnection Affairs

PG&E Update

TO-18 Rate Case

- On October 15, 2020 FERC issued a ruling on the PG&E Transmission Owner Tariff 18 Filing.
- The ruling came over four years after the initial filing and over two years from an initial favorable decision back in 2018.
- The ruling is not the end of TO-18 as FERC has requested further testimony and briefs on ROE matters. The initial decision reduced ROE from 10.40% to 9.13%.
- Once ROE is decided, TO-18 rates will be effective for a 12 month period from March 1, 2017 – Feb 28, 2018.
- TO-19, which was settled at a TRR of 98.85% of TO-18 will be effective for a 14 month period from March 1, 2018 April 30, 2019.
- TANC estimates (without ROE adjustment) a decrease in the HV TAC of \$0.3494/MWh and a decrease in PG&E's LV access charge of \$1.167/MWh for the period March 1, 2017 through February 28, 2018.
- Next Step: Reply briefs on ROE by Joint Intervenors is due by Feb 12.

Permanent Inter-Tie Switch Between Geo Plants 1 and 2

- The permanent no load intertie switch has been approved by the CAISO. The switch
 can be used when either the Fulton or Lakeville line is out of service to combine the
 outputs of Geo Plant 1 and Plant 2.
- NCPA and PG&E operating procedure is complete.
- Use of the Intertie Switch is still pending CPUC approval. Interim solution if necessary will be to use the temporary jumpers as in Jan of 2020.

TO-20 Rate Case

Interim rates will go into effect January 1, 2021.

Cotenancy Agreement

 PG&E with support from NCPA and SVP filed an amendment that acknowledged CDWR's request for termination. The amendment rejected CDWR's request, pending resolution of the Cost of Removal dispute. All other matters have been delayed until this issue is resolved. On September 27, 2019 FERC rejected PG&E's amendment stating PG&E cannot unilaterally extend the term of the Agreement. FERC did not address the cost of removal aspect and the calculation methodology. NCPA has initiated discussions with members as to how much capacity from CDWR's share should NCPA take. Pending the outcome of the capacity discussion, NCPA and SVP will look at next steps. More updates will be provided to members as they become available.

Transmission Planning BPM Updated Modeling Data Submittal

- CAISO is requiring Generators to submit updated modeling data to ensure CAISO has current and accurate system information.
- NCPA has submitted updated data and power flow models for Hydro, all Geo, and all CT units. With the exception of New Spicer Meadows, all NCPA units are deemed compliant by the ISO. New Spicer modeling data is due the first quarter of 2022.

Stakeholder Transmission Asset Review (STAR) Process

- NCPA's objective in PG&E's Stakeholder Transmission Asset Review process is to participate and influence lower cost alternatives where possible, identify projects which may benefit members, and introduce Member Specific Projects.
- On December 1, 2020, PG&E submitted a 10-year capital plan to all stakeholders.
 The list included 1,596 total projects (equal to or greater than \$1M) and over 500 supporting documents (Project Authorizations/Business Cases).
- NCPA drafted stakeholder comments with more emphasis on projects which are in planning (i.e. not in construction phase), projects which fall under the "work requested by others" category, projects which are on hold due to CAISO or CPUC action, and projects which might be related to non-CAISO controlled facilities.
- Next step is for PG&E to reply to stakeholder comments and hold a stakeholder meeting by March 1, 2021.

Debt and Financial Management

- Minutes released from the January Federal Reserve meeting showed that officials see the economy "far from" the central bank's goals of a strong labor market recovery and inflation up to at least 2%. Their summary also stated it will take some time for substantial further progress to be achieved. As a result, that meant holding benchmark short-term borrowing rates near zero and maintaining the minimum \$120 billion of asset purchases each month.
- The Treasury yield curve showed moderating steepening with the 10- and 30-year finishing the week at 1.20% and 2.01% respectively largely anticipating another round of stimulus. However, short-term rates continue to remain at their historic lows.
- The Finance Committee met in February and one of the agenda items discussed
 was funding ratios and annual contributions of the Agency's pension and retiree
 medical plans. The Committee asked for more time to review and analyze the data
 presented with a goal of addressing both plans again at the May meeting.

Schedule Coordination Goals

Software Development

- New releases/completed projects
 - PCWA's transition into NCPA Deal Manager and Risk Manager System.
 Systems fully rolled out for PCWA
 - o RPS Reporting app Phase 1 rolled out. Phase 1 of the RPS app includes the conversion of the Excel RPS Balance report on Member position. The new interface features a dynamic historical, current and forward view. WREGIS data was also integrated to account for retired RECs and carry overs. Phase 2 development is underway to provide the member some interactive capabilities such as entering Retail and Municipal Load.
 - Santa Clara's Central 40 Solar Resource rolled in production. Start of scheduling pending COD.
- New applications and enhancements under development
 - ABISS (Accounting, Budget, Information and Settlements System) is under development. It is a new Business Intelligence Reporting tool to provide financial information to both NCPA and members.
 - Renewable Portfolio Standard Reporting app to be added as an enhancement to the Risk Management app. The report will provide members an automated RPS Balance Sheet of their RECs in a Compliance Period. RPS Reporting app Phase 2 is underway.
 - LEC MSG development in MIDS and Pre-scheduler underway, projected completion by Q2, 2021.
- IS is working with Accounting and its software consultant to enhance the financial reporting. Assessment report and proposed functional design was delivered by the consultant and is being vetted.

Network

- Progress continues to be made upgrading staff to Windows 10 with over 99% of the Agency on the new Operating System. IS staff are working with individual departments to upgrade the few remaining Windows 7 machines and anticipate to be completed in the coming weeks.
- The IS SCADA team has completed the point and curtailment logic testing in preparation for the Central 40 go live scheduled for mid-February.
- Operations and Support staff continue working to migrate from the HQ Cisco core switch to a new Aruba stack for better performance and support. Majority of the core server infrastructure has been switched over to the new core and the systems team is wrapping up the final changes to reroute all communications.
- SCADA team is finalizing an updated screen for dispatchers that will alert them of any substantial unexpected load loss. This will help to notify our real time operations desk of any equipment trouble or city outages. Screens are expected to be finalized and available by end of February.
- IS continues working with EBCE and technical contractors to further integration
 efforts with Altamont Wind. Initial point testing of the Altamont wind project has been
 completed. Curtailment logic still needs to be tested in preparation for an April go
 live date.
- Comcast has successfully installed a new Internet fiber circuit at the Headquarter office. This circuit will be used to provide redundancy for NCPA Internet services when the primary ISP Consolidated Communications is degraded or unavailable.

NCPA Bills & Settlements

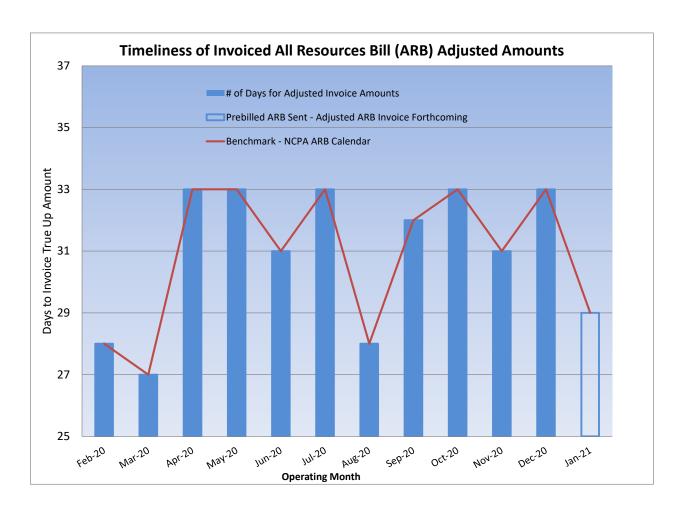
Progress Against the Strategic Plan

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 January 2021 NCPA All Resources Bill (ARB) monthly invoice sent to members on December 23, 2020 contains:

- January 2021 monthly pre-billed budget/forecast amounts;
- November 2020 (1st Adjustment) NCPA Project and CAISO Initial settlement true-ups;
- October 2020 (2nd Adjustment) NCPA Project settlement true-up and T+12 business day recalculated CAISO settlement true-up allocations;
- August 2020 (3rd Adjustment) T+55 business day recalculated CAISO settlement true-up allocations and NCPA Projects true-up;
- February 2020 (4th Adjustment) T+9 month recalculated CAISO settlement true-up allocations;
- April 2019 (5th Adjustment) T+18 month recalculated CAISO settlement true-up allocations;
- January 2018 (6th Adjustment) T+33 month recalculated CAISO settlement true-up;

October 2017 (7th Adjustment) T+36 month CAISO settlement true-up;



Legislative & Regulatory

Political Arena State/Federal/Western Programs

- NCPA staff continue to review new bill introductions as the State Legislature pushes
 toward the February 19 bill introduction deadline. Bill topics of interest include
 broadband deployment, renewable energy planning and procurement, transportation
 decarbonization, and wildfire issues, among other policy areas. NCPA will provide
 an overview of introduced bills during the February 24 Legislative and Regulatory
 Committee meeting.
- NCPA members participated in a round of virtual Capitol Day meetings with state
 legislators and regulatory agency leadership. Topis covered included energy
 affordability, reliability and resiliency, decarbonization, and wildfires, as well as
 discussion of NCPA member programs/activity in these areas. As the Legislature
 delves into potential COVID-19 relief efforts early in the year, NCPA members also
 shared the financial impacts of COVID-19 on their utilities and highlighted support for
 targeted relief for utility arrearages.

Human Resources

Hires:

Jonathan Ashcraft joined the NCPA team on February 8, 2021 as our new Supervisor I, General Services. Jonathan comes with over 20 years of experience in facilities and operations management including directing and coordinating facilities planning, maintenance, construction project management, information technology, procurement, and environmental health and safety. Prior to joining our team, he worked for Arcadia Biosciences as their Facilities and Operations Manager and was responsible for facility planning of leases and fixed assets, budgets, and maintenance of mechanical, electrical and plumbing systems.

Intern Hires:

None

Promotions/Position Changes:

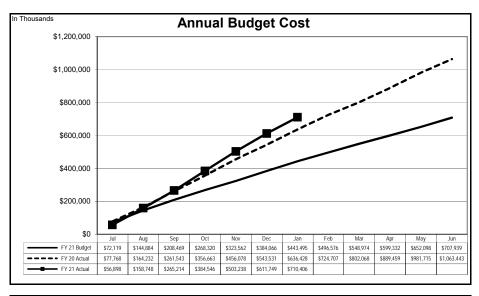
None

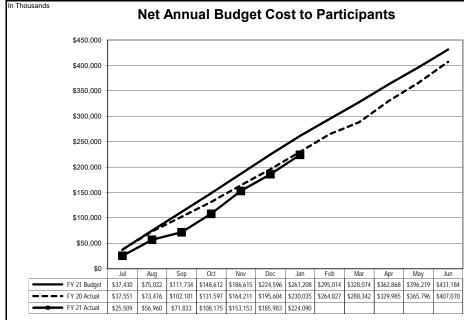
Separations:

Knat Holben, Supervisor I, General Services, retired from our Headquarters office on February 5, 2021 after over 14 years of service with NCPA.

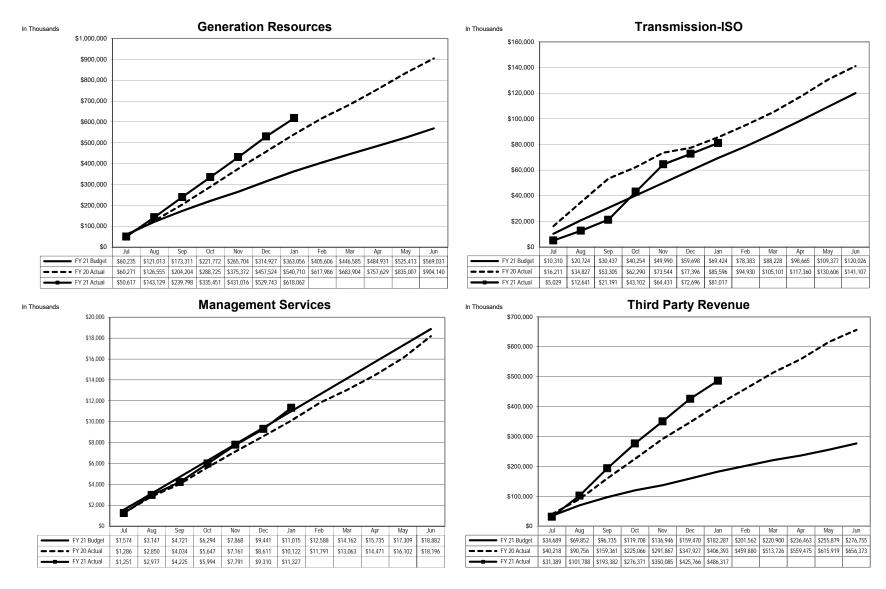
Annual Budget 2020-2021 Fiscal Year To Date As of January 31, 2021

In Thousands		Program		
	Annual		Under(Ovr)	YTD %
GENERATION RESOURCES	Budget	Actual	Budget	Remaining
NCPA Plants				
Hydroelectric	54,260	30,361	\$ 23,899	44%
Geothermal Plant	35,561	20,781	14,781	42%
Combustion Turbine No. 1	7,884	3,662	4,222	54%
Combustion Turbine No. 2 (STIG) Lodi Energy Center	7,989	5,925	2,065	26%
Lodi Eriergy Ceriter	92,551	44,476	48,076 93,042	52% 47%
Member Resources - Energy	198,246 60.056	105,204 35,133	93,042 24.922	41%
Member Resources - Natural Gas	2,442	2,202	24,922	10%
Western Resource	29,870	15,926	13.944	47%
Market Power Purchases	27.423	20.646	6.777	25%
Load Aggregation Costs - ISO	250,995	438,117	(187,122)	-75%
Net GHG Obligations	-	834	(834)	
	569,031	618,062	(49,031)	-9%
TRANSMISSION				l
Independent System Operator	120,026	81,017	39,009	33%
MANAGEMENT SERVICES				
Legislative & Regulatory				1
Legislative Representation	2,180	928	1,252	57%
Regulatory Representation	715	426	289	40%
Western Representation	716	337	379	53%
Customer Programs	477	247	230	48%
	4,088	1,938	2,150	53%
Judicial Action	460	380	80	17%
Power Management				
System Control & Load Dispatch	6,766	3,664	3,101	46%
Forecasting & Prescheduling	2,934	1,617	1,317	45%
Industry Restructuring Contract Admin, Interconnection Svcs & Ext. Affairs	425	239	186	44%
•	1,000	574	426	43%
Gas Purchase Program	82	37	45	55%
Market Purchase Project	117	53	64	55%
Energy Risk Management	11,324	6,185	5,139	45%
Settlements	230	99	131	57%
Integrated System Support	924 266	413 119	510 147	55% 55%
Participant Pass Through Costs	1,591	812	779	49%
Support Services	1,391	1,381	(1,381)	4970
··	18,882	11,327	7,556	40%
TOTAL ANNUAL BUDGET COST	707.939	710.406	(2,467)	0%
TOTAL ANNOAL BODGET COST	101,939	7 10,400	(2,407)	0,0
LESS: THIRD PARTY REVENUE				
Plant ISO Energy Sales	105,258	68,228	37,030	35%
Member Resource ISO Energy Sales	26,422	20,154	6,267	24%
Member Owned Generation ISO Energy Sales	69,679	50,673	19,006	27%
Customer Owned Generation ISO Energy Sales	-	37	(37)	
NCPA Contracts ISO Energy Sales	18,915	13,035	5,880	31%
Western Resource ISO Energy Sales	17,481	17,250	230	1%
Load Aggregation Energy Sales	-	201,367	(201,367)	
Ancillary Services Sales	3,988	4,496	(507)	-13%
Transmission Sales	110	64	46	42%
Western Credits, Interest & Other Income	34,902	111,011	(76,109)	-218%
L	276,755	486,317	(209,562)	-76%
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	104 (5-	004.000		100/
NET ANNUAL BUDGET COST TO PARTICIPANTS	431,185	224,090	\$ 207,095	48%



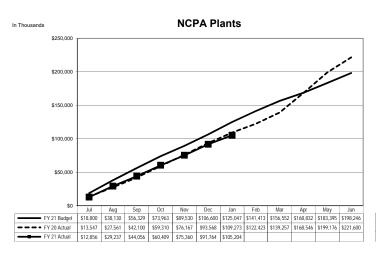


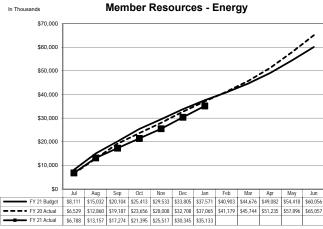
Annual Budget Budget vs. Actual By Major Area As of January 31, 2021

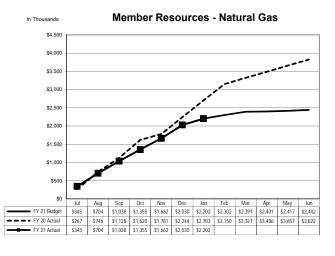


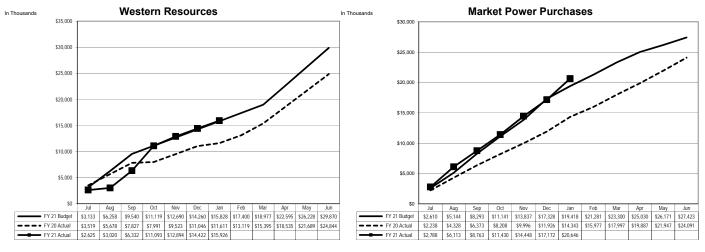
Footnote: Transmission is solely reflective of Independent System Operator (ISO) costs

Annual Budget Cost Generation Resources Analysis By Source As of January 31, 2021



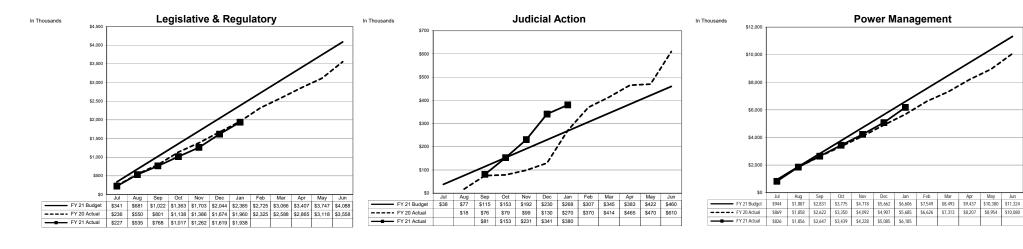


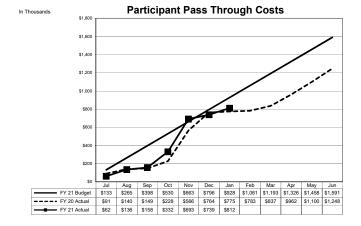




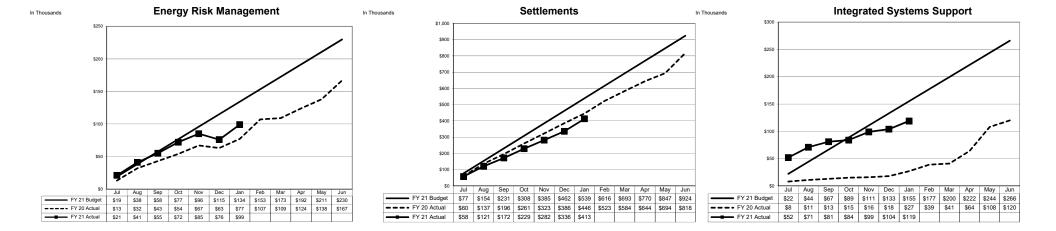
Footnote: Other Resources (Graeagle, BART PV, Gridley PV) are included in Market Power Purchases

Annual Budget Cost Management Services Analysis By Source As of January 31, 2021

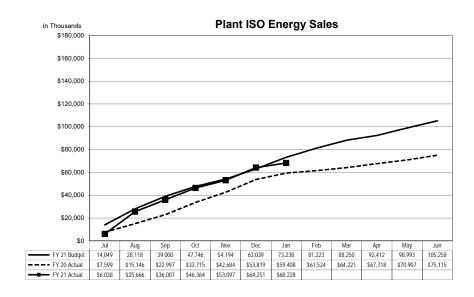


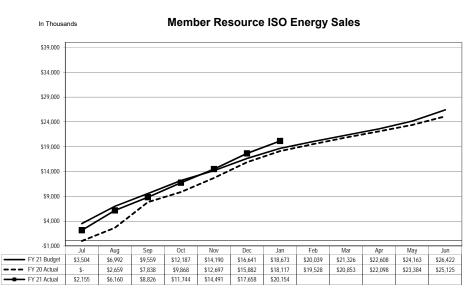


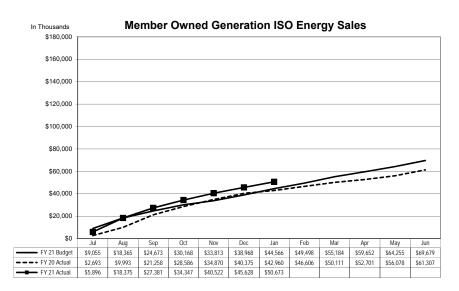
Annual Budget Cost Management Services Analysis By Source As of January 31, 2021

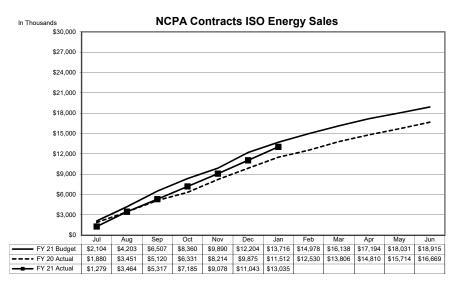


Annual Budget Cost Third Party Revenue Analysis By Source As of January 31, 2021

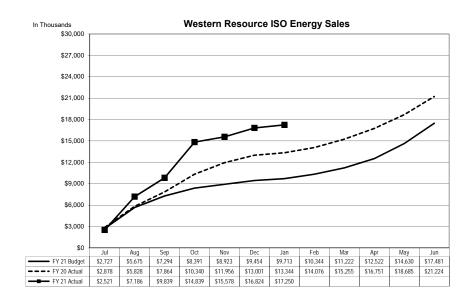


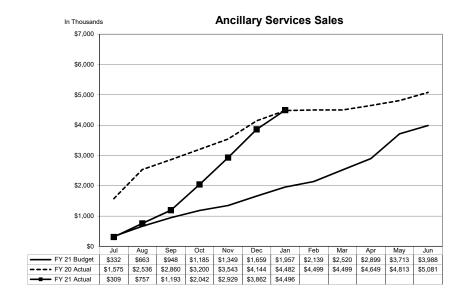


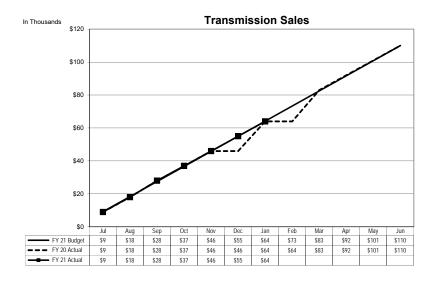


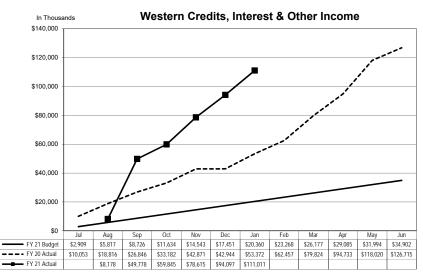


Annual Budget Cost Third Party Revenue Analysis By Source As of January 31, 2021









Annual Budget NCPA Generation Detail Analysis By Plant As of January 31, 2021

Generation Cost Analysis

\$ in thousands

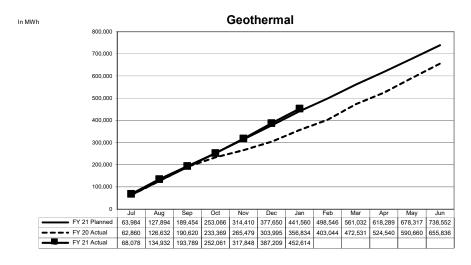
			Ge	othermal			
				\$/MWh	U	nder(Over)	YTD %
	Budget	Actual		Actual		Budget	Remaining
Routine O & M	\$ 19,252	\$ 11,104	\$	24.53	\$	8,148	42%
Capital Assets/Spare Parts Inventories	2,585	1,510		3.34		1,075	42%
Other Costs	8,239	4,389		9.70		3,850	47%
CA ISO Charges	534	890		1.97		(356)	-67%
Debt Service	4,950	2,888		6.38		2,063	42%
Annual Budget	35,561	20,781		45.91		14,781	42%
Less: Third Party Revenue							
Interest Income	382	87		0.19		295	77%
ISO Energy Sales	25,811	18,618		41.13		7,193	28%
Ancillary Services Sales	-	-		-		-	
Effluent Revenues	750	648		1.43		102	14%
Misc	113	66		0.15		47	41%
	27,056	19,419		42.90		7,637	28%
Net Annual Budget Cost to Participants	\$ 8,506	\$ 1,361	\$	3.01	\$	7,144	84%
	<u> </u>	<u> </u>					
Net GenerationMWh @ Meter	738,552	452,614					
\$/MWh (A)	\$ 4.81	\$ (3.37)	1				

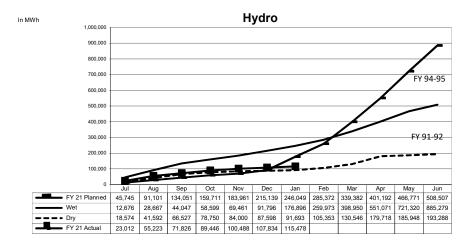
				Ну	droelectric	;		
					\$/MWh	Und	er(Over)	YTD %
	E	Budget	Actual		Actual	В	udget	Remaining
Routine O & M	\$	9,570	\$ 4,465	\$	38.67	\$	5,104	53%
Capital Assets/Spare Parts Inventories		365	2,774		24.02		(2,409)	-661%
Other Costs		8,323	1,921		16.64		6,401	77%
CA ISO Charges		2,615	1,725		14.94		890	34%
Debt Service		33,388	19,476		168.66		13,912	42%
Annual Budget		54,260	30,361		262.92		23,899	44%
Less: Third Party Revenue								
Interest Income		670	115		1.00		555	83%
ISO Energy Sales		22,147	11,178		96.80		10,969	50%
Ancillary Services Sales		2,276	2,606		22.57		(330)	-14%
Misc		-	-		-		-	
		25,094	13,899		120.36		11,194	45%
Net Annual Budget Cost to Participants	\$	29,167	\$ 16,462	\$	142.56	\$	12,705	
Net GenerationMWh @ Meter		508,507	115,478					
\$/MWh (A)	\$	(8.30)	\$ (26.10)					

Footnotes:

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

MWhs Generated





Annual Budget NCPA Generation Detail Analysis By Plant As of January 31, 2021

Generation Cost Analysis

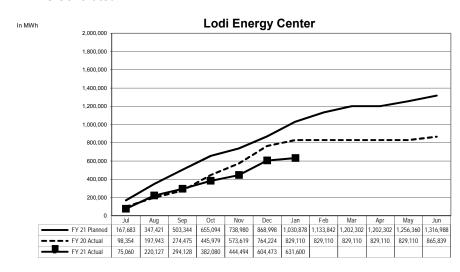
				Loc	di E	Energy Cer	nte	r	
						\$/MWh	U	nder(Over)	YTD %
	E	Budget		Actual		Actual		Budget	Remaining
Routine O & M	\$	14,463	\$	7,616	\$	12.06	\$	6,848	47%
Fuel		32,956		16,735		26.50		16,221	49%
CA ISO Charges and Energy Purchases		3,831		1,648		2.61		2,183	57%
Capital Assets/Spare Parts Inventories		2,906		1,413		2.24		1,493	51%
Other Costs		12,372		1,884		2.98		10,488	85%
Debt Service		26,024		15,181		24.04		10,843	42%
Annual Budget		92,551		44,476		70.42		48,076	52%
Less: Third Party Revenue Interest Income ISO Energy Sales Ancillary Services Sales Transfer Gas Credit GHG Allowance Credits Misc		386 55,590 1,712 - 8,463 - 66,151		165 33,136 1,203 - - 35 34,539		0.26 52.46 1.90 - 0.06 54.68		221 22,454 509 - 8,463 (35) 31,613	57% 40% 30% 0% 100% 0% 48%
Net Annual Budget Cost to Participants	\$	26,400	\$	9,937	\$	15.73	\$	16,463	62%
Net GenerationMWh @ Meter		1,316,988		631,600					
\$/MWh (A)	\$	0.29	\$	(8.30)					

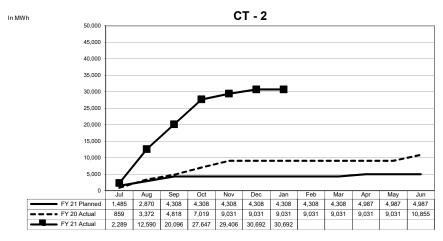
	Combustion Turbine No. 2 (STIG)									
						\$/MWh	Under(Over)		YTD %	
	E	Budget		Actual		Actual		Budget	Remaining	
Routine O & M	\$	1,584	\$		\$		\$	514	32%	
Fuel and Pipeline Transport Charges		910		1,450		47.26		(540)	-59%	
Capital Assets/Spare Parts Inventories		37		4		0.12		33	90%	
Other Costs		593		272		8.87		320	54%	
CA ISO Charges		40		313		10.20		(273)	-675%	
Debt Service		4,826		2,815		91.73		2,011	42%	
Annual Budget		7,989		5,925		193.03		2,065	26%	
Less: Third Party Revenue										
Interest Income		109		25		0.81		84	77%	
ISO Energy Sales		399		2,685		87.47		(2,286)	-573%	
Ancillary Service Sales		-		-		-		-	0%	
Fuel and Pipeline Transport Credits		1,821		747		24.35		1,073	59%	
GHG Allowance Credits		43		-		-		43	100%	
Misc		-		-		-		-	0%	
		2,371		3,457		112.63		(1,086)	-46%	
Net Annual Budget Cost to Participants	\$	5,618	\$	2,468	\$	80.40	\$	3,150	56%	
Net GenerationMWh @ Meter		4,987		30,692						
\$/MWh (A)	\$	158.75	\$	(11.33)						

Footnotes:

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

MWhs Generated





Annual Budget NCPA Generation Detail Analysis By Plant As of January 31, 2021

Generation Cost Analysis

		Combu	ısti	ion Turbin	e N	lo. 1	
				\$/MWh	U	nder(Over)	YTD %
	Budget	Actual		Actual		Budget	Remaining
Routine O & M	\$ 2,320	\$ 1,417	\$	172.15	\$	903	39%
Fuel and Pipeline Transport Charges	937	637		77.43		299	32%
Capital Assets/Spare Parts Inventories	3,667	829		100.65		2,838	77%
Other Costs	866	413		50.11		453	52%
CA ISO Charges	94	366		44.50		(272)	-290%
Debt Service	-	-				-	
Annual Budget	7,884	3,662		444.84		4,222	54%
_ess: Third Party Revenue							
Interest Income	-	26				(26)	
ISO Energy Sales	1,311	2,611		317.23		(1,300)	-99%
Ancillary Services Sales	-	-		-		` -	0%
Misc	-	16		1.90		(16)	0%
	1,311	2,653		319.13		(1,342)	-102%
Net Annual Budget Cost to Participants	\$ 6,572	\$ 1,009	\$	122.52	\$	5,564	85%
		•		•			
Net GenerationMWh @ Meter	15,641	8,232					
\$/MWh (A)	\$ 420.19	\$ 122.52					

Footnotes:

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

MWhs Generated

